

**Supplemental Materials related to Ordinance 22-38 –
Environmental Reports**

Reports prepared by Hydrogeology Inc. for Monroe County

- Karst Survey – Fullerton Pike (November 14, 2022) – page 2

Reports prepared by VET Environmental Engineering, LLC for Monroe County

- Phase I Environmental Site Assessment (August 10, 2022) – page 31
- Site Reconnaissance (August 11, 2022) – page 203
- Wetlands and Jurisdictional Waters Delineation Report (September 12, 2022) – page 330
- Phase II Environmental Investigation (September 21, 2022) – page 385

Monroe County Commissioners
100 W Kirkwood Ave
Bloomington, IN 47404

Date: November 14, 2022

Subject:

**Fullerton Pike – Karst Survey
Bloomington, IN**

Contact:

Jason Krothe

Phone:

812-219-0210

Email: jnkrothe@hydrogeologyinc.com

Monroe County Commissioners:

Hydrogeology Inc. (Hydrogeology) respectfully submits this karst report for an approximately 90-acre property located on Fullerton Pike in Bloomington, IN.

1 – Overview

The Site is located near the intersection of Fullerton Pike and Interstate 69 (I-69) in Bloomington, Indiana (Figures 1 & 2). The property currently consists of areas of trees and open pasture.

2 - Geology / Physiography

The Site is in the Mitchell Plateau physiographic region, which is one of the primary karst forming areas in Indiana. The bedrock at the Site is primarily the St. Louis Limestone (Hasenmueller, Estell, Keith, and Thompson, 2008) (Figure 3). The St. Louis is composed primarily of limestone but includes lesser amounts of shale, dolostone, sandstone, and chert (Carr, Leininger, and Golde, 1978). It is typically between 104 and 150 feet thick in the Bloomington area (Hasenmueller, Estell, Keith, and Thompson, 2008). The St. Louis Limestone is one of the major karst forming bedrock units in Indiana. The Salem Limestone is present in an approximately 0.5-acre area on the southeast corner of the property. The Salem Limestone is known for having exceptionally thick beds (Rexroad, 1986). In Monroe County the Salem Limestone varies in thickness from 56 to 86 feet (Hasenmueller, Estell, Keith, and Thompson, 2008).

3 – Sinkholes & Springs

Sinkholes are surface depressions that form in a variety of ways in karst areas (Figure 4). Sinkholes can have a swallow hole, which is an opening in the ground where water infiltrates. Groundwater flow in karst areas is predominantly fracture flow, meaning the bedrock itself has low permeability while the fractures in the bedrock are open conduits that allow water, soil, and other materials to travel quickly through the subsurface. Water that drains into a sinkhole can eventually discharge at a karst spring (Figure 5).

Several dye traces have been conducted in the vicinity of the Site and demonstrate divergent groundwater flow direction (INDOT, 2013) (Figure 6).

4 – Karst Desktop Review

A review of available karst resources was conducted prior to the field survey. Those resources include United State Geological Survey (USGS) topographic maps, Indiana Map karst data, 1-ft LIDAR topographic contours the I-69 Tier II Environmental Impact Statement (I-69 EIS), and private cave databases.

5 – Karst Field Survey

A karst field survey was conducted at the Site on October 31 and November 4 and 8, 2022. Nineteen sinkholes were identified during the field survey and are described below (Figure 7, Appendix A, Table 1). Sinkhole dimensions are based on 1-ft LIDAR topographic contours. All sinkholes were flagged and should be surveyed. Mitigation recommendations for each sinkhole are based on City of Bloomington Unified Development Ordinance, Chapter 20.04.030. The boundaries for all Karst Conservancy Easements should be based on the topographic survey for the Site, which has not been completed.

SH-01 – Sinkhole SH-1 is approximately 12 feet in diameter and 3 feet deep (Photograph 1). No bedrock or opening was observed within the sinkhole.

Mitigation Measures: SH-01 should receive a 25-foot Karst Conservancy Easement (KCE). Additionally, erosion and sediment control measures should be installed around the rim of SH-01 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-02 – Sinkhole SH-02 is 17 feet in diameter and 4 feet deep (Photograph 2). The sinkhole is soil filled with no apparent opening or bedrock.

Mitigation Measures: SH-02 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-02 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-03 – Sinkhole SH-03 is 65 feet long, 40 feet wide, and 7 feet deep. No bedrock or opening were observed within the sinkhole (Photograph 3).

Mitigation Measures: SH-03 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-03 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-04 – Sinkhole SH-04 is 57 feet long, 34 feet wide, and 7 feet deep (Photograph 4). An approximately 3 foot long, 6-inch-high opening is present within the sinkhole under a bedrock ledge. The opening extends horizontally into the subsurface for approximately 2 feet (Photograph 5).

Mitigation Measures: SH-04 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-04 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-05 – Sinkhole SH-05 is 25 feet long, 18 feet wide, and 4 feet deep. No bedrock or opening were observed within the sinkhole (Photograph 6).

Mitigation Measures: SH-05 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-05 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-06 – Sinkhole SH-06 is 50 feet long, 25 feet wide, and 6 feet deep (Photographs 7 & 8). The sinkhole is compound in nature with two depressions. No soil openings or bedrock were observed within either depression

Mitigation Measures: SH-06 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-06 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-07 – Sinkhole SH-07 is 47 feet in diameter and 8 feet deep (Photograph 9). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-07 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-07 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-08 – Sinkhole SH-08 is 80 feet long, 45 feet wide, and 4 feet deep (Photographs 10 & 11). The sinkhole is soil filled with no obvious opening or bedrock. A small surface drainage ends in the sinkhole.

Mitigation Measures: SH-08 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-08 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-09 – Sinkhole SH-09 is 10 feet in diameter and 3 feet deep (Photograph 12). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-09 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-09 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-10 – Sinkhole SH-10 is 10 feet in diameter and 3 feet deep (Photograph 13). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-10 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-10 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-11 – Sinkhole SH-11 is 30 feet in diameter and 2 feet deep (Photograph 14). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-11 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-11 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-12 – Sinkhole SH-12 is 65 feet in diameter and 6 feet deep (Photograph 15). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-12 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-12 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-13 – Sinkhole SH-13 is approximately 1.42 acres in area, of which 0.84 acres fall within the Site boundary (Photographs 16, 17, & 18). The sinkhole has been significantly altered by previous construction, initially for State Road 37 (SR-37) and then by I-69. Several check-dams are in place within the sinkhole. The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-13 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-13 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-14 – Sinkhole SH-14 is 0.55 acres in area, of which 0.24 acres fall within the Site boundary (Photograph 19). The sinkhole has been significantly altered by previous construction, initially for State Road 37 (SR-37) and then for I-69. A dye trace was conducted at the sinkhole for the I-69 EIS and demonstrated groundwater flow to the southwest to Sexton Spring East. (Photo 37). The portion of the sinkhole on the Site is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-14 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-14 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-15 – Sinkhole SH-15 is 1.19 acres in area, of which 1.03 acres fall within the Site boundary (Photograph 20). The sinkhole has been significantly altered by previous construction, initially for State Road 37 (SR-37) and then by I-69. The portion on the sinkhole on the Site is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-15 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-15 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-16 – Sinkhole SH-16 is 5 feet in diameter and 2 feet deep (Photograph 21). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-16 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-16 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-17 – SH-17 is a potential sinkhole that is 3 feet in diameter and unknown depth as it is filled with riprap (Photograph 22).

Mitigation Measures: A limited excavation of the riprap should be conducted to determine if SH-17 is a sinkhole. If SH-17 is established as a sinkhole it should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-17 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-18 – Sinkhole SH-18 is 10 feet long, 6 feet wide, and 2 feet deep (Photograph 23). The sinkhole is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-18 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-18 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-19 – Sinkhole SH-19 is 2.45 acres in area, of which only 0.02 acres fall within the Site boundary (Photograph 24). The sinkhole has been significantly altered by previous construction, initially for State Road 37 (SR-37) and then by I-69. The portion on the sinkhole on the Site is soil filled with no obvious opening or bedrock.

Mitigation Measures: SH-19 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-19 prior to land clearing operations and until revegetation has occurred at the Site after construction.

6 – Study Limitations

The identification of karst features at the Site was limited to surface inspection. No subsurface investigations were conducted for this study. Undocumented karst features are possible in the subsurface. Dense vegetation is present in the wooded areas of the Site. Identification of karst features can be difficult in areas with dense ground vegetation. Clearing of ground vegetation was not within the scope of work for this survey.

Extensive ground alteration has occurred at the Site with the removal of topsoil in some areas and mounding in other areas (Figure 8). Approximately 19 acres have been altered by either removal or addition of topsoil. Ground alteration at the Site could have removed the surface expression of karst features.

7 – Karst Best Management Practices

The following are karst management practices that should be considered for the Site:

Water Quality

Groundwater recharge in karst areas predominately occurs through sinkholes. Water infiltrates into a sinkhole, then flows along karst conduits and typically discharges to a karst spring. There is minimal filtration of the water throughout this shallow groundwater cycle. Therefore, it is critical to maintain or improve water quality at the Site.

Impacts to water quality at the Site are most likely to occur due to erosion and sediment mobilization during construction. Erosion and sediment control will be critical to preventing water quality impacts. All sinkholes should be protected with appropriate erosion and sediment controls for the duration of construction at the Site. In addition to these measures a low salt no herbicide/pesticide spray policy should be implemented for the Site.

Several drinking water wells registered with the Indiana Department of Natural Resources (IDNR) are near the Site (Figure 9). Based on previously conducted dye traces at the Site, these and other wells could be impacted from construction activities at the Site.

Drainage Alteration

Alteration of natural drainage patterns can result in the development of new sinkholes, or enlargement of existing sinkholes, particularly when run-off is concentrated. The drainage plan for the Site should maintain the existing drainage patterns wherever possible and prevent concentrated run-off. To prevent development of new sinkholes, detention basins should be lined with an impervious material.

Unknown Karst Features

Previously unknown karst features are possibly present in the subsurface at the Site. If any previously unknown karst feature is identified during development of the Site, the features should be protected with erosion and sediment control measures and inspected by a karst specialist.

8 – Summary

A desktop review and field survey were conducted at the Site to identify any karst features. Nineteen sinkholes were identified at the Site. All sinkholes should have a 25-ft or 50-ft KCE and be protected with erosion and sediment control measures throughout the entire construction process. The karst field survey was limited to surface inspection with no subsurface investigation. Unknown karst features are possibly present in the subsurface at the Site. Dense vegetation was present in areas of the Site, which prevented close ground inspection in those areas. Removal and mounding of soil have occurred over approximately 19 acres of the site, which could have removed the surface expression of karst features. If a previously unknown karst feature is discovered during construction activities the feature should be protected with erosion and sediment control measures and inspected by a karst specialist.

Hydrogeology appreciates the opportunity to provide this summary report. If you have any questions, concerns, or comments please do not hesitate to contact me directly at (812) 219-0210.

Sincerely,

Hydrogeology Inc.

Jason N. Krothe, LPG IN-2511
President

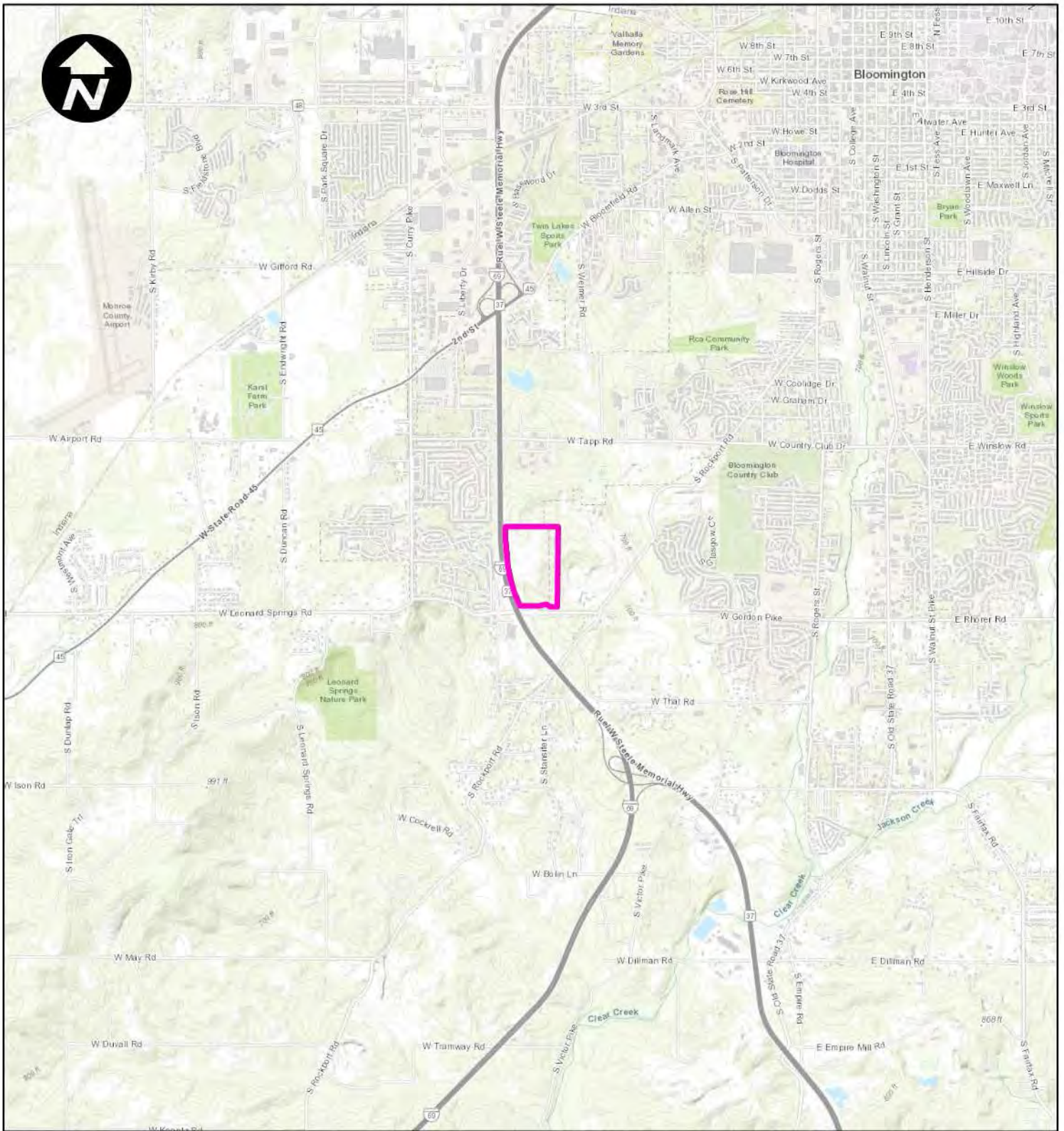
References

Carr, D. D., Leininger, R. K., and Golde, M. V., 1978, Crushed stone resources of the Blue River Group (Mississippian) of Indiana: Indiana Geological Survey Bulletin 52, 225 p.

Hasenmueller, W. A., Estell, C. M., Keith, B., and Thompson, T. A., 2009, Bedrock geologic map of Monroe County, Indiana: Indiana Geological Survey Miscellaneous Map 73, scale 1:48,000.

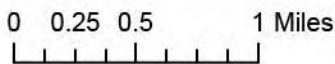
Indiana Department of Transportation, 2013, I-69 Evansville to Indianapolis, Indiana, Tier 2 Final Environmental Impact Statement Section 5 SR 37 South of Bloomington, Monroe County to SR 39, Morgan County.

Rexroad, C. B., 1986, Harrodsburg Limestone, in Shaver, R. H., Ault, C. H., Burger, A. M., Carr, D. D., Droste, J. B., Eggert, D. L., Gray, H. H., Harper, Denver, Hasenmueller, N. R., Hasenmueller, W. A., Horowitz, A. S., Hutchison, H. C., Keith, B. D., Keller, S. J., Patton, J. B., Rexroad, C. B., and Wier, C. E., Compendium of Paleozoic rock-unit stratigraphy in Indiana—a revision: Indiana Geological Survey Bulletin 59, p. 57-59.



LEGEND

 SITE



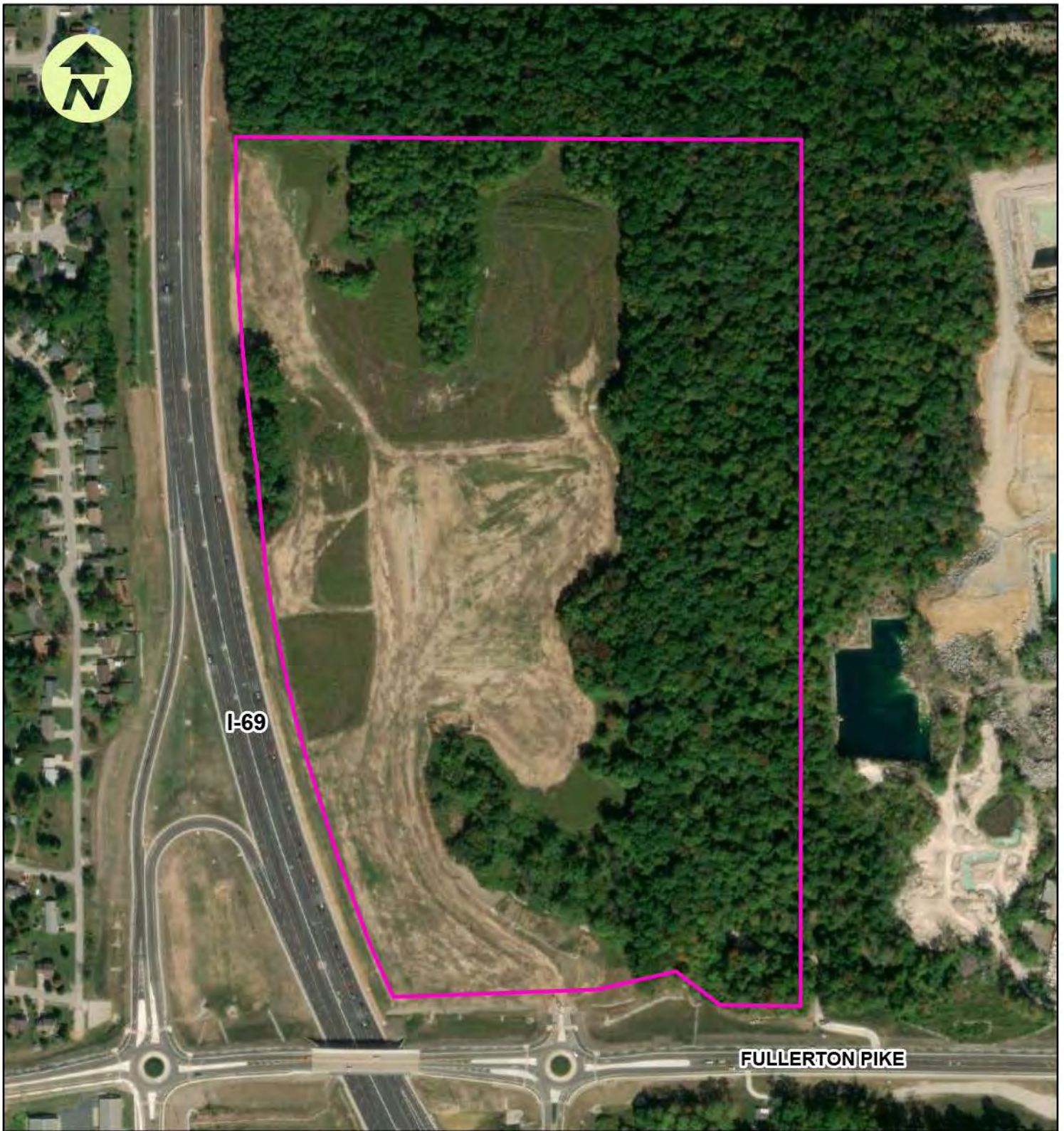
**KARST SURVEY
FULLERTON PIKE
BLOOMINGTON, IN**

SITE LOCATION

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community


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**FIGURE
1**



LEGEND

 SITE BOUNDARY

0 125 250 500 Feet


**KARST SURVEY
 FULLERTON PIKE
 BLOOMINGTON, IN**

SITE BOUNDARY




hydrogeology inc.

FIGURE
1


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND

-  SITE BOUNDARY
-  ST LOUIS LIMESTONE
-  SALEM LIMESTONE

0 125 250 500 Feet



KARST SURVEY
FULLERTON PIKE
BLOOMINGTON, IN

BEDROCK GEOLOGY

Source: Hasenmueller, W. A., Estell, C. M., Keith, B., and Thompson, T. A., 2009, Bedrock geologic map of Monroe County, Indiana: Indiana Geological Survey Miscellaneous Map 73, scale 1:48,000.

hydrogeology inc.

FIGURE

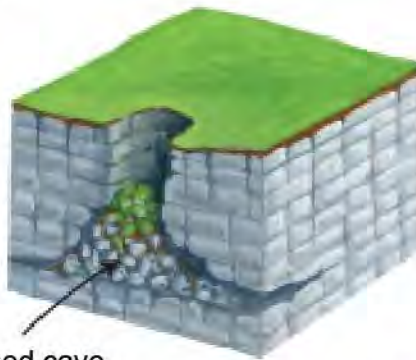
3

Solution Sinkhole



Limestone dissolves and drains away in solution

Collapse Sinkhole



Collapsed cave

Subsidence Sinkhole



Soil and glacial deposits sink into fissures

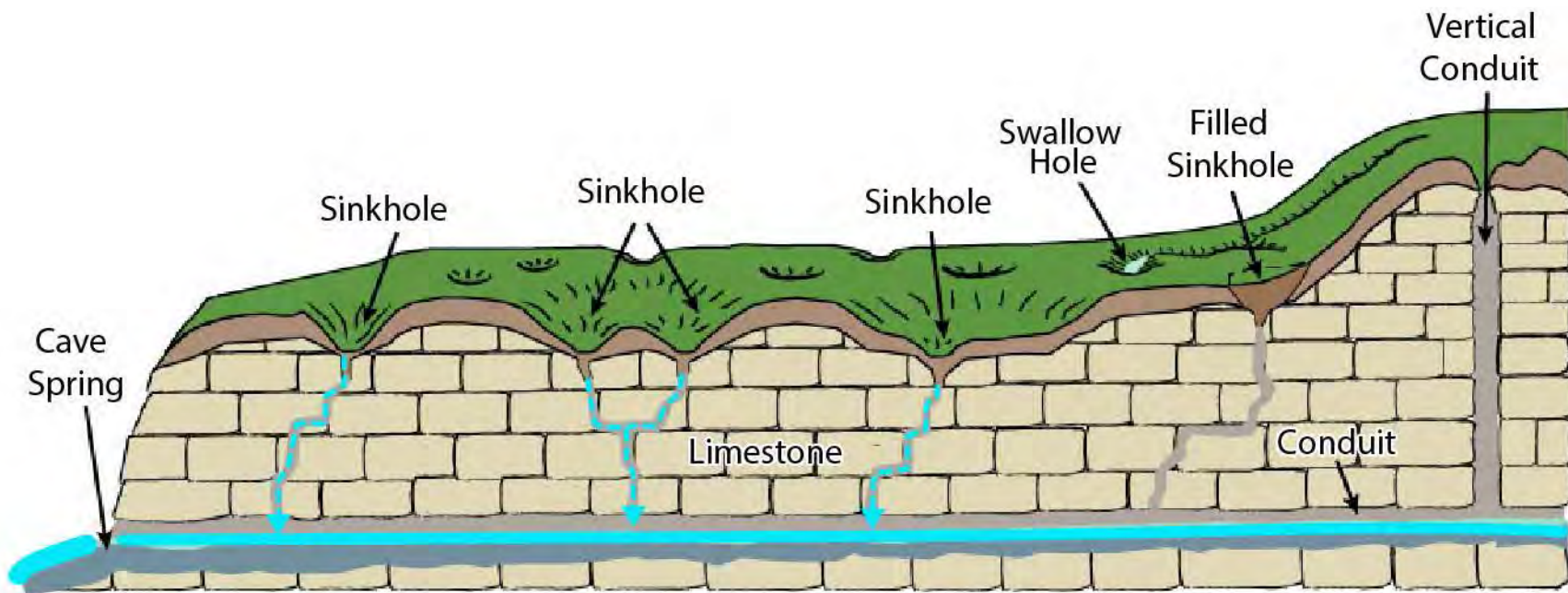
KARST SURVEY
FULLERTON PIKE
BLOOMINGTON, IN

SINKHOLE TYPES

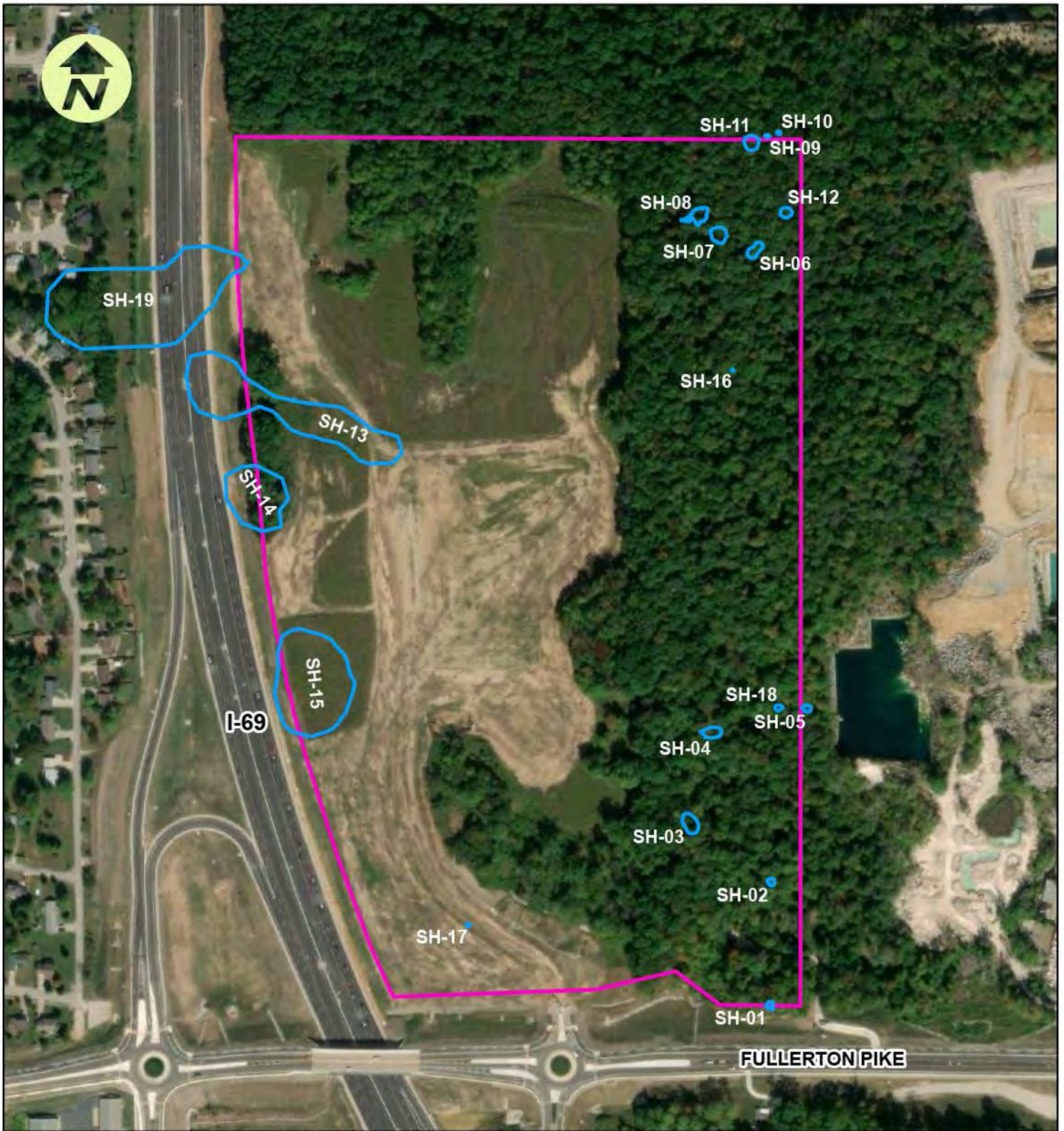
hydrogeology inc.

FIGURE

4




	KARST SURVEY FULLERTON PIKE BLOOMINGTON, IN
	CONCEPTUAL KARST CROSS SECTION
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px;">hydrogeology inc.</div> <div style="text-align: right;"> FIGURE 5 </div> </div>



LEGEND

 SITE BOUNDARY

0 125 250 500 Feet


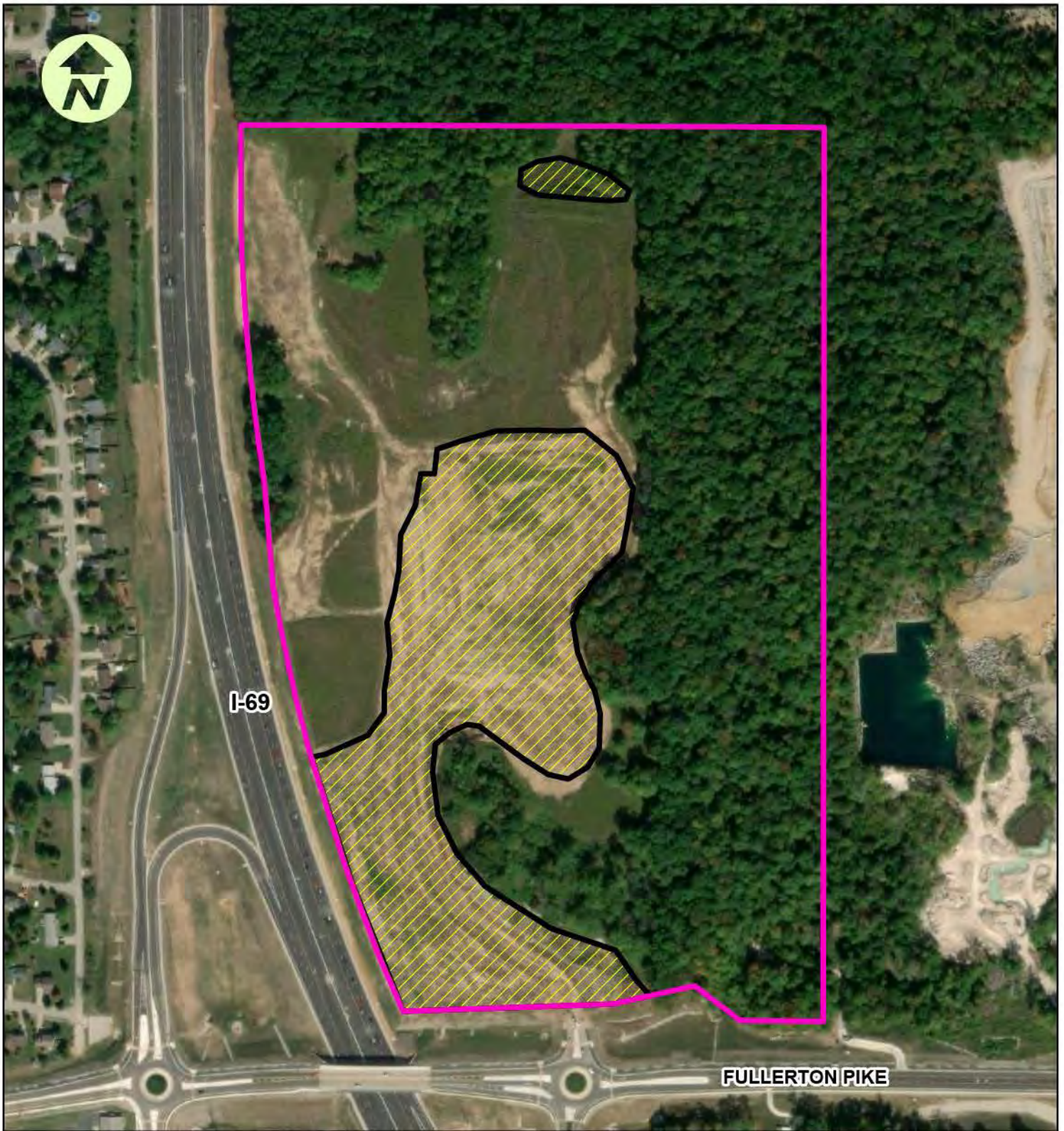
**KARST SURVEY
 FULLERTON PIKE
 BLOOMINGTON, IN**

SINKHOLES

hydrogeology inc.

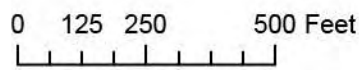
FIGURE
7

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND

- SITE BOUNDARY
- SOIL DISTURBANCE AREA



Source: VET Environmental 2022

**KARST SURVEY
FULLERTON PIKE
BLOOMINGTON, IN**

SOIL DISTURBANCE


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FIGURE
8

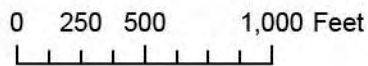


LEGEND

 SITE BOUNDARY

 WATER WELL

222742 IDNR WELL NUMBER



**KARST SURVEY
FULLERTON PIKE
BLOOMINGTON, IN**

WATER WELLS

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FIGURE
9

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Table 1 - Karst Features

NAME	TYPE	UTMX	UTMY	LENGTH (ft)	WIDTH (ft)	DEPTH (ft)
SH-01	SINKHOLE	537414	4330477	12	12	3
SH-02	SINKHOLE	537414	4330583	17	17	4
SH-03	SINKHOLE	537348	4330629	65	40	7
SH-04	SINKHOLE	537366	4330711	57	34	7
SH-05	SINKHOLE	537446	4330731	25	18	4
SH-06	SINKHOLE	537402	4331124	50	25	6
SH-07	SINKHOLE	537370	4331137	47	47	8
SH-08	SINKHOLE	537351	4331149	80	45	4
SH-09	SINKHOLE	537410	4331223	10	10	3
SH-10	SINKHOLE	537421	4331226	10	10	3
SH-11	SINKHOLE	537398	4331218	30	30	2
SH-12	SINKHOLE	537427	4331157	65	65	6
SH-13	SINKHOLE	537030	4330976	1300	330	7
SH-14	SINKHOLE	536975	4330912	190	160	11
SH-15	SINKHOLE	537013	4330739	610	450	10
SH-16	SINKHOLE	537381	4331022	5	5	2
SH-17	SINKHOLE	537154	4330546	3	3	NA
SH-18	SINKHOLE	537421	4330732	10	6	2
SH-19	SINKHOLE	536960	4331114	1100	450	10

Photograph Number:

1

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-01.

Recommended treatment:

25-foot SCA



Photograph Number:

2

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-02.

Recommended treatment:

25-foot SCA



Photograph Number:

3

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-03.

Recommended treatment:
25-foot SCA



Photograph Number:

4

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-04.

Recommended treatment:
25-foot SCA



Photograph Number:

5

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-04.

Recommended treatment:
25-foot SCA



Photograph Number:

6

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-05.

Recommended treatment:
25-foot SCA



Photograph Number:

7

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-06.

Recommended treatment:
25-foot SCA



Photograph Number:

8

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-06.

Recommended treatment:
25-foot SCA



Photograph Number:

9

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-07.

Recommended treatment:
25-foot SCA



Photograph Number:

10

Coordinates (UTM Meters)

See Table 1

Photograph Date: 11-12-21

Comments:

Sinkhole SH-08.

Recommended treatment:
25-foot SCA



Photograph Number: 11
Coordinates (UTM Meters) See Table 1
Photograph Date: 10-31-22
Comments: Sinkhole SH-08.
Recommended treatment: 25-foot SCA



Photograph Number: 12
Coordinates (UTM Meters) See Table 1
Photograph Date: 10-31-22
Comments: Sinkhole SH-09.
Recommended treatment: 25-foot SCA



Photograph Number:

13

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-10.

Recommended treatment:
25-foot SCA



Photograph Number:

14

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-11.

Recommended treatment:
25-foot SCA



Photograph Number:

15

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-12.

Recommended treatment:
25-foot SCA



Photograph Number:

16

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-13.

Recommended treatment:
25-foot SCA



Photograph Number:

17

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-13.

Recommended treatment:

25-foot SCA



Photograph Number:

18

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-13.

Recommended treatment:

25-foot SCA



Photograph Number:

19

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-14.

Recommended treatment:

25-foot SCA



Photograph Number:

20

Coordinates (UTM Meters)

See Table 1

Photograph Date: 10-31-22

Comments:

Sinkhole SH-15.

Recommended treatment:

25-foot SCA



Photograph Number:

21

Coordinates (UTM Meters)

See Table 1

Photograph Date: 11-4-22

Comments:

Sinkhole SH-16.

Recommended treatment:

25-foot SCA



Photograph Number:

22

Coordinates (UTM Meters)

See Table 1

Photograph Date: 11-4-22

Comments:

Sinkhole SH-17.

Recommended treatment:

Limited excavation



Photograph Number:

23

Coordinates (UTM Meters)

See Table 1

Photograph Date: 11-8-22

Comments:

Sinkhole SH-18.

Recommended treatment:
25-foot SCA



Photograph Number:

24

Coordinates (UTM Meters)

See Table 1

Photograph Date: 11-8-22

Comments:

Sinkhole SH-19.

Recommended treatment:
25-foot SCA



Phase I Environmental Site Assessment

South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403



Prepared for:

Mr. Jeff Cockerill, Attorney
Monroe County Board of Commissioners
100 West Kirkwood Avenue
Bloomington, Indiana 47404

Prepared by:



VET Environmental Engineering, LLC
2335 West Fountain Drive
Bloomington, Indiana 47404

Date:

August 10, 2022

Project Number:

22-48



VET ENVIRONMENTAL ENGINEERING, LLC

2335 West Fountain Drive, Bloomington, IN 47404

Phone: (812) 822-0400 Fax: (812) 650-3892

Email: info@vet-env.com

August 10, 2022

Mr. Jeff Cockerill
Monroe County Board of Commissioners
100 West Kirkwood Avenue
Bloomington, Indiana 47404

Subject: **Phase I Environmental Site Assessment (ESA)
South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403 (Subject Property)**

Dear Mr. Jeff Cockerill,

This report summarizes the activities and findings of the Phase I Environmental Site Assessment (ESA) conducted at the above-referenced location. VET Environmental Engineering, LLC (VET) representatives Ms. Sara Hamidovic, MS, PE, CHMM, Ms. Rene Lloyd, MS, MPA, and Ms. Emily Throop performed a walk-through reconnaissance of the Subject Property and a visual reconnaissance of adjoining properties from readily accessible public thoroughfares and the Subject Property on August 2, 2022.

The Phase I ESA was conducted at the request of Mr. Jeff Cockerill on behalf of the Monroe County Board of Commissioners.

Please do not hesitate to contact us at 812-822-0400 if you have any questions regarding this report.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Sara Hamidovic', is written over a light blue horizontal line.

Sara Hamidovic, MS, PE, CHMM
Principal Engineer

Phase I Environmental Site Assessment

**South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 22-48

1.0 EXECUTIVE SUMMARY..... 1

2.0 INTRODUCTION..... 1

 2.1 Purpose..... 1

 2.2 Detailed Scope of Services 1

 2.3 Significant Assumptions 2

 2.4 Limitations and Exceptions..... 2

 2.5 User Reliance 3

 2.6 Location and Legal Description..... 3

 2.7 Subject Property and Vicinity General Characteristics..... 3

 2.8 Desktop Reconnaissance..... 4

 2.9 Current Use of the Subject Property 5

 2.10 Descriptions of Structures, Roads, and Other Improvements 5

 2.11 Current Uses of Adjoining Properties 5

3.0 USER PROVIDED INFORMATION 6

 3.1 User Questionnaire..... 6

 3.2 Title Records 6

 3.3 Environmental Liens or Activity and Use Limitations 10

 3.4 Specialized Knowledge..... 10

 3.5 Commonly Known or Reasonably Ascertainable Information 10

 3.6 Valuation Reduction for Environmental Issues 10

 3.7 Owner, Manager, and Occupant Information 11

 3.8 Reason for Performing Phase I 11

4.0 RECORD REVIEW..... 11

 4.1 EDR Record Review 11

 4.2 Mapped EDR Sites 14

 4.3 Leaking Underground Storage Tank (LUST) Sites 12

 4.4 Vapor Encroachment Screen (VES) for Petroleum Sites..... 12

 4.5 Vapor Encroachment Screen (VES) for Contaminants of Concern (COC) Sites 12

 4.6 Physical Setting Sources 12

 4.7 Historic Use of the Subject Property..... 15

 4.8 Historic Use of Adjoining Properties..... 15

5.0 SITE RECONNAISSANCE 15

 5.1 Methodology and Limiting Conditions..... 15

 5.2 Exterior Observations 15

 5.3 Interior Observations 16

6.0 INTERVIEWS..... 16

7.0 FINDINGS/OPINION 17

8.0 CONCLUSIONS 18

9.0 DEVIATIONS 18

10.0 ADDITIONAL SERVICES..... 18

REFERENCES..... 19



Phase I Environmental Site Assessment

**South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 22-48

1.0 EXECUTIVE SUMMARY..... 1

2.0 INTRODUCTION..... 1

 2.1 Purpose..... 1

 2.2 Detailed Scope of Services 1

 2.3 Significant Assumptions 2

 2.4 Limitations and Exceptions..... 2

 2.5 User Reliance 3

 2.6 Location and Legal Description..... 3

 2.7 Subject Property and Vicinity General Characteristics..... 3

 2.8 Desktop Reconnaissance..... 4

 2.9 Current Use of the Subject Property 5

 2.10 Descriptions of Structures, Roads, and Other Improvements 5

 2.11 Current Uses of Adjoining Properties 5

3.0 USER PROVIDED INFORMATION 6

 3.1 User Questionnaire..... 6

 3.2 Title Records 6

 3.3 Environmental Liens or Activity and Use Limitations 10

 3.4 Specialized Knowledge..... 10

 3.5 Commonly Known or Reasonably Ascertainable Information 10

 3.6 Valuation Reduction for Environmental Issues 10

 3.7 Owner, Manager, and Occupant Information 11

 3.8 Reason for Performing Phase I 11

4.0 RECORD REVIEW..... 11

 4.1 EDR Record Review..... 11

 4.2 Leaking Underground Storage Tank (LUST) Sites 12

 4.3 Vapor Encroachment Screen (VES) for Petroleum Sites..... 12

 4.4 Vapor Encroachment Screen (VES) for Contaminants of Concern (COC) Sites 12

 4.5 Physical Setting Sources 12

 4.6 Historic Use of the Subject Property..... 15

 4.7 Historic Use of Adjoining Properties..... 15

5.0 SITE RECONNAISSANCE 15

 5.1 Methodology and Limiting Conditions..... 15

 5.2 Exterior Observations 15

 5.3 Interior Observations 16

6.0 INTERVIEWS..... 16

7.0 FINDINGS/OPINION 17

8.0 CONCLUSIONS 18

9.0 DEVIATIONS 18

10.0 ADDITIONAL SERVICES..... 18

REFERENCES..... 19

LIST OF EXHIBITS



- EXHIBIT 1:** AREA MAP & DRINKING WATER WELLS WITHIN ¼ MILE
- EXHIBIT 2:** AERIAL PHOTO WITH PARCEL IDENTIFICATION
- EXHIBIT 3:** SOILS MAP
- EXHIBIT 4:** SITE MAP & ADJOINING PROPERTIES
- EXHIBIT 5:** VAPOR ENCROACHMENT SCREEN (VES) FOR PETROLEUM SITES
- EXHIBIT 6:** VES FOR CONTAMINANTS OF CONCERN (COC) SITES
- EXHIBIT 7:** RADON MAP

LIST OF TABLES

- TABLE 1.** LOCATION AND LEGAL DESCRIPTION
- TABLE 2.** CURRENT USES OF ADJOINING PROPERTIES
- TABLE 3.** TITLE RECORDS & CITY DIRECTORY LISTINGS
- TABLE 4.** MAPPED EDR SITES
- TABLE 5.** AERIAL PHOTOGRAPH SUMMARY
- TABLE 6.** TOPOGRAPHIC MAP SUMMARY
- TABLE 7.** HISTORIC USE OF ADJOINING PROPERTIES
- TABLE 8.** INTERVIEWS

LIST OF ATTACHMENTS

- ATTACHMENT 1:** ALL APPROPRIATE INQUIRY (AAI) USER QUESTIONNAIRE
MONROE COUNTY HEALTH DEPARTMENT INFORMATION REQUEST
- ATTACHMENT 2:** SITE RECONNAISSANCE PHOTOGRAPHS
AERIAL PHOTOGRAPHS
TOPOGRAPHIC MAPS
- ATTACHMENT 3:** QUITCLAIM DEED
MONROE COUNTY GIS PARCEL REPORT CARD
- ATTACHMENT 4:** EDR RADIUS REPORT MAP™ WITH GEOCHECK®
QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL



1.0 EXECUTIVE SUMMARY

VET Environmental Engineering, LLC (VET) performed a Phase I Environmental Site Assessment (Phase I) on one parcel (53-08-18-300-001.000-009) of vacant agricultural land located at South State Road 37 and West Fullerton Pike, Bloomington, Monroe County, Indiana, 47403 (Subject Property). The Subject Property location is depicted on the area map (**Exhibit 1**) and an aerial photo with approximate Subject Property boundaries (**Exhibit 2**). The Phase I was performed for the Monroe County Board of Commissioners, the prospective buyer of the Subject Property, at the request of Mr. Jeff Cockerill. The Subject Property is owned by Bill C. Brown Revocable Trust. The Phase I is being conducted as a due diligence measure pursuant to purchase of the Subject Property.

Investigations and interviews with persons knowledgeable of the Subject Property revealed potential sources of environmental concern on the Subject Property. The Phase I identified the following Recognized Environmental Conditions (RECs) in connection with the Subject Property:

- VET observed evidence of grading and deposition of fill material on the Subject Property. The grading is reportedly a result of the construction of a road foundation that occurred around the year 2015. Additionally, topsoil was reportedly stripped from the Subject Property and sold around the year 2015. Although the grading and filling may be attributed to the construction of the road foundation or excavation of topsoil from the Subject Property, the origin and contents of the potential fill material on the northern Subject Property boundary is unknown and as such constitutes an REC.

The following non-scope considerations were identified during the Phase I:

- VET observed hydrophytic vegetation, likely jurisdictional streams, and potential karst features on the Subject Property. Based on the observed hydrophytic vegetation, mapped and observed karst features and streams, and erosional features, VET recommends a comprehensive wetlands and waters delineation prior to development of the Subject Property.

Based upon the results of the Phase I, further environmental investigation is warranted.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I is to evaluate the Subject Property for current and historic sources of environmental concern, evidence of hazardous substance disposal or release from or onto the Subject Property, evidence of environmental threats from adjoining properties, and whether further environmental testing of the Subject Property is warranted.

2.2 Detailed Scope of Services

VET performed the Phase I at the Subject Property in accordance with the *ASTM Standard Practice for Environmental Site Assessments: Phase I ESA Process (Designation: E1527-21)*. The ASTM Standard incorporates the Federal EPA regulation of all appropriate inquiry (AAI) site assessment. The scope of



work included a historical review of the Subject Property's ownership and operations, a walk-through inspection of the Subject Property, a walk-through or drive-through reconnaissance of adjoining properties, and a review of select agency records, databases, and interviews of appropriate contacts familiar with the Subject Property. A list of persons interviewed is included as **Attachment 1**.

The Phase I included a vapor encroachment screen (VES). The VES investigation generally adheres to the Tier 1 and Tier 2 Screening process as defined in the *ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (Designation: E2600-10)*. The VES is intended to evaluate the potential for vapors to migrate on, or close to the Subject Property from on-site or off-site contaminated groundwater or soil. Approximate minimum search distances utilized are 0.10-mile for petroleum sites and 0.33-mile for other volatile contaminants of concern (COC) sites. The minimum search distances are further utilized in cases where final closure status of potential historic sources of contaminants is unknown.

It is VET's professional judgment that the scope of this investigation was sufficient to determine if further investigation is warranted, given the nature and specific circumstances of the Subject Property. The opinions rendered herein are based upon VET's best professional efforts in determining the environmental status of the Subject Property and, as such, are not a guarantee. VET's professional efforts embody the highest standards for assessing potential adverse environmental conditions at the time of this investigation.

2.3 Significant Assumptions

VET conducted this Phase I with the goal of assessing environmental conditions pertaining to suitability for municipal land uses at the Subject Property. This investigation does not evaluate or address all conceivable environmental conditions.

2.4 Limitations and Exceptions

The Phase I was conducted using the highest standard of diligence, care, and skill that experienced professionals in the field relevant to the Phase I would use under similar circumstances, at the period the Phase I was performed. VET relied on the information provided to it except to the extent that VET had actual knowledge that certain information was incorrect based on other information obtained in performing the Phase I or otherwise actually known to the environmental professional. The environmental professional reviewed reasonably ascertainable information from standard sources. Reasonably ascertainable information is described as 1) publicly available, 2) obtainable from its source within reasonable time and costs constraints, and 3) practically reviewable (ASTM, 2021). VET makes no representation concerning the legal significance of its findings or the value of the Subject Property investigated.

Karst features including karst sinkhole areas and karst sinkholes were observed or reported on the Subject Property and southern and western adjoining properties (IndianaMap, 2022). The scope of the Phase I did not include an inventory, detailed mapping or the evaluation of engineering or other considerations associated with karst topography features. The scope of the Phase I did not include an assessment of potential subsidence issues on the Subject Property.

The scope of the Phase I included an abbreviated visual search for potential wetland areas on the Subject Property. No formal wetland determination or delineation was conducted. The scope of the Phase I ESA did not include an in-depth assessment of any water resource related issues including wetlands, jurisdictional waterways, or flood issues.



This report does not constitute legal advice, nor does VET purport to give legal advice. Certain information contained in this report may be provided by agencies and/or personal interviews. VET will make no representations or warranties that such information is accurate or that any independent investigation, beyond the agreed-upon scope of services, has been or will be made to verify the accuracy of such information.

2.5 User Reliance

User is defined as the party seeking to use Practice E1527 to complete an ESA of the Subject Property. This includes a potential purchaser, a potential tenant, a current owner, a lender, a property manager, and others without limitation. The user of this Phase I report is the Monroe County Board of Commissioners. No entity other than the Monroe County Board of Commissioners is entitled to rely upon any information or opinions contained in this report.

2.6 Location and Legal Description

The Subject Property is located at the northeast corner of the intersection of South State Road 37 and West Fullerton Pike in Perry Township, Bloomington, Monroe County, Indiana (**Exhibit 1**). The Subject Property location is depicted on the area map provided (**Exhibit 1**). An aerial photo with approximate parcel boundaries shows the layout of the Subject Property and associated process areas (**Exhibit 2**). Aerial photographic documentation is provided in **Attachment 2**. The Subject Property is comprised of one parcel of vacant agricultural land located and described as:

TABLE 1. Location and Legal Description		
Parcel #	Legal	Acres
53-08-18-300-001.000-009	015-02520-01 PT SW 18-8-1W 87.12 A; Plat 11	87.13

VET obtained a quitclaim deed that includes a legal description of the Subject Property to identify parcel information. VET obtained documentation of Conservancy and Karst Easements at the Subject Property, approximate locations of which are shown on **Exhibit 4**. The quitclaim deed and easement documentation are included as **Attachment 3**. Title Records for the Subject Property can be found in **Section 3.2** of this report. The Subject Property is owned by Bill C. Brown Revocable Trust.

2.7 Subject Property and Vicinity General Characteristics

The Subject Property is in the Mitchell Plateau physiographic region of Indiana (IndianaMap, 2022) at an approximate elevation of 821' above mean sea level (MSL) (EDR Radius Map Report, 2022). The presence of karst topography features (sinkholes, swallow holes, sinking streams, etc.) is documented within the Mitchell Plateau physiographic region (Gray, 2000, p.8). The Property is reportedly in an area where drainage is mostly through solution channels (Hartke and Gray, 1989, p.4). Bedrock is mapped as Mississippian Age, Blue River Group containing mostly micritic, skeletal, and oolitic limestone (IndianaMap, 2022). Bedrock is shallow in this area and expected to be less than 50 feet below ground surface (Fenelon and Bobay, 1994, p.142).

The ground surface of the Subject Property slopes radially outward from the middle-western portion of the Subject Property at an approximate surface elevation of 822' above MSL toward the northern, eastern, and western boundaries of the Subject Property at approximate surface elevations of 780', 740',



and 804' feet above MSL, respectively. A local high elevation of 824' above MSL exists on the northern Subject Property boundary west of the eastern tree line. The local high elevation is attributed to suspect stockpiling of fill dirt or stripped topsoil from the Subject Property. Surface water runoff flows as sheet flow toward perennial streams on the northern and eastern Subject Property boundaries and toward a drainage ditch on the western Subject Property boundary. Storm water discharges from the Subject Property as channelized flow via the observed ephemeral and mapped perennial streams to Clear Creek from the northern and eastern Subject Property boundaries, and to a north-south trending drainage ditch along South State Road 37 to the west of the Subject Property. Surface water runoff from the Subject Property Discharges to Clear Creek, which is within the East Fork of the White River Basin.

2.8 Desktop Reconnaissance

The Subject Property location is depicted on the area map provided using graphics obtained from the United States Geological Survey (USGS) The National Map Topo Indiana Bloomington 7.5' (**Exhibit 1**). The area map extends more than one-quarter mile beyond the Subject Property boundaries. Four water wells are located within one-quarter mile of the Subject Property, according to the Indiana Department of Natural Resources (IDNR) Water Well Survey. Additional information on **Exhibit 1** was obtained from the Indiana Census TIGER 2000 and IGS Counties and the 2014 National Agricultural Imagery Program (NAIP).

Parcel Map

An aerial photo with approximate parcel boundaries shows the layout of the Subject Property and associated process areas (**Exhibit 2**). Graphics included on **Exhibit 2** are from the Monroe County Geographic Information Systems (GIS) 2022 Elevate Imagery and the 2019 United States Geological Survey's (USGS) The National Map Viewer (TNM Topo).

Wetlands and Flood Zones

Wetland features were not identified by the National Wetlands Inventory (NWI). Flood zones were not identified on the Subject Property based on review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) (**Exhibit 2**). Potential wetland features were observed during site reconnaissance at the Subject Property. The potential wetland features are displayed on **Exhibit 4**.

Water Resources

Water body features were identified on the Subject Property based on review of the USGS National Hydrography Database (NHD) (**Exhibit 2**). Perennial streams are located on the northern, eastern, and western Subject Property boundaries.

Soils

Soils on the Subject Property are mapped as Bedford Silt Loam, 2-6% Slopes (40.5%), Crider Silt Loam, 6-12% Slopes (36.3%), Hagerstown Silt Loam, 12-18% Slopes (17.2%), and Caneyville Silt Loam, 12-18% Slopes (5.9%) (**Exhibit 3**). A review of the United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS) national list of hydric soils indicates that soils on the Subject Property are not included on the Hydric Soils List for Monroe County, Indiana (USDA, 2015).



Based on mapping resources, the drainage qualities of the soils on the Subject Property do not appear to present conditions favorable for wetland development. Soils information is from the USDA Web Soil Survey (WSS).

2.9 Current Use of the Subject Property

The Subject Property is currently vacant. Based on aerial photography, the Subject Property may have most recently been utilized as a staging area for equipment during the construction of Interstate 69.

2.10 Descriptions of Structures, Roads, and Other Improvements

There are no structures or roads on the Subject Property. Grading at the Subject Property that was evident during site reconnaissance and in historical aerial photographs is reported by the Subject Property owner to be the foundation of a roadway. See **Section 5.3** for additional discussion regarding improvements on the Subject Property.

Access to the Subject Property is provided by an unpaved access road via West Fullerton Pike. The Subject Property has electrical, water, and sanitary sewer service, according to Monroe County GIS records. The City of Bloomington Utilities Department (CBU) provides drinking water for the Subject Property and surrounding area. CBU obtains water from Monroe Reservoir, commonly known as Lake Monroe, located southeast of Bloomington. Water wells mapped within a quarter mile of the Subject Property may be associated with the adjacent quarry operations or private water supplies for residences. The Subject Property will be connected to the CBU public water supply. As such, groundwater is not expected to be utilized for drinking water at the Subject Property.

2.11 Current Uses of Adjoining Properties

The Phase I included a reconnaissance of the adjoining properties to identify any potential environmental problems that might adversely affect the Subject Property. Adjoining properties were visually inspected during walkovers from readily accessible public thoroughfares and the Subject Property. The Subject Property and adjoining properties are shown on **Exhibit 4**. Immediately adjoining properties are as follows:

TABLE 2. Current Uses of Adjoining Properties	
Direction	Description
North	Vacant wooded land located on an agricultural parcel, owned by Busted Block, LLC, adjoins the Subject Property to the north. Vacant land and an apparent quarry pond are located on an industrial parcel, owned by Duncan C. Campbell and Cathrine A. Spiaggia, adjoining the northeastern Subject Property boundary.
East	A limestone quarry operation adjoins the Subject Property to the east. The quarry operation exists on two industrial parcels owned by Professional Golfcar Corp. to the northeast of the Subject Property, and C&H Stone Company, Inc., to the east of the Subject Property.
South	An easement and West Fullerton Pike adjoin the Subject Property to the south. To the south of West Fullerton Pike lie residential parcels. To the southwest of the intersection of West Fullerton Pike and South State Road 37 lies a medical facility known as Monroe Medical Park.
West	State Road 37, also known as Interstate 69, adjoins the Subject Property to the west. To the west of State Road 37 lie residential parcels located along West Woodcreek Court, West Woodhaven Drive, and South Judd Avenue.



3.0 USER PROVIDED INFORMATION

3.1 User Questionnaire

Mr. Richard Crider, Facilities and Fleet Manager for the Monroe County Board of Commissioners was provided a User Questionnaire (Questionnaire) concerning the Subject Property. The Questionnaire is included in **Attachment 1**. Information from the Questionnaire is summarized in this report.

3.2 Title Records

A title search as outlined in the ASTM standard was conducted. Title information is utilized to help determine historic land use and to give guidance in locating persons knowledgeable about the Subject Property. Transfer records were examined, and the title was reviewed for a period of approximately 78 years for the Subject Property. Personnel within the Monroe County Recorder’s Office identified a quitclaim deed dated April 14, 2008 that includes statements regarding the transfer of title of the Subject Property.

City and county directories for the Subject Property were examined at the Monroe County Public Library. City directories from 1950 until 2020 were examined at a minimum of five-year intervals. Title records for Perry Township were searched to 1883. The available title records and city directory information is as follows:

TABLE 3. Title Records & City Directory Listings		
Chain of Title		
Parcel 53-08-18-300-001.000-009		
Transfer Date	Sold By	Sold To
4/14/2008	Bill C. Brown and Patricia C. Brown	Bill C. Brown Revocable Trust
4/9/1998	Professional Golfcar Corporation	Bill C. Brown and Patricia C. Brown
Unknown	Unknown	Professional Golfcar Corporation
5/25/1978	Bloomington Limestone Corporation	Public Service Company of Indiana (Easement)
Unknown	Unknown	Bloomington Limestone Corporation
1/5/1910	Mary & Jas Binkley	Mary Brodix
4/23/1904	John E. Borland	Mary A. Binkley
4/15/1892	Ezra Perring Jr. and Wife	John E. Borland
City Directory Listings:		
Year(s)	Listing: South State Road 37 (2000-4000 block West Fullerton Pike) (Subject Property)	
2020	Not Listed	
2016	Not Listed	
2011	Not Listed	
2007	Not Listed	
2002	Not Listed	
1997	Not Listed	
1993	Not Listed	
1988	Not Listed	
1984	Not Listed	
1981	Not Listed	
1975	Not Listed	
1970	Not Listed	
1965	Not Listed	
1960	Not Listed	
1955	Not Listed	



1950	Not Listed
Year(s)	Listing: 2300 West Tapp Road (Northern Adjacent Parcel)
2020	Duncan C. Campbell
2016	Duncan C. Campbell
2011	Not Listed
2007	Duncan Campbell and Preservation Development, Inc.
2002	Duncan C. Campbell and Catherine A. Spiaggia
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 3996 South Rockport Road (Eastern Adjacent Parcel)
2020	Not Listed
2016	Not Listed
2011	Not Listed
2007	Not Listed
2002	Not Listed
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 2370 West Fullerton Pike (Eastern Adjacent Parcel)
2020	Not Listed
2016	Professional Golfcar Corporation
2011	Professional Golfcar Corporation
2007	Not Listed
2002	Not Listed
1997	Not Listed
1993	Not Listed
1988	Professional Golfcar Corporation
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed



Year(s)	Listing: 4000 South Rockport Road (Eastern Adjacent Parcel)
2020	C & H Stone Co.
2016	C & H Stone Co.
2011	C & H Stone Co.
2007	C & H Stone Co.
2002	C & H Stone Co.
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 2201 West Fullerton Pike (Southern Adjacent Parcel)
2020	Not Listed
2016	Not Listed
2011	Not Listed
2007	Harold Fuller
2002	Harold Fuller
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 4011 South Medical Park Drive (Southern Adjacent Parcel)
2020	Not Listed
2016	Not Listed
2011	Not Listed
2007	Not Listed
2002	Not Listed
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 3731-3695 S. Judd Avenue (Western Adjacent Parcels)



2020	Various residential ownership
2016	Various residential ownership
2011	Various residential ownership
2007	Various residential ownership
2002	Various residential ownership
1997	Various residential ownership
1993	Various residential ownership
1988	Various residential ownership
1984	Various residential ownership
1981	Various residential ownership
1975	Various residential ownership
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 3200-3310 West Woodhaven Drive (Western Adjacent Parcels)
2020	Various residential ownership
2016	Various residential ownership
2011	Various residential ownership
2007	Various residential ownership
2002	Various residential ownership
1997	Various residential ownership
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed
Year(s)	Listing: 3306, 3305, 3301 S. Woodhaven Court (Western Adjacent Property)
2020	Various residential ownership
2016	Various residential ownership
2011	Various residential ownership
2007	Various residential ownership
2002	Various residential ownership
1997	Not Listed
1993	Not Listed
1988	Not Listed
1984	Not Listed
1981	Not Listed
1975	Not Listed
1970	Not Listed
1965	Not Listed
1960	Not Listed
1955	Not Listed
1950	Not Listed



VET and personnel within the Monroe County Recorder's Office were not able to locate title records prior to the above-referenced dates. The title records from 1978, 1910, 1904, and 1892 were for parcels with legal descriptions resembling that of the Subject Property, however these title records contain quarter indexes that are not included in the current legal description of the Subject Property. All information pertaining to the transfer of title for the Subject Property recorded in the tables above was obtained from the Monroe County Recorder's Office. Evaluation of Subject Property and adjacent parcel ownership prior to 1892 was not possible.

3.3 Environmental Liens or Activity and Use Limitations

Environmental liens or activity and use limitations (AULs) were not observed during the title search or reported in interviews. VET's search for environmental liens did not include any liens that may not be recorded.

3.4 Specialized Knowledge

The User did not report any specialized knowledge of the Subject Property.

3.5 Commonly Known or Reasonably Ascertainable Information

The User reported commonly known or reasonably ascertainable information beyond the information presented in this report. The User is aware of conservancy and karst easements at the Subject Property as well as a previous Phase I ESA conducted at the Subject Property. The User provided VET with documentation of the Conservancy and Karst Easements at the Subject Property, the approximate locations of which are displayed on **Exhibit 4**. The User also provided VET with the Phase I ESA that was previously conducted at the Subject Property dated February 25, 1997.

The 1997 Phase I ESA indicates that Bill C. Brown acquired the Subject Property on April 4, 1990 from the Professional Golfcar Corporation, that the Professional Golfcar Corporation acquired the Subject Property from Bloomington Limestone Company on December 22, 1986, and that Bloomington Limestone Company owned the Subject Property from 1927 to 1986. The Phase I ESA concluded that trash in a drainageway and photographic evidence of dumping north of a barn formerly located on the southern Subject Property boundary constituted an REC. The Phase I also identified a partly water-filled cistern beneath the garage of the barn as an REC.

The Phase II investigation included sampling of the stream bed sediment where trash and suspected dumping was identified, as well as water sampling from the water-filled cistern. Sediment samples were analyzed for metals, pesticides, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). The water sample was analyzed for metals, pesticides, PCBs, TPH, and VOCs. Analytical results from the collected samples exhibited no detections of pesticides, PCBs, or VOCs. Analytical results from the sediment samples exhibited detections of TPH and metals below the applicable regulatory screening levels. No additional environmental work was recommended based on the results of the Phase II investigation. VET has no other commonly known or reasonably ascertainable information beyond the information presented in this report.

3.6 Valuation Reduction for Environmental Issues

Mr. Richard Crider did not report a valuation reduction for environmental issues on the Questionnaire. The Questionnaire is included in **Attachment 1**.



3.7 Owner, Manager, and Occupant Information

The Subject Property is owned and managed by Bill C. Brown Revocable Trust. See **Section 6.0** for a summary of the interview with the owner of the Subject Property.

3.8 Reason for Performing Phase I

The Monroe County Board of Commissioners commissioned this Phase I ESA as part of a due diligence investigation pursuant to purchase of the Subject Property.

4.0 RECORD REVIEW

4.1 EDR Record Review

Databases maintained by various state and federal agencies were reviewed. This included a review of agency database information compiled by Environmental Data Resources, Inc. (EDR), an information search firm that utilizes computer search techniques to query governmental agency database information for a specified geocoded area. An EDR Radius Report Map™ with GeoCheck® report dated July 28, 2022 included sites of interest that were erroneously mapped within the target search distances of 0.1 miles for petroleum products, 0.33 miles for COCs, and 0.5 miles for leaking underground storage tanks (LUST). VET determined that the correct addresses for the sites of interest are outside the respective search distances, and subsequently requested a revised EDR Report.

The revised EDR Report, dated August 10, 2022 was used to review agency records for sites geocoded within an approximate minimum search distance of the Subject Property. Abbreviations and acronyms utilized in this section are defined in the EDR report (**Attachment 4**). The EDR did not include the Subject Property as a site of interest. Descriptions of the EDR Report included the following responses:

Site	Address	Database	Distance / Direction	Relative Elev.
Indiana Quarries & Carvers, LLC	None Reported	US MINES	0.205 mi. ESE	Lower (722 ft.)
C&H Stone Co. Inc.	4000 Rockport Road	US MINES	0.239 mi. ESE	Lower (722 ft.)

Indiana Quarries & Carvers, LLC (IQC Site) and C&H Stone Co., Inc. (C&H Site) identified within the 0.33 mile search distance for COCs. The IQC Site and C&H Site are both likely located at the parcel currently owned by C&H Stone Company, Inc. Indiana Quarries & Carvers are listed as the operator for the quarry located at the C&H Site.

The Tier 2 identified the C&H Site has documented violations ranging from improper parking of equipment, failure to examine working places, failure to examine and correct safety defects, failure to install operating controls, failure to meet brake requirements for equipment, failure to meet requirements for electrical conductors, failure to meet berm or guardrail requirements for mobile equipment, failure to meet horn and backup alarm requirements for equipment, exceedances of permissible exposure levels for workers exposed to noise. None of the violations associated with the C&H Site are expected to have adverse environmental impacts on the Subject Property. Additionally, the C&H Site is located downgradient from



the Subject Property. Based on the Tier 2 VES, the above-referenced sites are not VECs based on review of the United States Mine database documentation and proximity of the sites to the Subject Property.

4.2 Leaking Underground Storage Tank (LUST) and Underground Storage Tank (UST) Sites

The EDR did not include responses for LUST and UST sites within the EDR defined 0.500-mile search distance from the Subject Property.

4.3 Vapor Encroachment Screen (VES) for Petroleum Sites

The EDR did not include responses for petroleum sites within the target search distance of 0.1 miles.

4.4 Vapor Encroachment Screen (VES) for Contaminants of Concern (COC) Sites

The EDR did not include responses for COC sites within the target search distance of 0.33 miles.

4.5 Physical Setting Sources

Aerial photographs were reviewed in conjunction with other sources to provide understanding of specific land uses observed on the Subject Property and adjoining parcels. Copies of select historic aerial photographs are included in **Attachment 2**.

TABLE 5. Aerial Photograph Summary		
Year	Quality	Description
1939	Fair	The Subject Property appears to be developed for agricultural purposes. The northern and eastern Subject Property boundaries and a portion of the western Subject Property boundary appear densely vegetated. No structures appear on the Subject Property. The northern adjacent parcel appears densely vegetated. To the northeast of the Subject Property in the northeastern corner of the photograph, there is a body of water likely associated with the quarry operations evident in subsequent photographs. The eastern adjacent parcel appears densely vegetated. West Fullerton Pike is visible to the south of the Subject Property. The parcels south of West Fullerton Pike appear to be developed for agricultural purposes, with one or two potential agricultural or residential structures. The western adjacent parcels appear to be developed for agricultural purposes. Numerous small depressions on the ground surface are visible to the west of the Subject Property, indicative of a dense karst area.
1946	Poor	The Subject Property appears relatively unchanged. The northern and northeastern adjacent parcels appear relatively unchanged. The eastern adjacent parcel appears to be developed for the quarry operations evident in subsequent photographs. West Fullerton Pike, the southern adjacent parcels, and the western adjacent parcels appear relatively unchanged. Pixelation in the photograph obscures a full visualization of the Subject Property and surrounding parcels.
1972	Good	The western portion of the Subject Property appears to be developed for agricultural purposes, with a small water body in the center of the agricultural field. The eastern portion of the Subject Property appears densely vegetated. A small structure is visible on the southwestern corner of the Subject Property. Quarry operations expanded to the northeast and east of the Subject Property and appear to be active. Stream features are evident on the northern Subject Property boundary flowing to the northwest. Additional residential structures appear along West Fullerton Pike to the south of the Subject Property. Bodies of water appear on the western Subject Property boundary as well as evidence of a path to the west of the Subject Property. A residential development is evident to the west of the Subject Property and the path.



1975	Good	The Subject Property appears relatively unchanged. State Road 37 is constructed immediately west of the Subject Property. The remainder of the northern, eastern, southern, and western adjacent parcels appears relatively unchanged, with the exception of expanded residential developments to the northwest of the Subject Property.
1999	Good	The structure on the southwestern corner of the Subject Property is no longer apparent. The body of water in the center of the cultivated field on the Subject Property is no longer apparent. The quarry operations to the northeast of the Subject Property appear to have diminished in size, while quarry operations to the east of the Subject Property appear larger than in previous photographs. The southern adjacent parcels appear relatively unchanged. Commercial development is evident along the southwestern boundary of the Subject Property, across State Road 37. The residential developments to the west and northwest of the Subject Property have increased in size.
2003	Good	The Subject Property and adjoining parcels appear relatively unchanged, with the exception of apparent expansion of the quarry operations to the east of the Subject Property.
2005	Excellent	The Subject Property appears relatively unchanged, with the exception of an apparent stream feature on the southeastern corner of Subject Property that was undiscernible in previous photographs. The stream feature appears to flow toward the quarry operation to the east. The commercial development to the west of the Subject Property appears to have large storage containers or tanks located near the intersection of West Fullerton Pike and State Road 37. Land disturbance associated with a large commercial development is evident to the southwest of the Subject Property.
2010	Excellent	The Subject Property exhibits evidence of a potential berm from the entrance of the Subject Property on the southern boundary extending to the eastern tree line. The possible storage containers or tanks at the intersection of West Fullerton Pike and State Road 37 are no longer apparent. One quarry pit on the eastern adjacent parcel appears larger than in previous photographs. The large commercial development to the southwest of the Subject Property appears to be active.
2015	Excellent	The cultivated portion of the Subject Property appears distinctly different in color from the surrounding wooded area, possibly indicative of recently cut hay. The large quarry pit on the eastern adjacent parcel exhibits signs of potential filling and is therefore reduced in size from previous photographs.
2016	Excellent	Land disturbing activities are apparent on the Subject Property, along West Fullerton Pike to the south of the Subject Property, and in the former commercial development west of the Subject Property at the intersection of West Fullerton Pike and State Road 37. The land disturbance is consistent with grading for road expansion or development. On the southern portion of the Subject Property, there appears to be a materials storage pile, although pixelation in the photograph obscures a full visualization of the items present. The land disturbance on the Subject Property indicates that the topsoil has been harvested in the south-central portion of the Subject Property. The remainder of the adjoining parcels appear relatively unchanged.
2019	Excellent	The Subject Property exhibits signs of paths and land disturbance extending from West Fullerton Pike on the southern Subject Property boundary to the northwestern Subject Property boundary. The paths on the Subject Property are consistent with tracks from heavy equipment, possibly associated with road development. A fill pile on the northern Subject Property boundary is apparent, immediately west of the eastern tree line. Two new interchanges are present at the intersection of West Fullerton Pike and State Road 37. The quarry operations to the east of the Subject Property appear to have expanded. The remainder of the adjoining parcels appears relatively unchanged.
2020	Excellent	Signs of vegetative overgrowth appear on the paths on the Subject Property. A water body appears in the center of the Subject Property. Stressed vegetation is apparent surrounding the paths and the water body. The quarry operations to the east of the Subject Property appear to have expanded. The remainder of the adjoining parcels appears relatively unchanged.



2022	Excellent	Evidence of the paths is still apparent on the Subject Property, although they are less distinct than in previous photographs, possibly due to seasonal variations in vegetative cover. The water body apparent in the 2020 photograph is no longer evident. The remainder of the Subject Property and adjoining parcels appear relatively unchanged.
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Historical Topographic Maps were reviewed in conjunction with other sources to provide understanding of the elevation throughout time on the Subject Property and adjoining parcels. Copies of select historic topographic maps are included in **Attachment 2**.

Table 6. Topographic Map Summary	
Year	Description
1910	Surface elevation of the majority of the Subject Property appears to be at 800' above MSL, with a smaller area of higher elevation at the western Subject Property boundary. West Fullerton Pike is visible to the south of the Subject Property, with additional roads to the north, west, and east of the Subject Property. Intermittent streams are mapped to the north and east of the Subject Property flowing toward a northwest-southeast trending perennial stream. Depression contours indicative of a dense karst area are evident to the west of the Subject Property and extending to the western edge of the Topographic Map.
1965	The Topographic Map contains information for the southern third of the Subject Property only. The contours on the Subject Property appear consistent with those in the 1910 Topographic Map. A small water body is located on the southern third of the Subject Property, at the northwesternmost extent of the Topographic Map. Woods and brushwood are evident on the southeastern Subject Property boundary, to the southeast of the Subject Property, and to the southwest of the Subject Property. A dual highway, State Road 37, is constructed to the west of the Subject Property. Residential developments are evident to the southeast, south, and west of the Subject Property.
1966	The Topographic Map contains information for the northern two thirds of the Subject Property only. The contours on the Subject Property appear consistent with those in the 1910 Topographic Map. Woods and brushwood are evident on the eastern Subject Property boundary and to the north, east, and west of the Subject Property. The dual highway evident in the 1965 Topographic Map is no longer visible. Quarry operations are mapped to the east and northeast of the Subject Property. A residential development is mapped to the west of the Subject Property and labelled "Garden Acres."
1986	The Topographic Map does not display contours. Woods and brushwood are evident on the eastern Subject Property and to the north, east, southeast, and southwest of the Subject Property. Quarries are mapped to the east and northeast of the Subject Property. A primary road, State Road 37, is mapped along the western Subject Property boundary. Additional residential developments are apparent to the northeast of the Subject Property.
1998	The Topographic Map contains information for the northern two thirds of the Subject Property only. The vegetation and contours on the Subject Property appear consistent with those in the 1966 Topographic Map. Intricate surface area is mapped to the east and northeast of the Subject Property in the location of the quarry operations. The residential developments to the west of the Subject Property are mapped as urban area.
1999	The Topographic Map contains information for the southern third of the Subject Property only. The vegetation, water feature, and contours on the Subject Property appear consistent with those in the 1965 Topographic Map. The remainder of the Topographic Map is relatively unchanged from previous Topographic Maps.
2010	The Topographic Map does not display contours, vegetation, or the quarry operations mapped in previous Topographic Maps. The water body on the southwestern boundary of the Subject Property is still apparent. Water bodies likely associated with the quarry operations are mapped to the east and northeast of the Subject Property.
2013	The Topographic Map and surrounding developed areas appear relatively unchanged.
2016	The Topographic Map displays contours consistent with those mapped in the previous Topographic Maps. The water body on the southwestern boundary of the Subject Property is no longer visible. Marsh or swamp features are mapped to the east and northeast of the Subject Property.



2019	The Topographic map and surrounding developed areas appear relatively unchanged.
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4.7 Historic Use of the Subject Property

See **Section 3.2** for documentation of City Directory listings for the Subject Property. Sanborn Map Coverage was not available for the Property.

4.8 Historic Use of Adjoining Properties

TABLE 7. Historic Use of Adjoining Properties	
Direction	Description
North	A quarry operated to the northeast of the Subject Property since at least 1946, and ceased active operations between 1975 and 1999. The northeastern adjacent parcel was owned by Duncan C. Campbell and Catherine A. Spiaggia since at least 2000. The northern adjacent parcel was vacant since at least 1939.
East	The eastern adjacent parcel is a quarry that has operated and continually expanded since at least 1946.
South	West Fullerton Pike adjoins the Subject Property to the south. The parcel directly south of the Subject Property was used for agricultural purposes or was vacant until development in 2016 into an interchange between West Fullerton Pike and Interstate 69. The southwest adjacent parcel is a single-family residential dwelling that has had various ownership and residency since approximately 1975.
West	The western-adjacent parcels have been utilized for residential purposes, with various ownership and residency since 1971.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, Ms. Rene Lloyd, MS, MPA, and Ms. Emily Throop conducted a site visit and site reconnaissance on August 2, 2022. VET looked for indications of environmental conditions on the Subject Property and adjoining properties. Photographs taken during VET’s site reconnaissance are included in **Attachment 2**.

5.2 Exterior Observations

The Phase I included a walkthrough inspection of the Subject Property and adjoining areas to identify indications of problematic environmental conditions. This phase of the investigation included a search for stressed vegetation, or other signs of environmental concern or land use that would pose a threat to the Subject Property. VET’s investigation was not restricted by weather conditions.

The Subject Property is located at the northeastern corner of the intersection between West Fullerton Pike and Interstate 69. Access to the Subject Property is provided by the northernmost roundabout exit on the roundabout east of Interstate 69 on West Fullerton Pike. The western half of the Subject Property is cleared and exhibited evidence of grading. VET observed a small pile of potential fill and sparse vegetation at the northwestern Subject Property corner. VET observed a large pile of potential fill material on the northern Subject Property boundary immediately west of the northeastern tree line. VET observed a man-made berm on the eastern Subject Property boundary with evidence of deteriorated silt fencing. Significant grade changes were observed near the southeastern tree line and on the southern portion of the Subject Property near the aforementioned roundabout. Interviews with the Subject Property owner revealed that the grading throughout the Subject Property was due to the construction of a roadway foundation and excavation of topsoil for sale. Although the Subject Property owner stated that no outside fill material was



used for the construction of the road foundation, the origin of the potential fill material on the northern Subject Property boundary is unknown. The uncertainty regarding the origin and nature of the potential fill material constitutes an REC.

Erosion control features including rock check dams were observed at the headwaters of the mapped streams on the Subject Property on the northwestern Subject Property boundary, the northeastern tree line, and the southern forested draw. VET observed hydrophytic vegetation throughout the western half of the Subject Property and along the eastern tree line of the Subject Property. Hydrophytic vegetation may be indicative of poorly drained soils or potential wetland features. VET observed an erosional gully west of the southern forested portion of the Subject Property. The eastern portion of the Subject Property is forested. VET observed likely jurisdictional streams in the eastern forested portion of the Subject Property that also exhibited signs of potential karst features. VET did not observe signs or conditions of environmental concerns in the forested area of the Subject Property.

One REC was observed on the exterior of the Subject Property. The uncertainty regarding the origin and nature of the potential fill material constitutes an REC. Signs of conditions that may indicate environmental impacts were observed.

5.3 Interior Observations

There are no structures or buildings on the Subject Property, therefore VET did not document interior observations.

6.0 INTERVIEWS

TABLE 8. Interviews		
Name	Description	Contact Number
Mr. Bill Brown	Owner	(812) 327-3868
Mr. Bill Brown is the owner of the Subject Property. Mr. Brown has been familiar with the Subject Property since 1984. VET interviewed Mr. Brown on August 3, 2022. According to Mr. Brown, the Subject Property was used for agricultural purposes historically. A barn and a residential structure were located on the Subject Property when he purchased it, but they were demolished in the early 1990s. Mr. Brown stated that no development occurred on the Subject Property until approximately 2015. Developments included laying the foundation for a road and excavation of topsoil for sale. Mr. Brown stated that the pile of potential fill dirt on the northeastern Subject Property boundary is likely a stockpile of topsoil originating from the Site that was not sold. Mr. Brown is aware of a Phase I ESA and Phase II investigation that were conducted in 1994 pursuant to a prospective purchase of the Subject Property. Mr. Brown is not certain whether RECs were discovered during the 1994 Phase I, but he stated that if there were any environmental concerns, they were handled during the Phase II investigation. Mr. Brown is not aware of any other past or present conditions at the Subject Property that may present adverse environmental impacts.		
Ms. Melissa Clark	Chief Financial Officer for Bill Brown	(812) 327-3868
Ms. Melissa Clark is the Chief Financial Officer for Bill Brown, the owner of the Subject Property. Ms. Clark has been familiar with the Subject Property since 1995. VET interviewed Ms. Clark on August 3, 2022. Ms. Clark stated that the Subject Property was developed around the time of the Interstate 69 expansion to include construction of a foundation for a road and clearing of topsoil for sale. Ms. Clark stated that no fill dirt was used to construct the road foundation. The grading was conducted with the soil existing on-site, according to Ms. Clark. Ms. Clark stated that a Phase I ESA and Phase II investigation were conducted in 1994 pursuant to a prospective purchase of the Subject Property. Ms. Clark provided VET with the Phase I ESA and Phase II reports on August 3, 2022. See Section 3.5 for discussion of the Phase I ESA and Phase II reports. Ms. Clark is not aware of any other past or present conditions at the Subject Property that may present adverse environmental impacts.		
Mr. Richard Crider	Facilities and Fleet Manager, Monroe County Board of Commissioners	(812) 803-6331



<p>Mr. Richard Crider is the Facilities and Fleet Manager for the Monroe County Board of Commissioners. Mr. Crider has been familiar with the Subject Property for approximately two months. VET interviewed Mr. Crider on August 8, 2022. Mr. Crider stated that he has not visited the Subject Property, but he is aware that there is a potential fill pile on the Subject Property that may warrant investigation. Mr. Crider is not aware of any present or historic commercial or industrial processes or other environmental concerns that would impact the Subject Property adversely.</p>		
Ms. Ashley Bergquist	Environmental Health Services Manager	(812) 803-6362
<p>VET submitted an information request to the Monroe County Health Department (MCHD) regarding the Subject Property on July 28, 2022. The MCHD provided information related to a spill incident in the IDEM Spill Reports Database (Incident Number 55941 on July 7, 2015). MCHD did not have documentation with details about the incident and directed VET to contact IDEM for more information. No other environmental records or complaints were located for the Subject Property pursuant to the information request. The information request email is included in Attachment 1.</p>		
Mr. Scott Frosch	Emergency Response On-Scene Coordinator	(317) 233-7745
<p>VET examined the IDEM Spill Database and located spill Incident Number 55941 from July 7, 2015. The incident source is classified as storm water construction and occurred at the Interstate 69 Project at Fullerton Pike and Indiana 37 South. The status of the incident is that it is currently “Assigned to Staff.” VET called the IDEM 24-Hour Emergency Spill Line on August 2, 2022 to inquire about the status of the spill incident. Mr. Scott Frosch of the IDEM Emergency Response Section returned VET’s call on August 2, 2022. Mr. Frosch stated that he located the Incident Number and explained that a caller inquired about the material stockpile at the Subject Property during the Interstate 69 expansion project. Mr. Frosch stated that an IDEM Storm Water Inspector visited the Subject Property subject to the call and confirmed the presence of material stockpiles. The inspector informed the responsible party that measures should be taken to prevent sediment runoff into nearby streams. The complaint was closed subsequent to the IDEM inspection. Mr. Frosch stated that no further action is necessary regarding Incident Number 55941.</p>		

7.0 FINDINGS/OPINION

Investigations and interviews with persons knowledgeable of the Property revealed potential sources of environmental concern on the Property. The Phase I identified the following Recognized RECs in connection with the Subject Property:

- VET observed evidence of grading and deposition of fill material on the Subject Property. The grading is reportedly a result of the construction of a road foundation that occurred around the year 2015. Additionally, topsoil was reportedly stripped from the Subject Property and sold around the year 2015. Although the grading and filling may be attributed to the construction of the road foundation or excavation of topsoil from the Subject Property, the origin and contents of the potential fill material on the northern Subject Property boundary is unknown and as such constitutes an REC.

The following non-scope considerations were identified during the Phase I:

- VET observed hydrophytic vegetation, likely jurisdictional streams, and potential karst features on the Subject Property. Based on the observed hydrophytic vegetation, mapped and observed karst features and streams, and erosional features, VET recommends a comprehensive wetlands and waters delineation prior to development of the Subject Property.



It is VET's professional opinion that environmental conditions exist that could pose a threat to the Subject Property and further investigation is warranted.

8.0 CONCLUSIONS

VET performed this Phase I in conformance with the scope and limitations of ASTM Practice E1527-21. Any exceptions to, or deletions from this practice are described in specific sections within this report. Qualifications of the environmental professional(s) that prepared and reviewed this Phase I are included as **Attachment 4**. Based upon the results of this Phase I further environmental investigation is warranted.

9.0 DEVIATIONS

No deviations were encountered during the completion of the Phase I.

10.0 ADDITIONAL SERVICES

No additional services beyond the stated scope of the Phase I were conducted.

11.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR § 312 and I have the specific education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

VET appreciates the opportunity to provide this Phase I ESA for the Monroe County Board of Commissioners. Please do not hesitate to contact VET at (812) 822-0400 if you have questions or concerns.

Respectfully submitted,



Sara Hamidovic, MS, PE, CHMM
Principal Engineer



REFERENCES

- ASTM. (2021). *Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E1527-21). West Conshohocken, PA: American Society for Testing Materials.
- ASTM. (2013). *Vapor Encroachment Screening on Property Involved in Real Estate Transactions* (E2600-10). West Conshohocken, PA: American Society for Testing Materials.
- Fenelon, J.M., Bobay, K.E., Greeman, T.K., Hoover, M.E., Cohen, D.A., Fowler, K.K., Woodfield, M.C., and Durbin, J.M. (1994). *Hydrogeologic Atlas of Aquifers in Indiana* (1st ed.), Indianapolis, IN: United States Geological Survey.
- Gray, H. Henry. (2000). *Physiographic Divisions of Indiana*, Bloomington, IN: Indiana Geological Survey
- Hartke, E.J. and Gray, H.H. (1989). *Geology for Environmental Planning in Monroe County, Indiana*, Bloomington, IN: Indiana Department of Natural Resources, Geological Survey.
- Indiana Department of Environmental Management (2022). *Virtual File Cabinet*. Retrieved August 1, 2022, from <https://vfc.idem.in.gov/DocumentSearch.aspx>
- Indiana MAP. (2022). *Indiana MAP*. Retrieved August 1, 2022, from <https://maps.indiana.edu>
- Natural Resources Conservation Service. (2019). *State Soil Data Access (SDA) Hydric Soils List*. Retrieved July 28, 2022, from <https://nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric>
- Natural Resource Conservation Service. (2019). *Web Soil Survey*. Retrieved July 28, 2022, from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- Thirty Nine Degrees North (2022). *Monroe County GIS*. Retrieved July 28, 2022, from <https://monroein.elevatemaps.io/>
- United States Geological Survey (USGS), Bloomington & Clear Creek 7.5', IND, 1:1,250' Topographic Map, 2019

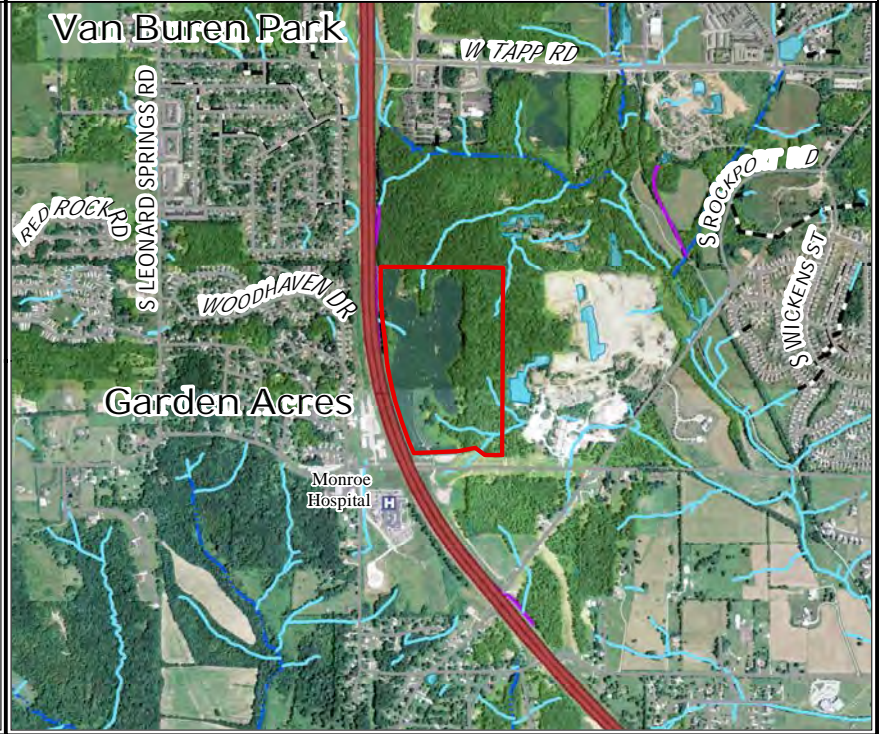


EXHIBITS

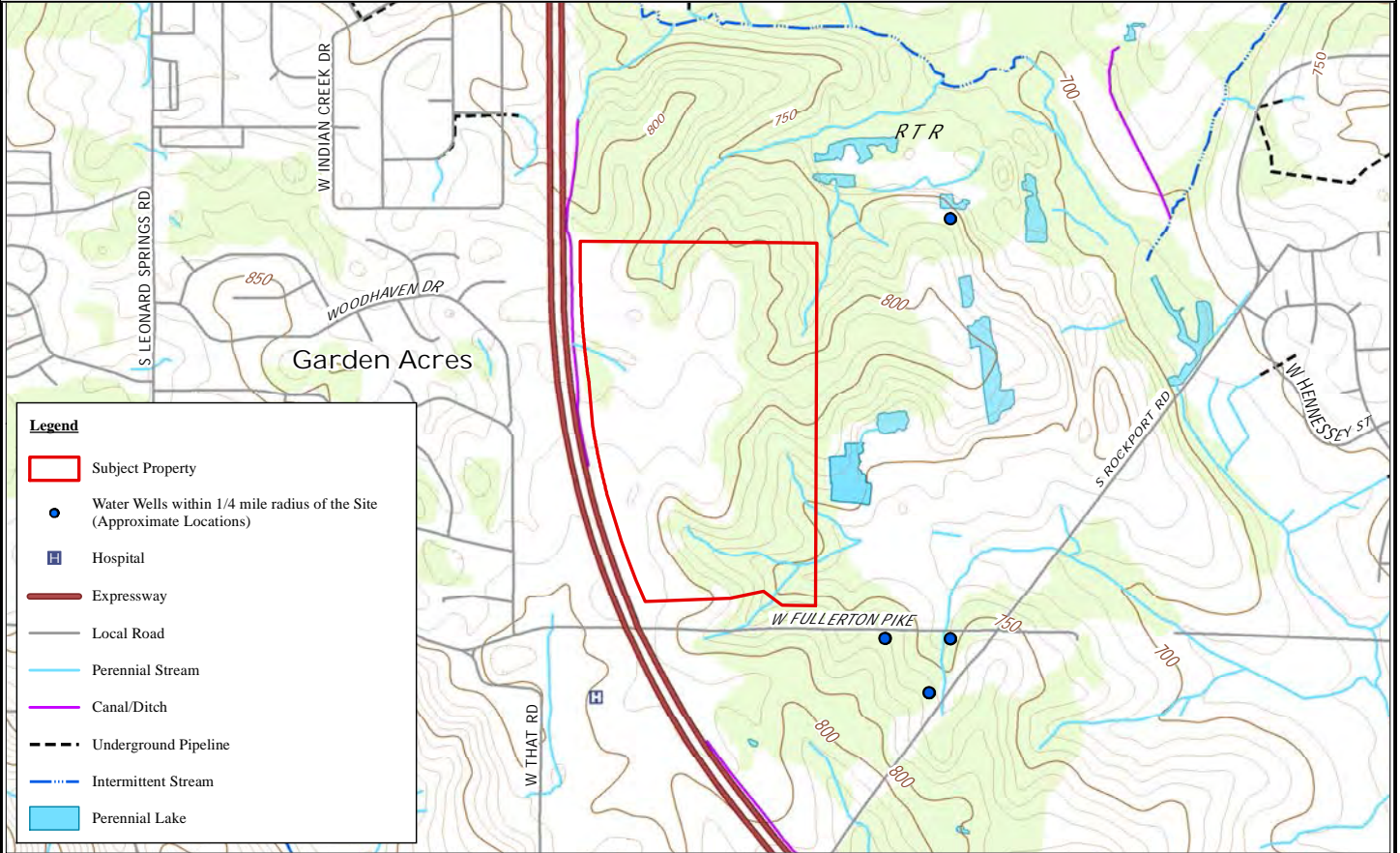
State Map



Vicinity Map



Site Map



Legend

- Subject Property
- Water Wells within 1/4 mile radius of the Site (Approximate Locations)
- Hospital
- Expressway
- Local Road
- Perennial Stream
- Canal/Ditch
- Underground Pipeline
- Intermittent Stream
- Perennial Lake

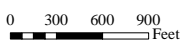


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1" = 1,250'

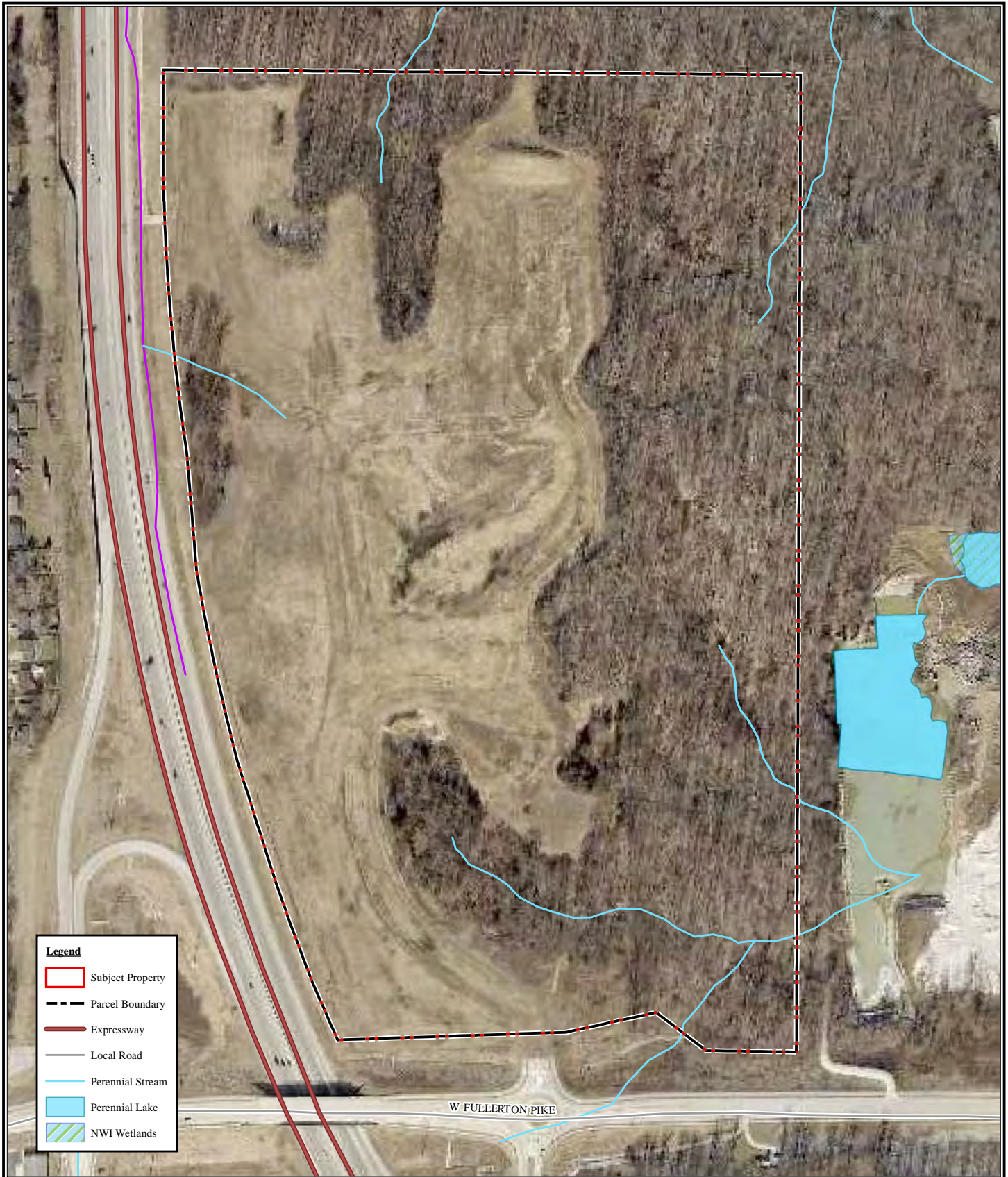


Project: Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 1	Drawn By: EMT
Notes: Water wells shown: 4 in 1/4 mile radius of Subject Property	

Title: Area Map

Location: South of State Road 37,
North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

Data Sources: Indiana Census TIGER 2000 and IGS Counties, 2014 NAIP Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Legend

- Subject Property
- Parcel Boundary
- Expressway
- Local Road
- Perennial Stream
- Perennial Lake
- NWI Wetlands

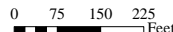


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1" = 333'

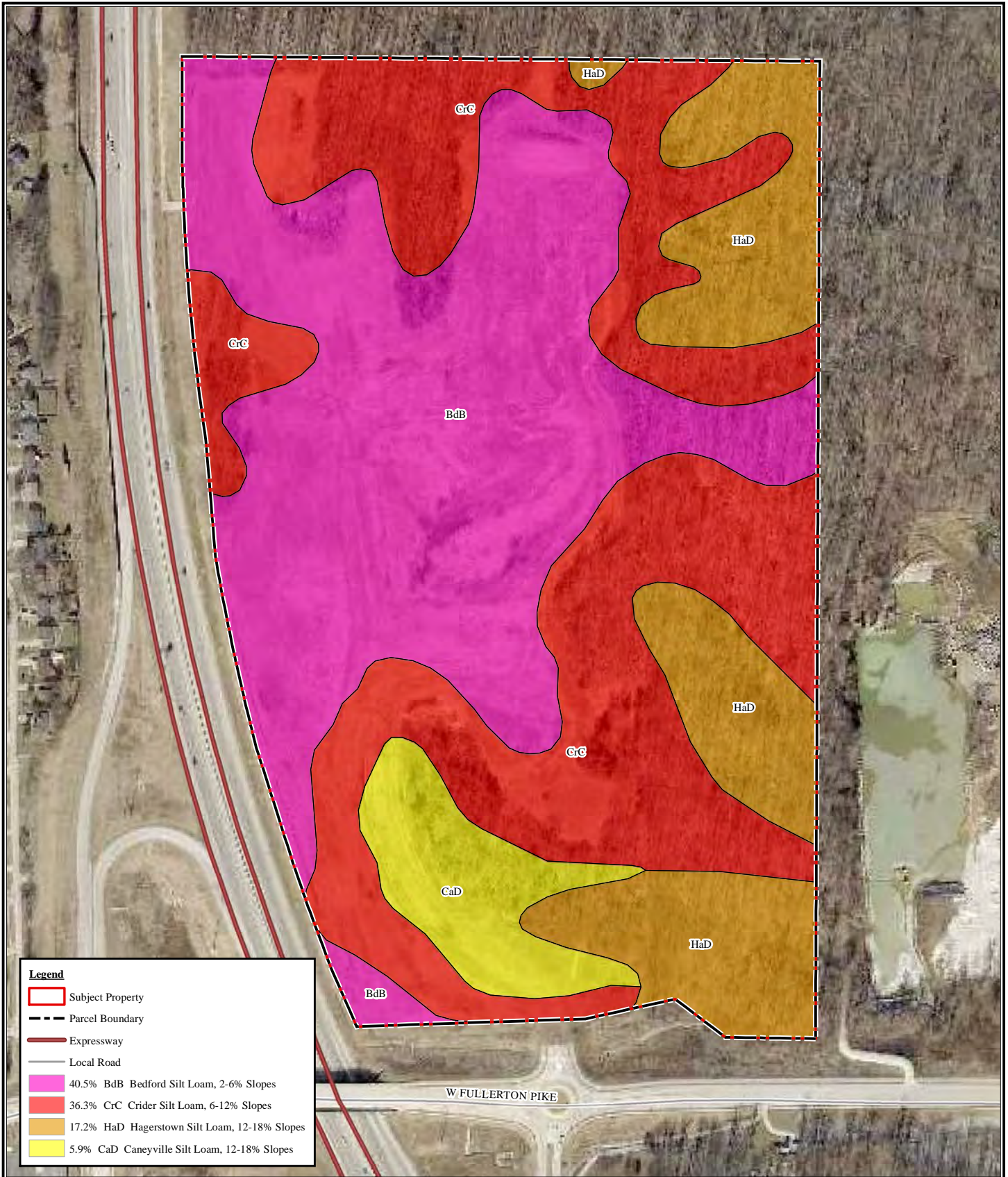


Project: Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 2	Drawn By: EMT
Notes: Perennial Stream Reported On Subject Property	

Title: Parcel Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Legend	
	Subject Property
	Parcel Boundary
	Expressway
	Local Road
	40.5% BdB Bedford Silt Loam, 2-6% Slopes
	36.3% CrC Crider Silt Loam, 6-12% Slopes
	17.2% HaD Hagerstown Silt Loam, 12-18% Slopes
	5.9% CaD Caneyville Silt Loam, 12-18% Slopes

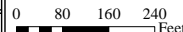


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1" = 333'

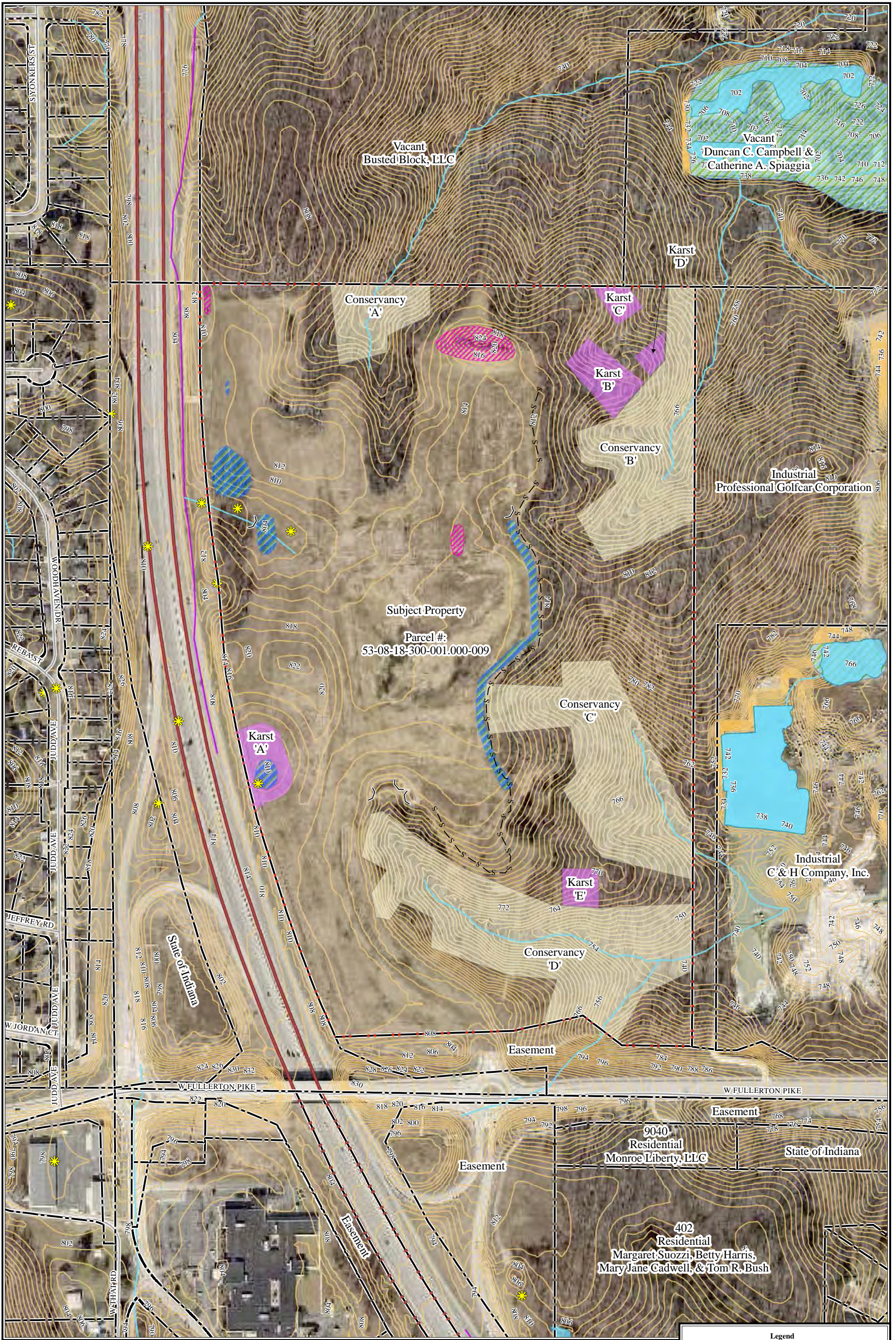


Project: Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 3	Drawn By: EMT
Notes: Hydric Soils Not Reported On Subject Property	


Title: Soils Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2016 USDA WSS Soils, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Subject Property
Parcel #:
53-08-18-300-001.000-009



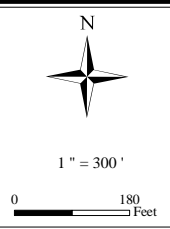
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Title: Subject Property Map

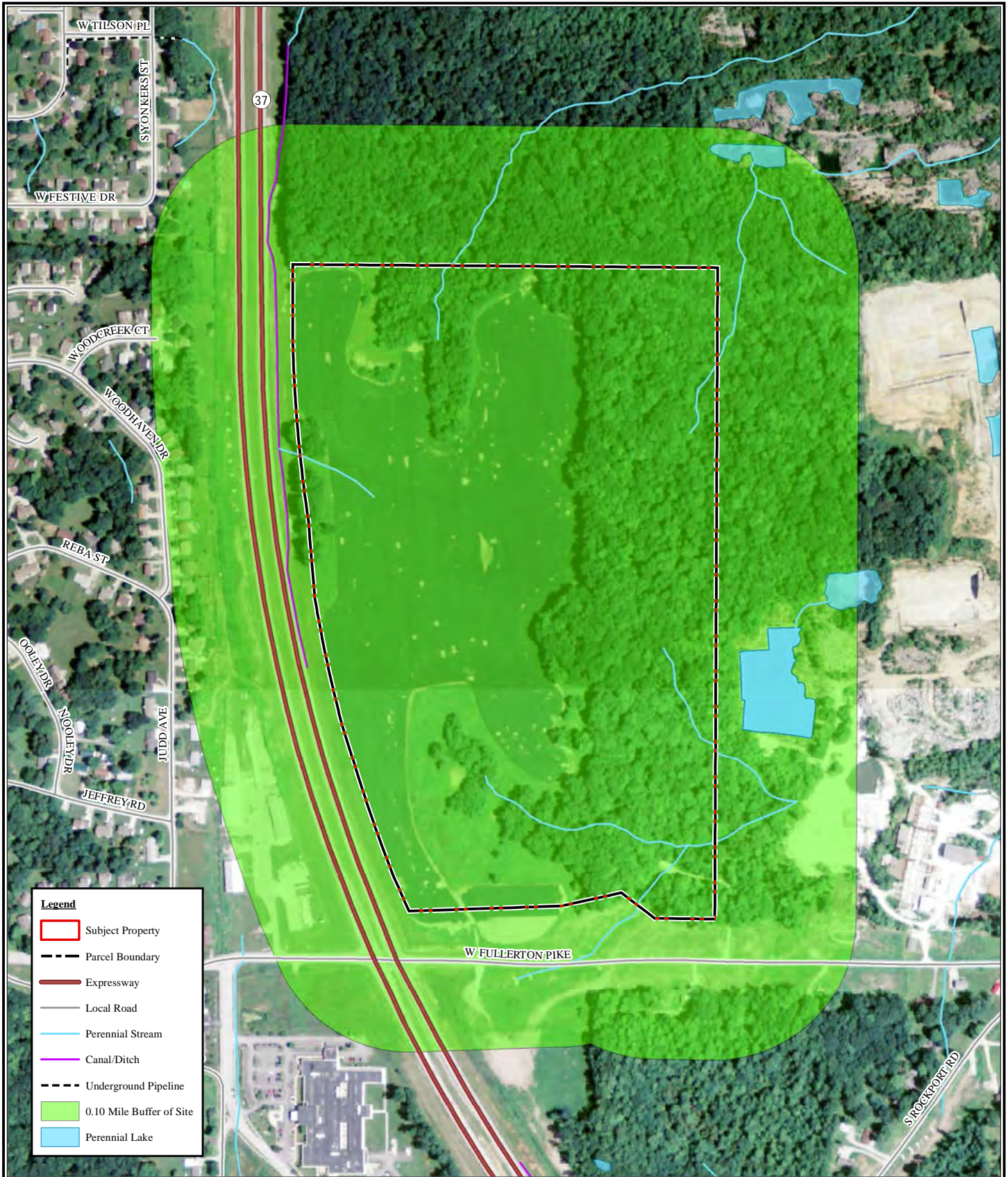
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North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Project: Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/10/2022
Exhibit:	4
Drawn By:	EMT
Notes:	N/A

Legend	
	Subject Property
	Parcel Boundary
	Karst Feature
	Rock Check Dam
	Expressway
	Local Road
	Perennial Stream
	Canal/Ditch
	Silt Fence Remnants
	Conservancy Easement
	Karst Easement
	NWI Wetlands
	Potential Fill Material
	Potential Wetland Feature
	Perennial Lake



- Legend**
- Subject Property
 - Parcel Boundary
 - Expressway
 - Local Road
 - Perennial Stream
 - Canal/Ditch
 - Underground Pipeline
 - 0.10 Mile Buffer of Site
 - Perennial Lake

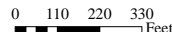


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1" = 500'

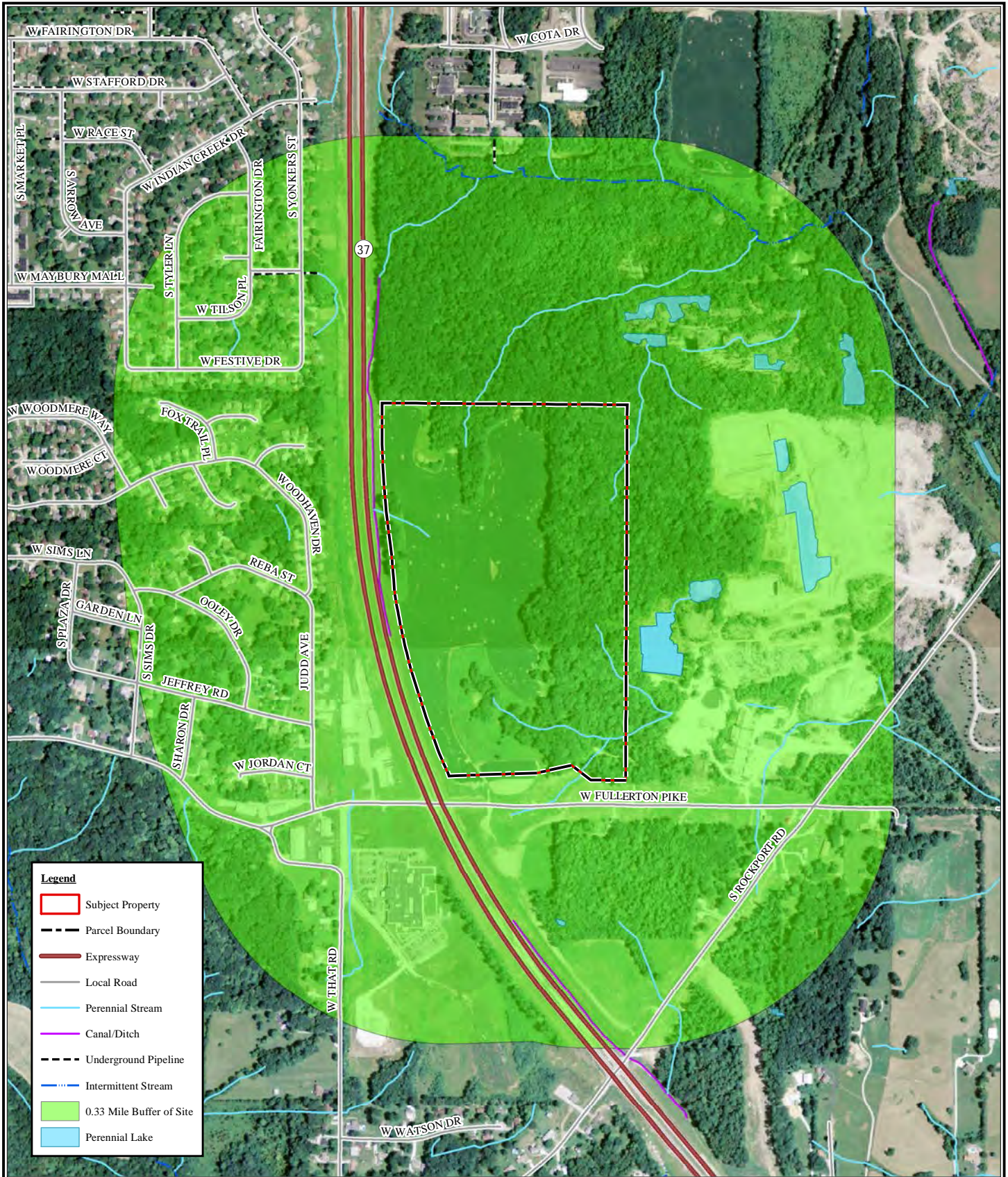


Project:	Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48	
NPDES Permit No.:	N/A	
Date:	8/10/2022	
Exhibit:	5	Drawn By: EMT
Notes:	Zero VECs Within 0.10-Mile Buffer of Subject Property	

Title:
 Vapor Encroachment Screen (VES) and Vapor Encroachment
 Conditions (VEC) for Petroleum Sites within a 0.10-Mile Buffer

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2014 USGS Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Legend

- Subject Property
- Parcel Boundary
- Expressway
- Local Road
- Perennial Stream
- Canal/Ditch
- Underground Pipeline
- Intermittent Stream
- 0.33 Mile Buffer of Site
- Perennial Lake

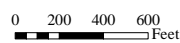


VET Environmental Engineering, LLC

2335 W. Fountain Drive
 Bloomington, IN 47404
 Phone: (812) 822-0400
 www.vet-env.com



1" = 867'



Title: Vapor Encroachment Screen (VES) and Vapor Encroachment Conditions (VEC) for Contaminants of Concern (COC) Sites with a 0.33-Mile Buffer

Location: South of State Road 37, North of West Fullerton Pike, Bloomington, Indiana 47403, Monroe County

Data Sources: 2014 USGS Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'

Project:	Monroe County - Fullerton Pike Phase I ESA	
VET Project No.:	22-48	
NPDES Permit No.:	N/A	
Date:	8/3/2022	
Exhibit:	6	Drawn By: EMT
Notes:	Zero VECs Within 0.33-Mile Buffer of Subject Property	

EXHIBIT 7

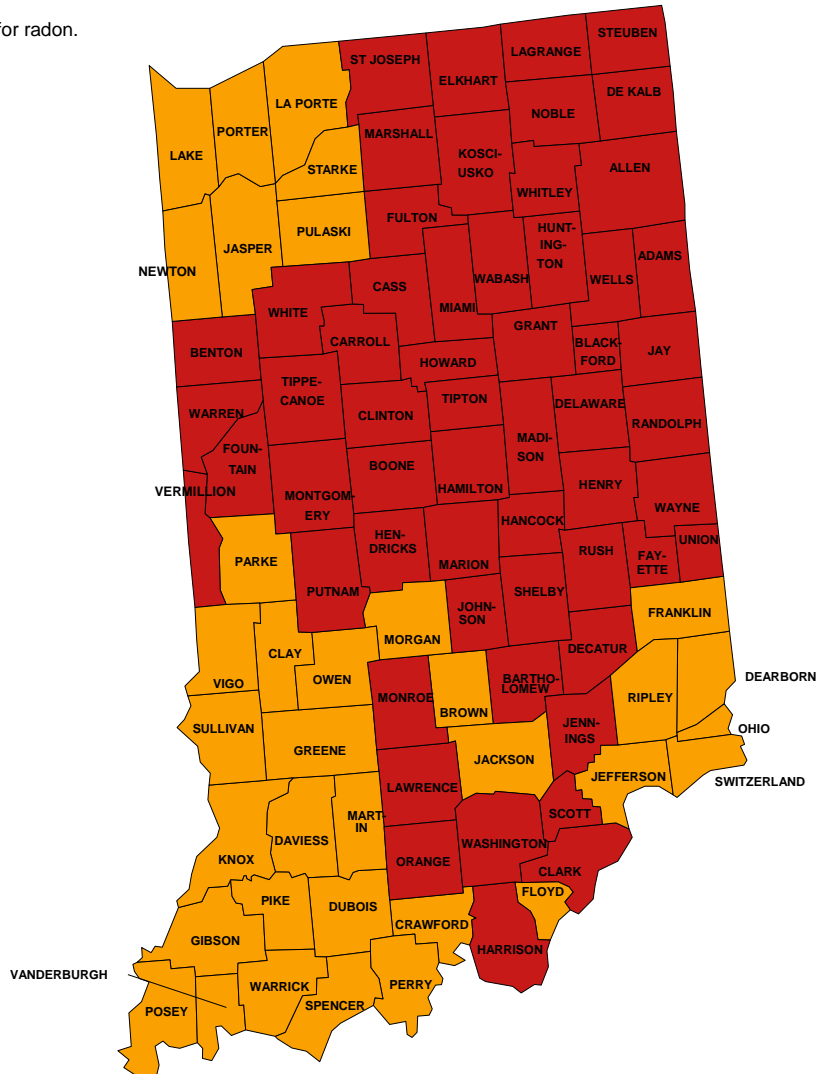
INDIANA - EPA Map of Radon Zones

<http://www.epa.gov/radon/zonemap.html>

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

All homes should be tested, regardless of zone designation.



IMPORTANT: Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of Indiana" (USGS Open-file Report 93-292-E) before using this map. <http://energy.cr.usgs.gov/radon/grpinfo.html> This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.



Zone 1



Zone 2



Zone 3

ATTACHMENT 1



VET ENVIRONMENTAL ENGINEERING, LLC

2335 West Fountain Drive, Bloomington, IN 47404

Phone: (812) 822-0400 Fax: (812) 650-3892

Email: info@vet-env.com

All Appropriate Inquiry (AAI) User Questionnaire

Relationship to Property: (i.e. owner, buyer, lender)	Property Address (Address, City, State, Zip Code):	Project Number (For Office Use):
Buyer	South State Road 37 and West Fullerton Pike, Bloomington, Indiana 47403 (Parcel #53-08-18-300-001.000-009)	22-48

Question	Please Answer: (Yes, No, Not Applicable or Please Specify)
1. Have you performed a search of land title records for the <i>Property</i> ?	No
2. Are you aware of any liens, activity and use limitations (AULs), or other restrictions for the <i>Property</i> ? If yes, please specify.	Yes, Conservancy and Karst Easment
3. If the <i>Property</i> is being bought/sold, does the purchase price being paid for the <i>Property</i> reasonably reflect fair market value?	Yes
4. If you conclude that the <i>Property</i> is not being bought/sold at fair market value, is the decreased price a result of known contamination at the <i>Property</i> ?	
5. Are you aware of the past uses of the <i>Property</i> ? If yes, please provide approximate dates of occupancy with the respective occupant.	No
6. Are you aware of any specific chemical usage on the <i>Property</i> ? For example, if you know the <i>Property</i> currently or formerly used an underground storage tank or above-ground storage tank provide the relative size and contents (i.e. 1,000-gallon UST containing diesel) If yes, please specify known chemical usage.	No

7. Are you aware of any spills or chemical releases on the <i>Property</i> or adjoining properties? If yes, please specify.	No
8. Are you aware of any environmental cleanups on the <i>Property</i> ? If yes, please specify.	No
9. Are you aware of any individuals who may have historic or specialized knowledge about the <i>Property</i> ?	Bill C. Brown
10. Are you aware of any environmental reports for the <i>Property</i> (i.e. Phase I ESA)? If yes, please specify. Please provide reports, if available.	Yes, already provided.
11. Are you aware of any adverse environmental conditions on the <i>Property</i> or adjoining properties? If yes, please specify.	No

Richard Crider

8/8/2022

Signature

Date

Richard Crider Facilities and Fleet Manager

Printed Name and Title



Monroe County Health Department

Monroe County, Indiana

Health Department

Futures Family Planning Clinic

Public Health Clinic

119 W. 7th Street
(812) 349-2543

338 S. Walnut Street
(812) 349-7343

333 E. Miller Drive
(812) 353-3244

INFORMATION REQUEST FORM/ESA PHASE 1

REQUEST NUMBER: 2022-0046

DATE RECEIVED: 7/28/2022

CONTACT INFORMATION

CONTACT NAME: Rene E Lloyd

ORGANIZATION: VET Environmental Engineering, LLC.

PHONE NUMBER: (812) 822-0400

EMAIL ADDRESS: rene@vet-env.com

MAILING ADDRESS: 2335 W Fountain Drive, Bloomington, IN 47404

INFORMATION REQUESTED

INFORMAL REQUEST ONLY (NO CHARGE)

HOW RECEIVED: PHONE LETTER EMAIL IN PERSON FAX

SITE ADDRESS: S State Road 37, Bloomington, IN 47403

PARCEL ID NUMBER: 53-08-18-300-001.000-009

OWNER: Brown, Bill C. Revocable Trust

OWNER ADDRESS: 300 S State Road 446, Bloomington, IN 47401

RESULTS: The databases listed below were searched in response to your request for information about the above-listed property and checked to see if there were records found within the Environmental Section. There is a record on file in our IDEM Spill Reports Database from 7/7/2015 (Incident Number 55941- contact IDEM for more details about this spill report). There are no other known environmental records for this property at the Monroe County Health Department.

Pool Database

Mosquito Activity Database

Methamphetamine Database

IDEM Underground Storage Tanks and Leaking Underground Storage Tanks

Syringe Report Database

IDEM Institutional Controls Registry

Complaint Database

IDEM Spill Reports

Rental Housing Complaint Database

NPS/PCB Project Files

Solid Waste Permit Database

Septic System Records

Radon Database

Monroe County Health Department Water

Well Database

ASSIGNED TO ENVIRONMENTAL HEALTH SPECIALIST: Ashley Bergquist

DATE: 7/28/2022



ATTACHMENT 2

South State Road 37 and West Fullerton Pike Phase I ESA Photographs

Photo 1: Potential fill pile on northern Subject Property boundary; View to the southeast



Photo 2: Erosional gulley west of southern wooded portion of Subject Property; View to the east



Photo 3: Hydrophytic vegetation in potential wetland on western Subject Property boundary; View to the southeast



Photo 4: Rock check dam on the western Subject Property boundary; View to the northwest



South State Road 37 and West Fullerton Pike Phase I ESA Photographs

Photo 5: Northern terminus of man-made berm at northeastern Subject Property boundary; View to the south



Photo 6: Possible sinking stream in northeastern wooded area; View to the southeast



Photo 7: Potential fill pile on northwestern Subject Property corner; View to the north



Photo 8: Grading on southern portion of Subject Property; View to the south



HISTORICAL AERIAL PHOTOGRAPHS



1939 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1946 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1972 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1975 Aerial Photograph

Image: Indiana Spatial Data Portal



1999 Aerial Photograph

Image: United States Geological Survey



2003 Aerial Photograph

Image: Google Earth



2005 Aerial Photograph

Image: IndianaMap Framework Data



2010 Aerial Photograph

Image: United States Department of Agriculture



2015 Aerial Photograph

Image: United States Department of Agriculture



2016 Aerial Photograph

Image: Google Earth



2019 Aerial Photograph

Image: Landsat/Copernicus



2020 Aerial Photograph

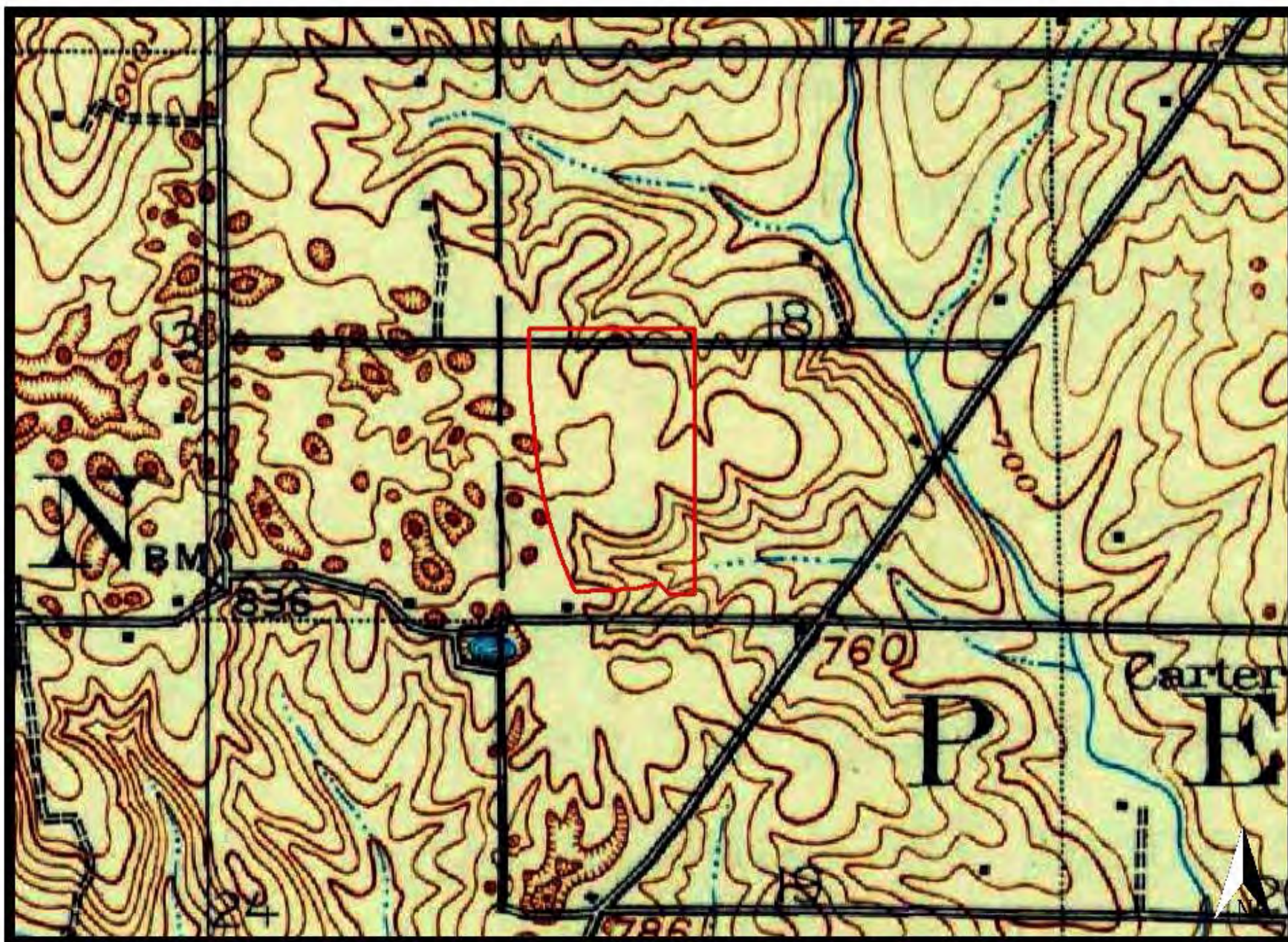
Image: Google Earth



2022 Aerial Photograph

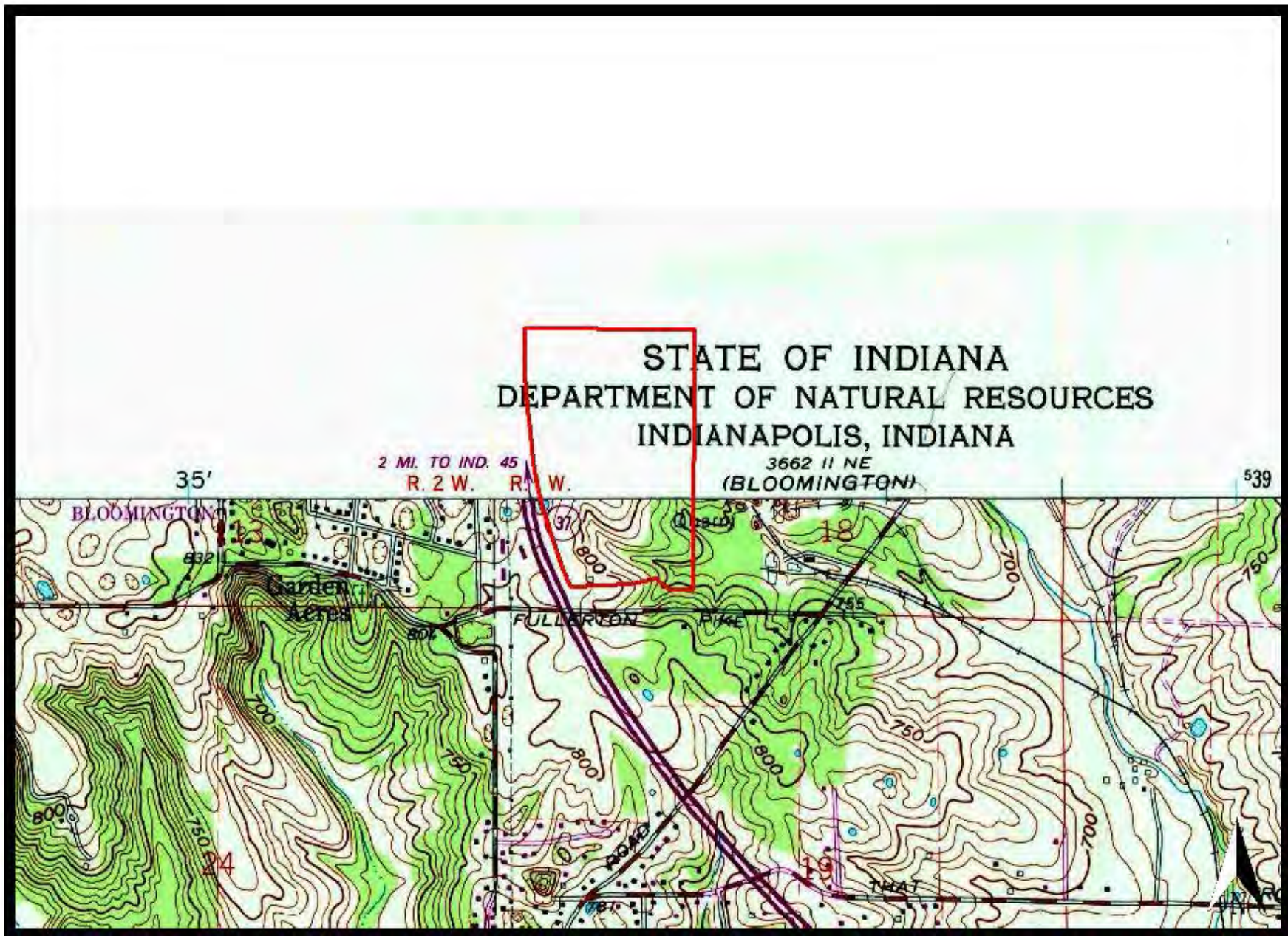
Image: Elevate

TOPOGRAPHIC MAPS



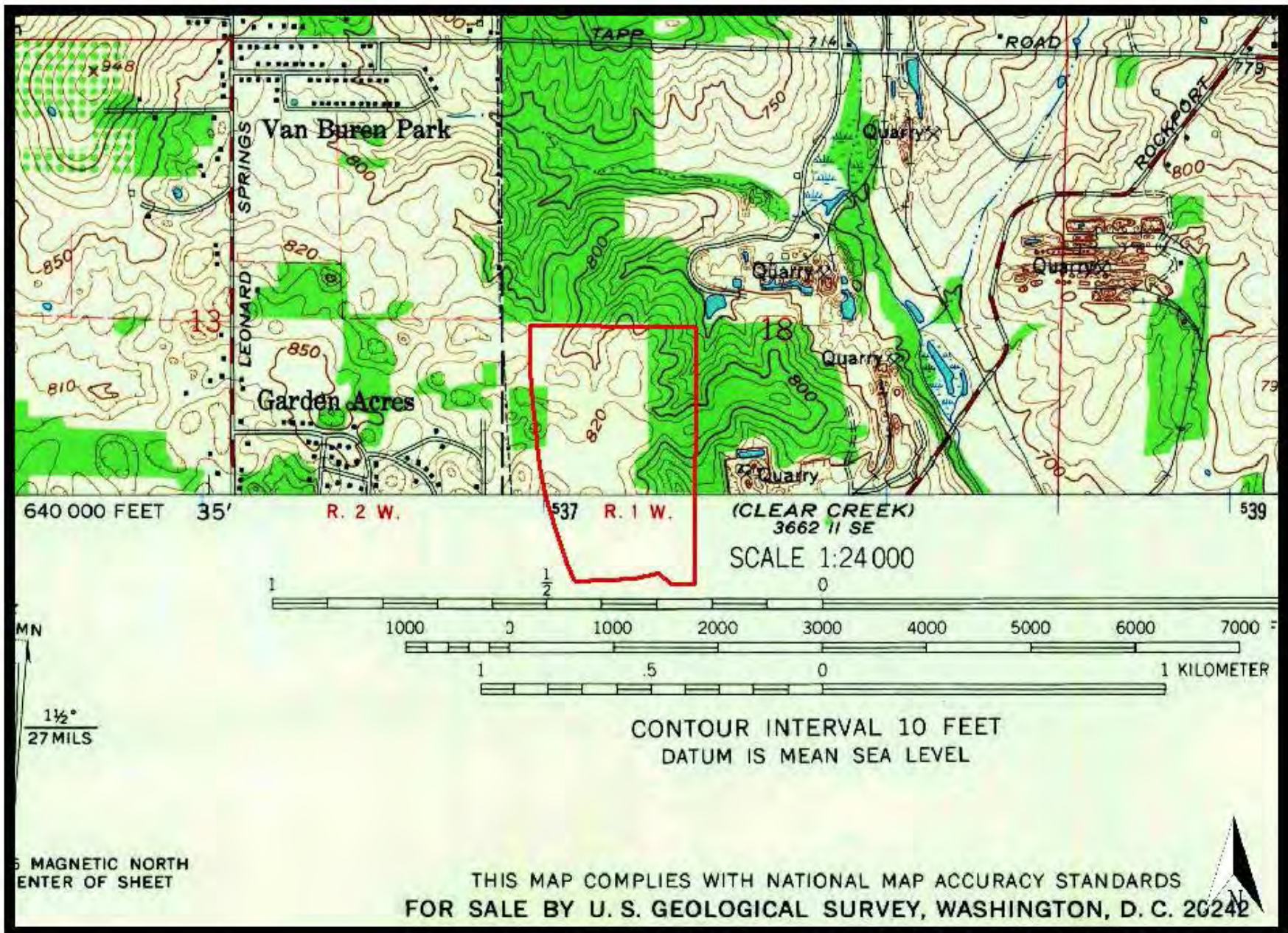
1910 Historical Topographic Map

Source: United States Geological Survey



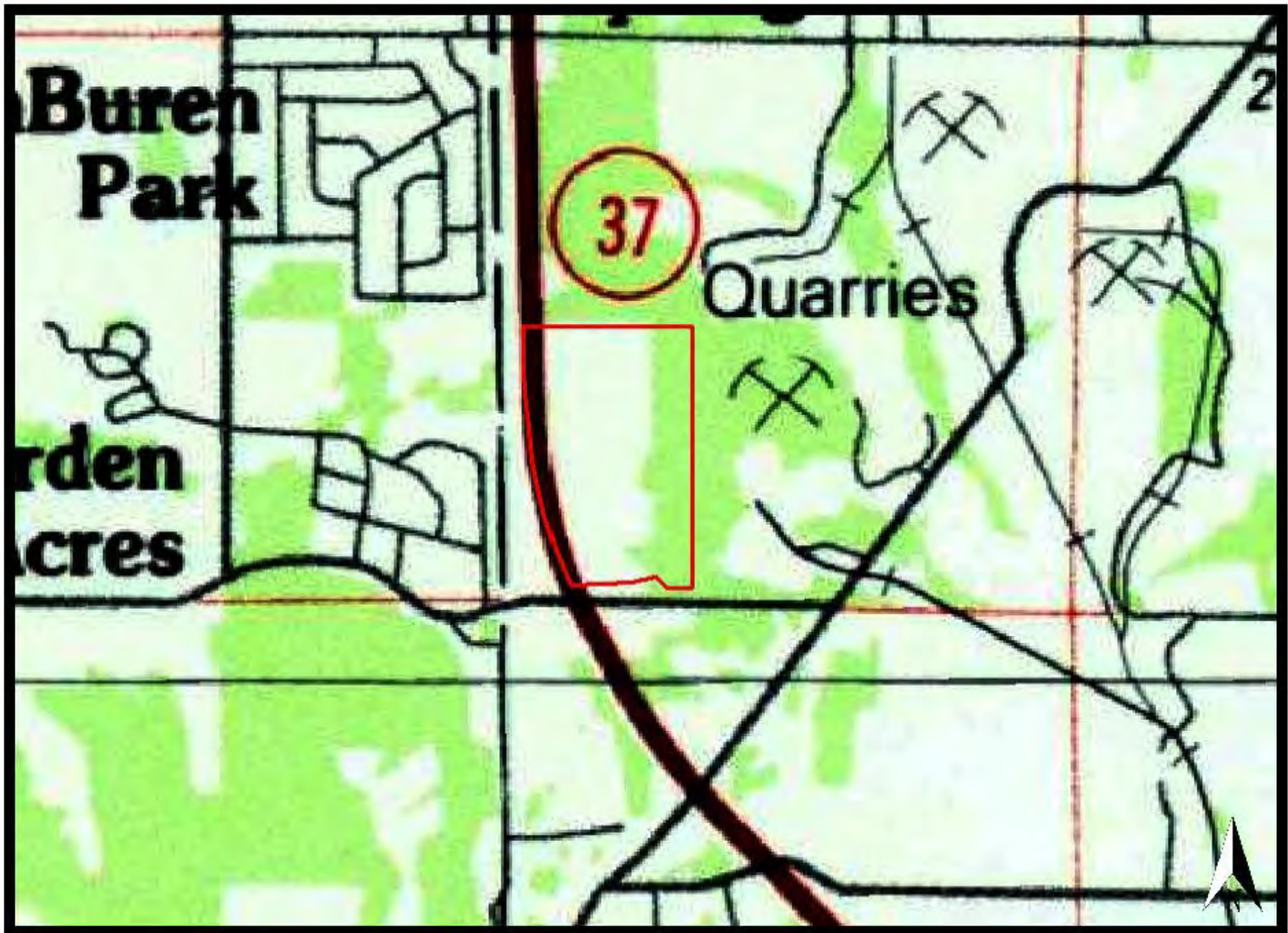
1965 Historical Topographic Map

Source: United States Geological Survey



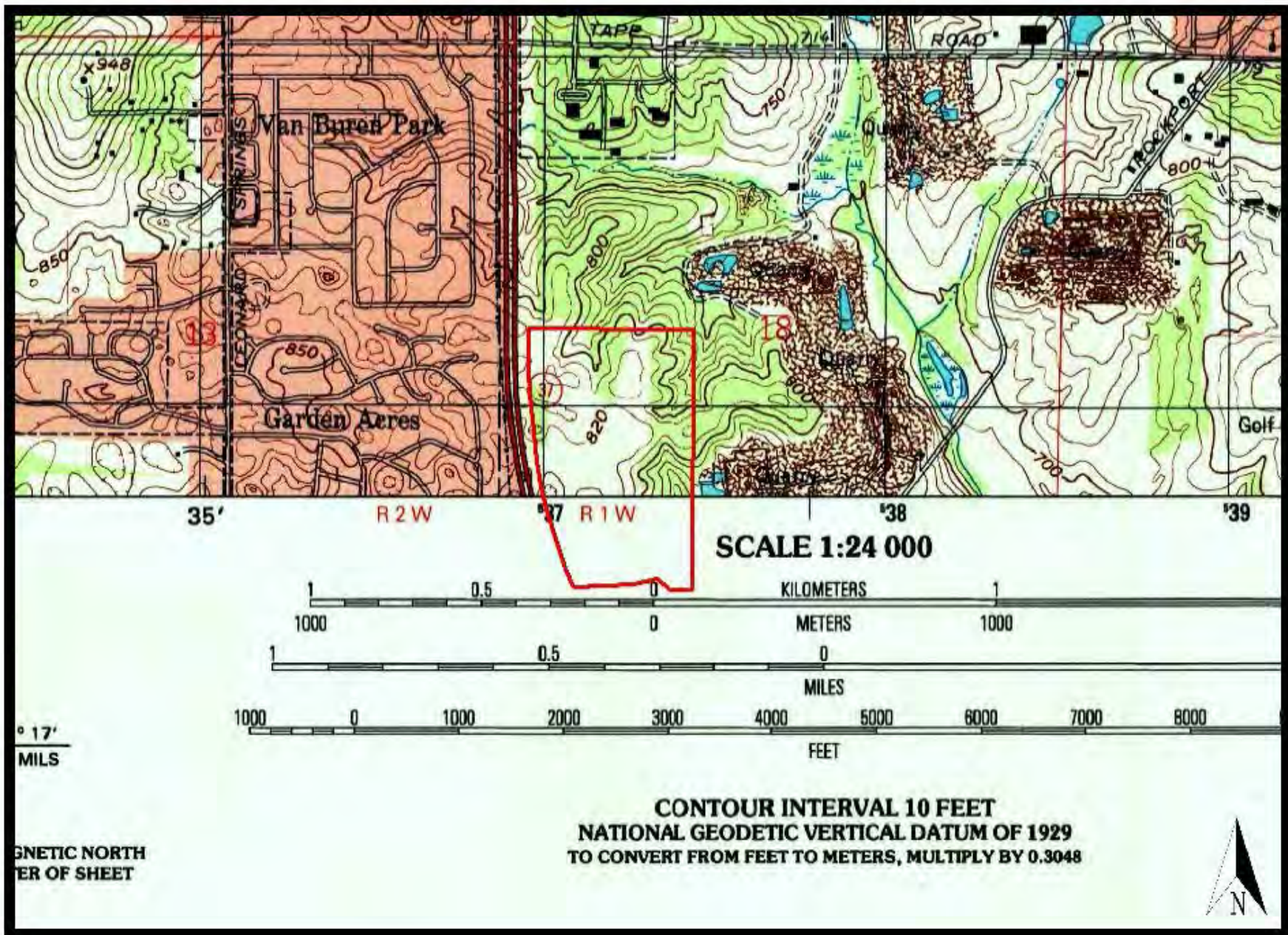
1966 Historical Topographic Map

Source: United States Geological Survey



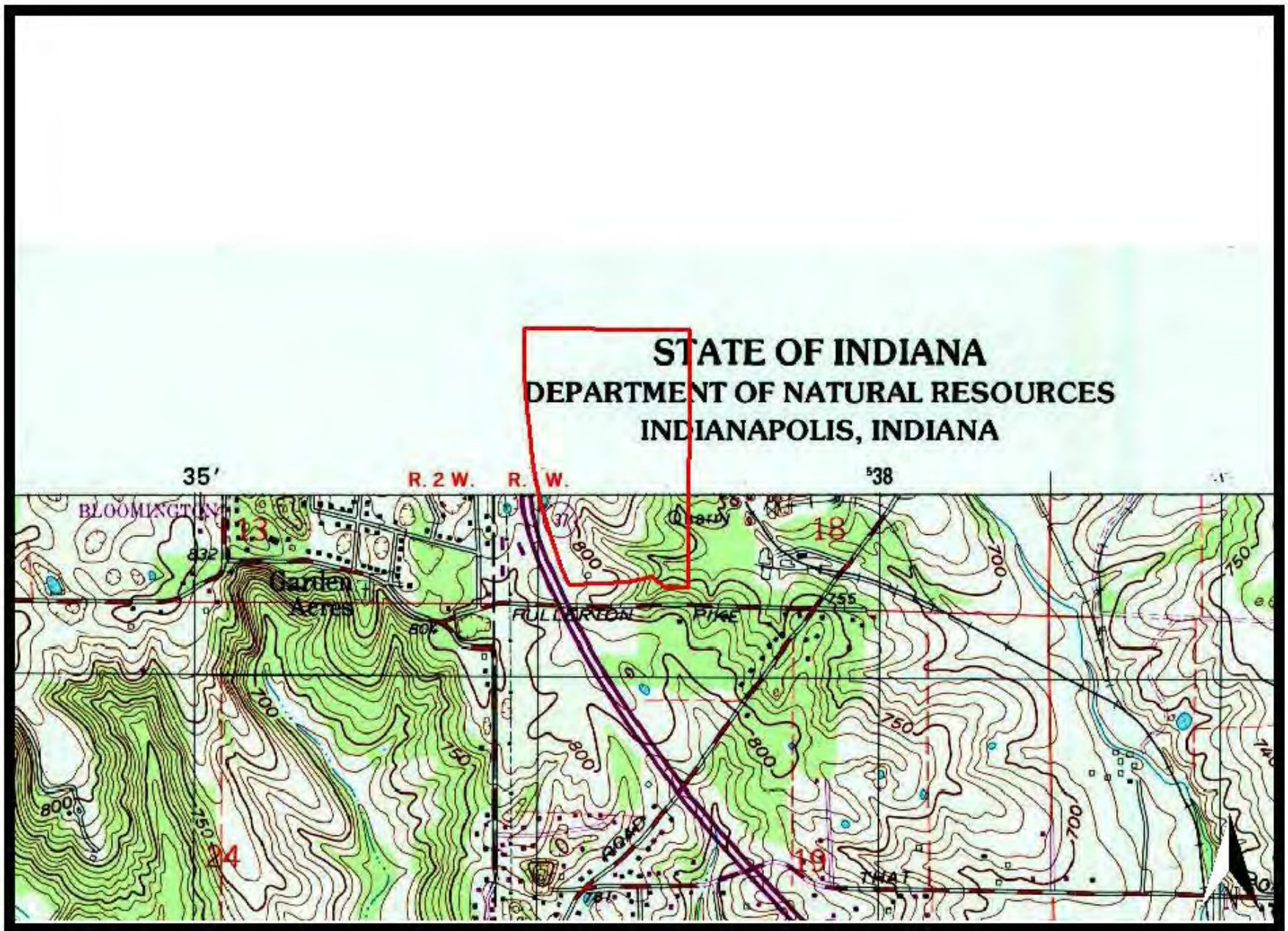
1986 Historical Topographic Map

Source: United States Geological Survey



1998 Historical Topographic Map

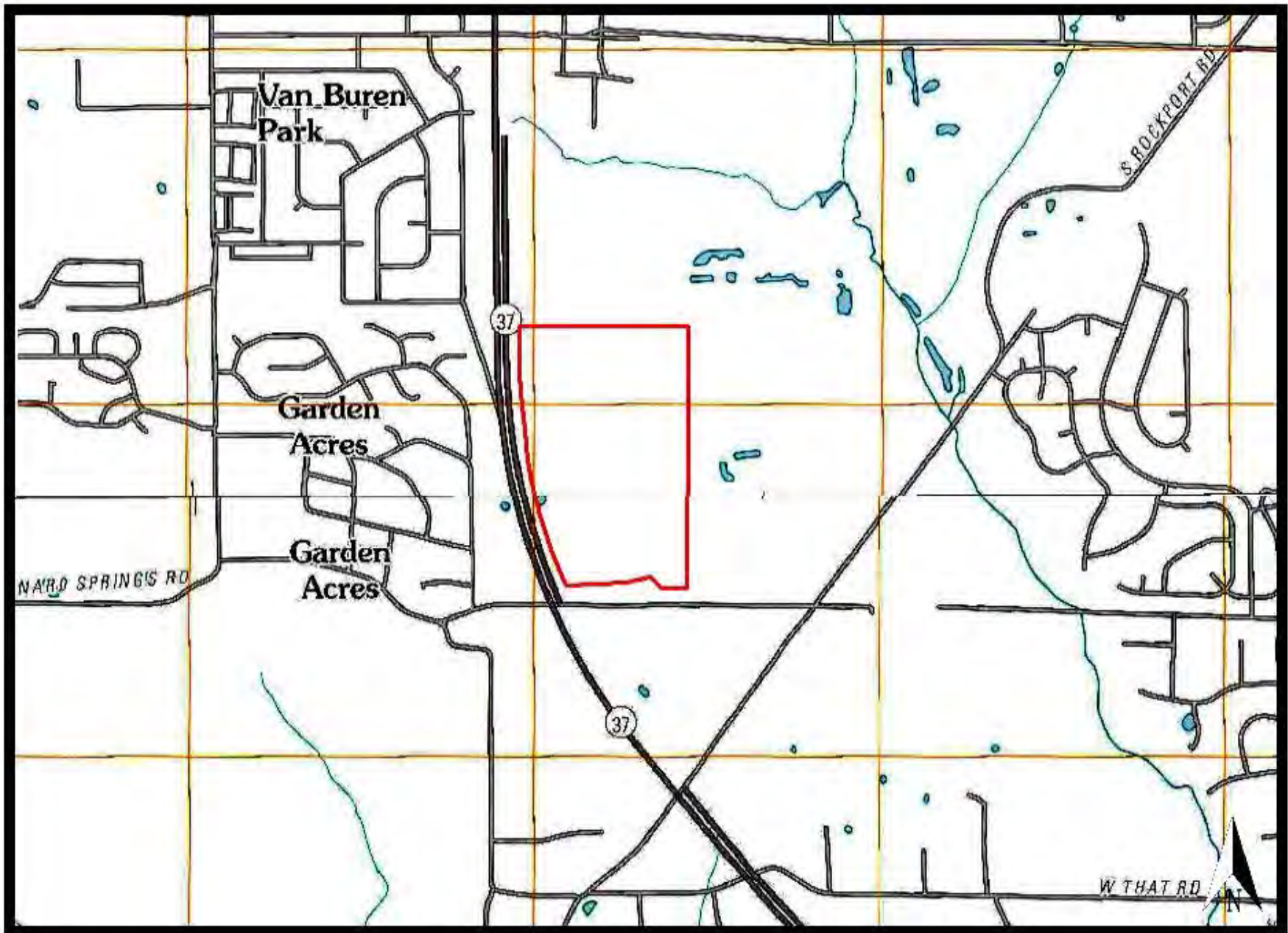
Source: United States Geological Survey



STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
INDIANAPOLIS, INDIANA

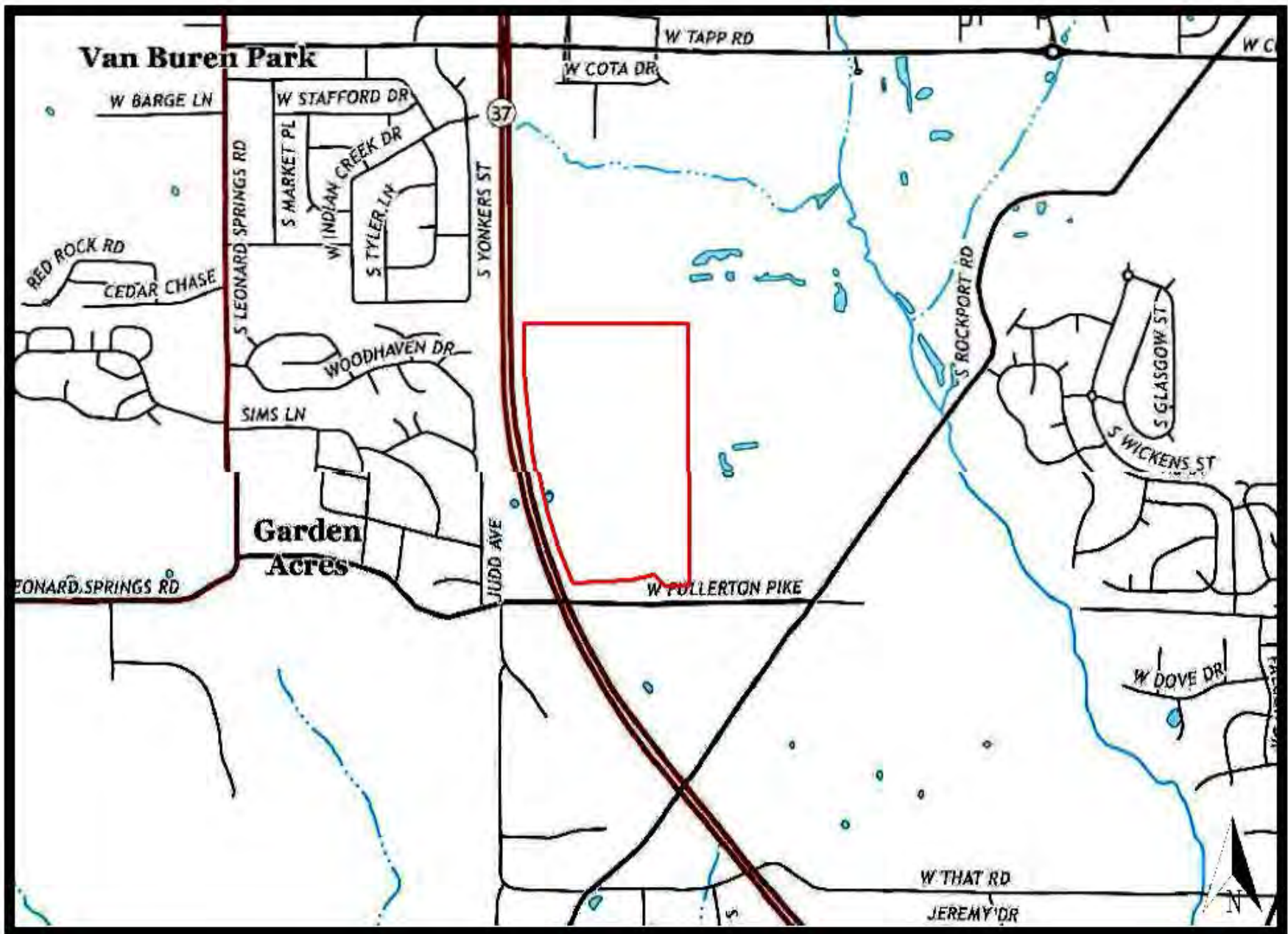
1999 Historical Topographic Map

Source: United States Geological Survey



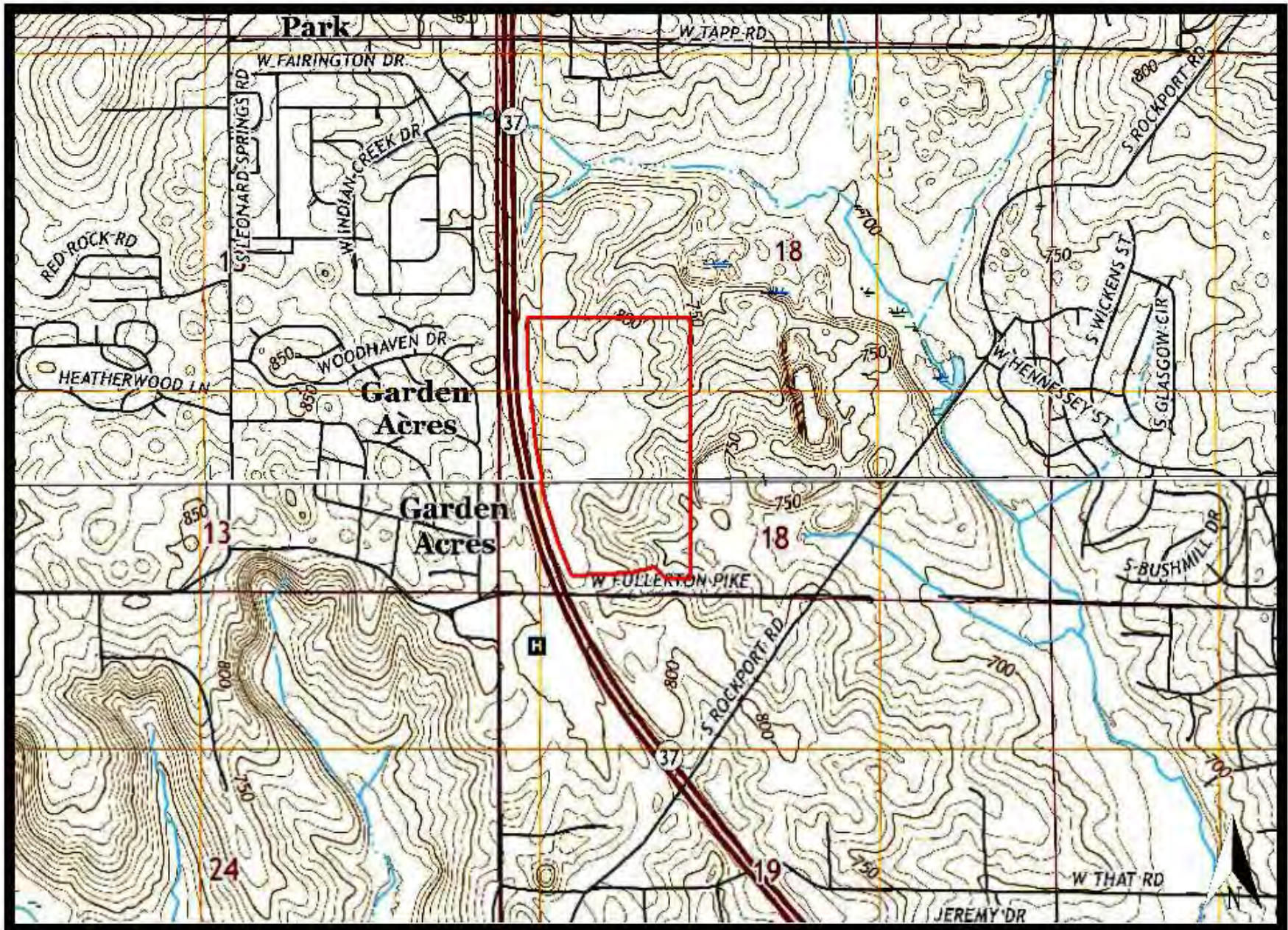
2010 Historical Topographic Map

Source: United States Geological Survey



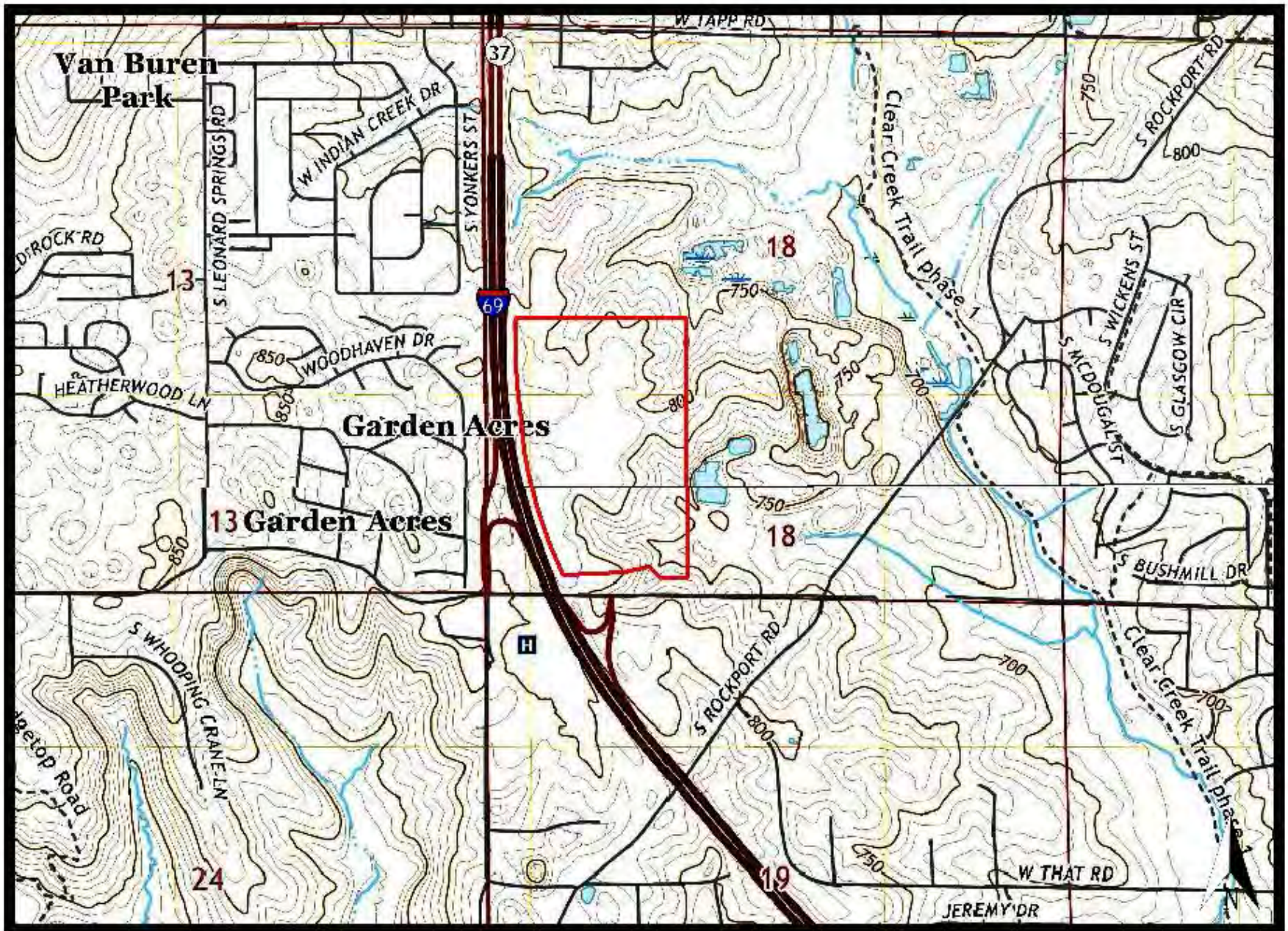
2013 Historical Topographic Map

Source: United States Geological Survey



2016 Historical Topographic Map

Source: United States Geological Survey



2019 Historical Topographic Map

Source: United States Geological Survey

ATTACHMENT 3

DULY ENTERED
FOR TAXATION

APR 14 2008

Address of Grantee
3009 ST RD 446
Bloomington, IN 4740X1
Tax ID #015-02520-01

Andie M. Newman
Auditor Monroe County, Indiana


QUITCLAIM DEED

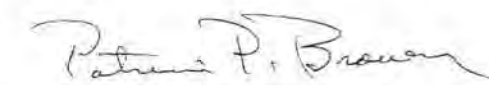
THIS INDENTURE WITNESSETH, That BILL C. BROWN and PATRICIA P. BROWN, husband and wife ("Grantor"), of Monroe County, in the State of Indiana, QUITCLAIMS to BILL C. BROWN, Trustee of the BILL C. BROWN REVOCABLE TRUST, dated February 28, 1989, of Monroe County, in the State of Indiana, for the sum of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, the following described real estate in Monroe County, in the State of Indiana, to-wit:

A part of the Southwest Quarter of Section 18, Township 8 North, Range 1 West, Monroe County, Indiana, described as follows: Beginning at a point 884.99 feet West of the Southeast corner of said Southwest Quarter, said point being on the South line of said Southwest Quarter, thence North 00 degrees 00 minutes 00 seconds East for a distance of 2628.76 feet to the North line of said Southwest Quarter, thence South 89 degrees 57 minutes 30 seconds ^{46"} over and along said North line for a distance of 1682.50 feet to the East right-of-way of State Road 37, thence over and along the East right-of-way by the following courses and distances: South 01 degrees 11 minutes 19 seconds East 310.82 feet; Southeasterly 703.88 feet on an arc to the left having a radius of 5564.58 feet and being subtended by a long chord bearing South 04 degrees 47 minutes 19 seconds East 703.41 feet; South 05 degrees 59 minutes 03 seconds East, 293.42 feet; Southeasterly 1266.37 feet on an arc to the left having a radius of 5584.58 feet and being subtended by a long chord bearing South 17 degrees 55 minutes 30 seconds East, 1263.66 feet; South 69 degrees 50 minutes 09 seconds East 215.25 feet; North 89 degrees 16 minutes 53 seconds East, 488.72 feet; South 01 degrees 41 minutes 45 seconds East 57.64 feet to the South line of said Southwest Quarter, thence North 89 degrees 32 minutes 51 seconds East over and along said South line for a distance of 505.39 feet to the point of beginning. Containing 90.89 acres, more or less.

SUBJECT TO all taxes.

IN WITNESS WHEREOF, Grantor has executed this Deed this 4th day of APRIL, 2008.


BILL C. BROWN


PATRICIA P. BROWN

STATE OF INDIANA)
) SS:
COUNTY OF MONROE)

Before me, the undersigned, a Notary Public in and for said County and State, personally appeared BILL C. BROWN and PATRICIA P. BROWN, husband and wife, who acknowledged the execution of the foregoing Quitclaim Deed, and who, having been duly sworn, stated that any representations therein contained are true.

Witness my hand and Notarial Seal this 4th day of APRIL, 2008.

(seal)

Jill D. Boruff
Notary Public
Jill D. Boruff Printed
Residing in Monroe County, IN
My Commission Expires: 12/04/2015

I AFFIRM UNDER PENALTIES OF PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW. HERBERT L. KILMER

This Instrument prepared by Herbert L. Kilmer, Attorney, Bloomington, IN

2015011604 EASE \$36.00
08/18/2015 12:26:50P 12 PGS
Eric Schmitz
Monroe County Recorder IN
Recorded as Presented



CONSERVANCY AND KARST EASEMENTS

THIS INDENTURE WITNESSETH, that Bill C. Brown Revocable Trust, hereinafter called GRANTOR, of Monroe County, State of Indiana grants to The City of Bloomington, the Grantee, for and in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, Conservancy Easements and Karst Easements as defined below and as described on the attached exhibit "A"

Conservancy Easement – This easement is to protect natural areas and includes wooded areas, sloped areas, drainage ways and karst features. The following restrictions apply within the easement area;

- Any land disturbing activity including the placement of a fence, or alteration of any vegetative cover, including mowing, is prohibited in the easement area.
- Removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic species is allowed only after first obtaining written approval from the City of Bloomington Planning & Transportation Department.
- In cases where removal of exotic invasive species is proposed, the restoration of disturbed areas with native plant material is allowed with written approval from the City of Bloomington Planning & Transportation Department prior to any proposed removal and restoration.
- Karst areas within this Conservancy Easement are also subject to any additional restrictions provided by the Karst Conservancy Easement.

Karst Easement – This easement is to protect the Karst features. The following restrictions apply within the easement area;

- No land disturbing activity, including the placement of a fence or the placement of any fill material is allowed within the easement area.
- No structures shall be located within 10 of the easement.
- Storm water discharge into the easement area shall not be substantially changed. The easement are shall not be used for storm water detention.
- Spring or cave entrances shall not be modified except for the placement of a gate to prevent human access.
- Mowing is allowed in the easement area. Removal of dead or diseased trees that pose a safety risk or impede draining as well as removal of exotic invasive species is allowed only after first obtaining written approval from the City of Bloomington Planning & Transportation Department.
- Right is granted to the City of Bloomington to enter the property to inspect the easement and alter or repair the karst feature.
- Any use of pesticides, herbicides, or fertilizers is prohibited within the easement area.

- Where removal of exotic invasive species is proposed, the restoration of the disturbed area with native plant material is allowed. Written approval of the City of Bloomington Planning & Transportation Department is required prior to any proposed removal and restoration.

IN WITNESS WHEREOF, the said Grantor has executed this instrument this _____ day of August, 2015.

Bill C. Brown Revocable Trust

By: _____

Bill C. Brown, Trustee

STATE OF INDIANA)
) SS:
COUNTY OF MONROE)

SUBSCRIBED AND SWORN TO before me this 17th day of August, 2015.

My Commission Expires:

August 10, 2016

Larry J. Beckman / Larry J. Beckman
Notary Public

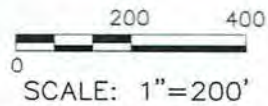
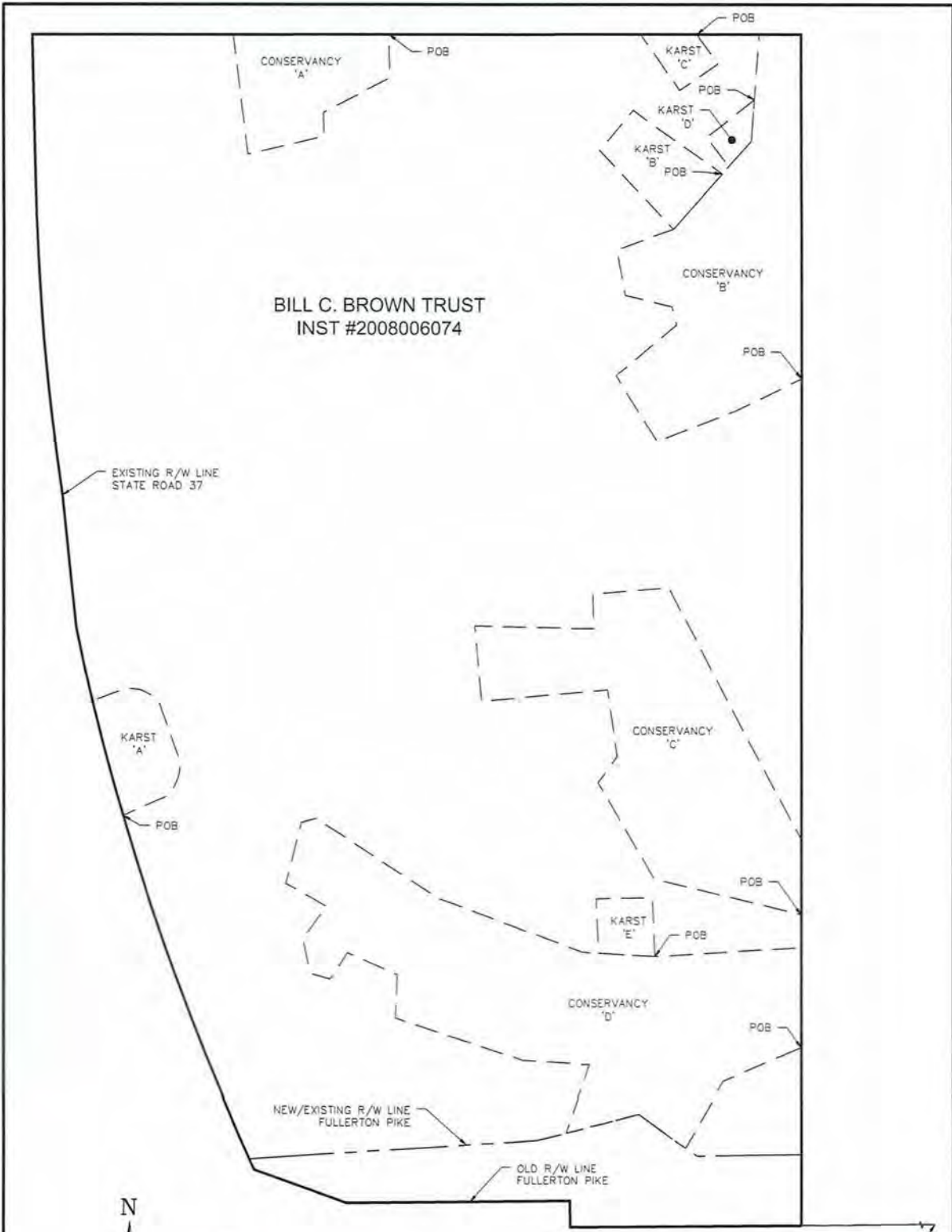
Resident of Monroe County

I affirm, under penalties of perjury that I have taken reasonable care to redact each social security number from this document unless required by law.

Stephen L. Smith
Stephen L. Smith



This instrument prepared by Smith Brehob & Associates, Inc.
453 South Clarizz Boulevard, Bloomington, IN 47401



NOTE:
 THIS EXHIBIT WAS PREPARED BASED UPON DOCUMENTS OBTAINED FROM THE OFFICE OF THE RECORDER OF MONROE COUNTY, AND OTHER SOURCES AND IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.

POC
 SE COR SW/4
 SEC 18-T18N-R1W
 (PER COBB SURVEY)

EXHIBIT A KARST AND CONSERVANCY EASEMENTS


Smith Brehob & Associates, Inc.
 453 S. Clarize Boulevard
 Bloomington, Indiana, 47401
 Telephone: (812) 336-6236
 Fax: (812) 336-0513
 Web: <http://smithbrehob.com>
 Job: 4900

Exhibit "A"
"Conservancy Easement A"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76 feet, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 901.21 feet to the POINT OF BEGINNING; thence continuing along said north line South 89 degrees 56 minutes 28 seconds West 341.42 feet; thence South 06 degrees 53 minutes 17 seconds East 261.41 feet; thence North 76 degrees 41 minutes 22 seconds East 171.94 feet; thence North 01 degrees 40 minutes 08 seconds West 50.99 feet; thence North 62 degrees 58 minutes 56 seconds East 164.48 feet; thence North 01 degrees 23 minutes 27 seconds West 94.63 to the POINT OF BEGINNING, containing 1.45 acres more or less.

Exhibit "A"
"Conservancy Easement B"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 1875.23 feet to the POINT OF BEGINNING; thence continuing on said east line of said property North 00 degrees 01 minutes 11 seconds East 753.53; thence leaving said east line and following the north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet; thence leaving the north line of said property South 04 degrees 21 minutes 56 seconds West 231.89 feet; thence South 41 degrees 22 minutes 46 seconds West 259.24 feet; thence South 69 degrees 32 minutes 56 seconds West 131.82 feet; thence South 10 degrees 29 minutes 21 seconds East 100.61 feet; thence South 76 degrees 26 minutes 07 seconds East 105.45 feet; thence South 14 degrees 04 minutes 29 seconds East 40.30 feet; thence South 49 degrees 51 minutes 40 seconds West 173.60 feet; thence South 31 degrees 06 minutes 21 seconds East 173.72 feet; thence North 67 degrees 57 minutes 31 seconds East 184.23 feet; thence North 63 degrees 22 minutes 02 seconds East 162.02 feet to the POINT OF BEGINNING, containing 4.71 acres more or less.

Exhibit "A"
"Conservancy Easement C"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 683.70 feet to the POINT OF BEGINNING; thence leaving east line of said property North 76 degrees 08 minutes 59 seconds West 331.31 feet; thence North 29 degrees 35 minutes 48 seconds West 249.48 feet; thence North 35 degrees 30 minutes 41 seconds East 73.49 feet; thence North 08 degrees 02 minutes 01 seconds West 148.13 feet; thence South 84 degrees 43 minutes 31 seconds West 277.39 feet; thence North 05 degrees 21 minutes 35 seconds West 166.77 feet; thence South 88 degrees 38 minutes 10 seconds East 261.19 feet; thence North 01 degrees 24 minutes 29 seconds West 77.69 feet; thence North 84 degrees 51 minutes 42 seconds East 166.16 feet; thence South 27 degrees 17 minutes 23 seconds East 632.66 feet to said east line; thence South 00 degrees 01 minutes 11 seconds West along said east line 167.37 feet to the POINT OF BEGINNING, containing 5.52 acres more or less.

Exhibit "A"
"Conservancy Easement D"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following the east line of said property North 00 degrees 01 minutes 11 seconds East 388.00 feet to the POINT OF BEGINNING; thence continuing on the east line of said property North 00 degrees 01 minutes 11 seconds East 222.40 feet; thence leaving the east line of said property South 86 degrees 18 minutes 32 seconds East 320.63 feet; thence North 86 degrees 24 minutes 33 seconds West 159.11 feet; thence North 69 degrees 14 minutes 20 seconds West 333.42 feet; thence North 56 degrees 32 minutes 29 seconds West 325.46 feet; thence South 73 degrees 43 minutes 37 seconds West 33.43 feet; thence South 13 degrees 51 minutes 44 seconds West 139.77 feet; thence South 59 degrees 58 minutes 16 seconds East 103.04 feet; thence South 36 degrees 17 minutes 33 seconds West 87.83 feet; thence South 12 degrees 13 minutes 16 seconds East 80.84 feet; thence South 73 degrees 34 minutes 39 seconds East 44.21 feet; thence North 32 degrees 16 minutes 02 seconds East 70.27 feet; thence South 65 degrees 49 minutes 55 seconds East 120.47 feet; thence South 02 degrees 24 minutes 30 seconds West 96.59 feet; thence South 71 degrees 25 minutes 46 seconds East 293.77 feet; thence South 86 degrees 04 minutes 49 seconds East 145.63 feet; thence South 19 degrees 22 minutes 08 seconds West 152.98 feet to existing right-of-way line of Fullerton Pike, the next (2) calls are along said right-of-way; thence (1) North 75 degrees 42 minutes 16 seconds East 163.63 feet; thence (2) South 54 degrees 36 minutes 23 seconds East 125.98 feet; thence North 30 degrees 20 minutes 41 seconds East 163.31 feet; thence North 66 degrees 09 minutes 05 seconds East 163.63 feet to the POINT OF BEGINNING, containing 7.68 acres more or less.

Exhibit "A"
"Karst Easement A"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence continuing on said south line South 89 degrees 30 minutes 53 seconds West 505.39 feet; thence leaving said south line and following on the old right-of-way of Fullerton Pike the following three (3) courses: (1) North 01 degrees 09 minutes 42 seconds West 57.41 feet; thence (2) South 89 degrees 16 minutes 53 seconds West 488.72 feet; thence (3) North 69 degrees 50 minutes 09 seconds West 215.25 feet to the east right-of-way line of State Road 37; thence following said east right of way 834.38 feet along a 5584.58 foot radius curve to the right whose chord bears North 20 degrees 08 minutes 28 seconds West 833.61 feet to the POINT OF BEGINNING; thence continuing on said east right of way 266.36 feet along a 5584.58 foot radius curve to the right whose chord bears North 14 degrees 29 minutes 40 seconds West 266.33 feet; thence leaving said east right-of-way, North 69 degrees 14 minutes 58 seconds East 65.38 feet; thence 99.33 feet along a 75.00 foot radius curve to the right whose chord bears South 69 degrees 47 minutes 12 seconds East 92.23 feet; thence South 19 degrees 19 minutes 25 seconds East 128.66 feet; thence 90.65 feet along a 100.00 foot radius curve to the right whose chord bears South 19 degrees 43 minutes 29 seconds West 90.65 feet; thence South 65 degrees 29 minutes 03 seconds West 102.22 feet to the POINT OF BEGINNING, containing 0.83 acres more or less.

Exhibit "A"
"Karst Easement B"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet, thence leaving said north line, South 04 degrees 21 minutes 56 seconds West 231.89 feet, thence South 41 degrees 22 minutes 46 seconds West 96.09 feet to the POINT OF BEGINNING; thence North 54 degrees 42 minutes 31 seconds west 239.53 feet; thence South 40 degrees 17 minutes 55 seconds West 113.89 feet; thence South 42 degrees 50 minutes 38 seconds East 237.24 feet; thence North 41 degrees 22 minutes 46 seconds East 163.15 feet to the POINT OF BEGINNING, containing 0.75 acres more or less.

Exhibit "A"
"Karst Easement C"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 227.30 feet to the POINT OF BEGINNING; thence continuing along said north line South 89 degrees 56 minutes 28 seconds West 123.29 feet; thence South 34 degrees 53 minutes 29 seconds East 148.62 feet; thence North 55 degrees 47 minutes 03 seconds East 102.05 feet; thence North 35 degrees 30 minutes 02 seconds West 79.41 feet to the POINT OF BEGINNING, containing 0.27 acres more or less.

Exhibit "A"
"Karst Easement D"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet, thence leaving said north line, South 04 degrees 21 minutes 56 seconds West 143.21 feet to the POINT OF BEGINNING; thence South 52 degrees 42 minutes 22 seconds West 131.34 feet; thence South 37 degrees 12 minutes 37 seconds East 80.78 feet; thence North 41 degrees 22 minutes 46 seconds East 73.95 feet; thence North 04 degrees 21 minutes 56 seconds East 88.69 feet to the POINT OF BEGINNING, containing 0.17 acres more or less.

Exhibit "A"
"Karst Easement E"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds West 610.40 feet, thence leaving said east line South 86 degrees 18 minutes 32 seconds West 320.63 feet to the POINT OF BEGINNING; thence North 02 degrees 01 minutes 59 seconds West 131.01 feet; thence South 88 degrees 52 minutes 18 seconds West 123.52 feet; thence South 02 degrees 30 minutes 11 seconds East 120.91 feet; thence South 86 degrees 24 minutes 33 seconds East 123.11 feet to the POINT OF BEGINNING, containing 0.36 acres more or less.

53-08-18-300-001.000-009

Brown, Bill C Revocable Trust

S State Road 37

100, Vacant Land

64 PERRY CITY - BASE - C 1/2

General Information

Parcel Number 53-08-18-300-001.000-009
Local Parcel Number 015-02520-01
Tax ID:

Ownership

Brown, Bill C Revocable Trust
300 S State Road 446
Bloomington, IN 47401

Transfer of Ownership

Table with columns: Date, Owner, Doc ID, Code, Book/Page, Adj Sale Price, V/I. Rows show transfer dates from 06/07/2021 to 01/01/1900.

Legal

PT SW 18-8-1W 87.12 A Plat 11

Routing Number

18.01 -0003.000

Property Class 100

Vacant Land



Agricultural

Year: 2022

Location Information

County Monroe
Township PERRY TOWNSHIP
District 009 (Local 009) BLOOMINGTON CITY-PERRY TO

School Corp 5740 MONROE COUNTY COMMUNITY

Neighborhood 53009180-009 64 PERRY CITY - BASE - COM - A

Section/Plat 18

Location Address (1) S State Road 37 Bloomington, IN 47403

Zoning

Subdivision

Lot

Market Model N/A

Characteristics

Topography Level Flood Hazard

Public Utilities All ERA

Streets or Roads Paved TIF

Neighborhood Life Cycle Stage Other

Printed Monday, April 11, 2022

Review Group 2020

Valuation Records (Work In Progress values are not certified values and are subject to change)

Table with columns: Assessment Year, Reason For Change, As Of Date, Valuation Method, Equalization Factor, Notice Required, Land, Land Res (1), Land Non Res (2), Land Non Res (3), Improvement, Imp Res (1), Imp Non Res (2), Imp Non Res (3), Total, Total Res (1), Total Non Res (2), Total Non Res (3). Rows show values for years 2022, 2021, 2020, 2019, 2018.

Land Data (Standard Depth: Res 100', CI 100' Base Lot: Res 0' X 0', CI 0' X 0')

Table with columns: Land Type, Pricing Method, Soil ID, Act Front., Size, Factor, Rate, Adj. Rate, Ext. Value, Infl. %, Res Elig %, Market Factor, Value. Rows show land data for various lots and parcels.

Notes

6/9/2021 ADDRESS CHANGE: 21/22 UPDATED MAILING ADDRESS VIA INTEGRATION, 06/09/21, MIG

6/8/2021 NO SALES DISCLOSURE FORM: 6/7/2021, MISCELLANEOUS, NO SDF, \$0, NAME CHANGE AFFIDAVIT, AG

8/14/2019 2020-- FIELD REVIEW: 20/21 NO CHANGE, 4/16/19, KS/CM

2/4/2016 2016--FIELD REVIEW: 16/17 REASSESSMENT - NO CHANGE. JH/KS 2/1/16

1/7/2016 TIF: STATE TIF DISTRICT 030 - PC-FULLERTON PIKE

12/31/2014 2015-SOIL UPDATE: 2015---LAND SOIL UPDATE. 12/31/14 SJ

8/14/2014 SURVEY: 14/15: SURVEY TAKING 3.77A FOR I69 ROW, \$360K, CERTIFICATION OF PAYMENT. AS OF 1/27/2014. AF

10/19/2011 2012 - REASSESSMENT: 12pay13 no change 9/22/11 ks tp

1/1/1900 : 08SD 2008 SALES DISCLOSURE INVALID SALE, SINGLE PARCEL, EXISTENCE BETWEEN FAMILY, QUITCLAIM DEED, 4-4-2008 \$0 11-17-2008

Land Computations

Table with columns: Land Computations, Value. Rows include Calculated Acreage (87.12), Actual Frontage (0), Developer Discount, Parcel Acreage (87.12), 81 Legal Drain NV (0.00), 82 Public Roads NV (0.00), 83 UT Towers NV (0.00), 9 Homesite (0.00), 91/92 Acres (0.00), Total Acres Farmland (87.12), Farmland Value (\$65,940), Measured Acreage (87.12), Avg Farmland Value/Acre (757), Value of Farmland (\$65,950), Classified Total (\$0), Farm / Classified Value (\$66,000), Homesite(s) Value (\$0), 91/92 Value (\$0), Supp. Page Land Value, CAP 1 Value (\$0), CAP 2 Value (\$66,000), CAP 3 Value (\$0), Total Value (\$66,000).

Data Source N/A

Collector 04/16/2019 KS

Appraiser 08/14/2019 CM

ATTACHMENT 4

Monroe County - West Fullerton Pike Phase I ESA

South State Road 37

Bloomington, IN 47403

Inquiry Number: 7068910.2s

August 10, 2022

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	15
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

SOUTH STATE ROAD 37
BLOOMINGTON, IN 47403

COORDINATES

Latitude (North): 39.1262180 - 39° 7' 34.38"
Longitude (West): 86.5694540 - 86° 34' 10.03"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 537216.4
UTM Y (Meters): 4330663.5
Elevation: 821 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 13159151 BLOOMINGTON, IN
Version Date: 2019

South Map: 13171400 CLEAR CREEK, IN
Version Date: 2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140705
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
SOUTH STATE ROAD 37
BLOOMINGTON, IN 47403

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	INDIANA QUARRIES & C		US MINES	Lower	1080, 0.205, ESE
2	C & H STONE CO INC /	4000 ROCKPORT ROAD	US MINES	Lower	1260, 0.239, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

SHWS..... List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

Lists of state and tribal landfills and solid waste disposal facilities

OPEN DUMPS..... Open Dump Waste Sites
SWF/LF..... Permitted Solid Waste Facilities

Lists of state and tribal leaking storage tanks

LUST..... Lust Leaking Underground Storage Tank List
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Indiana Registered Underground Storage Tanks
AST..... Above Ground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL..... Sites with Restrictions

Lists of state and tribal voluntary cleanup sites

SCP..... State Cleanup Program Sites
VCP..... Voluntary Remediation Program Site List
INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE..... Waste Tire Sites Listing
SWRCY..... Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory

EXECUTIVE SUMMARY

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Clandestine Drug Lab Listing
DEL SHWS..... Deleted Commissioner's Bulletin Sites List
US CDL..... National Clandestine Laboratory Register
PFAS..... Per- and Polyfluoroalkyl Substances

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Spills Incidents
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem

EXECUTIVE SUMMARY

ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
AIRS.....	Permitted Sources & Emissions Listing
ASBESTOS.....	Asbestos Notification Listing
BULK.....	Registered Bulk Fertilizer and Pesticide Storage Facilities
CFO.....	Confined Feeding Operations
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaner Facility Listing
Financial Assurance.....	Financial Assurance Information Listing
IND WASTE.....	Industrial Waste Sites Listing
MANIFEST.....	Hazardous Waste Manifest Data
NPDES.....	NPDES Permit Listing
OISC.....	Office of Indiana State Chemist Database
TIER 2.....	Tier 2 Facility Listing
UIC.....	UIC Site Listing
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

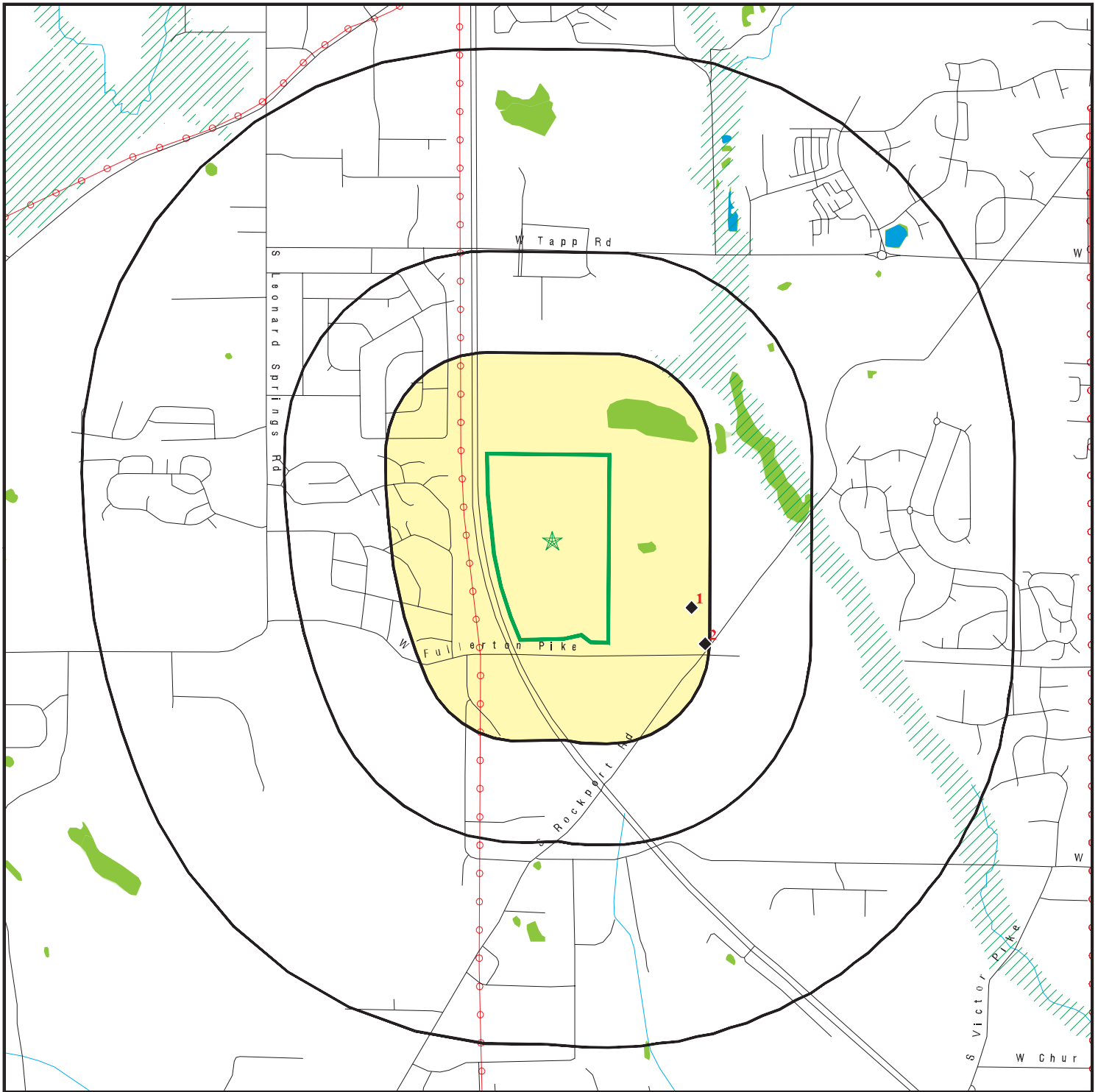
A review of the US MINES list, as provided by EDR, has revealed that there are 2 US MINES sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INDIANA QUARRIES & C Database: US MINES, Date of Government Version: 05/02/2022 Mine ID:: 1202280		ESE 1/8 - 1/4 (0.205 mi.)	1	8
C & H STONE CO INC /	4000 ROCKPORT ROAD	ESE 1/8 - 1/4 (0.239 mi.)	2	8
Database: MINES VIOLATIONS, Date of Government Version: 03/21/2022				

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7068910.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

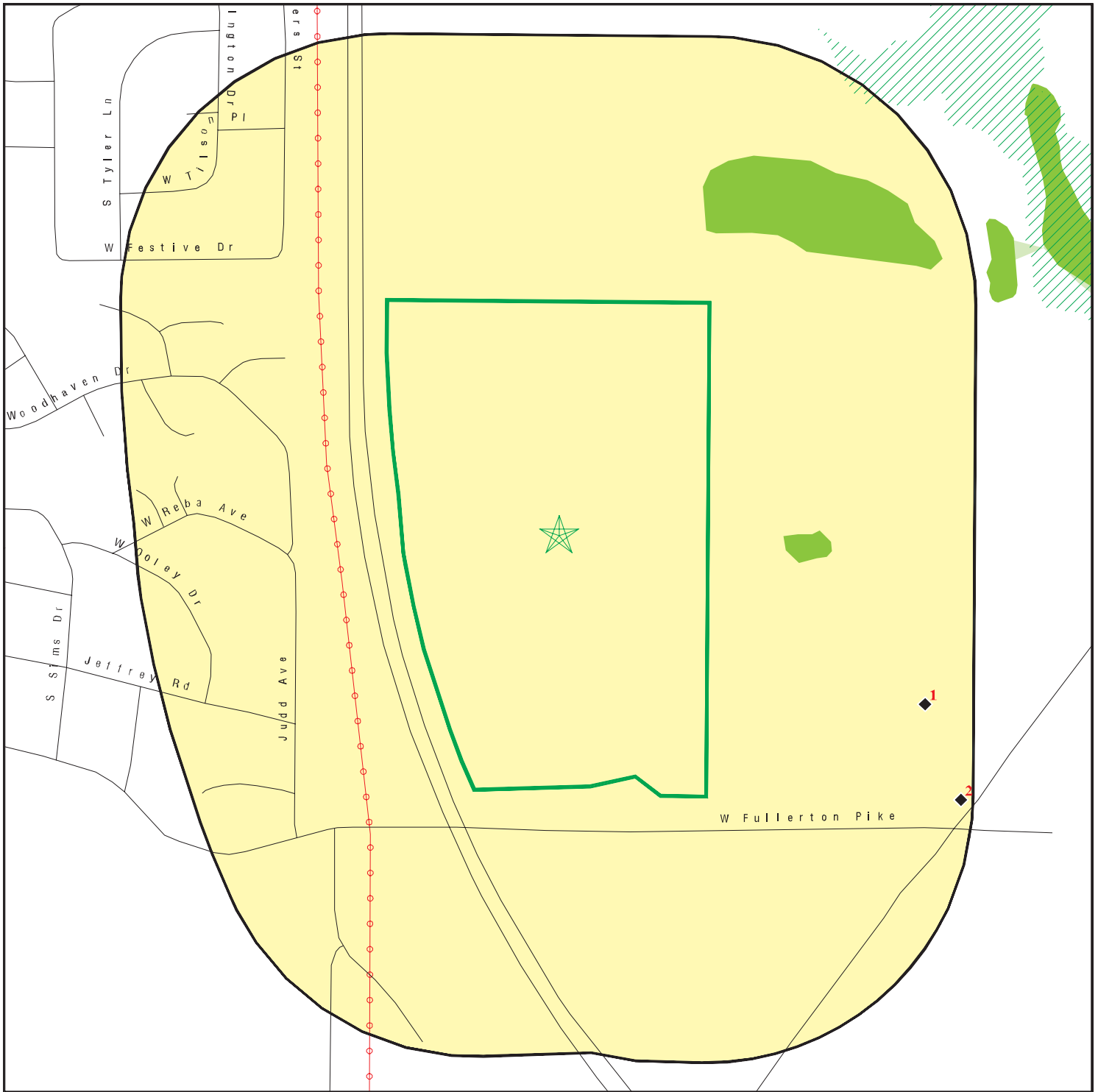
State Wetlands








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.







SITE NAME: Monroe County - West Fullerton Pike Phase I ESA
 ADDRESS: South State Road 37
 Bloomington IN 47403
 LAT/LONG: 39.126218 / 86.569454

CLIENT: VET Environmental Engineering, LLC
 CONTACT: Rene Lloyd
 INQUIRY #: 7068910.2s
 DATE: August 10, 2022 10:01 am

DETAIL MAP - 7068910.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Monroe County - West Fullerton Pike Phase I ESA
 ADDRESS: South State Road 37
 Bloomington IN 47403
 LAT/LONG: 39.126218 / 86.569454

CLIENT: VET Environmental Engineering, LLC
 CONTACT: Rene Lloyd
 INQUIRY #: 7068910.2s
 DATE: August 10, 2022 10:01 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
OPEN DUMPS	0.500		0	0	0	NR	NR	0
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.125		0	NR	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
AUL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
SCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	2	NR	NR	NR	2
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
BULK	0.250		0	0	NR	NR	NR	0
CFO	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
IND WASTE	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
OISC	0.250		0	0	NR	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	2	0	0	0	2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1 **INDIANA QUARRIES & CARVERS LLC**
ESE
1/8-1/4 **MONROE (County), IN**
0.205 mi.
1080 ft.

US MINES **1011146727**
N/A

Relative: US MINES:
Lower Sic Code(s): 141102
 Sic Code(s): 000000
Actual: Sic Code(s): 000000
722 ft. Sic Code(s): 000000
 Sic Code(s): 000000
 Sic Code(s): 000000
 Mine ID: 1202280
 Entity Name: INDIANA QUARRIES & CARVERS SOUTH
 Company: INDIANA QUARRIES & CARVERS LLC
 Status: Permanently Abandoned
 Status Date: 20210716
 Operation Class: 2
 Number of Shops: 0
 Number of Plants: 0
 Latitude Degree: 39
 Longitude Degree: 086
 Latitude Minute: 07
 Latitude Seconds: 26
 Longitude Minutes: 33
 Longitude Seconds: 47
 Number of Pits: 000

2 **C & H STONE CO INC / MAPLE HILL QUARRIES**
ESE
1/8-1/4 **4000 ROCKPORT ROAD**
0.239 mi. **BLOOMINGTON, IN 47403**
1260 ft.

US MINES **1024909609**
N/A

Relative: MINES VIOLATIONS:
Lower Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Actual: Address: 4000 ROCKPORT ROAD
741 ft. City,State,Zip: BLOOMINGTON, IN 47403
 Facility ID: Not reported

MINES VIOLATIONS:
 Violation Number: 9446831
 Mine ID: 1202280
 Contractor ID: Not reported
 Date Issued: 3/30/2021
 Action Type: 104(a)
 Type of Issue: Citation
 S and S: N
 Term Date: 3/30/2021
 Title 30 Code of Federal Regulations: 56.14207
 Proposed Penalty: 125.00
 Assessment Amount: 125.00
 Paid Penalty Amount: 125.00
 Assessment Case Status: Not reported
 Assessment Status: Proposed
 Year: 2021
 Address Type: MineLocation
 PO Box: Not reported
 Address: 4000 ROCKPORT ROAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

City: BLOOMINGTON
State: IN
Operator: Indiana Quarries & Carvers LLC
Zip: 47403
Mine Controller Name: Michael Stigler; John Steckling
Name: INDIANA QUARRIES & CARVERS SOUTH
Ownership Date: 7/23/2018
Mine Status: Intermittent
Status Date: 7/23/2018
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 9446832
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 3/30/2021
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 3/30/2021
Title 30 Code of Federal Regulations: 46.8(a)(2)
Proposed Penalty: 125.00
Assessment Amount: 125.00
Paid Penalty Amount: 125.00
Assessment Case Status: Not reported
Assessment Status: Proposed
Year: 2021
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: Indiana Quarries & Carvers LLC
Zip: 47403
Mine Controller Name: Michael Stigler; John Steckling
Name: INDIANA QUARRIES & CARVERS SOUTH
Ownership Date: 7/23/2018
Mine Status: Intermittent
Status Date: 7/23/2018
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6157726
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 04/12/2006
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 04/12/2006
Title 30 Code of Federal Regulations: 56.18002(b)
Proposed Penalty: 60.00
Assessment Amount: 60.00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2006
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: C & H Stone Co., Inc.
Zip: 47403
Mine Controller Name: Lowell E Helton; Jack L Chaney
Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date: 12/30/2003
Mine Status: Abandoned
Status Date: 04/19/2007
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6173687
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 11/29/2006
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 12/12/2006
Title 30 Code of Federal Regulations: 56.14100(b)
Proposed Penalty: 60.00
Assessment Amount: 60.00
Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2006
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: C & H Stone Co., Inc.
Zip: 47403
Mine Controller Name: Lowell E Helton; Jack L Chaney
Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date: 12/30/2003
Mine Status: Abandoned
Status Date: 04/19/2007
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6172444
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 08/11/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 08/15/2005
Title 30 Code of Federal Regulations: 56.12040
Proposed Penalty: 60.00
Assessment Amount: 60.00
Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2005
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: C & H Stone Co., Inc.
Zip: 47403
Mine Controller Name: Lowell E Helton; Jack L Chaney
Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date: 12/30/2003
Mine Status: Abandoned
Status Date: 04/19/2007
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6172445
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 08/11/2005
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 08/17/2005
Title 30 Code of Federal Regulations: 56.14101(a)(2)
Proposed Penalty: 60.00
Assessment Amount: 60.00
Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2005
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: C & H Stone Co., Inc.
Zip: 47403
Mine Controller Name: Lowell E Helton; Jack L Chaney
Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date: 12/30/2003
Mine Status: Abandoned
Status Date: 04/19/2007
Primary Site Description: Dimension Limestone
Mine Type: Surface

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

State 2:	IN
County:	MONROE
Violation Number:	9443222
Mine ID:	1202280
Contractor ID:	Not reported
Date Issued:	3/17/2020
Action Type:	104(a)
Type of Issue:	Citation
S and S:	Y
Term Date:	3/18/2020
Title 30 Code of Federal Regulations:	56.12004
Proposed Penalty:	378.00
Assessment Amount:	378.00
Paid Penalty Amount:	378.00
Assessment Case Status:	Not reported
Assessment Status:	Proposed
Year:	2020
Address Type:	MineLocation
PO Box:	Not reported
Address:	4000 ROCKPORT ROAD
City:	BLOOMINGTON
State:	IN
Operator:	Indiana Quarries & Carvers LLC
Zip:	47403
Mine Controller Name:	Michael Stigler; John Steckling
Name:	INDIANA QUARRIES & CARVERS SOUTH
Ownership Date:	7/23/2018
Mine Status:	Intermittent
Status Date:	7/23/2018
Primary Site Description:	Dimension Limestone
Mine Type:	Surface
State 2:	IN
County:	MONROE
Violation Number:	9443223
Mine ID:	1202280
Contractor ID:	Not reported
Date Issued:	3/17/2020
Action Type:	104(a)
Type of Issue:	Citation
S and S:	N
Term Date:	3/18/2020
Title 30 Code of Federal Regulations:	56.9300(b)
Proposed Penalty:	123.00
Assessment Amount:	123.00
Paid Penalty Amount:	123.00
Assessment Case Status:	Not reported
Assessment Status:	Proposed
Year:	2020
Address Type:	MineLocation
PO Box:	Not reported
Address:	4000 ROCKPORT ROAD
City:	BLOOMINGTON
State:	IN
Operator:	Indiana Quarries & Carvers LLC
Zip:	47403

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

Mine Controller Name: Michael Stigler; John Steckling
Name: INDIANA QUARRIES & CARVERS SOUTH
Ownership Date: 7/23/2018
Mine Status: Intermittent
Status Date: 7/23/2018
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6170624
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 04/28/2004
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 09/09/2004
Title 30 Code of Federal Regulations: 56.14101(a)(2)
Proposed Penalty: 60.00
Assessment Amount: 60.00
Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2004
Address Type: MineLocation
PO Box: Not reported
Address: 4000 ROCKPORT ROAD
City: BLOOMINGTON
State: IN
Operator: C & H Stone Co., Inc.
Zip: 47403

Mine Controller Name: Lowell E Helton; Jack L. Chaney
Name: C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date: 12/30/2003
Mine Status: Abandoned
Status Date: 04/19/2007
Primary Site Description: Dimension Limestone
Mine Type: Surface
State 2: IN
County: MONROE

Violation Number: 6156795
Mine ID: 1202280
Contractor ID: Not reported
Date Issued: 03/08/2004
Action Type: 104(a)
Type of Issue: Citation
S and S: N
Term Date: 03/09/2004
Title 30 Code of Federal Regulations: 56.14132(a)
Proposed Penalty: 60.00
Assessment Amount: 60.00
Paid Penalty Amount: 60.00
Assessment Case Status: Proposed
Assessment Status: Closed
Year: 2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C & H STONE CO INC / MAPLE HILL QUARRIES (Continued)

1024909609

Address Type:	MineLocation
PO Box:	Not reported
Address:	4000 ROCKPORT ROAD
City:	BLOOMINGTON
State:	IN
Operator:	C & H Stone Co., Inc.
Zip:	47403
Mine Controller Name:	Lowell E Helton; Jack L Chaney
Name:	C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date:	12/30/2003
Mine Status:	Abandoned
Status Date:	04/19/2007
Primary Site Description:	Dimension Limestone
Mine Type:	Surface
State 2:	IN
County:	MONROE
Violation Number:	6156796
Mine ID:	1202280
Contractor ID:	Not reported
Date Issued:	03/09/2004
Action Type:	104(a)
Type of Issue:	Citation
S and S:	N
Term Date:	04/28/2004
Title 30 Code of Federal Regulations:	62.130(a)
Proposed Penalty:	60.00
Assessment Amount:	60.00
Paid Penalty Amount:	60.00
Assessment Case Status:	Proposed
Assessment Status:	Closed
Year:	2004
Address Type:	MineLocation
PO Box:	Not reported
Address:	4000 ROCKPORT ROAD
City:	BLOOMINGTON
State:	IN
Operator:	C & H Stone Co., Inc.
Zip:	47403
Mine Controller Name:	Lowell E Helton; Jack L Chaney
Name:	C & H STONE CO INC / MAPLE HILL QUARRIES
Ownership Date:	12/30/2003
Mine Status:	Abandoned
Status Date:	04/19/2007
Primary Site Description:	Dimension Limestone
Mine Type:	Surface
State 2:	IN
County:	MONROE

[Click this hyperlink](#) while viewing on your computer to access
5 additional US_MINES_VIOLATIONS: record(s) in the EDR Site Report.

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: N/A
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2022	Source: EPA
Date Data Arrived at EDR: 05/05/2022	Telephone: 800-424-9346
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2022	Telephone: 843-820-7326
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/03/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/04/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/15/2022

Telephone: 202-267-2180

Date Made Active in Reports: 06/21/2022

Last EDR Contact: 06/15/2022

Number of Days to Update: 6

Next Scheduled EDR Contact: 10/03/2022

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

List of hazardous waste response sites scored utilizing the Indiana Scoring Model. The Indiana Scoring Model is a method of prioritizing, for state response actions, those hazardous substances response sites which are not on the National Priorities List. The ISM serves as the Commissioners management tool to address those sites which pose the most significant threat to human health and the environment in addition to assuring the departments resources are allocated accordingly.

Date of Government Version: 03/01/2007

Source: Department of Environmental Management

Date Data Arrived at EDR: 08/27/2007

Telephone: 317-308-3052

Date Made Active in Reports: 09/18/2007

Last EDR Contact: 05/20/2022

Number of Days to Update: 22

Next Scheduled EDR Contact: 09/05/2022

Data Release Frequency: No Update Planned

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/20/2022

Source: Department of Environmental Management

Date Data Arrived at EDR: 03/09/2022

Telephone: 317-232-0066

Date Made Active in Reports: 06/02/2022

Last EDR Contact: 06/10/2022

Number of Days to Update: 85

Next Scheduled EDR Contact: 09/19/2022

Data Release Frequency: Semi-Annually

OPEN DUMPS: Open Dump Waste Sites

Open Dumps are sites that are not regulated and are illegal dump sites of solid waste, as defined by IAC 10-2-28 329 and IAC 10-2-128 of the Indiana Administrative Code.

Date of Government Version: 06/26/2009

Source: Department of Environmental Management

Date Data Arrived at EDR: 12/11/2013

Telephone: 317-232-8726

Date Made Active in Reports: 01/20/2014

Last EDR Contact: 05/31/2022

Number of Days to Update: 40

Next Scheduled EDR Contact: 09/12/2022

Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LUST: LUST Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/02/2022

Source: Department of Environmental Management

Date Data Arrived at EDR: 02/23/2022

Telephone: 317-232-8900

Date Made Active in Reports: 05/19/2022

Last EDR Contact: 05/24/2022

Number of Days to Update: 85

Next Scheduled EDR Contact: 09/05/2022

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-6597
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021	Source: EPA, Region 5
Date Data Arrived at EDR: 11/15/2021	Telephone: 312-886-7439
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/15/2021	Telephone: 415-972-3372
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021	Source: EPA Region 7
Date Data Arrived at EDR: 11/15/2021	Telephone: 913-551-7003
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021	Source: EPA Region 8
Date Data Arrived at EDR: 11/15/2021	Telephone: 303-312-6271
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-8677
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021	Source: EPA Region 10
Date Data Arrived at EDR: 11/15/2021	Telephone: 206-553-2857
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

UST: Indiana Registered Underground Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/02/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/23/2022	Telephone: 317-308-3008
Date Made Active in Reports: 05/18/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks
A listing of aboveground storage tank sites that reported under the emergency rule.

Date of Government Version: 01/25/2017	Source: N/A
Date Data Arrived at EDR: 05/16/2017	Telephone: 317-232-2393
Date Made Active in Reports: 09/06/2017	Last EDR Contact: 07/26/2022
Number of Days to Update: 113	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: N/A

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 9
Date Data Arrived at EDR: 11/15/2021	Telephone: 415-972-3368
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 8
Date Data Arrived at EDR: 11/15/2021	Telephone: 303-312-6137
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 7
Date Data Arrived at EDR: 11/15/2021	Telephone: 913-551-7003
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021	Source: EPA Region 10
Date Data Arrived at EDR: 11/15/2021	Telephone: 206-553-2857
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021	Source: EPA, Region 1
Date Data Arrived at EDR: 11/15/2021	Telephone: 617-918-1313
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-7591
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-9424
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021	Source: EPA Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-6136
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

AUL: Sites with Restrictions

Activity and use limitations include both engineering controls and institutional controls. A listing of Comfort/Site Status Letter sites that have been issued with controls.

Date of Government Version: 04/21/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 05/19/2022	Telephone: 317-232-8603
Date Made Active in Reports: 05/25/2022	Last EDR Contact: 05/19/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/15/2022
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Varies

VCP: Voluntary Remediation Program Site List

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 01/11/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/13/2022	Telephone: 317-234-0966
Date Made Active in Reports: 04/05/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

SCP: State Cleanup Program Sites

The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

Date of Government Version: 01/11/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/13/2022	Telephone: 317-233-0068
Date Made Active in Reports: 04/05/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List

A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.

Date of Government Version: 02/14/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/23/2022	Telephone: 317-233-2570
Date Made Active in Reports: 05/23/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 89	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-566-2777
Date Made Active in Reports: 03/10/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 0	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Indiana.

Date of Government Version: 01/21/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/21/2022	Telephone: 317-234-4050
Date Made Active in Reports: 04/13/2022	Last EDR Contact: 07/07/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

SWTIRE: Waste Tire Sites Listing

This listing consists of Tire Sites - sites which contain tires - either for processing, for storage, or transport - as well as some illegal tire dumps, as defined by IC 13-11-2-251, IC 13-11-2-252, and IC 13-11-250.5 of the Indiana Code.

Date of Government Version: 10/19/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/04/2019	Telephone: 317-232-8726
Date Made Active in Reports: 02/08/2019	Last EDR Contact: 06/02/2022
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/21/2022
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/12/2022
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/21/2022
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug labs that have been cleaned up.

Date of Government Version: 08/29/2016	Source: Department of Environmental Management
Date Data Arrived at EDR: 10/05/2016	Telephone: 317-416-5031
Date Made Active in Reports: 10/20/2016	Last EDR Contact: 06/28/2022
Number of Days to Update: 15	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

DEL SHWS: Deleted Commissioner's Bulletin Sites List

A listing of sites deleted/removed from the Commissioner's Bulletin List

Date of Government Version: 04/03/2008	Source: Department of Environmental Management
Date Data Arrived at EDR: 04/04/2008	Telephone: 317-234-0347
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 05/20/2022
Number of Days to Update: 10	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/24/2022	Telephone: 202-307-1000
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL 2: A listing of clandestine labs reported to the Indiana State Police.

A listing of clandestine labs reported to the Indiana State Police.

Date of Government Version: 04/04/2022	Source: Indiana State Police
Date Data Arrived at EDR: 04/05/2022	Telephone: 317-234-4591
Date Made Active in Reports: 06/23/2022	Last EDR Contact: 07/05/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

PFAS: Per- and Polyfluoroalkyl Substances

A listing of Known PFAS contaminated sites in Indiana.

Date of Government Version: 01/02/2020	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/07/2020	Telephone: 317-232-8667
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 05/20/2022
Number of Days to Update: 59	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/05/2022	Telephone: 202-564-6023
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2022	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

SPILLS: Spills Incidents

Oil, hazardous, or objectionable materials that may be released to soil and water.

Date of Government Version: 01/31/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/23/2022	Telephone: 317-308-3038
Date Made Active in Reports: 05/19/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/07/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 09/11/2002	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/28/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 56	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/17/2022	Telephone: 202-528-4285
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/17/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/29/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/08/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/20/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022	Source: EPA
Date Data Arrived at EDR: 02/03/2022	Telephone: 202-564-6023
Date Made Active in Reports: 02/25/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/11/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/15/2022	Telephone: 301-415-7169
Date Made Active in Reports: 06/14/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 91	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 06/02/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/23/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/02/2022
Date Data Arrived at EDR: 05/25/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 65

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/10/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 96

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 05/18/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/05/2022	Telephone: 202-564-2280
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 07/01/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 05/19/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022	Source: EPA
Date Data Arrived at EDR: 05/17/2022	Telephone: 800-385-6164
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 05/17/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/29/2022
	Data Release Frequency: Quarterly

AIRS: Permitted Sources & Emissions Listing

Current permitted sources and emissions inventory information.

Date of Government Version: 03/01/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 03/29/2022	Telephone: 317-233-0185
Date Made Active in Reports: 06/23/2022	Last EDR Contact: 06/27/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

A listing of asbestos notification site locations.

Date of Government Version: 04/22/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 05/03/2022	Telephone: 317-233-0178
Date Made Active in Reports: 07/22/2022	Last EDR Contact: 07/19/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

BULK: Registered Bulk Fertilizer and Pesticide Storage Facilities

A listing of registered dry or liquid bulk fertilizer and pesticide storage facilities.

Date of Government Version: 04/25/2022	Source: Office of Indiana State Chemist
Date Data Arrived at EDR: 04/26/2022	Telephone: 765-494-0579
Date Made Active in Reports: 07/15/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Varies

CFO: Confined Feeding Operations

This dataset consists of Confined Feeding Operations - i.e. A swine, chicken, turkey, beef or dairy agri-business that has large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/02/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 09/21/2020
Number of Days to Update: 82

Source: Department of Environmental Management
Telephone: 317-232-8726
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: No Update Planned

COAL ASH: Coal Ash Disposal Sites

A listing of coal ash disposal site locations.

Date of Government Version: 11/19/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 16

Source: Department of Environmental Management
Telephone: 317-233-4624
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

DRYCLEANERS 2: Drycleaner and Laundry Dataset

The dry cleaner and laundry (DCaL) dataset was compiled from historical and current city directories, business directories, and telephone books with categories (and variations) including, but not limited to the following: Cleaners (i.e. Cleaners and Dryers, Cleaners and Dyers, Cleaners and Pressers, etc.), Clothes Pressers and Cleaner, Dry Cleaners, Garment Pressing and Cleaners, and, Laundries (including self-serve).

Date of Government Version: 12/10/2021
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 317-233-7696
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A list of drycleaners involved in the Indiana 5-Star Environmental Recognition Program. It is a voluntary program that ranks participating drycleaners on a scale of one to five stars. The program recognizes those drycleaners willing to do more for the environment and worker safety than the rules require. These drycleaners are going above and beyond the rules to protect the environment, their employees and their neighbors and customers.

Date of Government Version: 10/17/2017
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 04/18/2018
Number of Days to Update: 36

Source: Department of Environmental Management
Telephone: 800-988-7901
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 317-233-1052
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 04/21/2022
Number of Days to Update: 23

Source: Department of Environmental Management
Telephone: 317-233-1052
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IND WASTE: Industrial Waste Sites Listing

The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

Date of Government Version: 08/04/2015	Source: Department of Environmental Management
Date Data Arrived at EDR: 09/09/2015	Telephone: 317-232-8726
Date Made Active in Reports: 10/07/2015	Last EDR Contact: 05/31/2022
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/12/2022
	Data Release Frequency: Quarterly

IN MANIFEST: Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/02/2020	Telephone: 317-233-4624
Date Made Active in Reports: 03/05/2020	Last EDR Contact: 06/22/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Annually

NPDES: NPDES Permit Listing

A listing of active NPDES Permit Section facility locations.

Date of Government Version: 02/09/2022	Source: Department of Environmental Management
Date Data Arrived at EDR: 04/06/2022	Telephone: 317-233-0676
Date Made Active in Reports: 06/23/2022	Last EDR Contact: 07/05/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

OISC: Office of Indiana State Chemist Database

Restricted use pesticide dealers and pesticide & fertilizer applicators.

Date of Government Version: 03/01/2022	Source: Office of Indiana State Chemist & Seed
Date Data Arrived at EDR: 03/03/2022	Telephone: 765-494-1492
Date Made Active in Reports: 03/04/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Quarterly

TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 05/03/2019	Telephone: 317-233-0066
Date Made Active in Reports: 07/03/2019	Last EDR Contact: 05/20/2022
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

UIC: UIC Site Listing

A listing of class II well locations

Date of Government Version: 02/22/2022	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/23/2022	Telephone: 317-232-0045
Date Made Active in Reports: 05/19/2022	Last EDR Contact: 05/24/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014	Source: EPA
Date Data Arrived at EDR: 01/06/2015	Telephone: 202-564-2496
Date Made Active in Reports: 05/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 120	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 06/28/2022
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 05/27/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 09/05/2022
	Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A	Source: Department of Environmental Management
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A	Source: Department of Environmental Management
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A	Source: Department of Environmental Management
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing

Source: Family & Social Services Administration

Telephone: 317-232-4740

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MONROE COUNTY - WEST FULLERTON PIKE PHASE I ESA
SOUTH STATE ROAD 37
BLOOMINGTON, IN 47403

TARGET PROPERTY COORDINATES

Latitude (North): 39.126218 - 39° 7' 34.38"
Longitude (West): 86.569454 - 86° 34' 10.03"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 537216.4
UTM Y (Meters): 4330663.5
Elevation: 821 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 13159151 BLOOMINGTON, IN
Version Date: 2019

South Map: 13171400 CLEAR CREEK, IN
Version Date: 2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

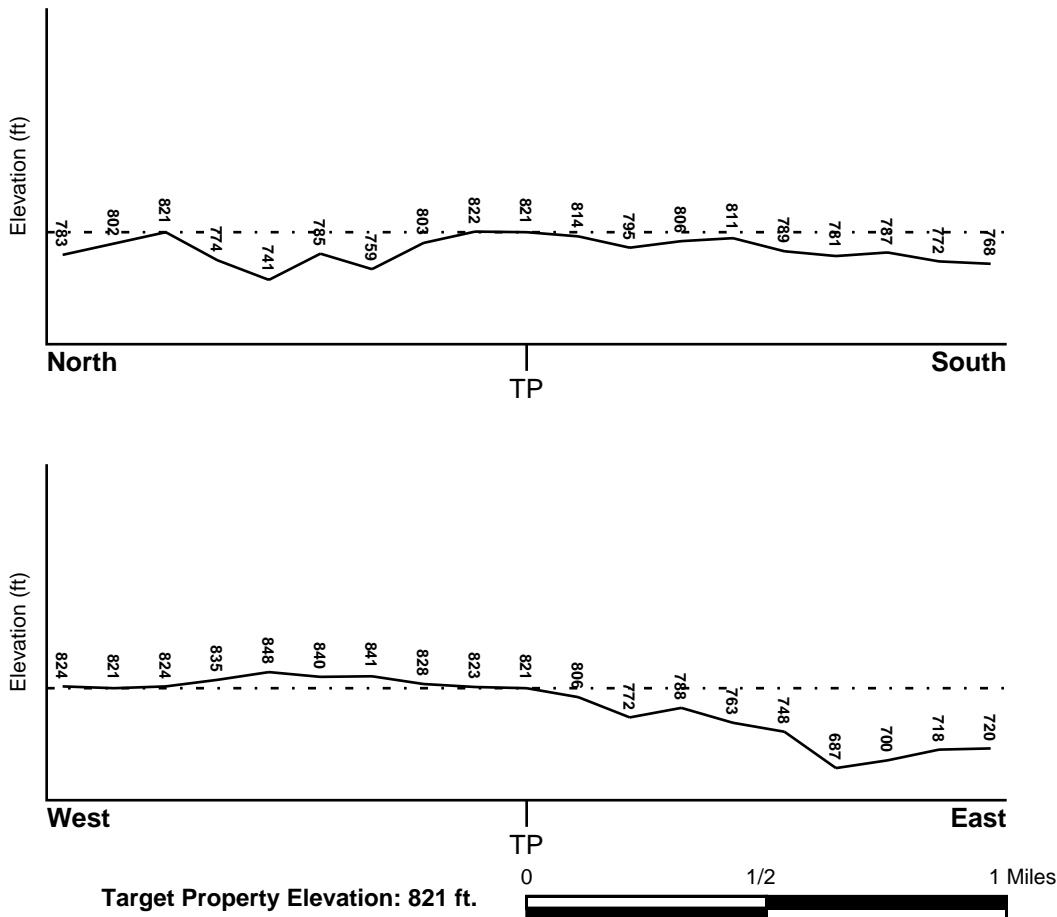
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
18105C0139D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
18105C0143D	FEMA FIRM Flood data
18105C0230D	FEMA FIRM Flood data
18105C0231D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
BLOOMINGTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

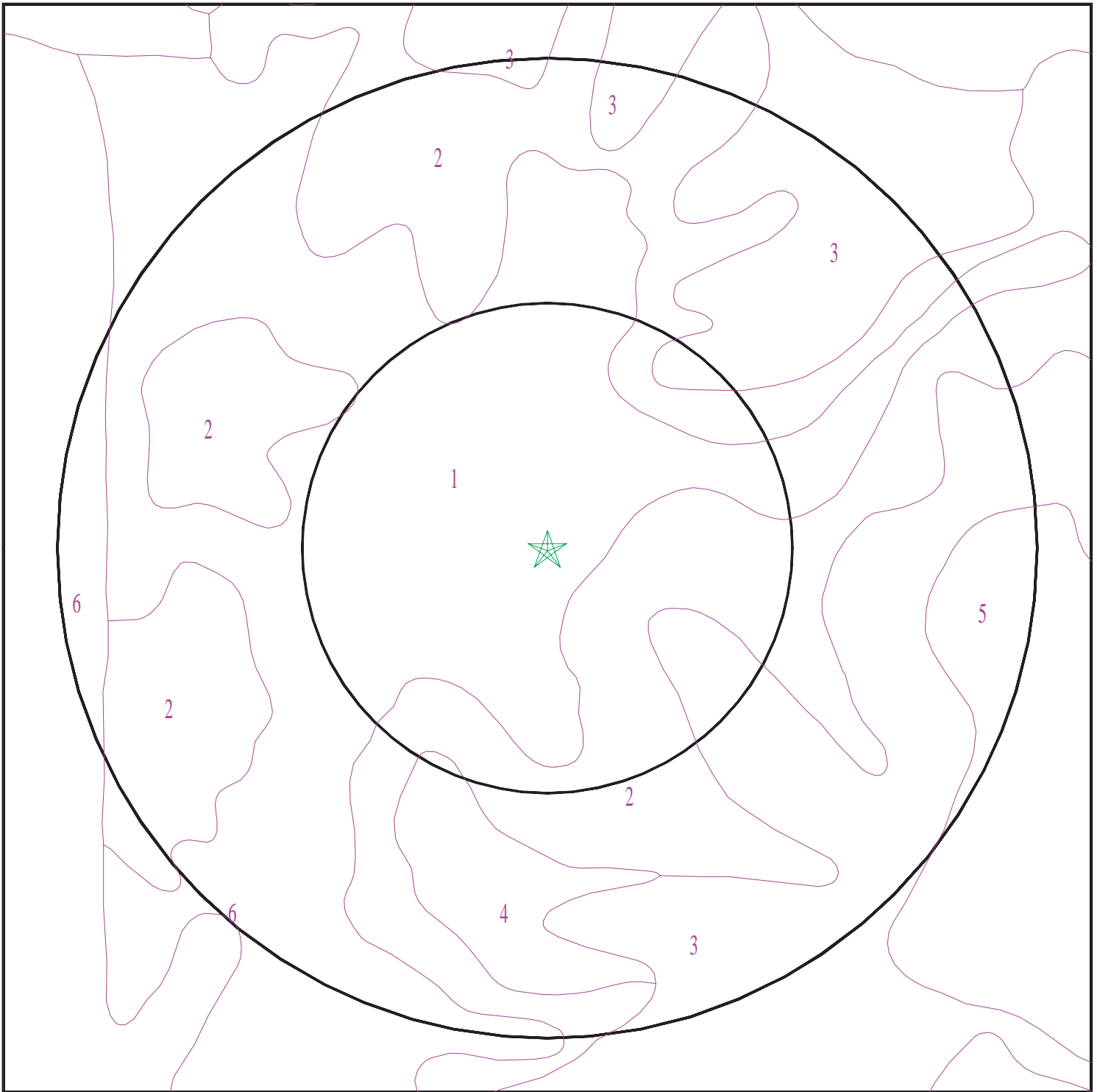
Era:	Paleozoic
System:	Mississippian
Series:	Meramecian Series
Code:	M2 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

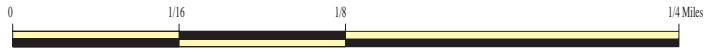
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7068910.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Monroe County - West Fullerton Pike Phase I ESA
ADDRESS: South State Road 37
Bloomington IN 47403
LAT/LONG: 39.126218 / 86.569454

CLIENT: VET Environmental Engineering, LLC
CONTACT: Rene Lloyd
INQUIRY #: 7068910.2s
DATE: August 10, 2022 10:01 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Bedford

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 1.41	Max: 5.5 Min: 3.5
2	9 inches	24 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 1.41	Max: 5.5 Min: 3.5
3	24 inches	51 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 1.41	Max: 5.5 Min: 3.5
4	51 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 1.41	Max: 5.5 Min: 3.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Crider

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 250 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
2	7 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
3	35 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5

Soil Map ID: 3

Soil Component Name: Hagerstown

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 112 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42.2 Min: 0.43	Max: Min:
2	5 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42.2 Min: 0.43	Max: Min:
3	16 inches	44 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42.2 Min: 0.43	Max: Min:
4	44 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 42.2 Min: 0.43	Max: Min:

Soil Map ID: 4

Soil Component Name: Caneyville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 91 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
2	5 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
3	9 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
4	35 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:

Soil Map ID: 5

Soil Component Name: Udorthents

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 6

Soil Component Name: Caneyville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 91 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
2	5 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
3	9 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:
4	35 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141.1 Min: 1.42	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

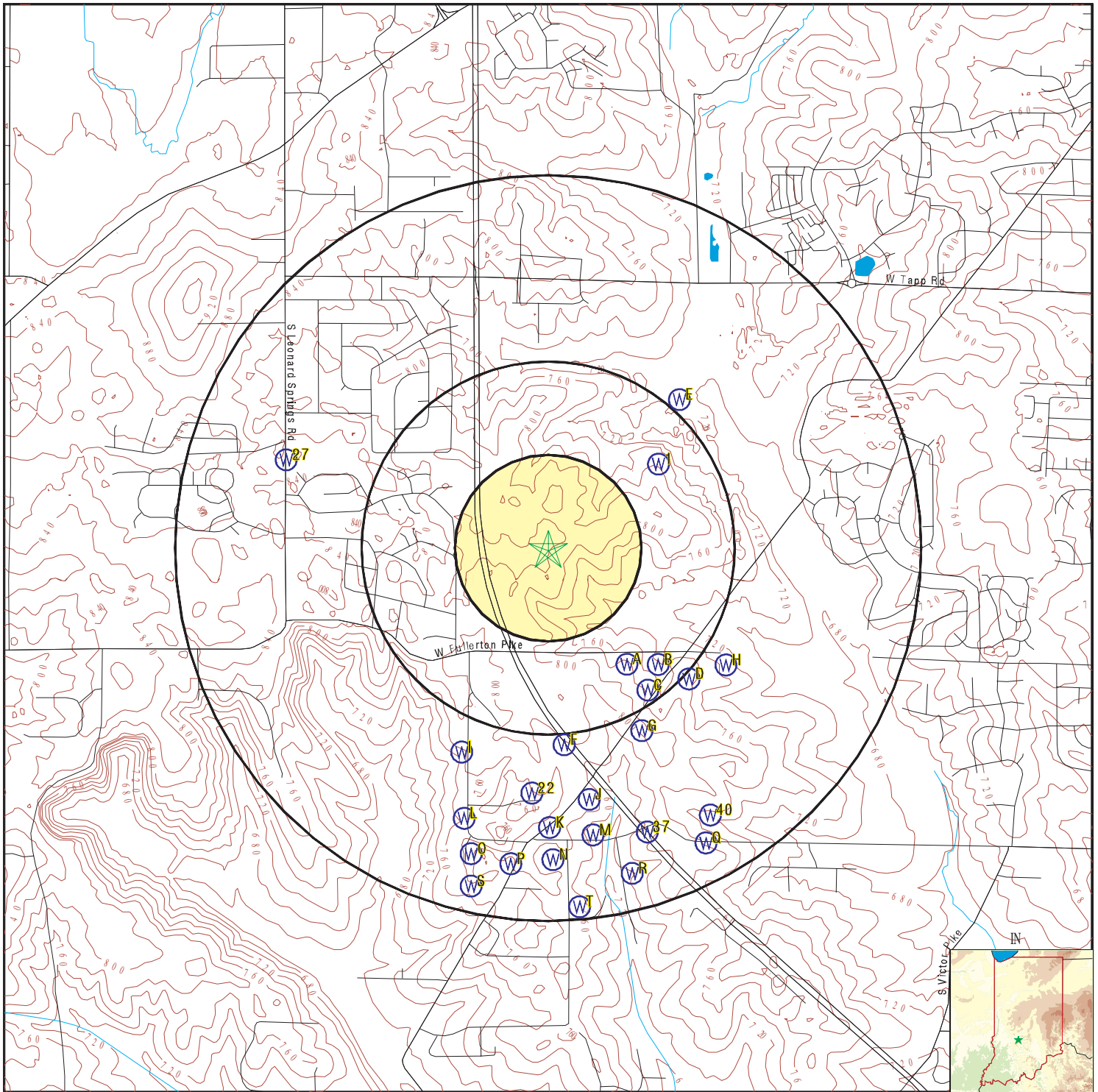
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	INDNR6000026432	1/4 - 1/2 Mile NE
A2	INDNR6000026389	1/4 - 1/2 Mile SE
A3	INLIT4000087535	1/4 - 1/2 Mile SE
B4	INDNR6000026388	1/4 - 1/2 Mile SE
B5	INLIT4000087569	1/4 - 1/2 Mile SE
C6	INDNR6000026379	1/4 - 1/2 Mile SE
C7	INLIT4000087540	1/4 - 1/2 Mile SE
D8	INDNR6000026382	1/2 - 1 Mile SE
D9	INLIT4000087520	1/2 - 1 Mile SE
E10	INLIT4000087511	1/2 - 1 Mile NE
F11	INDNR6000026376	1/2 - 1 Mile South
F12	INDNR6000026377	1/2 - 1 Mile South
E13	INDNR6000026443	1/2 - 1 Mile NE
E14	INLIT4000087515	1/2 - 1 Mile NE
E15	INDNR6000026441	1/2 - 1 Mile NE
G16	INDNR6000026378	1/2 - 1 Mile SSE
G17	INLIT4000087562	1/2 - 1 Mile SSE
H18	INDNR6000026387	1/2 - 1 Mile ESE
H19	INLIT4000087522	1/2 - 1 Mile ESE
I20	INDNR6000026375	1/2 - 1 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I21	INLIT4000092823	1/2 - 1 Mile SSW
22	INDNR6000026368	1/2 - 1 Mile South
J23	INDNR6000026367	1/2 - 1 Mile South
J24	INLIT4000087565	1/2 - 1 Mile South
K25	INDNR6000026361	1/2 - 1 Mile South
K26	INLIT4000087559	1/2 - 1 Mile South
27	INDNR6000026433	1/2 - 1 Mile WNW
K28	INDNR6000026359	1/2 - 1 Mile South
K29	INLIT4000087554	1/2 - 1 Mile South
L30	INDNR6000026362	1/2 - 1 Mile SSW
L31	INLIT4000092813	1/2 - 1 Mile SSW
K32	INDNR6000026353	1/2 - 1 Mile South
K33	INDNR6000026354	1/2 - 1 Mile South
K34	INLIT4000087574	1/2 - 1 Mile South
M35	INDNR6000026352	1/2 - 1 Mile South
M36	INLIT4000087550	1/2 - 1 Mile South
37	INDNR6000026357	1/2 - 1 Mile SSE
N38	INDNR6000026345	1/2 - 1 Mile South
N39	INLIT4000087587	1/2 - 1 Mile South
40	INDNR6000026365	1/2 - 1 Mile SSE
O41	INDNR6000026340	1/2 - 1 Mile SSW
O42	INLIT4000087594	1/2 - 1 Mile SSW
O43	INDNR6000026339	1/2 - 1 Mile SSW
O44	INLIT4000092820	1/2 - 1 Mile SSW
P45	INDNR6000026330	1/2 - 1 Mile South
P46	INLIT4000087589	1/2 - 1 Mile South
N47	INDNR6000026323	1/2 - 1 Mile South
Q48	INDNR6000026349	1/2 - 1 Mile SSE
Q49	INLIT4000087527	1/2 - 1 Mile SSE
R50	INDNR6000026326	1/2 - 1 Mile SSE
R51	INLIT4000087593	1/2 - 1 Mile SSE
S52	INDNR6000026321	1/2 - 1 Mile SSW
S53	INLIT4000087579	1/2 - 1 Mile SSW
T54	INDNR6000026314	1/2 - 1 Mile South
T55	INLIT4000087582	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 7068910.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: Monroe County - West Fullerton Pike Phase I ESA
 ADDRESS: South State Road 37
 Bloomington IN 47403
 LAT/LONG: 39.126218 / 86.569454

CLIENT: VET Environmental Engineering, LLC
 CONTACT: Rene Lloyd
 INQUIRY #: 7068910.2s
 DATE: August 10, 2022 10:01 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NE
1/4 - 1/2 Mile
Lower **IN WELLS** **INDNR6000026432**

Well Reference #:	213643	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	36	Well Depth (ft):	140
Owner:	HARLEY & MARJORIE MILLER		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	10
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	03-JAN-66	Ground Elevation:	0

A2
SE
1/4 - 1/2 Mile
Lower **IN WELLS** **INDNR6000026389**

Well Reference #:	213683	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	768
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	54	Well Depth (ft):	130
Owner:	BUTCHER		
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70
Hours Bailer Test:	0	Casing Diameter:	0
Casing Length:	7	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	21-APR-62
Ground Elevation:	775		

A3
SE
1/4 - 1/2 Mile
Lower **IN WELLS** **INLIT4000087535**

iLITH ID:	87539	Agency ID:	213683
Elevation (ft):	775	Lithological Total Depth:	130
Drilled Depth:	130	Static Water Level:	54
Completion Date:	1962-04-21 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	7

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B4
SE
 1/4 - 1/2 Mile
 Lower

IN WELLS INDNR6000026388

Well Reference #:	213728	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	5	Depth to Bedrock (ft):	725
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	100
Owner:	GLEN LANGLEY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	65
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	17.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	24-NOV-65
Ground Elevation:	740		

B5
SE
 1/4 - 1/2 Mile
 Lower

IN WELLS INLIT4000087569

iLITH ID:	87573	Agency ID:	213728
Elevation (ft):	740	Lithological Total Depth:	100
Drilled Depth:	100	Static Water Level:	0
Completion Date:	1965-11-24 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	16

C6
SE
 1/4 - 1/2 Mile
 Lower

IN WELLS INDNR6000026379

Well Reference #:	213688	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	761
Pump Type:	Not Reported	Pump Water Production (gal/min):	3
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	38	Well Depth (ft):	145
Owner:	WILLIAM L WHEELER		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	6.63	Casing Length:	21
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	145	Hours Tested:	2
Date Completed:	22-OCT-87	Ground Elevation:	770

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C7
SE
1/4 - 1/2 Mile
Lower

IN WELLS INLIT4000087540

iLITH ID:	87544	Agency ID:	213688
Elevation (ft):	770	Lithological Total Depth:	145
Drilled Depth:	145	Static Water Level:	38
Completion Date:	1987-10-22 00:00:00	Driller Name:	Scott - Frederick
Record Source:	IDNR	Bedrock Depth:	9

D8
SE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026382

Well Reference #:	213658	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	3.5	Depth to Bedrock (ft):	760
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	51	Well Depth (ft):	140
Owner:	RODNEY VANPELT	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	5.63
Casing Length:	12	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	18-SEP-72
Ground Elevation:	770		

D9
SE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087520

iLITH ID:	87524	Agency ID:	213658
Elevation (ft):	770	Lithological Total Depth:	140
Drilled Depth:	140	Static Water Level:	51
Completion Date:	1972-09-18 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	10

E10
NE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087511

iLITH ID:	87515	Agency ID:	213648
Elevation (ft):	720	Lithological Total Depth:	80
Drilled Depth:	80	Static Water Level:	30
Completion Date:	1964-04-18 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	9

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F11
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026376

Well Reference #:	213693	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	60	Well Depth (ft):	120
Owner:	OLLIVER LINTHICOM		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	50	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	43
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	20-JUL-67	Ground Elevation:	0

F12
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026377

Well Reference #:	213698	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	31	Well Depth (ft):	105
Owner:	THOMAS LANGLEY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	12	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	12-AUG-71
Ground Elevation:	0		

E13
NE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026443

Well Reference #:	213648	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	710
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	30	Well Depth (ft):	80
Owner:	WOOLERY STONE CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	45	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	9.5
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	18-APR-64	Ground Elevation:	720

E14
NE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087515

iLITH ID:	87519	Agency ID:	213653
Elevation (ft):	720	Lithological Total Depth:	65
Drilled Depth:	65	Static Water Level:	20
Completion Date:	1961-06-20 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	12

E15
NE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026441

Well Reference #:	213653	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	10	Depth to Bedrock (ft):	708
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	20	Well Depth (ft):	65
Owner:	WOOLERY STONE CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	35	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	13.5
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	20-JUN-61	Ground Elevation:	720

G16
SSE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026378

Well Reference #:	213718	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	10	Depth to Bedrock (ft):	724
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	90	Well Depth (ft):	120
Owner:	KENNETH JOHNSON		
PLSS Reserve Name:	Not Reported	PLSS Survey Reserve #:	0
Hours Bailer Test:	0	Drawdown after Bailer:	20
Casing Length:	77	Casing Diameter:	6
Depth to Grout:	0	Casing Material:	Not Reported
Liner Diameter (in):	0	Grout Method:	Not Reported
Depth of Pump Setting:	0	Liner Length (ft):	0
Hours Tested:	0	Pump Test Drawdown (ft):	0
Ground Elevation:	800	Date Completed:	23-APR-69

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

G17
SSE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087562

iLITH ID:	87566	Agency ID:	213718
Elevation (ft):	800	Lithological Total Depth:	120
Drilled Depth:	120	Static Water Level:	90
Completion Date:	1969-04-23 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	76

H18
ESE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026387

Well Reference #:	213663	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	.5	Depth to Bedrock (ft):	724
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	40	Well Depth (ft):	110
Owner:	ROBERT VAUGHT	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	7.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	30-SEP-64
Ground Elevation:	730		

H19
ESE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087522

iLITH ID:	87526	Agency ID:	213663
Elevation (ft):	730	Lithological Total Depth:	110
Drilled Depth:	110	Static Water Level:	40
Completion Date:	1964-09-30 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	6

I20
SSW
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026375

Well Reference #:	222742	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	12	Depth to Bedrock (ft):	760
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	90	Well Depth (ft):	140
Owner:	ASSOCIATE BLDRS. C. ROTHROCK		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drawdown after Bailer:	40	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	25
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	28-MAR-62	Ground Elevation:	785

I21
SSW
1/2 - 1 Mile
Lower

IN WELLS INLIT4000092823

iLITH ID:	92827	Agency ID:	222742
Elevation (ft):	785	Lithological Total Depth:	140
Drilled Depth:	140	Static Water Level:	90
Completion Date:	1962-03-28 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	25

22
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026368

Well Reference #:	27137	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	30
Screen Length (ft):	160	Screen Diameter:	4.5
Static Water Level:	75	Well Depth (ft):	185
Owner:	ROBERT WEINHEIMER		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	34
Casing Material:	PVC	Depth to Grout:	0
Grout Method:	BNSL	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	1
Date Completed:	28-JAN-93	Ground Elevation:	0

J23
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026367

Well Reference #:	213723	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	4	Depth to Bedrock (ft):	763
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	75	Well Depth (ft):	170
Owner:	STIGALL	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	164
Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	27	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Tested: 0 Date Completed: 08-SEP-64
 Ground Elevation: 790

J24
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087565

iLITH ID:	87569	Agency ID:	213723
Elevation (ft):	790	Lithological Total Depth:	170
Drilled Depth:	170	Static Water Level:	75
Completion Date:	1964-09-08 00:00:00	Driller Name:	English & Son
Record Source:	IDNR	Bedrock Depth:	27

K25
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026361

Well Reference #:	213713	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	4.5	Depth to Bedrock (ft):	769
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	70	Well Depth (ft):	140
Owner:	CONNIE DAVIS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	5
Hours Bailer Test:	1	Casing Diameter:	6
Casing Length:	20	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	20
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	12-AUG-64
Ground Elevation:	785		

K26
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087559

iLITH ID:	87563	Agency ID:	213713
Elevation (ft):	785	Lithological Total Depth:	140
Drilled Depth:	140	Static Water Level:	70
Completion Date:	1964-08-12 00:00:00	Driller Name:	Scott - Frederick
Record Source:	IDNR	Bedrock Depth:	16

27
WNW
1/2 - 1 Mile
Higher

IN WELLS INDNR6000026433

Well Reference #:	427266	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	30
Screen Length (ft):	5	Screen Diameter:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Static Water Level:	34	Well Depth (ft):	57
Owner:	Rita Heyob	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	52	Casing Material:	PVC
Depth to Grout:	45	Grout Method:	Bentonite
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	45	Pump Test Drawdown (ft):	0
Hours Tested:	1	Date Completed:	01-SEP-11
Ground Elevation:	0		

K28
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026359

Well Reference #:	213708	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	2	Depth to Bedrock (ft):	738
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	45	Well Depth (ft):	132
Owner:	PAUL COHOON	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	125
Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	22	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	21-APR-65
Ground Elevation:	760		

K29
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087554

iLITH ID:	87558	Agency ID:	213708
Elevation (ft):	760	Lithological Total Depth:	132
Drilled Depth:	132	Static Water Level:	45
Completion Date:	1965-04-21 00:00:00	Driller Name:	English & Son
Record Source:	IDNR	Bedrock Depth:	22

L30
SSW
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026362

Well Reference #:	222727	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	692
Pump Type:	Not Reported	Pump Water Production (gal/min):	.5
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	130
Owner:	LEROY ROTHROCK	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	0
Casing Length:	0	Casing Material:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	8
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	Not Reported
Ground Elevation:	700		

L31
SSW
1/2 - 1 Mile
Lower

IN WELLS INLIT4000092813

iLITH ID:	92817	Agency ID:	222727
Elevation (ft):	700	Lithological Total Depth:	130
Drilled Depth:	130	Static Water Level:	0
Completion Date:	Not Reported	Driller Name:	Snapps Drilling Co.
Record Source:	IDNR	Bedrock Depth:	8

K32
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026353

Well Reference #:	213733	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	5	Depth to Bedrock (ft):	757
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	70	Well Depth (ft):	150
Owner:	JAMES GOAD	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	1	Casing Diameter:	6
Casing Length:	27	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	27
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	05-NOV-64
Ground Elevation:	780		

K33
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026354

Well Reference #:	213673	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	5	Depth to Bedrock (ft):	744
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	35	Well Depth (ft):	150
Owner:	LOUIS BAILEY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	39	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	06-APR-62
Ground Elevation:	783		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K34
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087574

iLITH ID:	87578	Agency ID:	213733
Elevation (ft):	780	Lithological Total Depth:	150
Drilled Depth:	150	Static Water Level:	70
Completion Date:	1964-11-05 00:00:00	Driller Name:	Scott - Frederick
Record Source:	IDNR	Bedrock Depth:	23

M35
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026352

Well Reference #:	213703	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	2	Depth to Bedrock (ft):	753
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	41	Well Depth (ft):	105
Owner:	TOM LANGLEY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	48
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	8.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	10-JUL-64
Ground Elevation:	760		

M36
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087550

iLITH ID:	87554	Agency ID:	213703
Elevation (ft):	760	Lithological Total Depth:	105
Drilled Depth:	105	Static Water Level:	41
Completion Date:	1964-07-10 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	7

37
SSE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026357

Well Reference #:	213678	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	130
Owner:	RICHARD VANPELT	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	65

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	0	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	Not Reported
Ground Elevation:	785		

N38
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026345

Well Reference #:	213749	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	762
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	69	Well Depth (ft):	125
Owner:	ENOS DYER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	50
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	18.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	10-NOV-61
Ground Elevation:	780		

N39
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087587

iLITH ID:	87591	Agency ID:	213749
Elevation (ft):	780	Lithological Total Depth:	125
Drilled Depth:	125	Static Water Level:	69
Completion Date:	1961-11-10 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	18

40
SSE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026365

Well Reference #:	231953	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	30
Screen Length (ft):	120	Screen Diameter:	4
Static Water Level:	61	Well Depth (ft):	145
Owner:	BARRY ELKINS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6.63
Casing Length:	55	Casing Material:	STEEL
Depth to Grout:	25	Grout Method:	ENVIROPLUG
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	135	Pump Test Drawdown (ft):	145

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Tested:	2	Date Completed:	16-AUG-90
Ground Elevation:	0		

O41
SSW
 1/2 - 1 Mile
 Lower

IN WELLS INDNR6000026340

Well Reference #:	213759	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	.5	Depth to Bedrock (ft):	765
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	45	Well Depth (ft):	180
Owner:	JEWELL EVANS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	170
Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	32	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	19-FEB-66
Ground Elevation:	780		

O42
SSW
 1/2 - 1 Mile
 Lower

IN WELLS INLIT4000087594

iLITH ID:	87598	Agency ID:	213759
Elevation (ft):	780	Lithological Total Depth:	180
Drilled Depth:	180	Static Water Level:	45
Completion Date:	1966-02-19 00:00:00	Driller Name:	English & Son
Record Source:	IDNR	Bedrock Depth:	14

O43
SSW
 1/2 - 1 Mile
 Lower

IN WELLS INDNR6000026339

Well Reference #:	222737	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	760
Pump Type:	Not Reported	Pump Water Production (gal/min):	1.5
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	80	Well Depth (ft):	140
Owner:	EDWARD L. CRUM	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	22	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	80
Hours Tested:	0	Date Completed:	15-JUL-63
Ground Elevation:	780		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

O44
SSW
1/2 - 1 Mile
Lower

IN WELLS INLIT4000092820

iLITH ID:	92824	Agency ID:	222737
Elevation (ft):	780	Lithological Total Depth:	140
Drilled Depth:	140	Static Water Level:	80
Completion Date:	1963-07-15 00:00:00	Driller Name:	Albert C. Lentz
Record Source:	IDNR	Bedrock Depth:	20

P45
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026330

Well Reference #:	213753	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	3	Depth to Bedrock (ft):	745
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	40	Well Depth (ft):	150
Owner:	WOODROW HUESTON	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	5.63
Casing Length:	35	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	Not Reported
Ground Elevation:	780		

P46
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087589

iLITH ID:	87593	Agency ID:	213753
Elevation (ft):	780	Lithological Total Depth:	150
Drilled Depth:	150	Static Water Level:	40
Completion Date:	Not Reported	Driller Name:	Albert C. Lentz
Record Source:	IDNR	Bedrock Depth:	35

N47
South
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026323

Well Reference #:	213644	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1.5	Depth to Bedrock (ft):	766
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	65	Well Depth (ft):	165
Owner:	EUGENE STANFIERS #1	PLSS Reserve Name:	Not Reported
PLSS Survey Reserve #:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drawdown after Bailer:	0	Hours Bailer Test:	1
Casing Diameter:	6	Casing Length:	28
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	5.63
Liner Length (ft):	28	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	28-APR-64	Ground Elevation:	780

Q48
SSE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026349

Well Reference #:	213668	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	2	Depth to Bedrock (ft):	720
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	60	Well Depth (ft):	120
Owner:	DEWEY WOODS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	55
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	55	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	09-OCT-71
Ground Elevation:	770		

Q49
SSE
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087527

iLITH ID:	87531	Agency ID:	213668
Elevation (ft):	770	Lithological Total Depth:	120
Drilled Depth:	120	Static Water Level:	60
Completion Date:	1971-10-09 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	0

R50
SSE
1/2 - 1 Mile
Lower

IN WELLS INDNR6000026326

Well Reference #:	213758	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	5	Depth to Bedrock (ft):	742
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	30	Well Depth (ft):	100
Owner:	REX DECKARD	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	1	Casing Diameter:	6
Casing Length:	30	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	30
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Tested: 0 Date Completed: 22-OCT-64
 Ground Elevation: 750

R51
SSE
 1/2 - 1 Mile
 Lower

IN WELLS INLIT4000087593

iLITH ID:	87597	Agency ID:	213758
Elevation (ft):	750	Lithological Total Depth:	100
Drilled Depth:	100	Static Water Level:	30
Completion Date:	1964-10-22 00:00:00	Driller Name:	Scott - Frederick
Record Source:	IDNR	Bedrock Depth:	8

S52
SSW
 1/2 - 1 Mile
 Lower

IN WELLS INDNR6000026321

Well Reference #:	213739	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1.5	Depth to Bedrock (ft):	747
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	90	Well Depth (ft):	165
Owner:	GERALD FLYNN	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	65
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	34	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	30-AUG-65
Ground Elevation:	780		

S53
SSW
 1/2 - 1 Mile
 Lower

IN WELLS INLIT4000087579

iLITH ID:	87583	Agency ID:	213739
Elevation (ft):	780	Lithological Total Depth:	165
Drilled Depth:	165	Static Water Level:	90
Completion Date:	1965-08-30 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	33

T54
South
 1/2 - 1 Mile
 Lower

IN WELLS INDNR6000026314

Well Reference #:	213743	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	10	Depth to Bedrock (ft):	736
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Static Water Level:	61	Well Depth (ft):	120
Owner:	ROBERT CRACROFT	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	41
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	26	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	26-AUG-66
Ground Elevation:	760		

T55
South
1/2 - 1 Mile
Lower

IN WELLS INLIT4000087582

iLITH ID:	87586	Agency ID:	213743
Elevation (ft):	760	Lithological Total Depth:	120
Drilled Depth:	120	Static Water Level:	61
Completion Date:	1966-08-26 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: IN Radon

Radon Test Results

Zipcode	Year	Test Type	Location	Result
47403	1997	Short Term	1st Floor	2.1
47403	2000	Short Term	2nd Floor	0.6
47403	2000	Short Term	2nd Floor	2.1
47403	0	Unknown	Other	0.5
47403	0	Unknown	Other	2.2
47403	0	Short Term	Other	9.9
47403	0	Unknown	Other	1.0
47403	0	Unknown	Other	2.1
47403	1994	Unknown	Other	0.6
47403	1998	Post-Mitigation	Other	0.9
47403	1994	Short Term	Other	1.4
47403	1994	Short Term	Other	3.9
47403	0	Unknown	Other	0.6
47403	0	Unknown	Other	7.1
47403	0	Unknown	Other	1.7
47403	0	Unknown	Other	2.7
47403	0	Unknown	Other	0.7
47403	0	Unknown	Other	1.4
47403	0	Unknown	Other	1.2
47403	0	Unknown	Other	1.7
47403	0	Unknown	Other	4.4
47403	0	Unknown	Other	5.0
47403	0	Unknown	Other	3.0
47403	0	Unknown	Other	4.4
47403	1999	Long Term	1st Floor	2.1
47403	1994	Short Term	Other	0.8
47403	1996	Post-Mitigation	Other	0.4
47403	0	Short Term	Basement	0.3
47403	0	Short Term	Other	1.3
47403	0	Unknown	Other	3.3
47403	0	Short Term	Other	3.3
47403	0	Short Term	Other	14.8
47403	0	Short Term	Other	14.8
47403	0	Short Term	Basement	6.9
47403	2000	Short Term	Basement	0.7
47403	2000	Short Term	Basement	2.4
47403	2000	Short Term	Basement	2.8
47403	1997	Short Term	Basement	4.8
47403	2000	Short Term	Basement	5.1
47403	2000	Short Term	Basement	5.3
47403	2000	Short Term	2nd Floor	0.6
47403	2000	Short Term	1st Floor	25.6
47403	2000	Short Term	2nd Floor	2.5
47403	2000	Short Term	1st Floor	2.4
47403	2000	Short Term	1st Floor	2.4
47403	2000	Short Term	2nd Floor	2.1
47403				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	2001	Short Term	1st Floor	27.5
47403	2000	Short Term	Basement	1.2
47403	2000	Short Term	Basement	1.3
47403	1996	Short Term	Other	0.9
47403	1996	Short Term	Other	1.2
47403	1998	Short Term	Other	2.8
47403	1998	Short Term	Other	3.2
47403	1998	Short Term	Other	0.7
47403	2000	Post-Mitigation	Basement	1.4
47403	2003	Short Term	Basement	6.2
47403	2003	Short Term	Basement	2.0
47403	2004	Short Term	C	1.3
47403	2004	Short Term	1st Floor	1.3
47403	2004	Short Term	1st Floor	3.8
47403	2004	Short Term	1st Floor	4.2
47403	2002	Short Term	Basement	1.5
47403	2003	Short Term	1st Floor	1.4
47403	2003	Short Term	1st Floor	2.0
47403	2003	Short Term	1st Floor	0.9
47403	2003	Short Term	1st Floor	1.2
47403	2003	Short Term	1st Floor	1.1
47403	2003	Short Term	1st Floor	0.9
47403	2003	Short Term	1st Floor	2.1
47403	2003	Short Term	1st Floor	1.6
47403	2003	Short Term	1st Floor	3.9
47403	2003	Short Term	1st Floor	1.5
47403	2003	Short Term	1st Floor	1.0
47403	2003	Short Term	1st Floor	1.0
47403	2003	Short Term	1st Floor	1.5
47403	2003	Short Term	1st Floor	0.7
47403	2003	Short Term	1st Floor	1.0
47403	2003	Short Term	1st Floor	1.6
47403	2003	Short Term	1st Floor	0.9
47403	2003	Short Term	1st Floor	2.7
47403	2002	Short Term	Basement	1.5
47403	2004	Long Term	Basement	1.0
47403	2001	Short Term	Basement	74.4
47403	2001	Short Term	Basement	25.0
47403	2001	Short Term	Basement	19.1
47403	2001	Short Term	Basement	17.0
47403	2000	Post-Mitigation	1st Floor	1.0
47403	2000	Post-Mitigation	1st Floor	1.0
47403	2001	Short Term	1st Floor	2.0
47403	2001	Short Term	1st Floor	13.5
47403	2001	Short Term	1st Floor	0.7
47403	2001	Short Term	1st Floor	1.6
47403	2001	Short Term	1st Floor	1.0
47403	2001	Short Term	1st Floor	1.2
47403	2001	Short Term	1st Floor	1.3
47403	2001	Short Term	1st Floor	0.9
47403	2002	Short Term	Basement	5.3
47403	2002	Short Term	Basement	5.3
47403	2000	Short Term	1st Floor	0.9
47403	2000	Short Term	1st Floor	1.2
47403	2001	Short Term	0	3.5
47403	2002	Long Term	1st Floor	0.9
47403				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	2001	Short Term	Basement	25.6
47403	2001	Short Term	Basement	7.0
47403	2001	Short Term	Basement	5.7
47403	2001	Short Term	Basement	3.7
47403	2001	Short Term	1st Floor	1.8
47403	2004	Long Term	1st Floor	1.7
47403	0	Short Term	Basement	1.0
47403	0	Short Term	Basement	6.0
47403	1997	Short Term	Basement	16.6
47403	2000	Short Term	2nd Floor	2.5
47403	2000	Short Term	Basement	0.9
47403	2000	Short Term	Basement	4.9
47403	2004	Short Term	1st Floor	1.8
47403	2003	Short Term	1st Floor	1.8
47403	2003	Short Term	1st Floor	1.2
47403	2003	Short Term	1st Floor	1.2
47403	2003	Short Term	1st Floor	3.5
47403	2001	Short Term	Basement	23.2
47403	2001	Short Term	1st Floor	1.5
47403	2001	Short Term	1st Floor	2.5
47403	2000	Short Term	1st Floor	1.3
47403	2001	Short Term	1st Floor	6.2

Federal EPA Radon Zone for MONROE County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MONROE COUNTY, IN

Number of sites tested: 19

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.718 pCi/L	91%	9%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.289 pCi/L	58%	37%	5%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Wells

Source: Department of Environmental Management

Telephone: 317-308-3323

Community and non-community drinking water wells.

Observation Wells Database

Source: Indiana Geological Survey

Telephone: 812-855-7636

Water Wells for Monitoring Ground Water in Indiana

Public Water Supply Wells

Source: Department of Environmental Management

Telephone: 317-308-3323

Community and non-community drinking water wells.

Water Wells Database

Source: Indiana Geological Survey

Telephone: 812-855-76

Shows data points that represent water wells contained in the Lithologic database, which is derived from the water well database of the Indiana Department of Natural Resources.

OTHER STATE DATABASE INFORMATION

RADON

State Database: IN Radon

Source: Department of Health

Telephone: 317-233-7148

Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Engineer Licensing Board**

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Original Issue Date

7/17/2009

Sara Rae Hamidovic

Frances L. Kelly

Frances L. Kelly
Executive Director

Indiana Professional Licensing Agency



THIS CERTIFIES THAT

SARA RAE HAMIDOVIC

HAS SUCCESSFULLY MET ALL THE REQUIREMENTS OF EDUCATION, EXPERIENCE AND EXAMINATION, AND IS HEREBY DESIGNATED A

**CERTIFIED HAZARDOUS MATERIALS MANAGER®
CHMM®**

March 21, 2011

DATE OF CERTIFICATION

15641

CREDENTIAL NUMBER

March 31, 2026

CERTIFICATION EXPIRES

EUGENE A. GUILFORD, JR.
EXECUTIVE DIRECTOR



VALID SO LONG AS THIS CREDENTIAL IS RENEWED ACCORDING TO SCHEDULE AND IS NOT OTHERWISE REVOKED.



Accredited by the American National Standards Institute and the Council of Engineering and Scientific Specialty Boards



Site Reconnaissance

South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403



Prepared for:

Mr. Jeff Cockerill – Attorney
Monroe County Board of Commissioners
100 West Kirkwood Avenue
Bloomington, Indiana 47404

Prepared by:



VET Environmental Engineering, LLC
2335 West Fountain Drive
Bloomington, Indiana 47404

Date:

August 11, 2022

Project Number:

22-48

Site Reconnaissance

**South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 22-48

1.0 EXECUTIVE SUMMARY..... 1

2.0 SITE INFORMATION 1

3.0 DESKTOP RECONNAISSANCE..... 1

 3.1 Soils..... 1

 3.2 Waterways and Waterbodies..... 2

 3.3 Floodplains..... 2

 3.4 Wetlands..... 2

 3.5 Karst Features..... 2

 3.6 Endangered and Threatened Species..... 2

 3.7 Wells..... 4

 3.8 Conservancy and Karst Easements 4

 3.9 Historical Aerial Photographs 4

4.0 FIELD RECONNAISSANCE 6

 4.1 Soils..... 7

 4.2 Waterways and Waterbodies..... 7

 4.3 Wetlands..... 7

 4.4 Karst Features..... 8

 4.5 Wells..... 8

5.0 CONCLUSIONS..... 8

6.0 REFERENCES 10



LIST OF EXHIBITS

EXHIBIT 1: AREA MAP

EXHIBIT 2: PARCEL MAP

EXHIBIT 3: SOILS MAP

EXHIBIT 4: SITE MAP

LIST OF TABLES IN NARRATIVE

TABLE A: PARCEL INFORMATION

TABLE B: SOIL SURVEY SUMMARY

TABLE C: MIGRATORY BIRDS OF CONCERN

TABLE D: INDIANA HERITAGE DATA – ENDANGERED AND THREATENED SPECIES

LIST OF ATTACHMENTS

ATTACHMENT 1: SITE PHOTOS

ATTACHMENT 2: IDNR NATURAL HERITAGE DATA CENTER REQUEST & RESPONSE

ATTACHMENT 3: IDEM WELLHEAD DETERMINATION REQUEST & RESPONSE

IDEM WELLHEAD PROXIMITY DETERMINATOR OUTPUT

ATTACHMENT 4: NATIONWIDE STANDARD CONSERVATION MEASURES

USFWS MIGRATORY BIRD PROGRAM – BCC STUDY 2021

ATTACHMENT 5: CONSERVANCY AND KARST EASEMENTS

ATTACHMENT 6: AERIAL PHOTOGRAPHS

ATTACHMENT 7: MONROE COUNTY ORDINANCE – CHAPTER 829



1.0 EXECUTIVE SUMMARY

VET Environmental Engineering, LLC (VET) was obtained by Mr. Jeff Cockerill, representative of the Monroe County Board of Commissioners (Monroe County) to conduct a site reconnaissance of approximately 87.13 acres of land (Parcel Number 53-08-18-300-001.000-009) located at South State Road 37, north of West Fullerton Pike in Bloomington, Indiana (Site). The purpose of the project is to identify potential environmental impacts and other obstacles to development of the Site. The Site is the proposed location of a new municipal development project for Monroe County. VET conducted both a desktop and field reconnaissance to identify potential obstacles to development.

2.0 SITE INFORMATION

The 87.13-acre Site is located on one parcel of land located in Bloomington, Monroe County, Indiana. Parcel information is detailed in **Table A**. The Site is classified as vacant land and is owned by Bill C. Brown Revocable Trust. An approximately 530 feet wide section of forested land runs along the Site's eastern boundary and an approximately 300 foot wide section of forested land runs along the Site's northern boundary. The middle portion of the Site is largely an open grassy field.

TABLE A. PARCEL INFORMATION		
Parcel Number	Legal Description	Acreage
Parcel #1: 53-08-18-300-001.000-009	015-02520-01 PT SW 18-8-1W 87.12 A; Plat 11	87.13

3.0 DESKTOP RECONNAISSANCE

VET obtained and analyzed environmental and geographic data from IndianaMap. IndianaMap is a large collective public database for geographic information system (GIS) map data. The scope of the desktop reconnaissance is to identify items that may limit or restrict development or other proposed land uses on the Site by evaluating readily ascertainable records.

3.1 Soils

The United States Agricultural Department (USDA) Web Soil Survey (WSS) indicates that the Site is largely underlain by Bedford Silt Loam and Crider Silt Loam (**Exhibit 3**). All soils present on the Site are included in **Table B**. No soils mapped on-Site are classified as hydric soils according to the 2016 National Resources Conservation Service (NRCS) Hydric Soils List for Monroe County, Indiana.

TABLE B. SOIL SURVEY SUMMARY		
Map Symbol	Soil Type Name	Percent of Site (%)
BdB	Bedford Silt Loam, 2-6% Slopes	40.5
CrC	Crider Silt Loam, 6-12% Slopes	36.3
HaD	Hagerstown Silt Loam, 12-18% Slopes	17.2
CaD	Caneyville Silt Loam, 12-18% Slopes	5.9



3.2 Waterways and Waterbodies

The desktop reconnaissance identified six perennial streams on-Site according to the United States Geological Survey's (USGS) National Hydrography Dataset (NHD). Five of the streams are located within the forested area located along the northern and eastern Site boundaries. The streams along the Site's eastern boundary generally run from east to west toward the center of the Site. Streams along the northern boundary generally run north to south toward the center of the Site. The sixth stream is located on the western Site boundary and is coincident with a mapped karst feature (**Section 3.5**). All mapped waterbodies are displayed on **Exhibit 2**.

3.3 Floodplains

Floodplain data was obtained from the Federal Emergency Management Association (FEMA) Flood Rate Insurance Maps (FIRM). This data represents areas in Indiana that are located in a floodway or flood hazard zone. No floodways were identified on-Site.

3.4 Wetlands

No wetlands were identified on-Site by the National Wetlands Inventory (NWI).

3.5 Karst Features

Four karst features were identified on-Site along the Site's western boundary (IndianaMap, 2022). Several sinkholes were identified on the western adjoining properties. The Site is in the Mitchell Plateau physiographic region of Indiana (IndianaMap, 2022). The presence of karst topography features (sinkholes, swallow holes, sinking streams, etc.) is documented within the Mitchell Plateau physiographic region (Gray, 2000, p.8). The Site is reportedly in an area where drainage is mostly through solution channels (Hartke and Gray, 1989, p.4). Bedrock is mapped as Mississippian Age, Blue River Group containing mostly micritic, skeletal, and oolitic limestone (IndianaMap, 2022). Bedrock is shallow in this area and expected to be less than 50 feet below ground surface (Fenelon and Bobay, 1994, p.142).

3.6 Endangered and Threatened Species

VET utilized the Information for Planning and Consultation (IPaC) web service developed by the USFWS to screen the Site for endangered species, critical habitats, and migratory birds. According to IPaC, the endangered Indiana Bat (*Myotis sodalist*) and the threatened Northern Long-eared Bat (*Myotis septentrionalis*) are identified as potentially affected by the project area. The Site overlaps with the critical habitat for the Indiana Bat according to the USFWS's Environmental Conservation Online System (ECOS).

The Monarch Butterfly (*Danaus plexippus*) was identified as potentially affected by the project area. The Monarch Butterfly was identified as a candidate for listing as a threatened or endangered species. There are generally no requirements under Section 7 Endangered Species Act (ESA) for candidate species, according to the USFWS.

IPaC identified 13 migratory Birds of Conservation Concern (BCC). The common name, scientific name, and category of concern for each species identified is detailed in **Table C**. Ten birds were identified as "BCC Rangewide". This status indicates that these species are a BCC throughout the entirety of their range in the United States. IPaC identified two "BCC – BCR" birds. This status indicates that these species are of concern only in particular Bird Conservation Ranges (BCRs) in the United States. One species, the Bald Eagle, was listed as "Non-BCC Vulnerable". This status indicates that the species is not specifically



listed as a BCC, but is a species of concern due to requirements set forth by The Bald and Golden Eagle Protection Act (Eagle Act). The Eagle Act prohibits the take, possession, sale, or purchase of any dead or alive Bald Eagle (USFWS, 1940).

Due to the presence of several BCC species, VET recommends following the Nationwide Standard for Conservation Measures (**Attachment 4**), provided by the IPaC, to ensure minimal damage to potential habitats or breeding areas. The BCC 2021 study published by the Migratory Bird Program through the USFWS is included as part of **Attachment 4**.

TABLE C. MIGRATORY BIRDS OF CONCERN		
Common Name	Scientific Name	Category of Concern
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Non-BCC Vulnerable
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	BCC Rangewide
Cerulean Warbler	<i>Dendroica cerulea</i>	BCC Rangewide
Chimney Swift	<i>Chaetura pelagica</i>	BCC Rangewide
Eastern Whippoorwill	<i>Antrostomus vociferus</i>	BCC Rangewide
Field Sparrow	<i>Spizella pusilla</i>	BCC – BCR
Kentucky Warbler	<i>Oporornis formosus</i>	BCC Rangewide
Lesser Yellowlegs	<i>Tringa flavipes</i>	BCC Rangewide
Prairie Warbler	<i>Dendroica discolor</i>	BCC Rangewide
Prothonotary Warbler	<i>Protonotaria citrea</i>	BCC Rangewide
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	BCC Rangewide
Rusty Blackbird	<i>Euphagus carolinus</i>	BCC – BCR
Wood Thrush	<i>Hylocichla mustelina</i>	BCC Rangewide

VET requested information on endangered and threatened species, high quality natural communities, and natural areas from the Indiana Department of Natural Resources (IDNR) Indiana Natural Heritage Data Center (INHDC) on July 28, 2022. VET received IDNR’s response on August 8, 2022. The Heritage Data Review indicates that eight threatened or endangered species are documented within a half-mile of the Site (**Table D**).

TABLE D. INDIANA HERITAGE DATA – ENDANGERED AND THREATENED SPECIES			
Common Name	Scientific Name	State	Federal
Troglobitic Crayfish	<i>Orconectes inermis testii</i>	SR	N/A
Hilly Springtail	<i>Pseudosinella collina</i>	SR	N/A
Monroe Cave Ground Beetle	<i>Pseudanophthalmus shilohensis mayfieldensis</i>	SE	N/A
An Agapetus Caddisfly	<i>Agapetus gelbae</i>	ST	N/A
Little Brown Bat	<i>Myotis lucifugus</i>	SE	C
Northern Long Eared Bat	<i>Myotis septentrionalis</i>	SE	T and PE
Tricolored Bat	<i>Perimyotis subflavus</i>	SE	N/A
Hidden Springs Snail	<i>Fontigens cryptica</i>	SE	N/A
Legend			
SE = State Endangered	SR = State Rare	PE = Potentially Endangered	
ST = State Threatened	C = Federal Candidate Species	N/A = Not listed	



The Heritage Data Review specified that these findings do not preclude the requirement for formal consultation through the United States Fish and Wildlife Service (USFWS) under Section 7 of the ESA. A copy of the Heritage Data Review is included as **Attachment 2**. Due to the species potentially affected by the proposed project, a formal Section 7 ESA consultation may be required. VET recommends following the Nationwide Standard for Conservation Measures and minimizing disturbance to forested areas on-Site to ensure minimal damage to potential habitats or breeding grounds due to the species potentially affected by the proposed project.

3.7 Wells

The IDNR Water Well Survey identified no wells on-Site. VET requested a Wellhead Protection Area Proximity Determination from IDEM’s Groundwater Section on July 28, 2022. VET has not received the Wellhead Protection Area Proximity Determination from IDEM as of the date of this report. In addition to requesting the Wellhead Protection Area Proximity Determination, VET queried the Site in the IDEM Wellhead Proximity Determinator database on July 28, 2022. The database indicates that the Site is not located within a Wellhead Protection Area. A copy of the output from the database query along with the Wellhead Protection Area Proximity Determination request is included in **Attachment 3**.

The City of Bloomington Utilities Department (CBU) provides drinking water for the Site and surrounding area. CBU obtains drinking water from Lake Monroe, a surface water reservoir located southeast of Bloomington, Indiana. Groundwater is not utilized for drinking water in this area of Bloomington. Four wells are located within a 0.25-mile radius of the Site.

3.8 Conservancy and Karst Easements

The Site’s current owner recorded conservancy and karst easements for the Site on August 18, 2015 at the Monroe County Recorder’s Office. Smith Design Group, Inc. (Smith), formerly Smith Brehob and Associates, Inc. (Brehob), prepared the legal descriptions of the easements and the figure documenting the location of the easements. A copy of the easements is included as **Attachment 5**.

The easements were recorded to protect natural areas and karst features identified on-Site. There are four conservancy easements (Conservancy ‘A’ through ‘D’) and five karst easements (Karst ‘A’ through ‘E’). The areas are displayed graphically on **Exhibit 4**. The document specifies several requirements including the prohibition of land disturbing activity, mowing restrictions, and explicit approval from the City of Bloomington Planning & Transportation Department to conduct maintenance within the easements such as removal of dead trees and/or invasive species.

3.9 Historical Aerial Photographs

VET examined historical aerial photographs. Select historical aerial photographs are included as **Attachment 6**.

TABLE E. AERIAL PHOTOGRAPH SUMMARY		
Year	Quality	Description
1939	Fair	The Site appears to be developed for agricultural purposes. The northern and eastern Site boundaries and a portion of the western Site boundary appear densely vegetated. No structures appear on the Site. The northern adjacent parcel appears densely vegetated. To the northeast of the Site in the northeastern corner of the photograph, there is a body of water likely associated with the quarry operations evident in subsequent photographs. The



		eastern adjacent parcel appears densely vegetated. West Fullerton Pike is visible to the south of the Site. The parcels south of West Fullerton Pike appear to be developed for agricultural purposes, with one or two potential agricultural or residential structures. The western adjacent parcels appear to be developed for agricultural purposes. Potential staining or warping is evident on the western half of the photograph, although these areas may also be small depressions in the ground surface.
1946	Poor	The Site appears relatively unchanged. The northern and northeastern adjacent parcels appear relatively unchanged. The eastern adjacent parcel appears to be developed for the quarry operations evident in subsequent photographs. West Fullerton Pike, the southern adjacent parcels, and the western adjacent parcels appear relatively unchanged. Pixelation in the photograph obscures a full visualization of the Site and surrounding parcels.
1972	Good	The western portion of the Site appears to be developed for agricultural purposes, with a small water body in the center of the agricultural field. The eastern portion of the Site appears densely vegetated. A small structure is visible on the southwestern corner of the Site. Quarry operations expanded to the northeast and east of the Site and appear to be active. Stream features are evident on the northern Site boundary flowing to the northwest. Additional residential structures appear along West Fullerton Pike to the south of the Site. Bodies of water appear on the western Site boundary as well as evidence of a path to the west of the Site. A residential development is evident to the west of the Site and the path.
1975	Good	The Site appears relatively unchanged. State Road 37 is constructed immediately west of the Site. The remainder of the northern, eastern, southern, and western adjacent parcels appears relatively unchanged, with the exception of expanded residential developments to the northwest of the Site.
1999	Good	The structure on the southwestern corner of the Site is no longer apparent. The body of water in the center of the cultivated field on the Site is no longer apparent. The quarry operations to the northeast of the Site appears to have diminished in size, while quarry operations to the east of the Site appear larger than in previous photographs. The southern adjacent parcels appear relatively unchanged. Commercial development is evident along the southwestern boundary of the Site, across State Road 37. The residential developments to the west and northwest of the Site have increased in size.
2003	Good	The Site and adjoining parcels appear relatively unchanged, with the exception of apparent expansion of the quarry operations to the east of the Site.
2005	Excellent	The Site appears relatively unchanged, with the exception of an apparent stream feature on the southeastern corner of Site that was undiscernible in previous photographs. The stream feature appears to flow toward the quarry operation to the east. The commercial development to the west of the Site appears to have large storage containers or tanks located near the intersection of West Fullerton Pike and State Road 37. Land disturbance associated with a large commercial development is evident to the southwest of the Site.
2010	Excellent	The Site exhibits evidence of a potential berm from the entrance of the Site on the southern boundary extending to the eastern tree line. The possible storage containers or tanks at the intersection of West Fullerton Pike and State Road 37 are no longer apparent. One quarry pit on the eastern adjacent parcel appears larger than in previous photographs. The large commercial development to the southwest of the Site appears to be active.
2015	Excellent	The cultivated portion of the Site appears distinctly different in color from the surrounding wooded area, possibly indicative of recently cut hay. The large quarry pit on the eastern adjacent parcel exhibits signs of potential filling and is therefore reduced in size from previous photographs.
2016	Excellent	Land disturbing activities are apparent on the Site, along West Fullerton Pike to the south of the Site, and in the former commercial development west of the Site at the intersection of West Fullerton Pike and State Road 37. The land disturbance is consistent with grading for road expansion or development. On the southern portion of the Site, there appears to be a materials storage pile, although pixelation in the photograph obscures a full visualization of the items present. The land disturbance on the Site indicates that the topsoil has been harvested in the south-central portion of the Site. The remainder of the adjoining parcels appear relatively unchanged.



2019	Excellent	The Site exhibits signs of paths and land disturbance extending from West Fullerton Pike on the southern Site boundary to the northwestern Site boundary. The paths on the Site are consistent with tracks from heavy equipment, possibly associated with road development. A fill pile on the northern Site boundary is apparent, immediately west of the eastern tree line. Two new interchanges are present at the intersection of West Fullerton Pike and State Road 37. The quarry operations to the east of the Site appear to have expanded. The remainder of the adjoining parcels appears relatively unchanged.
2020	Excellent	Signs of vegetative overgrowth appear on the paths on the Site. A water body appears in the center of the Site. Stressed vegetation is apparent surrounding the paths and the water body. The quarry operations to the east of the Site appear to have expanded. The remainder of the adjoining parcels appears relatively unchanged.
2022	Excellent	Evidence of the paths is still apparent on the Site, although they are less distinct than in previous photographs, possibly due to seasonal variations in vegetative cover. The water body apparent in the 2020 photograph is no longer evident. The remainder of the Site and adjoining parcels appear relatively unchanged.

Aerial photographs indicate the presence of stream features that may constitute jurisdictional waters. Evidence of extensive modification, including grading and filling, is visible on historical aerial photographs.

4.0 FIELD RECONNAISSANCE

VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, Ms. Rene Lloyd, MS, MPA, and Ms. Emily Throop conducted a field reconnaissance on August 2, 2022. The purpose of the field investigation was to verify the accuracy of the information reviewed during the desktop reconnaissance and to identify features of concern that were not identified by the desktop reconnaissance. No formal wetlands or waters delineations were conducted. Select photos taken during the field reconnaissance are included as **Attachment 1**.

The Site is located at the northeastern corner of the intersection between West Fullerton Pike and Interstate 69. Access to the Site is provided by the northernmost roundabout exit on the roundabout east of Interstate 69 on West Fullerton Pike. The western half of the Site is cleared and exhibited evidence of grading. VET observed a small pile of potential fill and sparse vegetation at the northwestern Site corner. VET observed a large pile of potential fill material on the northern Site boundary immediately west of the northeastern tree line. VET observed a man-made berm on the eastern Site boundary with evidence of deteriorated silt fencing. Significant grade changes were observed near the southeastern tree line and on the southern portion of the Site near the aforementioned roundabout. The Site owner indicated that grading throughout the Site was due to the construction of a roadway foundation and excavation of topsoil for sale. Although the Site owner stated that no outside fill material was used for the construction of the road foundation, the origin of the potential fill material on the northern Site boundary is unknown.

Erosion control features including rock check dams were observed at the headwaters of the mapped streams on the Site on the northwestern Site boundary, the northeastern tree line, and the southern forested draw. VET observed large areas of hydrophytic vegetation throughout the western half of the Site and along the eastern tree line of the Site. Additional isolated pockets dominated by hydrophytic vegetation were identified across the grassy area of the Site. These pockets are likely indicative of areas where topsoil was harvested changing the drainage qualities of the soils allowing water to pool for extended periods of time during the growing season. A dominance of hydrophytic vegetation is indicative of presence of poorly



drained soils and is one of the three indicators of wetlands. VET observed an erosional gully west of the southern forested portion of the Site. The eastern portion of the Site is forested. VET observed likely jurisdictional streams in the northern and eastern forested portions of the Site that also exhibited signs of potential karst features. VET did not observe signs or conditions of environmental concerns in the forested area of the Site.

4.1 Soils

No soils mapped on-Site are classified as hydric soils according to the 2016 NRCS Hydric Soils List for Monroe County, Indiana. According to on-Site observations and interviews conducted with individuals knowledgeable about the Site, there is evidence of extensive grading and deposition of fill material on the Site. The grading is reportedly a result of the construction of a road foundation that occurred around the year 2015. Additionally, topsoil was reportedly stripped from the Site and sold around the year 2015. The extensive modification of the Site, to include grading and filling, likely altered the soil composition and drainage characteristics of Site soils.

4.2 Waterways and Waterbodies

The desktop reconnaissance identified six perennial streams on-Site within the forested portion of the Site (**Exhibit 4**). VET observed several surface drainage features, likely ephemeral streams, within the forested area on the Site that were not identified by the NHD. The United States Army Corps of Engineers (USACE) defines an ephemeral stream as “*having flowing water only during, and for a short duration after, precipitation events in a typical year.*” The identified streams are likely classified as ephemeral at the higher elevation areas originating from the flat grassy portions of the Site. As the drainage features travel down slope the features may exhibit flow absent precipitation due to groundwater influences. The observed drainage features likely constitute jurisdictional waters from the grassy field to the Site boundaries. VET observed a potentially jurisdictional stream on the northeastern portion of the Site that exhibited signs of potential karst features. This feature is located within the Karst ‘B’ easement and exhibited characteristics consistent with a sinking stream. VET recommends conducting a formal jurisdictional waters delineation to determine the regulatory status of all water features on-Site.

4.3 Wetlands

No mapped wetlands were identified during the desktop reconnaissance. However, field observations indicate the presence of potential wetlands. VET observed several isolated, perched wetlands in the grassy field during the field reconnaissance. Topsoil was stripped and transported off-Site around 2015, according to interviews with the Site owner. The removal of topsoil exposed the underlying clay soil. This altered the composition and drainage qualities of Site soils. Infiltration likely decreased due to the low permeability of the exposed clay soil and likely created conditions favorable for wetland development.

VET identified a potential linear wetland on the eastern portion of the Site, between the forested area and grassy field. A manmade berm generally runs north to south along the central portion of the eastern forest line. A linear depression runs parallel and upgradient to the berm. Presence of hydrophytic vegetation was identified in the depression. The manmade berm likely encouraged water to pond on the western, upgradient side and subsequently created a linear wetland feature (**Exhibit 4**).



VET identified another potential wetland on the northwestern Site boundary (**Exhibit 4**). The potential wetland is coincident with mapped karst features and a perennial stream. VET observed evidence of both hydrophytic vegetation area and several wetland hydrology indicators. The hydrophytic plant community present in this area exhibits a number of species. Only one invasive species (Common Reed – *Phragmites australis*) was observed in this area. Both the size and biodiversity in vegetation in this area suggest this area is a high-quality wetland that supports a variety of species and likely constitutes a regulated wetland. Further, care should be taken to protect this feature during development.

Wetlands are regulated by IDEM and the USACE as they provide filtration, flood storage, and habitat. Construction in wetlands is typically subject to permitting requirements and/or compensatory mitigation. In VET's experience, wetland area published by NWI is typically less extensive than wetlands identified by formal field delineation methodology. VET recommends conducting a formal wetland delineation of the Site during the growing season to determine the presence or absence of regulated wetlands.

4.4 Karst Features

IndianaMap identified four karst features on-Site. Three features are located on the northwestern portion of the Site and are generally coincident with a mapped perennial stream and the potential high-quality wetland observed on-Site (**Exhibit 4**). The fourth feature is located directly south of the other mapped karst features, along the Site's western boundary. This feature is located within an easement (Karst 'A') recorded by the current Site owner in 2015.

Monroe County Ordinance, Chapter 829: Karst and Sinkhole Development Standards contains detailed requirements regarding sinkhole evaluations and sinkhole conservation areas (SCAs). Five karst easements are already mapped and recorded for the Site (**Attachment 5**). Three karst features identified on-Site by IndianaMap are outside the existing easements. As such, VET recommends establishing SCAs pursuant to Monroe County Ordinance 829-3(C) for the remaining sinkholes and performing a formal sinkhole evaluation in accordance with Monroe County Ordinance 829-4(A). A copy of the ordinance is included as **Attachment 7**. Additionally, VET recommends having an environmental professional on-call for consultation during grading and construction in the event that additional karst features are identified.

4.5 Wells

No wells were identified on-Site during the desktop reconnaissance or the field reconnaissance. If a well is identified during development activities, it should be protected as the well may serve as a conduit to the subsurface water bearing zone. Subsequent to discovery, the well should be adequately restored or properly abandoned.

5.0 CONCLUSIONS

VET performed a desktop reconnaissance coupled with a field reconnaissance to identify obstacles that may impede development of the Site. VET identified potentially regulated wetlands and potentially jurisdictional streams on-Site. VET recommends conducting a formal wetland delineation and jurisdictional waterways determination prior to development of the Site as permitting and compensatory mitigation may be required through USACE and/or IDEM. VET recommends following the Nationwide Standard for Conservation Measures to ensure minimal damage to potential habitats or breeding grounds



due to the species potentially affected by the proposed project. VET recommends conducting a formal sinkhole evaluation and establishing SCAs as necessary to protect mapped karst features located outside the established karst easements. Development is prohibited within the existing easements on-Site.

If you have any questions or concerns regarding this report, please do not hesitate to contact VET at (812) 822-0400.

Respectfully submitted,



Sara R. Hamidovic, MS, PE, CHMM, CPESC
Principal Engineer, President/CEO



6.0 REFERENCES

Gray, H. Henry. (2000). *Physiographic Divisions of Indiana*, Bloomington, IN: Indiana Geological Survey

IndianaMAP. (2022). *Indiana MAP*. Retrieved July 28, 2022, from <https://maps.indiana.edu>

Natural Resources Conservation Service. (2022). *State Soil Data Access (SDA) Hydric Soils List*. Retrieved July 28, 2022, from <https://nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric>

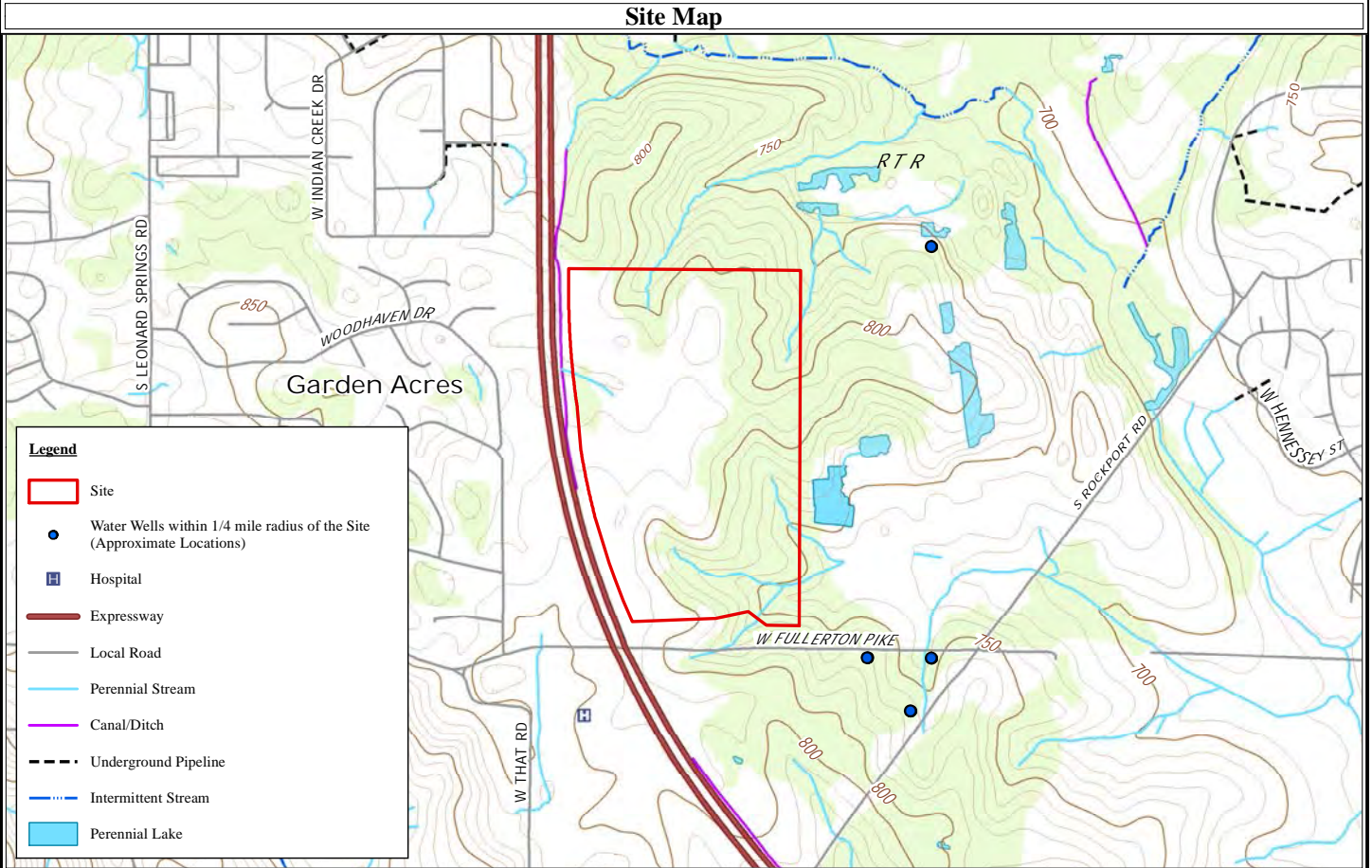
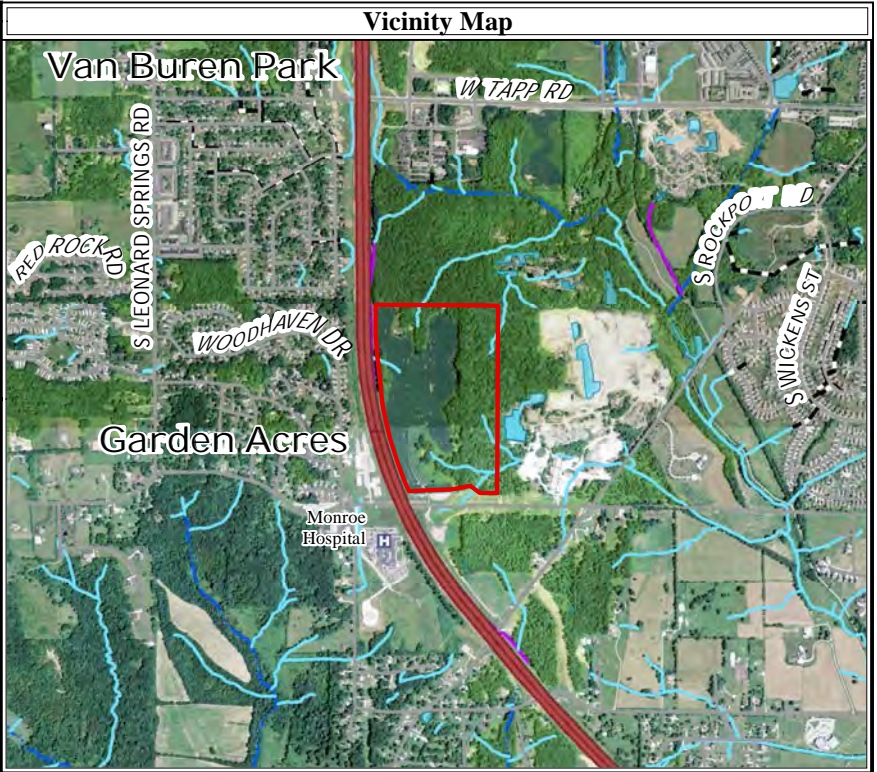
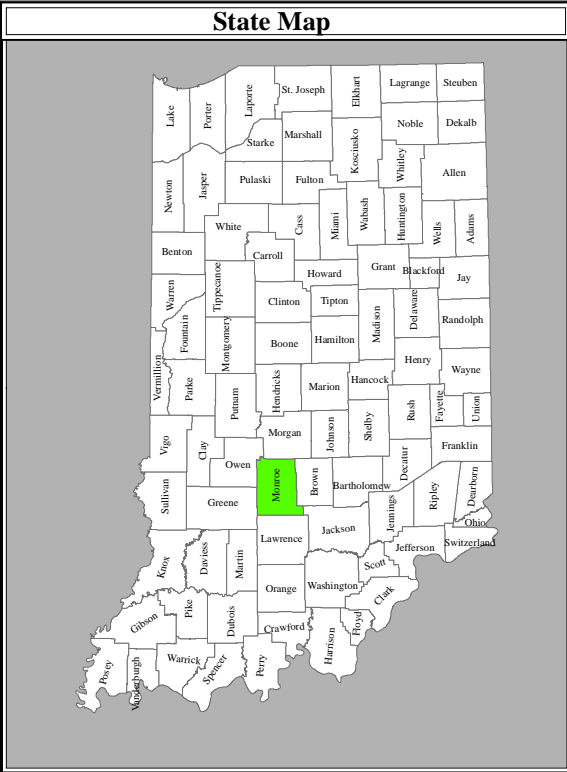
Natural Resource Conservation Service. (2022). *Web Soil Survey*. Retrieved July 28, 2022, from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

United States Fish and Wildlife Service. (2022). *Federal Laws that Protect Bald and Golden Eagles*. Retrieved July 28, 2022 from <https://www.fws.gov/law/bald-and-golden-eagle-protection-act>

United States Geological Survey. (2019). Bloomington & Clear Creek, IN, 1:24,000 Topographic Map. United States Geological Survey.



EXHIBITS



VET Environmental Engineering, LLC

2335 W. Fountain Drive
Bloomington, IN 47404
Phone: (812) 822-0400
www.vet-env.com

Title: Area Map

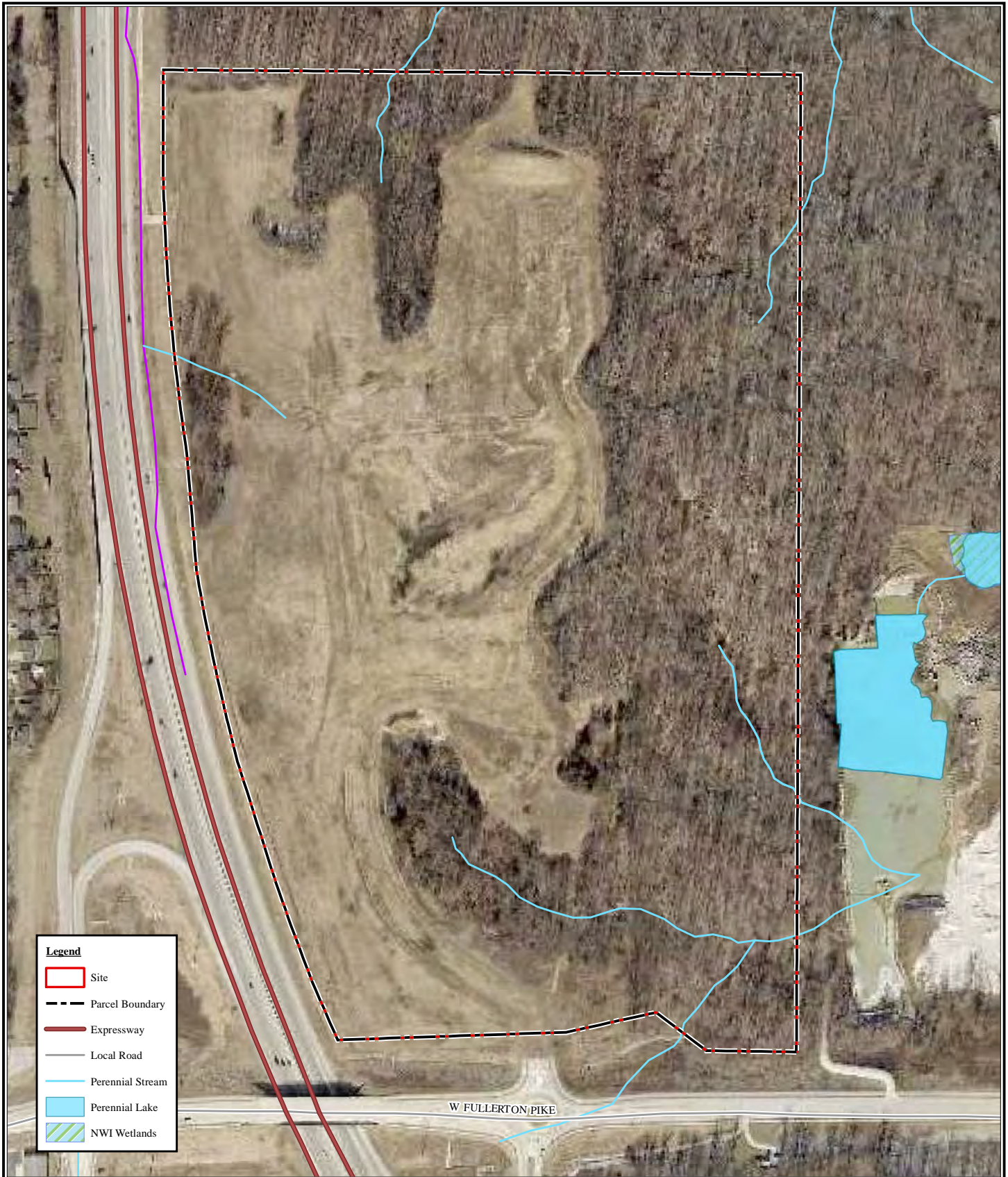
Location: South of State Road 37,
North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

N

1" = 1,250'

0 300 600 900
Feet

Project: Monroe County - Fullerton Pike	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 1	Drawn By: EMT
Notes: Water wells shown: 4 in 1/4 mile radius of Site	



Legend

- Site
- Parcel Boundary
- Expressway
- Local Road
- Perennial Stream
- Perennial Lake
- NWI Wetlands



VET Environmental Engineering, LLC

2335 W. Fountain Drive
 Bloomington, IN 47404
 Phone: (812) 822-0400
 www.vet-env.com

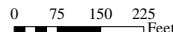
Title:
 Parcel Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

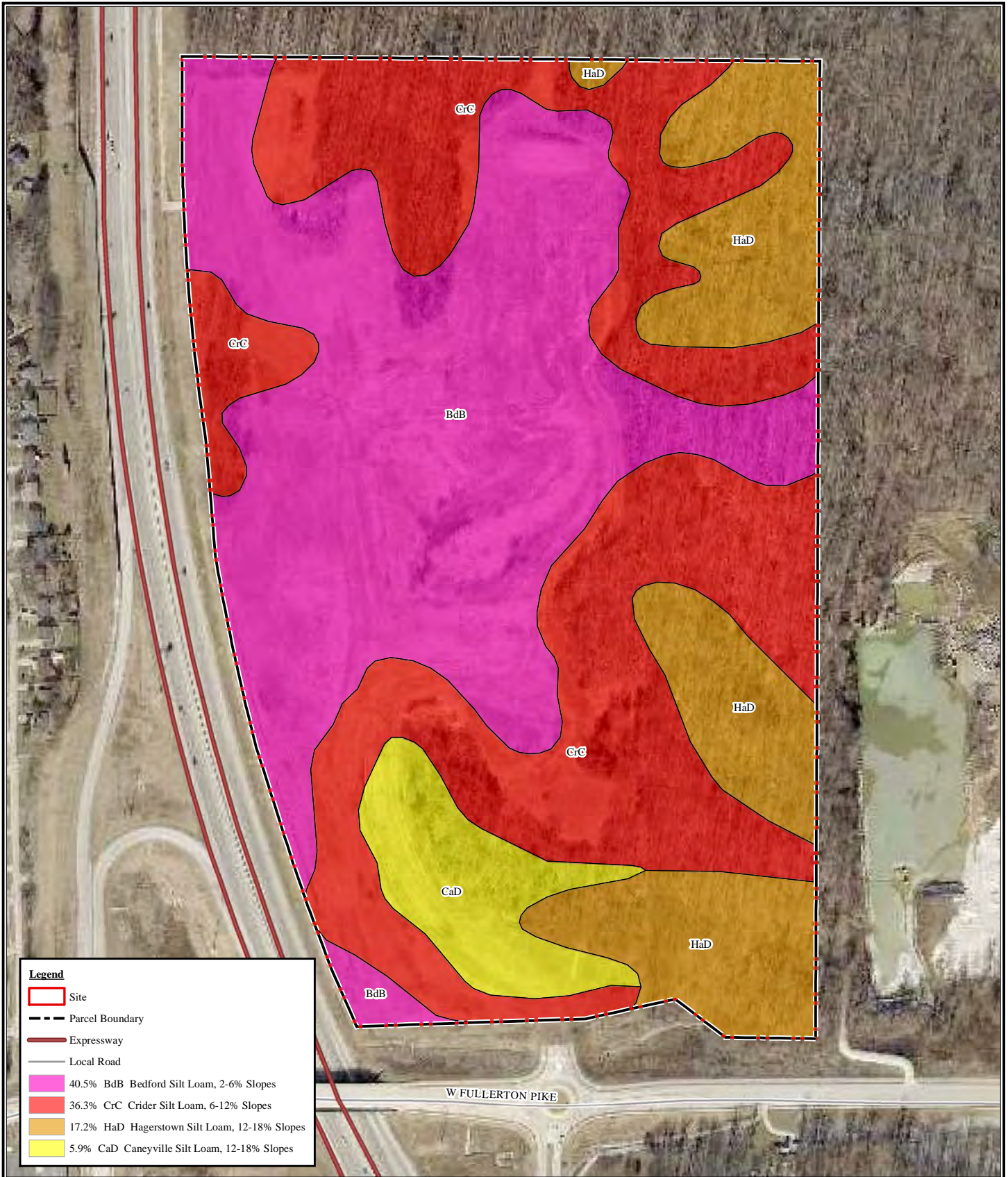
Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



1" = 333'



Project: Monroe County - Fullerton Pike	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 2	Drawn By: EMT
Notes: Perennial Stream Reported On Site	



Legend

- Site
- Parcel Boundary
- Expressway
- Local Road
- 40.5% BdB Bedford Silt Loam, 2-6% Slopes
- 36.3% CrC Crider Silt Loam, 6-12% Slopes
- 17.2% HaD Hagerstown Silt Loam, 12-18% Slopes
- 5.9% CaD Caneyville Silt Loam, 12-18% Slopes

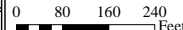


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 Bloomington, IN 47404
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 www.vet-env.com



1" = 333'



Project: Monroe County - Fullerton Pike

VET Project No.: 22-48

NPDES Permit No.: N/A

Date: 8/3/2022

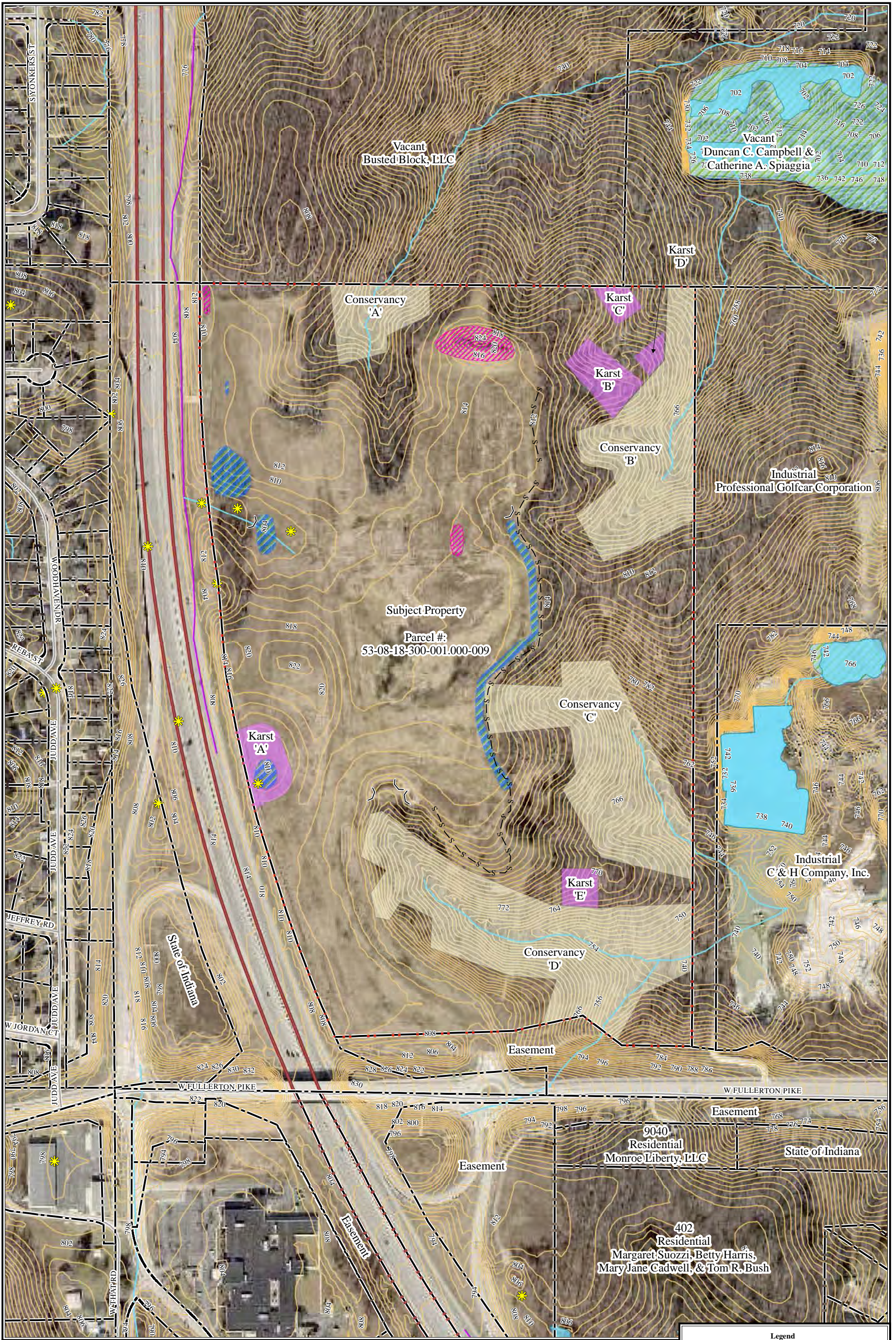
Exhibit: 3 **Drawn By:** EMT


Notes: Hydric Soils Not Reported On Site

Title: Soils Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2016 USDA WSS Soils, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'





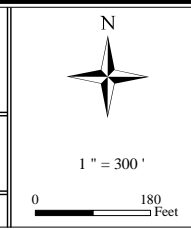
VET Environmental Engineering, LLC

2335 W. Fountain Drive
Bloomington, IN 47404
Phone: (812) 822-0400
www.vet-env.com

Title: Site Map

Location: South of State Road 37,
North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Project: Monroe County - Fullerton Pike Site Reconnaissance	
VET Project No.:	22-48
NPDES Permit No.:	N/A
Date:	8/11/2022
Exhibit:	4
Drawn By:	EMT
Notes:	N/A

Legend	
	Site
	Parcel Boundary
	Karst Feature
	Rock Check Dam
	Expressway
	Local Road
	Perennial Stream
	Canal/Ditch
	Silt Fence Remnants
	Conservancy Easement
	Karst Easement
	NWI Wetlands
	Potential Fill Material
	Potential Wetland Feature
	Perennial Lake

ATTACHMENT 1

Site Photographs

Photo 1: Potential fill pile on northern Site boundary; View to the southeast



Photo 2: Erosional gulley west of southern wooded portion of Site; View to the east



Photo 3: Hydrophytic vegetation in potential wetland on western Site boundary; View to the southeast



Photo 4: Rock check dam on the western Site boundary; View to the northwest



Site Photographs

Photo 5: Northern terminus of man-made berm at northeastern Site boundary; View to the south



Photo 6: Possible sinking stream in northeastern wooded area; View to the southeast



Photo 7: Grading on southern portion of Site; View to the south



Photo 8: Site entrance; View to the west



ATTACHMENT 2



DATA REQUEST

State Form 56461 (R3 / 4-21)
DEPARTMENT OF NATURAL RESOURCES

Please submit this form by e-mail:

INHDCdatarequest@dnr.IN.gov

Or fax: 317-974-2008

Or mail:

Indiana Natural Heritage Data Center
IN DNR Nature Preserves
402 W. Washington Street, Rm W267
Indianapolis, Indiana 46204



INSTRUCTIONS: E-mail, fax, or mail to contact above:

1. This completed **Data Request form**. Form and information available at <https://www.in.gov/dnr/nature-preserves/heritage-data-center/about-inhdc/>.
2. A **map** showing the project location and extent, include the nearest major road intersection for verification. Additional pages showing the general area may be provided. Construction CAD drawings are not required or needed.
3. If the project boundary is large, complex, or a linear corridor, please provide a **GIS shapefile**.
4. The **charge is \$42** per one half hour, one half hour minimum, per IC 14-10-2-1. An invoice will be included with the completed request response. This fee is waived for non-profit organizations, other governmental agencies, and educational research projects.
5. Please feel free to include any further information that you believe will help us best serve your project needs.

Date submitted (month, day, year)	July 28, 2022
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CONTACT INFORMATION

Name Elizabeth Grubb, MS, MPA			
Company VET Environmental Engineering, LLC			
Address (number and street) 2335 West Fountain Drive		City Bloomington	State IN
Telephone number (812) 822-0400		Fax number () N/A	E-mail address elizabeth@vet-env.com
ZIP code 47404			

PROJECT INFORMATION

Name of project Monroe County - Fullerton Pike				
Project number 22-48				
Description The site is located at South State Road 37, north of West Fullerton Pike in Bloomington, Indiana. See the attached parcel report card. Parcel Number: 53-08-18-300-001.000-009 Legal Description: 015-02520-01 PT SW 18-8-1W 87.12 A; Plat 11				
Location latitude (decimal degrees or UTM 16 N) 39° 7'35.96"N		Location longitude (decimal degrees or UTM 16 N) 86°34'13.86"W		
County Monroe	Topographic quadrant 8N	Section 18	Township Perry	Range 1W
Project address (number and street, city, state, and ZIP code) (if applicable) South State Road 37, Bloomington, Indiana 47403				
Purpose of request <input type="checkbox"/> Permit Application (DNR, IDEM, USACE) <input type="checkbox"/> Research Project <input type="checkbox"/> Siting Survey <input type="checkbox"/> USDA Rural Development <input checked="" type="checkbox"/> Other: Data required for Desktop Reconnaissance				
Requested search radius <input checked="" type="checkbox"/> Default 0.5 mile <input type="checkbox"/> Custom distance: _____				
Project Funding <input checked="" type="checkbox"/> Private <input type="checkbox"/> Governmental (Local / Federal) <input type="checkbox"/> Educational <input type="checkbox"/> Non-Profit				

FOR OFFICE USE ONLY

Invoice number

Fee

Date returned (month, day, year)

Check number / last four digits credit card number

Paid date (month, day, year)

Division of Nature Preserves
402 W. Washington St., Rm W267
Indianapolis, IN 46204-2739

August 8, 2022

Elizabeth Grubb
VET Environmental Engineering, LLC
2335 West Fountain Drive
Bloomington, IN 47404

Dear Elizabeth Grubb:

I am responding to your request for information on the threatened or endangered (T&E) species, high quality natural communities, and natural areas for the Fullerton Pike Parcel located within Monroe County, Indiana. The Indiana Natural Heritage Data Center has been checked and included you will find a datasheet with information on the T&E species documented within 0.5 mile of the project area.

If you need a review of the impacts to the animal species mentioned or a general environmental review, you can submit the project information to Christie Stanifer, DNR Environmental Coordinator, at environmentalreview@dnr.in.gov (preferred), or send to the street address below. For more help or guidance contact Christie Stanifer at cstanifer@dnr.in.gov.

Department of Natural Resources
Environmental Review
Division of Fish and Wildlife
402 W. Washington Street, Room W273
Indianapolis, IN 46204

The information I am providing does not preclude the requirement for further consultation with the U.S. Fish and Wildlife Service as required under Section 7 of the Endangered Species Act of 1973. If you have concerns about potential Endangered Species Act issues you should contact the Service at their Bloomington, Indiana office.


U.S. Fish and Wildlife Service
620 South Walker St.
Bloomington, Indiana 47403-2121
(812)334-4261

Please note that the Indiana Natural Heritage Data Center relies on the observations of many individuals for our data. In most cases, the information is not the result of comprehensive field surveys conducted at particular sites. Therefore, our statement that there are no documented significant natural features at a site should not be interpreted to mean that the site does not support special plants or animals.

Due to the dynamic nature and sensitivity of the data, this information should not be used for any project other than that for which it was originally intended. It may be necessary for you to request updated material from us in order to base your planning decisions on the most current information.

Thank you for contacting the Indiana Natural Heritage Data Center. You may reach me at (317)233-2558 if you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads "Taylor Davis". The signature is written in black ink on a white background.

Taylor Davis
Indiana Natural Heritage Data Center

Enclosure: invoice
 datasheet

August 8, 2022

INDIANA HERITAGE DATA WITHIN 0.5 MILE OF: Fullerton Pike Parcel, Monroe County

Sci. Name	Com. Name	State	Fed.	Date	Site	Comments
Crustacea: Malacostra (Crayfish)						
<i>Orconectes inermis testii</i>	Troglobitic Crayfish	SR		2005	MAY'S CAVE	
Elliplura: Collembola (Springtails)						
<i>Pseudosinella collina</i>	Hilly Springtail	SR		2005	MAY'S CAVE	
Insect Coleoptera						
<i>Pseudanophthalmus shilohensis mayfieldensis</i>	Monroe cave ground beetle	SE		2005	MAY'S CAVE	
Insect Tricoptera						
<i>Agapetus gelbae</i>	An Agapetus Caddisfly	ST		1946	MAYS SPRING	
Mammal						
<i>Myotis lucifugus</i>	little brown myotis	SE	C	2005	MAY'S CAVE	BAT HIBERNACULUM
<i>Myotis septentrionalis</i>	Northern Long Eared Bat	SE	T; PE	2005	MAY'S CAVE	BAT SUMMER CAPTURE CAVE
<i>Perimyotis subflavus</i>	Tricolored Bat	SE		2005	MAY'S CAVE	BAT HIBERNACULUM
Mollusk Gastropod						
<i>Fontigens cryptica</i>	Hidden Springs Snail	SE		2005	MAY'S CAVE	

Fed: E = Federal endangered; T = Federal threatened; C = Federal candidate species

State: SE = State endangered; ST= State threatened; SR = State rare; SSC = State species of special concern; SG = State significant; WL = watch list; no rank - not ranked but tracked to monitor status

ATTACHMENT 3



SOURCE WATER PROXIMITY DETERMINATION REQUEST

State Form 54297 (R / 3-20)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INSTRUCTIONS: *We encourage you to use our self-service Source Water Proximity Determination Tool if it suits your needs <https://www.in.gov/idem/cleanwater/pages/wellhead/>. For requests that are not suited to the self-service tool, please fill in the following information. Submit this completed form along with relevant documents, including maps, to Drinking Water Branch – Groundwater Section. Upon review, you will be contacted with an official Source Water Proximity Determination documentation.*

Date (MM/DD/YYYY)	07 / 28 / 2022
PERSON REQUESTING THE INFORMATION	
Company Name	VET Environmental Engineering, LLC
Name	Elizabeth Grubb
Address (number and street, city, state, and ZIP code)	2335 West Fountain Drive Bloomington, IN 47404
Telephone Number (with area code)	(812) 822-0400
E-mail Address	elizabeth@vet-env.com
SITE INFORMATION	
Designation Number (if applicable)	N/A
County (list all)	Monroe County
Location Address (number and street, city, state, and ZIP code); Latitude and Longitude; and/or description of site location	The site is located at South State Road 37, north of West Fullerton Pike in Bloomington, Indiana. Parcel Number: 53-08-18-300-001.000-009 Legal Description: 015-02520-01 PT SW 18-8-1W 87.12 A; Plat 11
Additional Comments	See attached parcel report card.
IDEM USE ONLY	
Date Request was Received	/ /
Date Request was Filled	/ /

Please submit this application along with relevant documents to:

E-mail: GWsection@idem.in.gov

Mail: Indiana Department of Environmental Management

Drinking Water Branch – Groundwater Section

100 North Senate Avenue, IGCN 1201

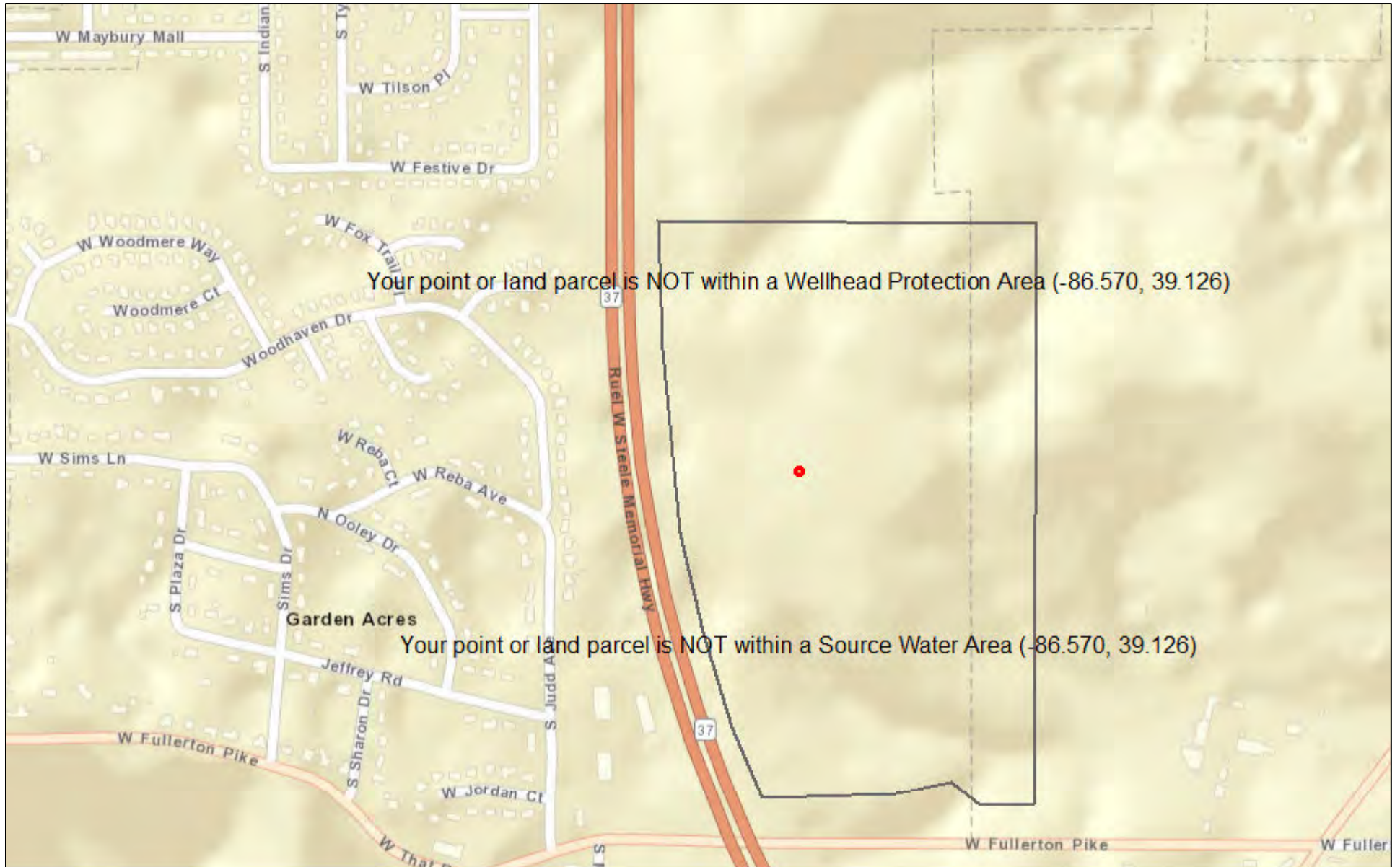
Mail Code 66-33

Indianapolis, IN 46204-2251

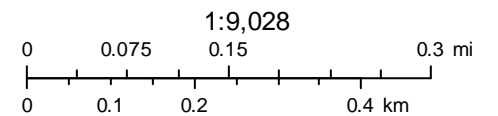
Fax: 317-234-7462

If you have questions please call the Groundwater Section at 317-234-7477.

IDEM Source Water Proximity



July 28, 2022



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

ATTACHMENT 4

NATIONWIDE STANDARD CONSERVATION MEASURES

Listed below are effective measures that should be employed at all project development sites nationwide with the goal of reducing impacts to birds and their habitats. These measures are grouped into three categories: General, Habitat Protection, and Stressor Management. These measures may be updated through time. We recommend checking the Conservation Measures website regularly for the most up-to-date list.

1. General Measures

- a. Educate all employees, contractors, and/or site visitors of relevant rules and regulations that protect wildlife. See the Service webpage on [Regulations and Policies](#) for more information on regulations that protect migratory birds.
- b. Prior to removal of an inactive nest, ensure that the nest is not protected under the Endangered Species Act (ESA) or the Bald and Golden Eagle Protection Act (BGEPA). Nests protected under ESA or BGEPA cannot be removed without a valid permit.
 - i. See the [Service Nest Destruction Policy](#)
- c. Do not collect birds (live or dead) or their parts (e.g., feathers) or nests without a valid permit. Please visit the [Service permits page](#) for more information on permits and permit applications.
- d. Provide enclosed solid waste receptacles at all project areas. Non-hazardous solid waste (trash) would be collected and deposited in the on-site receptacles. Solid waste would be collected and disposed of by a local waste disposal contractor. For more information about solid waste and how to properly dispose of it, see the [EPA Non-Hazardous Waste](#) website.
- e. Report any incidental take of a migratory bird, to the [local Service Office of Law Enforcement](#).
- f. Consult and follow applicable [Service industry guidance](#).

2. Habitat Protection

- a. Minimize project creep by clearly delineating and maintaining project boundaries (including staging areas).
- b. Consult all local, State, and Federal regulations for the development of an appropriate buffer distance between development site and any wetland or waterway. For more information on wetland protection regulations see the Clean Water Act sections [401](#) and [404](#).
- c. Maximize use of disturbed land for all project activities (i.e., siting, lay-down areas, and construction).
- d. Implement standard soil erosion and dust control measures. For example:
 - i. Establish vegetation cover to stabilize soil
 - ii. Use erosion blankets to prevent soil loss
 - iii. Water bare soil to prevent wind erosion and dust issues

3. Stressor Management

Stressor: Vegetation Removal

Conservation Goal: Avoid direct take of adults, chicks, or eggs.

Conservation Measure 1: Schedule all vegetation removal, trimming, and grading of vegetated areas outside of the peak bird breeding season to the maximum extent practicable. Use available resources, such as internet-based tools (e.g., the FWS's Information, Planning and Conservation system and Avian Knowledge Network) to identify peak breeding months for local bird species; or, contact local Service Migratory Bird Program Office for breeding bird information.

Conservation Measure 2: When project activities cannot occur outside the bird nesting season, conduct surveys prior to scheduled activity to determine if active nests are present within the area of impact and buffer any nesting locations found during surveys.

- 1) Generally, the surveys should be conducted no more than five days prior to scheduled activity.
- 2) Timing and dimensions of the area to be surveyed vary and will depend on the nature of the project, location, and expected level of vegetation disturbance.
- 3) If active nests or breeding behavior (e.g., courtship, nest building, territorial defense, etc.) are detected during these surveys, no vegetation removal activities should be conducted until nestlings have fledged or the nest fails or breeding behaviors are no longer observed. If the activity must occur, establish a buffer zone around the nest and no activities will occur within that zone until nestlings have fledged and left the nest area. The dimension of the buffer zone will depend on the proposed activity, habitat type, and species present and should be coordinated with the local or regional Service office.
- 4) When establishing a buffer zone, construct a barrier (e.g., plastic fencing) to protect the area. If the fence is knocked down or destroyed, work will suspend wholly, or in part, until the fence is satisfactorily repaired.
- 5) When establishing a buffer zone, a qualified biologist will be present onsite to serve as a biological monitor during vegetation clearing and grading activities to ensure no take of migratory birds occurs. Prior to vegetation clearing, the monitor will ensure that the limits of construction have been properly staked and are readily identifiable. Any associated project activities that are inconsistent with the applicable conservation measures, and activities that may result in the take of migratory birds will be immediately halted and reported to the appropriate Service office within 24 hours.
- 6) If establishing a buffer zone is not feasible, contact the Service for guidance to minimize impacts to migratory birds associated with the proposed project or removal of an active nest. Active nests may only be removed if you receive a permit from your local Migratory Bird Permit Office. A permit may authorize active nest removal by a qualified biologist with bird handling experience or by a permitted bird rehabilitator.

Conservation Measure 3: Prepare a vegetation maintenance plan that outlines vegetation maintenance activities and schedules so that direct bird impacts do not occur.

Stressor: Invasive Species Introduction

Conservation Goal: Prevent the introduction of invasive plants.

Conservation Measure 1: Prepare a weed abatement plan that outlines the areas where weed abatement is required and the schedule and method of activities to ensure bird impacts are avoided.

Conservation Measure 2: For temporary and permanent habitat restoration/enhancement, use only native and local (when possible) seed and plant stock.

Conservation Measure 3: Consider creating vehicle wash stations prior to entering sensitive habitat areas to prevent accidental introduction of non-native plants.

Conservation Measure 4: Remove invasive/exotic species that pose an attractive nuisance to migratory birds.

Stressor: Artificial Lighting

Conservation Goal: Prevent increase in lighting of native habitats during the bird breeding season.

Conservation Measure 1: To the maximum extent practicable, limit construction activities to the time between dawn and dusk to avoid the illumination of adjacent habitat areas.

Conservation Measure 2: If construction activity time restrictions are not possible, use down shielding or directional lighting to avoid light trespass into bird habitat (i.e., use a 'Cobra' style light rather than an omnidirectional light system to direct light down to the roadbed). To the maximum extent practicable, while allowing for public safety, low intensity energy saving lighting (e.g. low pressure sodium lamps) will be used.

Conservation Measure 3: Minimize illumination of lighting on associated construction or operation structures by using motion sensors or heat sensors.

Conservation Measure 5: Bright white light, such as metal halide, halogen, fluorescent, mercury vapor and incandescent lamps should *not* be used.

Stressor: Human Disturbance

Conservation Goal: Minimize prolonged human presence near nesting birds during construction and maintenance actions.

Conservation Measure 1: Restrict unauthorized access to natural areas adjacent to the project site by erecting a barrier and/or avoidance buffers (e.g., gate, fence, wall) to minimize foot traffic and off-road vehicle uses.

Stressor: Collision

Conservation Goal: Minimize collision risk with project infrastructure and vehicles.

Conservation Measure 1: Minimize collision risk with project infrastructure (e.g., temporary and permanent) by increasing visibility through appropriate marking and design features (e.g., lighting, wire marking, etc.).

Conservation Measure 2: On bridge crossing areas with adjacent riparian, beach, estuary, or other bird habitat, use fencing or metal bridge poles (Sebastian Poles) that extend to the height of the tallest vehicles that will use the structure.

Conservation Measure 3: Install wildlife friendly culverts so rodents and small mammals can travel under any new roadways instead of over them. This may help reduce raptor deaths associated with being struck while tracking prey or scavenging road kill on the roadway.

Conservation Measure 4: Remove road-kill carcasses regularly to prevent scavenging and bird congregations along roadways.

Conservation Measure 5: Avoid planting “desirable” fruited or preferred nesting vegetation in medians or Rights of Way.

Conservation Measure 6: Eliminate use of steady burning lights on tall structures (e.g., >200 ft).

Stressor: Entrapment

Conservation Goal: Prevent birds from becoming trapped in project structures or perching and nesting in project areas that may endanger them.

Conservation Measure 1: Minimize entrapment and entanglement hazards through project design measures that may include:

1. Installing anti-perching devices on facilities/equipment where birds may commonly nest or perch
2. Covering or enclosing all potential nesting surfaces on the structure with mesh netting, chicken wire fencing, or other suitable exclusion material prior to the nesting season to prevent birds from establishing new nests. The netting, fencing, or other material must have no opening or mesh size greater than 19 mm and must be maintained until the structure is removed.
3. Cap pipes and cover/seal all small dark spaces where birds may enter and become trapped.

Conservation Measure 2: Use the appropriate deterrents to prevent birds from nesting on structures where they cause conflicts, may endanger themselves, or create a human health and safety hazard.

1. During the time that the birds are trying to build or occupy their nests (generally , between April and August, depending on the geographic location), potential nesting

- surfaces should be monitored at least once every three days for any nesting activity, especially where bird use of structures is likely to cause take. It is permissible to remove non-active nests (without birds or eggs), partially completed nests, or new nests as they are built (prior to occupation). If birds have started to build any nests, the nests shall be removed before they are completed. Water shall not be used to remove the nests if nests are located within 50 feet of any surface waters.
2. If an active nest becomes established (i.e., there are eggs or young in the nest), all work that could result in abandonment or destruction of the nest shall be avoided until the young have fledged or the nest is unoccupied. Construction activities that may displace birds after they have laid their eggs and before the young have fledged should not be permitted. If the project continues into the following spring, this cycle shall be repeated. When work on the structure is complete, all netting shall be removed and properly disposed of.

Stressor: Noise

Conservation Goal: Prevent the increase in noise above ambient levels during the nesting bird breeding season.

Conservation Measure 1: Minimize an increase in noise above ambient levels during project construction by installing temporary structural barriers such as sand bags

Conservation Measure 2: Avoid permanent additions to ambient noise levels from the proposed project by using baffle boxes or sound walls.

Stressor: Chemical Contamination

Conservation Goal: Prevent the introduction of chemicals contaminants into the environment.

Conservation Measure 1: Avoid chemical contamination of the project area by implementing a Hazardous Materials Plan. For more information on hazardous waste and how to properly manage hazardous waste, see the [EPA Hazardous Waste](#) website.

Conservation Measure 2: Avoid soil contamination by using drip pans underneath equipment and containment zones at construction sites and when refueling vehicles or equipment.

Conservation Measure 3: Avoid contaminating natural aquatic and wetland systems with runoff by limiting all equipment maintenance, staging laydown, and dispensing of fuel, oil, etc., to designated upland areas.

Conservation Measure 4: Any use of pesticides or rodenticides shall comply with the applicable [Federal and State laws](#).

1. Choose [non-chemical](#) alternatives when appropriate
2. Pesticides shall be used only in accordance with their registered uses and in accordance with the manufacturer's instructions to limit access to non-target species.

3. For general measures to reducing wildlife exposure to pesticides, see EPA's [Pesticides: Environmental Effects](#) website.

Stressor: Fire

Conservation Goal: Minimize fire potential from project-related activities.

Conservation Measure 1: Reduce fire hazards from vehicles and human activities (e.g., use spark arrestors on power equipment, avoid driving vehicles off road).

Conservation Measure 2: Consider fire potential when developing vegetation management plans by planting temporary impact areas with a palette of low-growing, sparse, fire resistant native species that meet with the approval of the County Fire Department and local FWS Office.

U.S. Fish & Wildlife Service

Birds of Conservation Concern 2021

Migratory Bird Program



Table Of Contents

Executive Summary	4
Acknowledgments	5
Introduction	6
Methods	7
Geographic Scope	7
Birds Considered	7
Assessing Conservation Status	7
Identifying Birds of Conservation Concern	10
Results and Discussion	11
Literature Cited	13
Figures	15
Figure 1. Map of terrestrial Bird Conservation Regions (BCRs) Marine Bird Conservation Regions (MBCRs) of North America (Bird Studies Canada and NABCI 2014). See Table 2 for BCR and MBCR names.	15
Tables	16
Table 1. Island states, commonwealths, territories and other affiliations of the United States (USA), including the USA territorial sea, contiguous zone and exclusive economic zone considered in the development of the Birds of Conservation Concern 2021.	16
Table 2. Terrestrial Bird Conservation Regions (BCR) and Marine Bird Conservation Regions (MBCR) either wholly or partially within the jurisdiction of the Continental USA, including Alaska, used in the Birds of Conservation Concern 2021.	17
Table 3. Birds of Conservation Concern 2021 in the Continental USA (CON), continental Bird Conservation Regions (BCR), Puerto Rico and Virgin Islands (PRVI), and Hawaii and Pacific Islands (HAPI). Refer to Appendix 1 for scientific names of species, subspecies and populations Breeding (X) and nonbreeding (nb) status are indicated for each geography. Parenthesized names indicate conservation concern only exists for a specific subspecies or population.	18
Table 4. Numbers of taxa of Birds of Conservation Concern 2021 represented on the Continental USA (CON), continental Bird Conservation Region (BCR), Puerto Rico and Virgin Islands (PRVI), Hawaii and Pacific Islands (HAPI) lists by general taxonomic groups. Also presented are the unique taxa represented on all lists.	24
Table 5. Birds of Conservation Concern 2021 designated within BCRs 1, 2, 3, 4 and MBCRs 13, 14, 15. See Table 2 for descriptions of BCRs and MBCRs, Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds.	25

Table 6. Birds of Conservation Concern 2021 designated within BCRs 5, 10, 15, 32 and MBCR 17. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds. 26

Table 7. Birds of Conservation Concern 2021 designated within BCRs 9, 16, 33, 34, 35 and 36. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds. 28

Table 8. Birds of Conservation Concern 2021 designated within BCRs 11, 17, 18, 19, 20, 21, 37 and MBCR 20. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds. 30

Table 9. Birds of Conservation Concern 2021 designated within BCRs 12, 13, 22, 23, 24, 25, 26, 28 and 29. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds. 32

Table 10. Birds of Conservation Concern 2021 designated within BCRs 14, 27, 30, 31 and MBCR 18, 19. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds. 34

Appendices 36

Appendix 1. Common and scientific names of species, subspecies, and populations designated as Birds of Conservation Concern 2021, listed as threatened or endangered under the USA Endangered Species Act, considered as extinct in the wild, or included as non-migratory birds on the Watch Lists of the State of the Birds (Rosenberg et al. 2014) or in the Avian Conservation Assessment Database (Partners in Flight 2019). Taxonomic sequence and nomenclature follow the American Ornithologists' Union Check-list of North American Birds, 7th Edition (1983), through the 61th supplement (Chesser et al. 2020). Subspecies and population nomenclature follow Andres et al. (2012) and Clements et al. (2019); nomenclature for Pacific island species follows Clements et al. (2019). 36

Appendix 2. Numbers of Birds of Conservation Concern 2021, non-migratory birds on the Watch Lists in the 2014 State of the Birds (Rosenberg et al. 2014) or Avian Conservation Assessment Database (Partners in Flight 2019), species or populations listed as threatened or endangered under the ESA, and extinct species or populations for the Continental USA, Puerto Rico and the Virgin Islands, and Hawaii and the Pacific Islands. Shared taxa assigned to breeding area list or by greatest abundance. 47



Allen's Hummingbird, Brima Battle/USFWS

Executive Summary

The 1988 amendment to the Fish and Wildlife Conservation Act mandates the U.S. Fish and Wildlife Service (USFWS) to identify species, subspecies and populations (hereafter taxa) of all migratory nongame birds that without additional conservation action are likely to become candidates for listing under the Endangered Species Act (ESA) of 1973. The Birds of Conservation Concern 2021 (BCC 2021) is the most recent effort to carry out this mandate. The overall goal of this report is to identify those bird taxa (beyond those already designated as federally threatened or endangered) that represent the highest conservation priorities of the USFWS. The BCC 2021 is intended to stimulate coordinated, collaborative and proactive conservation actions among international, federal, state, tribal and private partners.

The geographic scope of this endeavor is the United States of America (USA) in its entirety, including island states, commonwealths and territories in the Pacific Ocean and Caribbean Sea and the marine areas delineated as territorial sea, contiguous zone and exclusive economic zone. The BCC 2021 encompasses four distinct geographic scales: 1) the Continental USA, including Alaska; 2) Pacific Ocean islands, including Hawaii; 3) Puerto Rico, the U.S. Virgin Islands and Navassa; and 4) continental Bird Conservation Regions (BCRs) and Marine Bird Conservation Regions (MBCRs), as defined by Bird Studies Canada and NABCI (2014). New to the BCC 2021 is the explicit inclusion of MBCRs.

Bird taxa considered for the BCC 2021 lists include nongame birds, gamebirds without hunting seasons or where harvest is minimal, and subsistence-hunted nongame birds in Alaska. Excluded from consideration for the BCC 2021 are bird species not protected under the Migratory Bird Treaties (Federal Register 2020a), taxa already listed as threatened or endangered under the ESA, or taxa that only occur irregularly or peripherally in the USA. Our conservation assessment was based on several factors, including population abundance and trends, threats on breeding and nonbreeding grounds, and size of breeding and nonbreeding ranges. The factor scores and associated thresholds used for identifying birds of conservation concern in the 2014 State of the Birds Watch List (Rosenberg et al. 2014) and the Avian Conservation Assessment Database (Partners in Flight 2019, Punjabi et al. 2019) served as the foundation on which we developed the BCC 2021 lists. Thus, we sought consistency of the BCC 2021 with priorities

identified through these other efforts, noting that appropriate differences do occur due to the unique scope and mandate of the Birds of Conservation Concern. The BCC 2021 also represents the first time we tried to unify the assessment system among waterbirds, shorebirds and landbirds.

The BCC 2021 identifies 269 individual bird taxa of conservation concern. Of these, 135 taxa are of conservation concern at the Continental scale, 88 taxa at the BCR scale, 29 taxa on Puerto Rico and the Virgin Islands, and 35 taxa on Hawaii and the Pacific Islands; 18 taxa identified on the Continental/BCR lists are shared with either Puerto Rico and the Virgin Islands or Hawaii and the Pacific Islands. The number of taxa on the Hawaii/Pacific Island list appears deceptively low, because a high number of birds there are already listed under the ESA. The number of taxa listed within a BCR, which includes those identified as conservation concern at the Continental or BCR scales, ranges from 12 taxa in the Arctic Plains and Mountains to 49 taxa in Coastal California, with an average of 25.4 taxa per BCR. Among MBCRs, the number of taxa ranged from two taxa in the Chuckchi and Beaufort Seas to 13 taxa in the California Current, with an average of 7.4 taxa per MBCR.

Although the bird taxa included in the BCC 2021 are priorities for conservation action, this list makes no finding with regard to whether they warrant consideration for ESA listing. Our goal is to eliminate the need for additional ESA bird listings by implementing proactive management and conservation actions that sustain populations well above thresholds of endangerment. We recommend that these lists be consulted in accordance with Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. Many of the taxa identified herein are targets of ongoing conservation attention by national and international initiatives (e.g., Partners in Flight, U.S. Shorebird Conservation Partnership), Migratory Bird Joint Ventures, state and federal natural resource agencies, non-governmental organizations, and other partnerships.

Acknowledgments

This document was the result of collaboration among past and present staff in all regions of the USFWS's Migratory Bird Program. The primary collaborators were Brad Andres, Roxanne Bogart, Bob Ford, Eric Kershner, Terry Rich, and Jennifer Wheeler (Headquarters); Mike Green, Vanessa Loverti, and Roberta Swift (Pacific Region); Carol Beardmore, Bill Howe, Dave Krueper and Bill Vermillion (Southwest Region); Steve Lewis, Bob Russell (deceased) and Tom Will (Midwest Region); Dean Demarest and Troy Wilson (Southeast Region); Randy Dettmers, Debra Reynolds and Caleb Spiegel (Northeast Region); Scott Somershoe (Mountain-Prairie Region); Jim Johnson, Rick Lanctot and Steve Matsuoka (Alaska Region); and Rob Doster and Thomas Leeman (Pacific Southwest Region).



Reddish Egret, Keenan Adams/USFWS

Contributors to the assessments for landbirds and shorebirds beyond the USFWS Migratory Bird Program included Jim Giocomo, Casey Lott, Rebecca Keller, Anne Mini, Mike Parr, David Pashley (deceased), George Wallace, and David Wiedenfeld (American Bird Conservancy); Arvind Panjabi and Allison Shaw (Bird Conservancy of the Rockies); Andrew Couturier (Bird Studies Canada); Ken Rosenberg (Cornell Laboratory of Ornithology); Peter Blancher, Alaine Camfield, Wendy Easton, and Judith Kennedy (Environment and Climate Change Canada); Nancy Douglass (Florida Fish & Wildlife Conservation Commission); John Alexander (Klamath Bird Observatory); Lower Mississippi Valley Joint Venture Science Committee; Lindsay Tudor (Maine Department of Inland Fisheries and Wildlife); Stephen Brown, Rob Clay, and Brad Winn (Manomet); Sara Schweitzer (North Carolina Wildlife Resources Commission); Catherine Hickey (Point Blue Conservation Sciences); Felicia Sanders (South Carolina Department of Natural Resources); David Mehlman (The Nature Conservancy); Greg Butcher (USDA Forest Service); Chuck Hunter (USFWS National Wildlife Refuge System); Janet Ruth and Jessica Stanton (U.S. Geological Survey [USGS]); David Kremetz (USGS Arkansas Cooperative Fish and Wildlife Research Unit); and Henning Stabins (Weyerhaeuser Company). Linda Wires (Consultant Biologist) and numerous other individuals contributed to the waterbird assessment.

This edition of the BCC 2021 is dedicated to the original USFWS “Nongame 7” who retired since the previous publication of the Birds of Conservation Concern: Tara Zimmerman (Pacific Region), Bill Howe (Southwest Region), Steve Lewis (Midwest Region), Stephanie Jones (Mountain-Prairie Region), and Kent Wohl (Alaska Region). They all contributed significantly to past versions of the Birds of Conservation Concern and thereby supported the development of this report.

Suggested Citation: U.S. Fish and Wildlife Service. 2021. Birds of Conservation Concern 2021. United States Department of the Interior, U.S. Fish and Wildlife Service, Migratory Birds, Falls Church, Virginia. <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>

Introduction

A Congressional amendment to the Fish and Wildlife Conservation Act (16 U.S.C. 2901–2912) in 1988 directed the Secretary of Interior, through the U.S. Fish and Wildlife Service (USFWS), to “identify species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become candidates for listing under the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543)”. The intent of the legislation was to stimulate coordinated and proactive conservation actions among federal, state and tribal governments, non-governmental organizations (NGOs), and private partners in the United States (USA) before birds require protection under the ESA. Even prior to the passage of this amendment, the USFWS was providing periodic assessments of migratory birds that might become candidates for listing under the ESA, generating the first list of migratory nongame birds of management concern in 1982 (U.S. Fish and Wildlife Service 1982). Since that time, five additional lists have been published (U.S. Department of the Interior 1990; U.S. Fish and Wildlife Service 1987, 1995, 2002, 2008).

The Birds of Conservation Concern 2021 (BCC 2021) presented here is the most recent effort by the USFWS to carry out the Fish and Wildlife Conservation Act’s proactive conservation mandate and updates the Birds of Conservation Concern (BCC) 2008 (U.S. Fish and Wildlife Service 2008). Development of the BCC 2021 aligns with the USFWS mission of “working with others to conserve, protect, and enhance fish, wildlife, plants and their habitats for the continuing benefit of the American people” and meets the current USFWS objective to “guide the conservation, development, and management of the Nation’s fish and wildlife resources”. The overall goal of the BCC 2021 is to identify, by geography, those nongame migratory birds (beyond those already federally listed as threatened or endangered) in greatest need of conservation attention.

The philosophy underlying the BCC reports is that proactive bird conservation is critical at a time when continued human impacts will be intensified by effects of a changing climate. By investing in actions for designated BCC taxa, we can prevent further degradation to environments that we all share, improve the odds for successful long-term conservation, and avoid the complexities associated with federal ESA listing. Proactive conservation is recognized as being more cost-effective than the

recovery efforts required once a bird is listed under the ESA (e.g., Drechsler et al. 2011).

Because it is mandated by law and produced by the USFWS, federal agencies, international NGOs and foreign governments view the BCC list as the official USA Government position on migratory nongame birds of conservation concern. The BCC list is also used to identify priority wetland birds for evaluating North American Wetlands Conservation Act proposals, used in scoring of Neotropical Migratory Bird Conservation Act proposals, and referenced in Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. To promote more consistency among organizations developing various lists of birds of conservation concern, the BCC 2021 closely followed the methods used to generate the Watch List for the 2014 State of the Birds (Rosenberg et al. 2014), 2016 Partners in Flight Landbird Conservation Plan (Rosenberg et al. 2016) and Avian Conservation Assessment Database (Partners in Flight 2019). However, the BCC 2021 differs somewhat from these lists because of its unique scope and mandate.



Cerulean Warbler, Jerry Oldenettel CC BY 2.0

Methods

Geographic Scope

The geographic scope of the BCC 2021 consists of the entirety of the lands and waters of the USA, including states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean. Also included in the geographic scope are marine boundaries defined as the territorial sea, contiguous zone and exclusive economic zone (see <https://www.nauticalcharts.noaa.gov/csdl/mbound.htm>). To facilitate use and interpretation of the BCC 2021, we organized the presentation into four geopolitical and ecoregional groupings: 1) Continental USA, including Alaska; 2) Puerto Rico and the U.S. Virgin Islands, 3) Hawaii and the Pacific Islands, and 4) continental Bird Conservation Regions (BCRs) and Marine Bird Conservation Regions (MBCRs). Offshore jurisdictional waters associated with Hawaii and the Pacific Islands and Puerto Rico and the U.S. Virgin Islands are included in their respective regions. We decided to treat states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean separately because of the high endemism and high vulnerability of island avifauna (Kier et al. 2009). Descriptions of states, commonwealths, territories and other affiliations in the Caribbean Sea and Pacific Ocean are provided in Table 1, and BCRs and MBCRs are described in Table 2 and illustrated in Figure 1. For details on BCRs and MBCRs, please see Bird Studies Canada and NABCI (2014).

Birds Considered

The taxonomic scope for the BCC 2021 is bounded by the Migratory Bird Treaties that the USA has with Canada (1916), Mexico (1936), Japan (1972) and Russia (1976). The USFWS periodically updates the list of migratory birds covered by these treaties, which usually results from changes in taxonomy, status or distribution. The most recent published list of migratory birds (Federal Register 2020b) was used as the basis for developing the BCC 2021. Within this list, birds considered for inclusion in the BCC 2021 either do not have sport-hunting seasons in the USA or have sporting-hunting seasons where little harvest occurs (e.g., rails). Birds that are not sport-hunted in the lower 48 states but are hunted for subsistence in Alaska are also considered. Because the intent of BCC is to highlight potential candidate birds where ESA listing could be averted through proactive conservation attention, the BCC 2021 further excludes any species, subspecies or population of bird already listed as threatened or endangered under ESA. We also eliminated from consideration any bird that currently occurs as an accidental species in the USA per the AOU

Checklist (1983) and subsequent updates, or that was introduced into the USA by humans (Federal Register 2005). Although there is a conservation benefit to protecting accidental species that may potentially expand their regular range into the U.S. in the future, additional conservation actions are not currently necessary and would have little effect on the present status of those species. We use the term “taxon” or “taxa” to refer to species, subspecies and delineated populations of birds considered for the BCC 2021.

To present a more comprehensive perspective on the conservation status of birds within the jurisdictions of the USA, we provide additional information in Appendix 1 on taxa that do not fall within the scope of the BCC 2021 but were identified on the Watch Lists of the State of the Birds (Rosenberg et al. 2014) or in the Avian Conservation Assessment Database (Partners in Flight 2019); were listed as endangered or threatened under the ESA as of January 15, 2021; or are believed to be extinct. To our knowledge, a comprehensive presentation of all birds with an elevated conservation status within the USA was heretofore unavailable.

In general, common and scientific names of birds are presented at the species level, except where it is necessary to differentiate among taxa of a species that may occur in the USA but differ in their conservation status among geographic scales or populations (e.g., taxa listed under the ESA). Relevant taxa of island populations are also identified. Geographic and other modifiers are used throughout the tables to aid in identifying such differentiation, particularly at the BCR and MBCR scales. Species-level classification generally follows the American Ornithologists’ Union’s Checklist of North American Birds, 7th Edition (1983), including changes and supplements through the 61st supplement in 2020 (Chesser et al. 2020). Subspecies and population classification and species classification in the Pacific Islands generally follows Clements et al. (2019), with some exceptions for shorebirds (see Andres et al. 2012).

Assessing Conservation Status

The BCC 2021 represents the first application of a unified approach to evaluate the conservation status of landbirds, shorebirds and waterbirds for the BCC — an approach greatly facilitated through the efforts to promote consistency during the development of the State of the Birds Watch List in 2014 (Rosenberg et al. 2014). Although the overall approach to evaluate conservation status across all

bird groups for the BCC 2021 is now more consistent than previous BCC assessments, data availability and quality still vary widely among taxonomic groups.

Scoring factors and criteria developed by Partners in Flight (Rosenberg et al. 2016, Panjabi et al. 2019) were the primary means for evaluating conservation status of landbirds, shorebirds, and waterbirds. For areas or taxa where it was not possible to directly apply this evaluation approach, we consulted State Wildlife Action Plans for American Samoa (Department of Marine and Wildlife Resources 2006, 2015), Guam (Guam Division of Aquatic and Wildlife Resources 2006), Hawaii (Hawai'i Department of Land and Natural Resources 2015), the Northern Mariana Islands (Liske-Clark 2015), Puerto Rico (Puerto Rico Department of Natural and Environmental Resources 2015), and the U.S. Virgin Islands (Platenberg and Valiulis 2018). We also consulted the IUCN Red List of Threatened Species (2019), particularly for seabirds.

The intent of the assessment for landbirds, shorebirds and waterbirds is to emphasize their

conservation status relative to the entire USA. The conservation status of many landbirds reflects their global status, in the case of entire species that breed in, migrate through or winter in the USA. In contrast, most waterbirds and shorebirds tend to have cosmopolitan distributions, and their conservation at the species level includes populations occurring outside of the USA; therefore, we evaluated several species of shorebirds and waterbirds at the North American population scale. At the BCR and MBCR scales, we evaluated the conservation status of taxa relative to each region, to the degree available data and current understanding allowed.

Scores ranging from one to five were assigned to each of six assessment factors, which are presented below along with scoring criteria (see Panjabi et al. 2019 for details). Data on these six factors were recently updated for shorebirds (U.S. Shorebird Conservation Partnership 2016), landbirds (Partners in Flight 2019) and waterbirds (BirdLife International 2015; Wetlands International 2015; Partners in Flight 2019; L. Wires, unpublished data).



Black-footed Albatross pair, Dan Clark/USFWS

Population Size (PS).

The current estimated number of individuals of a taxon. The factor generally refers to the number of breeding adults but varies somewhat among taxonomic groups due to differing biology and estimation methods.

Score	Criterion
1	≥50,000,000 individuals
2	≥5,000,000 and <50,000,000 individuals
3	≥500,000 and <5,000,000 individuals
4	≥50,000 and <500,000 individuals
5	<50,000 individuals

Breeding Distribution (BD) and Nonbreeding Distribution (ND).

This factor is generally derived from maps developed by NatureServe (2015) and Birdlife International (2015). All range sizes are derived from two-dimensional polygons. For island-breeding seabirds, the breeding distribution generally refers to the size of their nesting islands and does not include pelagic foraging areas, which are hard to delineate for many taxa.

Score	Criterion
1	≥4,000,000 km ²
2	≥1,000,000 and <4,000,000 km ²
3	≥300,000 and <1,000,000 km ²
4	≥80,000 and <300,000 km ²
5	<80,000 km ²

Breeding Threats (TB) and Nonbreeding Threats (TN).

Threats were evaluated based on the cumulative level of significance to the future viability of a taxon within the geographic region of interest. For taxa that are widely dispersed during migration (e.g., landbirds), TN primarily reflects threats during the boreal winter; for groups that aggregate during migration (e.g., shorebirds), TN reflects migration and wintering threats.

Score	Criterion
1	Future conditions are expected to significantly improve for the majority of the taxon.
2	Future conditions are expected to remain stable; no significant threats.
3	Slight to moderate decline in the future suitability of conditions is expected for the majority of the taxon.
4	Severe deterioration in the future suitability of conditions is expected for the majority of the taxon.
5	Extreme deterioration in the future suitability of conditions is expected.

Population Trend (PT).

Forty-year trends from the Breeding Bird Survey (Criterion 1; see <https://www.mbr-pwrc.usgs.gov/>) provided information on the majority of landbirds. For waterbirds and shorebirds, information was used from a variety of sources and was less comprehensive and quantitative (Criterion 2).

Score	Criterion 1	Criterion 2
1	change ≥ 50%; P ≤ 0.1	significant large increase
2	change 0 to 50%; P ≤ 0.1 change > 0%; P ≤ 0.33 change > -15%; P ≤ 0.33; reliable	significant small increase possible increase stable
3	P > 0.33; unreliable or change ≤ -15%; P > 0.33; reliable change -15% to 0%; 0.1 < P < 0.33 change -15% to 0%; P ≤ 0.1	uncertain population change possible small decrease significant small decrease
4	change -15% to -50%; 0.1 < P < 0.33 change -15% to -50%; P ≤ 0.1 change ≤ -50%; 0.1 < P < 0.33	moderate decrease possible large decrease
5	change ≤ -50%; P ≤ 0.1	significant large decrease

Relative Density (RD).

Relative Density is an additional factor assessed at the BCR/MBCR scale but not at the continental scale. RD scores reflect the mean density of a taxa within a BCR/MBCR relative to density in the single BCR/MBCR in which the taxa occurs in its highest density (Panjabi et al. 2019). Nonbreeding season scores and those for MBCRs were often generated using expert opinion).

Score	Quantitative Criterion		Qualitative Criterion
	Relative abundance	Relative frequency	
0		BCR relative frequency < 1.5% of the maximum relative frequency	has occurred only irregularly, or strong evidence of regular occurrence is lacking
1	BCR relative abundance < 1% of the maximum relative abundance	BCR relative frequency 1.5-3.6% of maximum relative frequency	occurs regularly but in very small numbers or in only a very small part of the region in question
2	BCR relative abundance 1-10% of maximum relative abundance	BCR relative frequency 3.6-21.7% of maximum relative frequency	occurs in low mean abundance relative to the region(s) in which the taxa occurs in maximum density
3	BCR relative abundance 10-25% of maximum relative abundance	BCR relative frequency 21.7-44.6% of maximum relative frequency	occurs in moderate mean abundance relative to the region(s) in which the taxa occurs in maximum density
4	BCR relative abundance 25-50% of maximum relative abundance	BCR relative frequency 44.6-68.1% of maximum relative frequency	occurs in moderately high mean abundance relative to the region(s) in which the taxa occurs in maximum density
5	BCR relative abundance > 50% of maximum relative abundance	BCR relative frequency > 68.1% of maximum relative frequency	occurs in high mean abundance, similar to the region(s) in which the taxa occurs in maximum density

Identifying Birds of Conservation Concern

The following Combined Continental Scores (CCS) of factors and scoring thresholds, based primarily on Panjabi et al. (2019), were used to identify taxa of elevated conservation concern:

$$\text{CCS}(\text{max}) \geq 14 \text{ or} \\ \text{CCS}(\text{max}) = 13 \text{ and } \text{PT} = 5, \text{ where}$$

CCS(max) is the maximum score of either CCS(B) or CCS(N),
CCS(B) is Combined Continental Score (Breeding) = PS + BD + TB + PT, and
CCS(N) is Combined Continental Score (Nonbreeding) = PS + ND + TN + PT.

The above criteria are consistent with a breeding season Watch List designation at a North American continental scale (USA and Canada) in the recently published version of the Avian Conservation Assessment Database (Panjabi et al. 2019).

To be included as a Bird of Conservation Concern at the BCR or MBCR scale, a taxon had to meet the Watch List criteria above and had to occur regularly within the region at a manageable level ($\text{RD} \geq 2$). Taxa breeding in a BCR were generally assessed using the quantitative criteria, whereas nonbreeding taxa were most often assessed using the qualitative criteria.

At the BCR scale, we identified additional taxa that did not meet the criteria for the BCC 2021 Continental list (Watch List) but were nonetheless

of elevated conservation concern regionally. Taxa included as birds of conservation concern at the BCR scale had $\text{RD} \geq 2$ and met the following scoring thresholds, based on the Partners in Flight action codes (Panjabi et al. 2019) at the regional scale:

- 1) TB or TN = 5 (Critical Recovery); or
- 2) TB or TN = 4 and PT = 5 (Immediate Management); or
- 3) Combined Regional Breeding Score (CRBS) ≥ 17 , and
 - a) TB or TN = 3 and PT ≥ 4 or (Management Attention)
 - b) TB or TN = 4 and PT < 5 (Management Attention).

The CRBS is equivalent to the CCS(B) + RD. Inclusion of nonbreeding taxa at the BCR level was generally based on expert opinion, because BCR-scale nonbreeding scores are not yet incorporated into the Avian Conservation Assessment Database (Panjabi et al. 2019).

These regional criteria for the BCC 2021 were more stringent than the criteria used in the Avian Conservation Assessment Database to identify species of regional concern (Panjabi et al. 2019) but better address the overall mandate of the BCC. A few taxa below the species level were elevated to the Continental list due to continued concern expressed by partners or were subspecies unique to North America (e.g., Swallow-tailed Kite, Gray-headed Chickadee).

Results and Discussion

The BCC 2021 identifies 269 individual bird taxa of conservation concern (Appendix 1). Of these, 135 taxa are of conservation concern at the Continental scale, 88 taxa at the BCR scale, 29 taxa on Puerto Rico and the Virgin Islands and 35 taxa on Hawaii and the Pacific Islands; 18 taxa identified on the Continental/BCR lists are shared with either Puerto Rico and the Virgin Islands or Hawaii and the Pacific Islands (Table 3). The number of taxa on the Hawaii/Pacific Island list appears deceptively low, because a relatively high number of birds there are already listed under the ESA or are extinct (Appendix 2). A few of the taxa identified in the BCC 2021 are currently being considered for listing or de-listing under the ESA.

All major bird groups are represented in the BCC 2021, but shorebirds, seabirds and some landbirds have particularly high representation (Table 4). Of eligible taxa, 53% of shorebirds and 48% of seabirds met criteria for inclusion in the BCC 2021. Based on habitat designations of landbirds provided in Rosenberg et al. (2019), which apply to the Continental and BCR scales (Table 4), a high percentage of taxa inhabiting grasslands (54%)

and aridlands (47%) were included in the BCC 2021, as were aerial insectivores (31%). Excluding aridland birds, the other groups experienced the greatest losses of individuals over the last fifty years (Rosenberg et al. 2019).

The BCR/MBCR lists incorporate the 135 taxa of Continental concern where they are considered to occur at manageable levels and include an additional 88 taxa of regional concern within specific BCRs or MBCRs. The number of taxa listed within a BCR ranges from 12 taxa in the Arctic Plains and Mountains to 49 taxa in Coastal California, with an average of 25.4 taxa per BCR (see Tables 5-10). Among MBCRs, the number of taxa ranged from two taxa in the Chuckchi and Beaufort Seas to 13 taxa in the California Current, with an average of 7.4 taxa per MBCR (see Tables 5, 6, 8 and 10).

The BCC 2021 is the latest update in a continuing effort to assess and prioritize migratory birds for conservation purposes (U.S. Department of the Interior 1990; U.S. Fish and Wildlife Service 1982, 1987, 1995, 2002, 2008). Overall, it is difficult to make meaningful comparisons among the lists over the years because of differences in the way each list was constructed. However, the 2021 and 2008 lists were most similar in the assessment approach, with the exception of inclusion of some taxa in 2008 not considered in 2021. Accounting for this difference, the number of taxa was essentially the same on the Continental list between years (133 versus 132 in 2008), had a small increase (8%) on Puerto Rico/Virgin Islands list (28 versus 26 in 2008), and a significant increase (52%) on the Hawaii/Pacific Islands list (35 versus 23 in 2008). Between years, nine taxa identified in the 2008 BCC were listed under the ESA in 2021, and three species de-listed during the period were included in BCC 2021. The increase in Hawaii and the Pacific Islands is attributed to a more thorough treatment of Pacific Islands beyond Hawaii and inclusion of more seabird taxa; additional nonbreeding seabird taxa occurring in continental USA waters were included on the Continental list. Similar numbers of taxa were identified at the BCR level in 2008 and 2021 (84 taxa versus 83). Notwithstanding these differences, a number of taxa identified in 2008 are not included in the BCC 2021, which reflects a real change in our understanding of current conservation status. We do not present USFWS Region lists in 2021 as we did in 2008 and recognize the current acceptance of BCRs and MBCRs as fundamental conservation planning and implementation units.



Wilson's Plover. Russ/CC BY 2.0

The State of the Birds produced in 2014 (North American Bird Conservation Initiative, U.S. Committee 2014) provides more details on how land-use change and other environmental threats affect birds in the major ecosystems in the USA, and a more recent analysis provides an overview of declines and losses of birds in North America (Rosenberg et al. 2019). As with the results presented in the BCC 2021, island birds, grassland birds, seabirds and shorebirds demonstrate the greatest conservation need. Although we did not build specific climate change scoring into the current assessment, the 2010 State of the Birds provided an overview of climate change effects on USA birds (North American Bird Conservation Initiative, U.S. Committee 2010). Future updates to the Birds of Conservation Concern might consider including measures of the potential effects of climate change.

Although all of the bird taxa included in the BCC 2021 are priorities for conservation action, this list makes no finding with regard to whether they warrant consideration for ESA listing. Our goal is to avert the need for additional ESA bird listings by implementing and coordinating implementation of proactive management and conservation actions. We recommend that these lists be consulted in accordance with Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. The BCC 2021 is intended to stimulate coordinated and collaborative proactive conservation actions among federal, state, tribal and private partners. Many of the taxa identified herein are targets of ongoing conservation attention by national and international initiatives (e.g., Partners in Flight, U.S. Shorebird Conservation Partnership), Migratory Bird Joint Ventures, state and federal natural resource agencies, NGOs, and other partnerships.

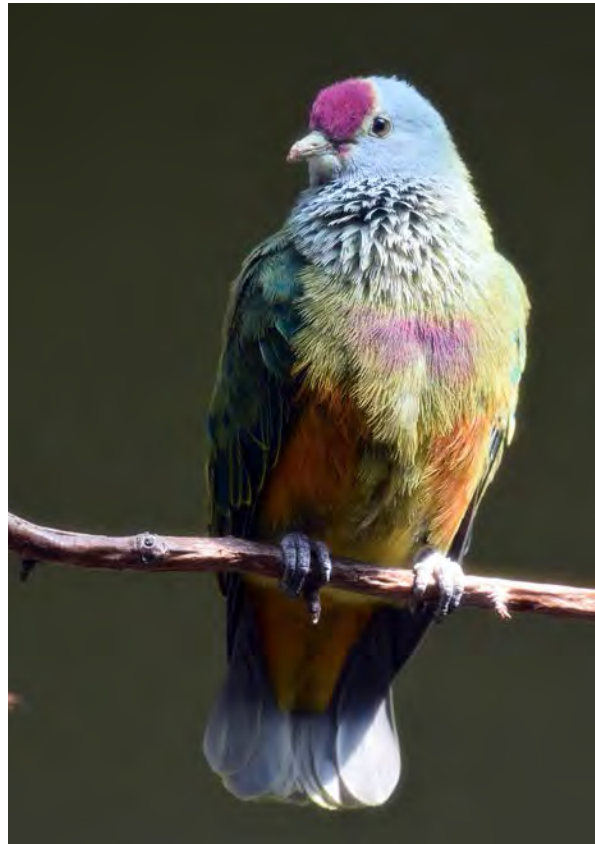


Eastern Whip-poor-will, Susan Young/CC1.0

Literature Cited

- American Ornithologists' Union. 1983. Check-list of North American Birds, 7th edition. American Ornithologists' Union, Washington, D.C.
- Andres, B. A., P. A. Smith, R. I. G. Morrison, C. L. Gratto-Trevor, S. C. Brown, and C. A. Friis. 2012. Population estimates of North American shorebirds, 2012. *Wader Study Group Bulletin* 119: 178–194.
- BirdLife International. 2015. Data Zone. <http://datazone.birdlife.org>. Accessed on 6 October 2015.
- Bird Studies Canada and NABCI. 2014. Bird Conservation Regions. <http://www.birdscanada.org/research/gislab/index.jsp?targetpg=bcr>.
- Chesser, R. T., S. M. Billerman, K. J. Burns, C. Cicero, J. L. Dunn, A. W. Kratter, I. J. Lovette, N. A. Mason, P. C. Rasmussen, J. V. Remsen, Jr., D. F. Stotz, and K. Winker. 2020. Check-list of North American Birds (online). American Ornithological Society. <http://checklist.americanornithology.org/taxa>.
- Clements, J. F., T. S. Schulenberg, M. J. Iliff, S. M. Billerman, T. A. Fredericks, B. L. Sullivan, and C. L. Wood. 2019. The eBird/Clements checklist of birds of the world, version 2019. <http://www.birds.cornell.edu/clementschecklist/download/>.
- Department of Marine and Wildlife Resources. 2006. A comprehensive strategy for wildlife conservation in American Samoa (R. C. B. Utzurrum, J. O. Seamon, and K. Schletz Saili. Pago Pago, American Samoa. <http://teaming.com/sites/default/files/American%20Samoa%20SWAP.pdf>.
- Department of Marine and Wildlife Resources. 2015. American Samoa 2015 State Wildlife Action Plan Species of Greatest Conservation Need. <https://www.sciencebase.gov/catalog/item/5c9ce047e4b0b8a7f62e0634>.
- Drechsler, M., F. V. Eppink, and F. Wätzold. 2011. Does proactive biodiversity conservation save costs? *Biodiversity and Conservation* 20: 1045–1055.
- Federal Register. 2005. General provisions: Final list of bird species to which the Migratory Bird Treaty Act does not apply. Federal Register 70 (49): 12710–12716.
- Federal Register. 2020a. List of bird species to which the Migratory Bird Treaty Act does not apply. Notice of availability. Federal Register 85 (74): 21262–21264.
- Federal Register. 2020b. General provisions: Revised list of migratory birds. Final rule. Federal Register 85 (74): 21282–21305.
- Guam Division of Aquatic and Wildlife Resources. 2006. Guam Comprehensive Wildlife Conservation Strategy. Department of Agriculture, Mangilao.
- Hawai'i Department of Land and Natural Resources. 2015. Hawai'i's State Wildlife Action Plan. H. T. Harvey and Associates, Honolulu.
- IUCN 2019. The IUCN Red List of Threatened Species. Version 2019-2. <http://www.iucnredlist.org>. Accessed on 20 September 2019.
- Kier, G., H. Kreft, T. Ming Lee, W. Jetz, P. L. Ibisch, C. Nowicki, J. Mutke, and W. Barthlott. 2009. A global assessment of endemism and species richness across island and mainland regions. *PNAS* 106 (23) 9322–9327; <https://doi.org/10.1073/pnas.0810306106>.
- Liske-Clark, J. 2015. Wildlife Action Plan for the Commonwealth of the Northern Mariana Islands, 2015–2025. CNMI DLNR-Division of Fish and Wildlife, Saipan.
- NatureServe. 2015. NatureServe Explorer: An online encyclopedia of life, version 7.1. NatureServe, Arlington, Virginia. <http://explorer.natureserve.org>. Accessed on 6 October 2015.
- North American Bird Conservation Initiative, U.S. Committee. 2010. The State of the Birds 2010 report on climate change, United States of America. U.S. Department of the Interior: Washington, D.C. <http://www.stateofthebirds.org/2010>.
- North American Bird Conservation Initiative, U.S. Committee. 2014. The State of the Birds 2014 report. U.S. Department of Interior, Washington, D.C. <http://www.stateofthebirds.org/2014/>.

- Panjabi, A. O., W. E. Easton, P. J. Blancher, A. E. Shaw, B. A. Andres, C. J. Beardmore, A. F. Camfield, D. W. Demarest, R. Dettmers, R. H. Keller, K. V. Rosenberg, and T. Will. 2019. Avian Conservation Assessment Database handbook, version 2019. Partners in Flight Technical Series No. 8. <http://www.rmbo.org/pubs/downloads/Handbook2012.pdf>.
- Partners in Flight. 2019. Avian Conservation Assessment Database, version 2019. <http://pif.birdconservancy.org/ACAD>.
- Platenberg, R. J., and J. M. Valiulis (editors). 2018. United States Virgin Islands Wildlife Action Plan, volume 1: Management framework. Final report, USVI Department of Planning and Natural Resources, Division of Fish and Wildlife. University of the Virgin Islands and St. Croix Environmental Association. <https://www.fws.gov/pacific/images/feature/2017/highlights/CNMI%20SWAP%202015%20FINAL%20secured.pdf>.
- Puerto Rico Department of Natural and Environmental Resources. 2015. Puerto Rico State Wildlife Action Plan: Ten year review. San Juan. <http://drna.pr.gov/historico/PRSWAP2015.pdf>.
- Rosenberg, K. V., A. M. Dokter, P. J. Blancher, J. R. Sauer, A. C. Smith, P. A. Smith, J. C. Stanton, A. Panjabi, L. Helft, M. Parr, and P. P. Mara. 2019. Decline of the North American avifauna. *Science* 10.1126/science.aaw1313.
- Rosenberg, K. V., J. A. Kennedy, R. Dettmers, R. P. Ford, D. Reynolds, J. D. Alexander, C. J. Beardmore, P. J. Blancher, R. E. Bogart, G. S. Butcher, A. F. Camfield, A. Couturier, D. W. Demarest, W. E. Easton, J. J. Giocomo, R. H. Keller, A. E. Mini, A. O. Panjabi, D. N. Pashley, T. D. Rich, J. M. Ruth, H. Stabins, J. Stanton, and T. Will. 2016. Partners in Flight landbird conservation plan: 2016 revision for Canada and continental United States. Partners in Flight Science Committee. <http://www.partnersinflight.org/plans/landbird-conservation-plan/>.
- Rosenberg, K. V., D. Pashley, B. Andres, P. J. Blancher, G. S. Butcher, W. C. Hunter, D. Mehlman, A. O. Panjabi, M. Parr, G. Wallace and D. Wiedenfeld. 2014. The State of the Birds 2014 Watch List. North American Bird Conservation Initiative, U.S. Committee, Washington, D.C.
- U.S. Department of the Interior. 1990. Report of the Secretary of the Interior to the Congress of the United States on the federal conservation of migratory nongame birds pursuant to Section 13 of Public Law 96-366, the Fish and Wildlife Conservation Act of 1980, as revised. U.S. Fish and Wildlife Service, Washington, D.C.
- U.S. Fish and Wildlife Service. 1982. Nongame migratory bird species with unstable or decreasing population trends in the United States. Office of Migratory Bird Management, Washington, D.C.
- U.S. Fish and Wildlife Service. 1987. Migratory nongame birds of management concern in the United States: the 1987 list. Office of Migratory Bird Management, Washington, D.C.
- U.S. Fish and Wildlife Service. 1995. Migratory nongame birds of management concern in the United States: the 1995 List. Office of Migratory Bird Management, U.S. Fish and Wildlife Service, Arlington, Virginia.
- U.S. Fish and Wildlife Service. 2002. Birds of conservation concern 2002. Division of Migratory Bird Management, Arlington, Virginia.
- U.S. Fish and Wildlife Service. 2008. Birds of Conservation Concern 2008. United States Department of Interior, Fish and Wildlife Service, Division of Migratory Bird Management, Arlington, Virginia.
- U.S. Shorebird Conservation Plan Partnership. 2016. U.S. Shorebirds of Conservation Concern 2016. <http://www.shorebirdplan.org/science/assessment-conservation-status-shorebirds/>.
- Wetlands International. 2015. Waterbird Population Estimates. <http://www.wpe.wetlands.org>. Accessed 6 October 2015.

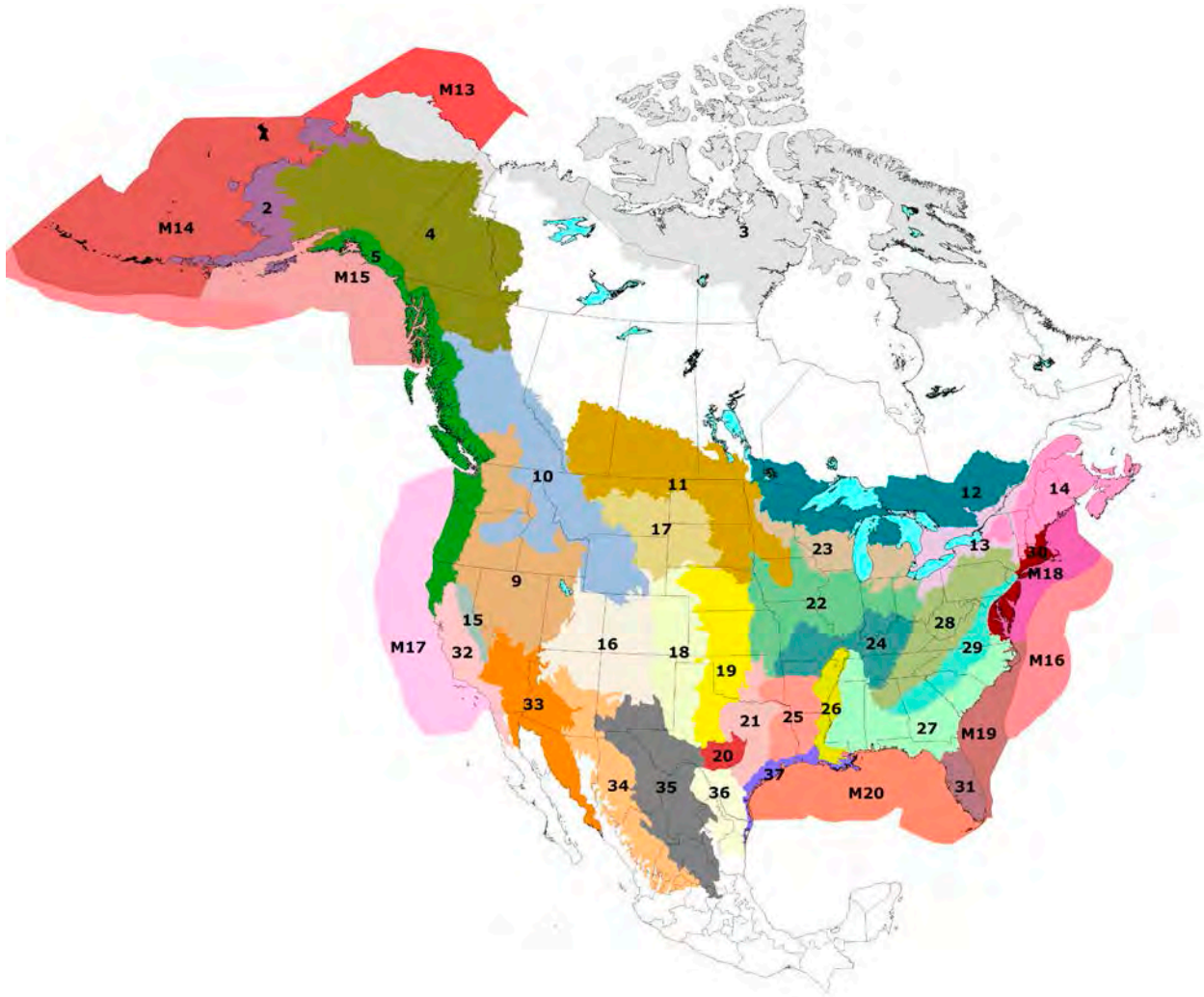


Mariana Fruit-dove, Laura Wolf/CC BY 2.0

Figures

Figure 1.

Map of terrestrial Bird Conservation Regions (BCRs) Marine Bird Conservation Regions (MBCRs) of North America (Bird Studies Canada and NABCI 2014). See Table 2 for BCR and MBCR names.



Tables

Table 1.

Island states, commonwealths, territories and other affiliations of the United States (USA), including the USA territorial sea, contiguous zone and exclusive economic zone considered in the development of the Birds of Conservation Concern 2021.

Hawaii and Pacific Islands

State of Hawaii

American Samoa (unincorporated and unorganized territory)

Commonwealth of the Northern Marianas Islands (aligned through a covenant of “political union”)

Guam (unincorporated organized territory)

Unincorporated territories administered by the U.S. Fish and Wildlife Service (USFWS) as National Wildlife Refuges (NWR) unless noted.

Howland Island

Jarvis Island

Johnston Atoll (joint control with the Department of Defense)

Kingman Reef

Midway Atoll

Palmyra Atoll (partially privately owned)

Wake Island (administered by the Department of the Interior)

Puerto Rico and U.S. Virgin Islands

Commonwealth of Puerto Rico (commonwealth)

U.S. Virgin Islands (unincorporated organized territory)

Navassa Island (administered by the USFWS as a NWR)



King Rail, Alan Schmierer/CCO 1.0

Table 2.

Terrestrial Bird Conservation Regions (BCR) and Marine Bird Conservation Regions (MBCR) either wholly or partially within the jurisdiction of the Continental USA, including Alaska, used in the Birds of Conservation Concern 2021.

BCR/ MBCR	BCR/MBCR Name
1	Aleutian/Bering Sea Islands
2	Western Alaska
3	Arctic Plains and Mountains
4	Northwestern Interior Forest
5	Northern Pacific Rainforest
9	Great Basin
10	Northern Rockies
11	Prairie Potholes
12	Boreal Hardwood Transition
13	Lower Great Lakes/St. Lawrence Plain
14	Atlantic Northern Forest
15	Sierra Nevada
16	Southern Rockies/Colorado Plateau
17	Badlands and Prairies
18	Shortgrass Prairie
19	Central Mixed-grass Prairie
20	Edwards Plateau
21	Oaks and Prairies
22	Eastern Tallgrass Prairie
23	Prairie Hardwood Transition
24	Central Hardwoods
25	West Gulf Coastal Plain/Ouachitas
26	Mississippi Alluvial Valley
27	Southeastern Coastal Plain
28	Appalachian Mountains
29	Piedmont
30	New England/Mid-Atlantic Coast
31	Peninsular Florida
32	Coastal California
33	Sonoran and Mohave Deserts
34	Sierra Madre Occidental
35	Chihuahuan Desert
36	Tamaulipan Brushlands
37	Gulf Coastal Prairie
M13	Chukchi and Beaufort Seas
M14	East Bering Sea
M15	Gulf of Alaska
M17	California Current
M18	Northeast U.S. Continental Shelf and U.S. waters (M16) beyond the shelf
M19	Southeast U.S. Continental Shelf and U.S. waters (M16) beyond the shelf
M20	Gulf of Mexico

Table 3.

Birds of Conservation Concern 2021 in the Continental USA (CON), continental Bird Conservation Regions (BCR), Puerto Rico and Virgin Islands (PRVI), and Hawaii and Pacific Islands (HAPI). Refer to Appendix 1 for scientific names of species, subspecies and populations. Breeding (X) and nonbreeding (nb) status are indicated for each geography. Parenthesized names indicate conservation concern only exists for a specific subspecies or population.

Common Name	CON	BCR	PRVI	HAPI
West Indian Whistling-Duck			X	
Pacific Black Duck (Palau)				X
White-cheeked Pintail (West Indies)			X	
Masked Duck			X	
Ruddy Duck (West Indies)			X	
Western Grebe	X			
Clark's Grebe	X			
White-crowned Pigeon	X		X	
White-throated Ground Dove				X
Bridled Quail-Dove			X	
Many-colored Fruit-Dove				X
Mariana Fruit-Dove				X
Pacific Imperial-Pigeon (Pacific)				X
Yellow-billed Cuckoo (Eastern)		X		
Mangrove Cuckoo		X		
Black-billed Cuckoo	X			
Common Nighthawk (Lesser)		X		
Common Nighthawk (Henry's)		X		
Chuck-will's Widow		X		
Eastern Whip-poor-will	X			
Mexican Whip-poor-will	X			
Black Swift	X		X	
Chimney Swift	X			
Vaux's Swift (Vaux's)		X		
Antillean Mango (Puerto Rican)			X	
Lucifer Hummingbird	X			
Costa's Hummingbird		X		
Calliope Hummingbird	X			
Rufous Hummingbird	X			
Allen's Hummingbird	X			
Broad-tailed Hummingbird	X			
King Rail	X			
American Coot (Caribbean)			X	
Australasian (Purple) Swamphen (Samoan)				X
Spotless Crake (Tongan)				X
Yellow Rail	X			
Yellow-breasted Crake (Henderson's)			X	
Limpkin (Puerto Rican/Hispaniolan)			X	
American Avocet		X		
American Oystercatcher	X		X	
Black Oystercatcher	X			

Common Name	CON	BCR	PRVI	HAPI
American Golden-Plover	X			
Wilson's Plover	X		X	
Mountain Plover	X			
Snowy Plover (Interior/Gulf Coast)	X			
Snowy Plover (Caribbean)			X	
Upland Sandpiper		X		
Bristle-thighed Curlew	X			nb
Whimbrel (Atlantic)		X		
Long-billed Curlew		X		
Bar-tailed Godwit	X			
Hudsonian Godwit	X			
Marbled Godwit	X			
Ruddy Turnstone (Atlantic)		X		
Black Turnstone	X			
Red Knot (Pacific)	X			
Dunlin (Northern Alaska)		X		
Dunlin (Hudson Bay)		X		
Rock Sandpiper (Pribilof)		X		
Purple Sandpiper	X			
Buff-breasted Sandpiper	X			
Pectoral Sandpiper	X			
Semipalmated Sandpiper (Eastern/Central)		X	nb	
Short-billed Dowitcher	X			
Solitary Sandpiper (Western)		X		
Wandering Tattler	X			nb
Lesser Yellowlegs	X		nb	
Willet	X		nb	
Marbled Murrelet (Alaska)	X			
Kittlitz's Murrelet	X			
Scripps's Murrelet	X			
Guadalupe Murrelet	nb			
Craveri's Murrelet	nb			
Ancient Murrelet	X			
Cassin's Auklet		X		
Whiskered Auklet	X			
Tufted Puffin		X		
Red-legged Kittiwake	X			
Ivory Gull	nb			
Ross's Gull	nb			
Franklin's Gull	X			
Heermann's Gull	X			
Western Gull	X			
Yellow-footed Gull	nb			
California Gull	X			
Black Noddy (Hawaiian)				X
Blue-gray Noddy (Hawaiian)				X

Common Name	CON	BCR	PRVI	HAPI
Gray-backed Tern				X
Aleutian Tern	X			
Least Tern (Atlantic/Interior)	X		X	
Gull-billed Tern	X			
Black Tern	X			
Common Tern		X		
Forster's Tern		X		
Sandwich Tern		X		
Elegant Tern	X			
Black Skimmer	X			
White-tailed Tropicbird (Atlantic)			X	
Red-billed Tropicbird (Caribbean)			X	
Red-tailed Tropicbird (Black-billed)				X
Yellow-billed Loon	X			
Laysan Albatross	nb			X
Black-footed Albatross	nb			X
Polynesian Storm-Petrel				nb
Ashy Storm-Petrel	X			
Band-rumped Storm-Petrel (Atlantic)	nb			
Black Storm-Petrel	X			
Tristram's Storm-Petrel				X
Murphy's Petrel	nb			
Mottled Petrel	nb			nb
Black-capped Petrel	nb			
Bonin Petrel				X
Fea's Petrel	nb			
Cook's Petrel	nb			nb
Tahiti Petrel				X
Bulwer's Petrel				X
Cory's Shearwater	nb			
Buller's Shearwater	nb			nb
Pink-footed Shearwater	nb			
Christmas Shearwater				X
Manx Shearwater	nb			
Black-vented Shearwater	nb			
Audubon's Shearwater	nb		X	
Magnificent Frigatebird		X	X	
Great Frigatebird (Central Pacific)				X
Masked Booby (Atlantic)			X	
Red-footed Booby (Atlantic)			X	
Brandt's Cormorant	X			
Red-faced Cormorant	X			
American White Pelican		X		
Brown Pelican (Caribbean)			X	
Great Blue Heron (Great White)		X		
Little Blue Heron		X		

Common Name	CON	BCR	PRVI	HAPI
Reddish Egret	X			
Swallow-tailed Kite	X			
Northern Harrier		X		
Harris's Hawk		X		
'lo				X
Ferruginous Hawk		X		
Flammulated Owl	X			
Puerto Rican Screech-Owl (Virgin Islands)			X	
Whiskered Screech-Owl	X			
Western Screech-Owl (Northern Pacific)		X		
Snowy Owl	X			
Burrowing Owl (Western)		X		
Burrowing Owl (Florida)		X		
Spotted Owl (California)	X			
Long-eared Owl	X			
Short-eared Owl	X			
Pueo				X
Northern Saw-whet Owl		X		
Elegant Trogon	X			
Mariana Kingfisher				X
Belted Kingfisher		X		
Lewis's Woodpecker	X			
Red-headed Woodpecker	X			
Gila Woodpecker		X		
Williamson's Sapsucker (Rocky Mountain)		X		
Nuttall's Woodpecker		X		
White-headed Woodpecker (California)		X		
Arizona Woodpecker	X			
Gilded Flicker	X			
American Kestrel (Southeast)		X		
Prairie Falcon		X		
Olive-sided Flycatcher	X			
Cordilleran Flycatcher		X		
Loggerhead Shrike (Eastern)		X		
Black-capped Vireo	X			
Puerto Rican Vireo			X	
Plumbeous Vireo		X		
Pinyon Jay	X			
Island Scrub-Jay	X			
Woodhouse's Scrub-Jay (Woodhouse's)		X		
Clark's Nutcracker		X		
Yellow-billed Magpie	X			
Chihuahuan Raven		X		
Black-capped Chickadee (Appalachian)		X		
Mexican Chickadee	X			
Chestnut-backed Chickadee (Northern)		X		

Common Name	CON	BCR	PRVI	HAPI
Gray-headed Chickadee (Alaska)	X			
Oak Titmouse	X			
Verdin (Southwest)		X		
White-breasted Nuthatch (Slender-billed)		X		
Brown-headed Nuthatch		X		
Marsh Wren (Worthington's)		X		
Bewick's Wren (Eastern)		X		
Cactus Wren (Speckled)		X		
American Dipper		X		
Wrentit	X			
'Ōma'o				X
Veery (Eastern)		X		
Bicknell's Thrush	X			
Wood Thrush	X			
Varied Thrush (Pacific)		X		
Curve-billed Thrasher (Brownsville)		X		
Curve-billed Thrasher (Palmer's)		X		
Bendire's Thrasher	X			
California Thrasher	X			
LeConte's Thrasher	X			
Sage Thrasher		X		
Phainopepla (Southwest)		X		
Sprague's Pipit	X			
Evening Grosbeak	X			
Maui 'Alauahio				X
'Apapane				X
Anianiau				X
Hawai'i 'Amakihi				X
O'ahu 'Amakihi				X
Kaua'i 'Amakihi				X
Black Rosy-Finch	X			
Brown-capped Rosy-Finch	X			
Cassin's Finch	X			
Cassia Crossbill	X			
Lawrence's Goldfinch	X			
Chestnut-collared Longspur	X			
Thick-billed Longspur	X			
McKay's Bunting	X			
Rufous-winged Sparrow	X			
Cassin's Sparrow		X		
Bachman's Sparrow	X			
Grasshopper Sparrow (Northern)		X		
Lark Bunting		X		
Black-chinned Sparrow	X			
Field Sparrow		X		
Vesper Sparrow (Oregon)		X		

Common Name	CON	BCR	PRVI	HAPI
LeConte's Sparrow	X			
Seaside Sparrow (Atlantic/Gulf)	X			
Saltmarsh Sparrow	X			
Baird's Sparrow	X			
Henslow's Sparrow	X			
Savannah Sparrow (Belding's)		X		
Song Sparrow (Alameda/Samuels)		X		
Song Sparrow (Channel Island)		X		
Rufous-crowned Sparrow (Rock)		X		
Yellow-breasted Chat (Eastern)		X		
Yellow-headed Blackbird		X		
Bobolink	X			
Eastern Meadowlark		X		
Puerto Rican Oriole			X	
Orchard Oriole		X		
Bullock's Oriole		X		
Scott's Oriole		X		
Tricolored Blackbird	X			
Rusty Blackbird		X		
Golden-winged Warbler	X			
Blue-winged Warbler		X		
Prothonotary Warbler	X			
Colima Warbler	X			
Virginia's Warbler	X			
Connecticut Warbler	X			
Kentucky Warbler	X			
Common Yellowthroat (San Francisco)		X		
Kirtland's Warbler	X			
Cape May Warbler		X		
Cerulean Warbler	X			
Bay-breasted Warbler		X		
Prairie Warbler	X		nb	
Grace's Warbler	X			
Black-throated Gray Warbler		X		
Hermit Warbler		X		
Black-throated Green Warbler (Wayne's)		X		
Canada Warbler	X			
Red-faced Warbler	X			
Scarlet Tanager		X		
Pyrrhuloxia	X			
Rose-breasted Grosbeak		X		
Varied Bunting	X			
Painted Bunting		X		
Dickcissel		X		
Totals	135	88	29	35

Table 4.

Numbers of taxa of Birds of Conservation Concern 2021 represented on the Continental USA (CON), continental Bird Conservation Region (BCR), Puerto Rico and Virgin Islands (PRVI), Hawaii and Pacific Islands (HAPI) lists by general taxonomic groups and by habitats within landbirds. Also presented are the unique taxa represented on all lists.

	CON	BCR	PRVI	HAPI	Unique Taxa
Landbirds ¹	71	69	8	14	159
aerial insectivores ²	5	4	1		
grasslands	7	9			
forests	38	33	5	12	
aridlands	13	13			
wetlands	3	8			
other habitats	5	2	2	2	
Shorebirds ³	19	10	6	2	30
Seabirds ⁴	36	7	7	16	58
Waterbirds ⁵	8	3	8	3	22
All Taxa	134	88	29	35	269

¹Doves and pigeons; cuckoos; nightjars and allies; swifts; hummingbirds; eagles and hawks; owls; trogons; kingfishers; woodpeckers; falcons; songbirds (perching birds).

²Nightjars and allies; swifts; some flycatchers.

³Avocets; oystercatchers; plovers; and sandpipers and allies.

⁴Auks, murres and puffins; gulls, terns and skimmers; tropicbirds; albatrosses; shearwaters and petrels; storm-petrels; frigatebirds; and boobies.

⁵Ducks; grebes; rails, gallinules and coots; limpkins; cranes; loons; storks; cormorants; pelicans; and herons and egrets.



Flammulated Owl, Alan Schmierer/CC0 1.0

Table 5.

Birds of Conservation Concern 2021 designated within BCRs 1, 2, 3, 4 and MBCRs 13, 14, 15. See Table 2 for descriptions of BCRs and MBCRs, Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR						
	1	2	3	4	M13	M14	M15
Black Oystercatcher	X	X					
American Golden-Plover		X	X	X			
Bristle-thighed Curlew		X		X			
Bar-tailed Godwit		X	X				
Hudsonian Godwit		X		X			
Marbled Godwit		X					
Black Turnstone		X					
Red Knot (Pacific)		X	X				
Dunlin (Northern Alaska)		nb	X				
Rock Sandpiper (Pribilof)	X	nb		nb			
Buff-breasted Sandpiper			X				
Pectoral Sandpiper			X				
Short-billed Dowitcher		X		X			
Solitary Sandpiper (Western)				X			
Wandering Tattler		X	X	X			
Lesser Yellowlegs				X			
Marbled Murrelet (Alaska)	X	X		X		nb	nb
Kittlitz's Murrelet	X	X	X			nb	nb
Ancient Murrelet	X					nb	nb
Whiskered Auklet	X					nb	
Red-legged Kittiwake	X					nb	nb
Ivory Gull					nb	nb	
Ross's Gull					nb		
Aleutian Tern	X	X		X			
Yellow-billed Loon	nb	X	X				nb
Laysan Albatross							nb
Black-footed Albatross						nb	nb
Murphy's Petrel						nb	nb
Mottled Petrel						nb	nb
Buller's Shearwater							nb
Pink-footed Shearwater							nb
Red-faced Cormorant	X	X					
Snowy Owl	X	X	X				
Short-eared Owl	X	X	X	X			
Olive-sided Flycatcher		X		X			
Gray-headed Chickadee (Alaska)			X	X			
McKay's Bunting	X						
Totals	13	20	12	13	2	9	11

Table 6.

Birds of Conservation Concern 2021 designated within BCRs 5, 10, 15, 32 and MBCR 17. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR or MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR				
	5	10	15	32	M17
Western Grebe	X	X	X	X	
Clark's Grebe	X	X	X	X	
Black Swift	X	X	X	X	
Vaux's Swift	X				
Calliope Hummingbird		X	X		
Rufous Hummingbird	X	X			
Allen's Hummingbird	X			X	
Broad-tailed Hummingbird		X			
Yellow Rail		X		nb	
Black Oystercatcher	X			X	
Mountain Plover		X		nb	
Snowy Plover (Interior/Gulf Coast)				X	
Marbled Godwit	nb			nb	
Red Knot (Pacific)	nb			nb	
Rock Sandpiper (Pribilof)	nb				
Short-billed Dowitcher	X			nb	
Lesser Yellowlegs	nb	nb			
Willet	nb	X	X	nb	
Marbled Murrelet (Alaska)	X				
Kittlitz's Murrelet	X				
Scripps's Murrelet				X	nb
Guadalupe Murrelet					nb
Craveri's Murrelet					nb
Ancient Murrelet	X				
Cassin's Auklet	X				
Tufted Puffin	X				nb
Franklin's Gull		X			
Heermann's Gull				X	
Western Gull	X			X	
California Gull	X	X	X	X	
Aleutian Tern	X				
Gull-billed Tern				X	
Black Tern		X		X	
Elegant Tern				X	
Black Skimmer				X	
Laysan Albatross					nb
Black-footed Albatross					nb
Ashy Storm-Petrel				X	nb
Black Storm-Petrel				X	nb
Murphy's Petrel					nb
Cook's Petrel					nb

Taxon Common Name	BCR/MBCR				
	5	10	15	32	M17
Buller's Shearwater					nb
Pink-footed Shearwater					nb
Black-vented Shearwater					nb
Brandt's Cormorant	X			X	
Red-faced Cormorant	X				
Northern Harrier				X	
Flammulated Owl	X	X	X	X	
Western Screech-Owl (Northern Pacific)	X			X	
Burrowing Owl (Western)				X	
Spotted Owl (California)			X	X	
Long-eared Owl		X	X	X	
Short-eared Owl				X	
Lewis's Woodpecker		X	X		
Williamson's Sapsucker (Rocky Mountain)		X			
Nuttall's Woodpecker				X	
White-headed Woodpecker (California)				X	
Olive-sided Flycatcher	X	X	X	X	
Pinyon Jay		X	X	X	
Island Scrub-Jay				X	
Yellow-billed Magpie				X	
Chestnut-backed Chickadee (Northern)	X				
Oak Titmouse	X		X	X	
White-breasted Nuthatch (Slender-billed)	X				
American Dipper			X		
Wrentit	X		X	X	
Varied Thrush (Pacific)	X				
California Thrasher			X	X	
LeConte's Thrasher				X	
Evening Grosbeak	X	X	X		
Black Rosy-Finch		X			
Cassin's Finch	X	X	X	X	
Lawrence's Goldfinch			X	X	
Thick-billed Longspur		X			
Black-chinned Sparrow				X	
Vesper Sparrow (Oregon)	X				
Savannah Sparrow (Belding's)				X	
Song Sparrow (Alameda/Samuels)				X	
Song Sparrow (Channel Island)				X	
Bobolink		X			
Bullock's Oriole				X	
Tricolored Blackbird				X	
Common Yellowthroat (San Francisco)				X	
Black-throated Gray Warbler			X		
Hermit Warbler			X		
Totals	34	24	21	49	13

Table 7.

Birds of Conservation Concern 2021 designated within BCRs 9, 16, 33, 34, 35 and 36. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Western Grebe	X	X	X	X		
Clark's Grebe	X	X	X		X	
Common Nighthawk (Henry's)					X	
Mexican Whip-poor-will				X	X	
Black Swift	X	X				
Chimney Swift						X
Lucifer Hummingbird					X	
Costa's Hummingbird			X			
Calliope Hummingbird	X					
Rufous Hummingbird	X					
Broad-tailed Hummingbird	X	X		X	X	
King Rail						X
Yellow Rail	X					
American Avocet	X		X			
American Golden-Plover						nb
Wilson's Plover						X
Mountain Plover		X	nb		nb	nb
Snowy Plover (Interior/Gulf Coast)	X	X	X		X	X
Long-billed Curlew					nb	nb
Marbled Godwit	nb		nb			
Red Knot (Pacific)	nb					
Buff-breasted Sandpiper						nb
Pectoral Sandpiper	nb	nb				nb
Lesser Yellowlegs	nb	nb				nb
Willet	X		nb			
Franklin's Gull	X					
Yellow-footed Gull			nb			
California Gull	X	X				
Gull-billed Tern			X			X
Black Tern	X					
Forster's Tern	X					
Black Skimmer			X			
American White Pelican	X					
Northern Harrier	X					
Harris's Hawk						X
Ferruginous Hawk					X	
Flammulated Owl	X	X		X	X	
Whiskered Screech-Owl				X		
Burrowing Owl (Western)			X		X	
Long-eared Owl	X	X	X	X		
Short-eared Owl	X	X				

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Elegant Trogon				X		
Lewis's Woodpecker	X	X		X		
Gila Woodpecker			X			
Arizona Woodpecker				X		
Gilded Flicker			X	X		
Olive-sided Flycatcher	X	X		X		
Cordilleran Flycatcher				X		
Black-capped Vireo					X	
Plumbeous Vireo				X		
Pinyon Jay	X	X	X	X	X	
Woodhouse's Scrub-Jay (Woodhouse's)					X	
Clark's Nutcracker		X				
Chihuahuan Raven						X
Mexican Chickadee				X		
Verdin (Southwest)			X			
Cactus Wren (Speckled)					X	
Curve-billed Thrasher (Palmer's))			X			
Curve-billed Thrasher (Brownsville)						X
Bendire's Thrasher	X	X	X	X	X	
California Thrasher			X			
LeConte's Thrasher			X			
Sage Thrasher	X					
Phainopepla (Southwest)				X		
Sprague's Pipit				nb	nb	nb
Evening Grosbeak	X	X		X	X	
Black Rosy-Finch	X	X				
Brown-capped Rosy-Finch		X				
Cassin's Finch	X	X				
Cassia Crossbill	X					
Lawrence's Goldfinch			X			
Chestnut-collared Longspur				nb	nb	nb
Thick-billed Longspur					nb	
Rufous-winged Sparrow			X	X		
Cassin's Sparrow					X	
Black-chinned Sparrow		X	X	X	X	
Baird's Sparrow				nb	nb	
Yellow-headed Blackbird		X				
Bobolink	X					
Eastern Meadowlark					X	X
Orchard Oriole						X
Scott's Oriole				X	X	
Tricolored Blackbird			X			
Colima Warbler					X	
Virginia's Warbler	X	X		X	X	
Grace's Warbler		X	X	X	X	

Taxon Common Name	BCR/MBCR					
	9	16	33	34	35	36
Black-throated Gray Warbler				X		
Red-faced Warbler				X		
Pyrrhuloxia			X	X	X	X
Varied Bunting				X	X	
Painted Bunting						X
Totals	34	25	27	30	30	20

Table 8.

Birds of Conservation Concern 2021 designated within BCRs 11, 17, 18, 19, 20, 21, 37 and MBCR 20. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR							
	11	17	18	19	20	21	37	M20
Western Grebe	X	X		X				
Clark's Grebe	X		X					
Black-billed Cuckoo	X	X		X				
Eastern Whip-poor-will	X							
Chimney Swift	X		X	X	X	X	X	
Broad-tailed Hummingbird			X					
King Rail				X			X	
Yellow Rail	X							nb
American Oystercatcher								X
American Golden-Plover	nb			nb	nb	nb	nb	nb
Wilson's Plover								X
Mountain Plover	X	X	X	nb	nb	nb	nb	nb
Snowy Plover (Interior/Gulf Coast)			X	X				X
Whimbrel (Atlantic)			nb	nb				nb
Long-billed Curlew	X		X		nb	nb	nb	nb
Hudsonian Godwit	nb		nb	nb				nb
Marbled Godwit	X	X						nb
Ruddy Turnstone (Atlantic)	nb							nb
Red Knot (Pacific)								nb
Dunlin (Hudson Bay)	nb							nb
Buff-breasted Sandpiper	nb		nb	nb	nb	nb	nb	nb
Pectoral Sandpiper	nb		nb	nb	nb	nb	nb	nb
Short-billed Dowitcher	nb							nb
Lesser Yellowlegs	nb	nb	nb	nb	nb	nb	nb	nb
Willet	X	X		X				X
Franklin's Gull	X	X						
California Gull	X	X						
Least Tern (Atlantic/Interior)				X		X	X	
Gull-billed Tern								X
Black Tern	X	X		X				
Forster's Tern								X

Taxon Common Name	BCR/MBCR							
	11	17	18	19	20	21	37	M20
Sandwich Tern							X	
Black Skimmer							X	
Band-rumped Storm-Petrel (Atlantic)								nb
Black-capped Petrel								nb
Cory's Shearwater								nb
Audubon's Shearwater								nb
Magnificent Frigatebird								nb
Little Blue Heron						X		
Reddish Egret							X	
Swallow-tailed Kite							X	
Northern Harrier	X	X	X					
Ferruginous Hawk		X	X					
Burrowing Owl (Western)		X		X				
Long-eared Owl	X	X	X	X				
Short-eared Owl	X	X	nb	nb				
Lewis's Woodpecker		X	X					
Red-headed Woodpecker	X	X	X	X		X	X	
Prairie Falcon		X						
Loggerhead Shrike (Eastern)						X	X	
Black-capped Vireo				X	X			
Pinyon Jay		X	X					
American Dipper		X						
Sprague's Pipit	X	X	nb	nb		nb	nb	
Chestnut-collared Longspur	X	X	X	nb	nb			
Thick-billed Longspur	X	X	X	nb	nb			
Grasshopper Sparrow (Northern)	X	X	X		X			
Lark Bunting		X		X				
Field Sparrow					X			
LeConte's Sparrow	X							nb
Seaside Sparrow (Atlantic/Gulf)							X	
Baird's Sparrow	X	X						
Henslow's Sparrow	X					X	X	
Rufous-crowned Sparrow (Rock)					X			
Bobolink	X	X		X				
Eastern Meadowlark					X			
Golden-winged Warbler	X							
Prothonotary Warbler						X	X	
Kentucky Warbler						X		
Pyrrhuloxia			X	X	X		X	
Painted Bunting					X		X	
Dicksissel							X	
Totals	33	26	22	27	16	15	36	5

Table 9.

Birds of Conservation Concern 2021 designated within BCRs 12, 13, 22, 23, 24, 25, 26, 28 and 29. See Table 2 for descriptions of BCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR								
	12	13	22	23	24	25	26	28	29
Western Grebe				X					
Yellow-billed Cuckoo (Eastern)								X	
Black-billed Cuckoo	X	X	X	X	X			X	X
Common Nighthawk (Lesser)								X	
Chuck-will's Widow						X		X	X
Eastern Whip-poor-will	X	X	X	X	X	X	X	X	X
Chimney Swift	X	X	X	X	X	X	X	X	X
King Rail			X	X	X	X	X		X
Yellow Rail	X			X		nb	nb		
American Golden-Plover		nb	nb	nb		nb	nb		
Upland Sandpiper		X	X	X					
Whimbrel (Atlantic)	nb								
Hudsonian Godwit			nb						
Marbled Godwit				X					
Ruddy Turnstone (Atlantic)	nb	nb	nb	nb					
Dunlin (Hudson Bay)	nb	nb	nb	nb					
Buff-breasted Sandpiper		nb	nb	nb					
Pectoral Sandpiper	nb	nb	nb	nb		nb	nb		
Semipalmated Sandpiper (Eastern/Central)	nb	nb	nb	nb	nb		nb		
Short-billed Dowitcher		nb	nb	nb					
Lesser Yellowlegs	nb	nb	nb	nb	nb	nb	nb		
Least Tern (Atlantic/Interior)					X	X	X		
Black Tern	X			X					
Common Tern	X								
Little Blue Heron							X		
Swallow-tailed Kite						X	X		
Long-eared Owl	X	X		X					
Short-eared Owl		nb	nb	nb	nb				nb
Northern Saw-whet Owl								X	
Belted Kingfisher		X							
Red-headed Woodpecker		X	X	X	X	X	X	X	X
American Kestrel (Southeast)						X			
Olive-sided Flycatcher	X								
Loggerhead Shrike (Eastern)			X						
Black-capped Chickadee (Appalachian)								X	
Brown-headed Nuthatch					X	X			
Bewick's Wren (Eastern)					X	X			
Veery (Eastern)	X								
Bicknell's Thrush								X	

Taxon Common Name	BCR/MBCR								
	12	13	22	23	24	25	26	28	29
Wood Thrush	X	X	X	X	X	X	X	X	X
Sprague's Pipit						nb			
Evening Grosbeak	X	X							
Bachman's Sparrow					X	X			
Grasshopper Sparrow (Northern)			X	X	X				X
Field Sparrow					X				
LeConte's Sparrow	X			X	nb	nb	nb		
Henslow's Sparrow			X	X	X	nb	nb	X	
Bobolink	X	X	X	X	X			X	
Eastern Meadowlark		X							
Rusty Blackbird			nb	nb	nb		nb	nb	nb
Golden-winged Warbler	X	X		X				X	
Blue-winged Warbler		X							
Prothonotary Warbler			X		X	X	X	X	X
Connecticut Warbler	X								
Kentucky Warbler			X		X	X	X	X	X
Kirtland's Warbler	X			X					
Cerulean Warbler	X	X	X	X	X		X	X	X
Prairie Warbler		X			X	X	X	X	X
Canada Warbler	X	X		X				X	
Rose-breasted Grosbeak		X							
Totals	24	26	25	30	23	22	20	20	14



Bicknell's Thrush, Alan Schmierer/CC0 1.0

Table 10.

Birds of Conservation Concern 2021 designated within BCRs 14, 27, 30, 31 and MBCR 18, 19. See Table 2 for descriptions of BCRs and MBCRs. Scientific names of species, subspecies and populations are provided in Appendix 1. Breeding (X) and nonbreeding (nb) status are indicated for each BCR/MBCR; breeding BCRs may also support passage or wintering birds.

Taxon Common Name	BCR/MBCR					
	14	27	30	31	M18	M19
White-crowned Pigeon				X		
Mangrove Cuckoo				X		
Black-billed Cuckoo	X		X			
Chuck-will's Widow		X				
Eastern Whip-poor-will	X	X	X			
Chimney Swift	X	X	X	X		
King Rail		X	X	X		
Yellow Rail		nb		nb		
American Oystercatcher		X	X	X		
Wilson's Plover		X		X		
Snowy Plover (Interior/Gulf Coast)		X		X		
Whimbrel (Atlantic)	nb	nb	nb	nb		
Hudsonian Godwit	nb		nb			
Marbled Godwit		nb				
Ruddy Turnstone (Atlantic)		nb	nb	nb		
Dunlin (Hudson Bay)		nb	nb	nb		
Purple Sandpiper	nb	nb	nb			
Pectoral Sandpiper		nb	nb	nb		
Semipalmated Sandpiper (Eastern/Central)	nb	nb	nb	nb		
Short-billed Dowitcher		nb	nb	nb		
Lesser Yellowlegs	nb	nb	nb	nb		
Willet	X	X	X	X		
Least Tern (Atlantic/Interior)		X	X	X		
Gull-billed Tern		X	X	X		
Black Skimmer		X	X	X		
Band-rumped Storm-Petrel (Atlantic)					nb	nb
Black-capped Petrel						nb
Fea's Petrel					nb	nb
Cory's Shearwater					nb	nb
Manx Shearwater					nb	nb
Audubon's Shearwater					nb	nb
Magnificent Frigatebird				X		nb
Great Blue Heron (Great White)				X		
Reddish Egret				X		
Swallow-tailed Kite		X		X		
Burrowing Owl (Florida)				X		
Long-eared Owl	X		X			
Short-eared Owl	nb		nb			
Red-headed Woodpecker		X	X	X		

Taxon Common Name	BCR/MBCR					
	14	27	30	31	M18	M19
American Kestrel (Southeast)		X		X		
Olive-sided Flycatcher	X					
Brown-headed Nuthatch		X				
Marsh Wren (Worthington's)				X		
Veery (Eastern)	X					
Bicknell's Thrush	X					
Wood Thrush	X	X	X			
Evening Grosbeak	X					
Bachman's Sparrow		X		X		
Grasshopper Sparrow (Northern)		X	X			
LeConte's Sparrow		nb				
Seaside Sparrow (Atlantic/Gulf)		X	X	X		
Saltmarsh Sparrow		nb	X	nb		
Henslow's Sparrow		nb		nb		
Yellow-breasted Chat (Eastern)			X			
Bobolink	X		X			
Rusty Blackbird		nb	nb			
Blue-winged Warbler			X			
Prothonotary Warbler		X	X			
Kentucky Warbler		X	X			
Cape May Warbler	X					
Cerulean Warbler		X	X			
Bay-breasted Warbler	X					
Prairie Warbler	X	X	X	X		
Black-throated Green Warbler (Wayne's)		X				
Canada Warbler	X		X			
Scarlet Tanager			X			
Rose-breasted Grosbeak	X					
Painted Bunting		X		X		
Totals	22	39	35	32	5	7



Yellow-billed Loon, Bob Wick/BLM

Appendices

Appendix 1.

Common and scientific names of species, subspecies, and populations designated as Birds of Conservation Concern 2021, listed as threatened or endangered under the USA Endangered Species Act, considered as extinct in the wild, or included as non-migratory birds on the Watch Lists of the State of the Birds (Rosenberg et al. 2014) or in the Avian Conservation Assessment Database (Partners in Flight 2019). Taxonomic sequence and nomenclature follow the American Ornithologists' Union Check-list of North American Birds, 7th Edition (1998), through the 60th supplement (2019). Subspecies and population nomenclature follow Andres et al. (2012) and Clements et al. (2019); nomenclature for Pacific island species follows Clements et al. (2019).

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
West Indian Whistling-Duck	<i>Dendrocygna arborea</i>		P			
Emperor Goose	<i>Anser canagicus</i>				W	C
Brant	<i>Branta bernicla</i>				W	C
Nēnē	<i>Branta sandvicensis</i>				E	H
Cinnamon Teal	<i>Spatula cyanoptera</i>				W	C
Pacific Black Duck (Palau)	<i>Anas superciliosa pelewensis</i>			H		
Laysan Duck	<i>Anas laysanensis</i>				E	H
Hawaiian Duck/Koloa	<i>Anas wyvilliana</i>				E	H
Mariana Mallard	<i>Anas oustaleti</i> (?)				X	H
Mottled Duck	<i>Anas fulvigula</i>				W	C
White-cheeked Pintail (West Indies)	<i>Anas bahamensis bahamensis</i>		P			
Steller's Eider	<i>Polysticta stelleri</i>				T	C
Spectacled Eider	<i>Somateria fischeri</i>				T	C
Labrador Duck	<i>Camptorhynchus labradorius</i>				X	C
Masked Duck	<i>Nomonyx dominicus</i>		P			
Ruddy Duck (West Indies)	<i>Oxyura jamaicensis</i> (West Indies)		P			
Micronesian Scrubfowl (Mariana)	<i>Megapodius laperouse laperouse</i>				E	H
Mountain Quail	<i>Oreortyx pictus</i>				W	C
Northern Bobwhite (Masked)	<i>Colinus virginianus ridgwayi</i>				E	C
Greater Sage-Grouse	<i>Centrocercus urophasianus</i>				W	C
Gunnison Sage-Grouse	<i>Centrocercus minimus</i>				T	C
Greater Prairie-Chicken	<i>Tympanuchus cupido pinnatus</i>				W	C
Greater Prairie-Chicken (Heath Hen)	<i>Tympanuchus cupido cupido</i>				X	C
Attwater's (Greater) Prairie-Chicken	<i>Tympanuchus cupido attwateri</i>				E	C
Lesser Prairie-Chicken	<i>Tympanuchus pallidicinctus</i>				W	C
Western Grebe	<i>Aechmophorus occidentalis</i>	C				
Clark's Grebe	<i>Aechmophorus clarkii</i>	C				
White-crowned Pigeon	<i>Patagioenas leucocephala</i>	C	P			

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Plain Pigeon (Puerto Rican)	<i>Patagioenas inornata wetmorei</i>				E	P
Passenger Pigeon	<i>Ectopistes migratorius</i>				X	C
Shy (Friendly) Ground Dove	<i>Alopecoenas stairi</i>				E	H
White-throated Ground Dove	<i>Alopecoenas xanthonurus</i>					H
Bridled Quail-Dove	<i>Geotrygon mystacea</i>		P			
Many-colored Fruit-Dove	<i>Ptilinopus perousii perousii</i>					H
Mariana Fruit-Dove	<i>Ptilinopus roseicapilla</i>					H
Pacific Imperial-Pigeon (Pacific)	<i>Ducula pacifica pacifica</i>					H
Yellow-billed Cuckoo (Western)	<i>Coccyzus americanus</i> (Western)				T	C
Yellow-billed Cuckoo (Eastern)	<i>Coccyzus americanus</i> (Eastern)	R				
Mangrove Cuckoo	<i>Coccyzus minor</i>	R				
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	C				
Common Nighthawk (Lesser)	<i>Chordeiles minor minor</i>	R				
Common Nighthawk (Henry's)	<i>Chordeiles minor henryi</i>	R				
Chuck-will's Widow	<i>Antrostomus carolinensis</i>	R				
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	C				
Mexican Whip-poor-will	<i>Antrostomus arizonae</i>	C				
Puerto Rican Nightjar	<i>Antrostomus noctitherus</i>				E	P
Black Swift	<i>Cypseloides niger</i>	C	P			
Chimney Swift	<i>Chaetura pelagica</i>	C				
Vaux's Swift (Vaux's)	<i>Chaetura vauxi vauxi</i>	R				
Mariana Swiftlet	<i>Aerodramus bartschi</i>				E	H
Antillean Mango (Puerto Rican)	<i>Anthracothorax dominicus aurulentus</i>		P			
Lucifer Hummingbird	<i>Calothorax lucifer</i>	C				
Costa's Hummingbird	<i>Calypte costae</i>	R				
Calliope Hummingbird	<i>Selasphorus calliope</i>	C				
Rufous Hummingbird	<i>Selasphorus rufus</i>	C				
Allen's Hummingbird	<i>Selasphorus sasin</i>	C				
Broad-tailed Hummingbird	<i>Selasphorus platycercus</i>	C				
Antillean Cave-Rail	<i>Nesotrochis debooyi</i>				X	P
Ridgway's Rail (California)	<i>Rallus obsoletus obsoletus</i>				E	C
Ridgway's Rail (Light-footed)	<i>Rallus obsoletus levipes</i>				E	C
Ridgway's Rail (Yuma)	<i>Rallus obsoletus yumanensis</i>				E	C
King Rail	<i>Rallus elegans</i>	C				
Guam Rail	<i>Gallirallus owstoni</i>				E	H
Wake Island Rail	<i>Gallirallus wakensis</i>				X	H
Common Gallinule (Hawaiian)	<i>Gallinula galeta sandvicensis</i>				E	H
Common Moorhen (Mariana)	<i>Gallinula chloropus guami</i>				E	H
Hawaiian Coot	<i>Fulica alai</i>				E	H
American Coot (Caribbean)	<i>Fulica americana americana</i> (Caribbean)		P			
Australasian (Purple) Swamphen (Samoan)	<i>Porphyrio (porphyrio) melanotus samoensis</i>					H
Laysan Rail	<i>Zapornia palmeri</i>				X	H

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Hawaiian Rail	<i>Zapornia sandwichensis</i>				X	H
Spotless Crane (Tongan)	<i>Zapornia tabuensis tabuensis</i>			H		
Yellow Rail	<i>Coturnicops noveboracensis</i>	C				
Yellow-breasted Crane (Henderson's)	<i>Hapalocrex flaviventer hendersoni</i>		P			
Black Rail	<i>Laterallus jamaicensis jamaicensis/</i> <i>coturniculus</i>				E	C,P
Limpkin (Puerto Rican/Hispaniolan)	<i>Aramus guarana elucus</i>		P			
Sandhill Crane (Mississippi)	<i>Antigone canadensis pulla</i>				E	C
Whooping Crane	<i>Grus americana</i>				E	C
Black-necked Stilt (Hawaiian)	<i>Himantopus mexicanus knudseni</i>				E	H
American Avocet	<i>Recurvirostra americana</i>	R				
American Oystercatcher	<i>Haematopus palliatus</i>	C	P			
Black Oystercatcher	<i>Haematopus bachmani</i>	C				
American Golden-Plover	<i>Pluvialis dominica</i>	C				
Piping Plover (Atlantic)	<i>Charadrius melodus melodus</i>				T	C
Piping Plover (Great Lakes)	<i>C. m. circumcinctus</i> (Great Lakes)				E	C
Piping Plover (Great Plains)	<i>C. m. circumcinctus</i> (Great Plains)				T	C
Wilson's Plover	<i>Charadrius wilsonia</i>	C	P			
Mountain Plover	<i>Charadrius montanus</i>	C				
Snowy Plover (Pacific Coast)	<i>Charadrius nivosus nivosus</i> (Pacific Coast)				T	C
Snowy Plover (Interior/Gulf Coast)	<i>C. n. nivosus</i> (Interior/Gulf Coast)	C				
Snowy Plover (Caribbean)	<i>C. n. tenuirostris</i>		P			
Upland Sandpiper	<i>Bartramia longicauda</i>	R				
Bristle-thighed Curlew	<i>Numenius tahitiensis</i>	C		H		
Whimbrel (Atlantic)	<i>Numenius phaeopus hudsonicus</i> (Atlantic)	R				
Eskimo Curlew	<i>Numenius borealis</i>				E	C
Long-billed Curlew	<i>Numenius americanus</i>	R				
Bar-tailed Godwit	<i>Limosa lapponica</i>	C				
Hudsonian Godwit	<i>Limosa haemastica</i>	C				
Marbled Godwit	<i>Limosa fedoa</i>	C				
Ruddy Turnstone (Atlantic)	<i>Arenaria interpres morinella</i>	R				
Black Turnstone	<i>Arenaria melanocephala</i>	C				
Red Knot (Atlantic)	<i>Calidris canutus rufa</i>				T	C
Red Knot (Pacific)	<i>Calidris canutus roselaari</i>	C				
Dunlin (Northern Alaska)	<i>Calidris alpina arctica</i>	R				
Dunlin (Hudson Bay)	<i>Calidris alpina hudsonia</i>	R				
Rock Sandpiper (Pribilof)	<i>Calidris ptilocnemis ptilocnemis</i>	R				
Purple Sandpiper	<i>Calidris maritima</i>	C				
Buff-breasted Sandpiper	<i>Calidris subruficollis</i>	C				
Pectoral Sandpiper	<i>Calidris melanotos</i>	C				
Semipalmated Sandpiper (Eastern/ Central)	<i>Calidris pusilla</i> (Eastern/Central)	R	P			
Short-billed Dowitcher	<i>Limnodromus griseus</i>	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
American Woodcock	<i>Scolopax minor</i>				W	C
Solitary Sandpiper (Western)	<i>Tringa solitaria cinnamomea</i>	R				
Wandering Tattler	<i>Tringa incana</i>	C		H		
Lesser Yellowlegs	<i>Tringa flavipes</i>	C	P			
Willet	<i>Tringa semipalmata</i>	C	P			
Great Auk	<i>Pinguinus impennis</i>				X	C
Marbled Murrelet (CA/OR/WA)	<i>Brachyramphus marmoratus</i> (California/ Oregon/ Washington)				T	C
Marbled Murrelet (Alaska)	<i>Brachyramphus marmoratus</i> (Alaska)	C				
Kittlitz's Murrelet	<i>Brachyramphus brevirostris</i>	C				
Scripps's Murrelet	<i>Synthliboramphus scrippsi</i>	C				
Guadalupe Murrelet	<i>Synthliboramphus hypoleucus</i>	C				
Craveri's Murrelet	<i>Synthliboramphus craveri</i>	C				
Ancient Murrelet	<i>Synthliboramphus antiquus</i>	C				
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	R				
Whiskered Auklet	<i>Aethia pygmaea</i>	C				
Tufted Puffin	<i>Fratercula cirrhata</i>	R				
Red-legged Kittiwake	<i>Rissa brevirostris</i>	C				
Ivory Gull	<i>Pagophila eburnea</i>	C				
Ross's Gull	<i>Rhodostethia rosea</i>	C				
Franklin's Gull	<i>Leucophaeus pipixcan</i>	C				
Heermann's Gull	<i>Larus heermanni</i>	C				
Western Gull	<i>Larus occidentalis</i>	C				
Yellow-footed Gull	<i>Larus livens</i>	C				
California Gull	<i>Larus californicus</i>	C				
Black Noddy (Hawaiian)	<i>Anous minutus melanogenys</i>			H		
Blue-gray Noddy (Hawaiian)	<i>Anous cerulea saxatilis</i>			H		
Gray-backed Tern	<i>Onychoprion lunata</i>			H		
Aleutian Tern	<i>Onychoprion aleuticus</i>	C				
Least Tern (California)	<i>Sternula antillarum brownii</i>				E	C
Least Tern (Atlantic/Interior)	<i>Sternula antillarum antillarum/</i> <i>athalassos</i>	C	P			
Gull-billed Tern	<i>Gelochelidon nilotica</i>	R				
Black Tern	<i>Chlidonias niger surinamensis</i>	C				
Roseate Tern	<i>Sterna dougallii dougallii</i>				E/T	C,P
Common Tern	<i>Sterna hirundo</i>	R				
Forster's Tern	<i>Sterna forsteri</i>	R				
Sandwich Tern	<i>Thalasseus sandvicensis</i>	R				
Elegant Tern	<i>Thalasseus elegans</i>	C				
Black Skimmer	<i>Rynchops niger</i>	C				
White-tailed Tropicbird (Atlantic)	<i>Phaethon lepturus catesbyi</i>		P			
Red-billed Tropicbird (Caribbean)	<i>Phaethon aethereus mesonauta</i> (Caribbean)		P			

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Red-tailed Tropicbird (Black-billed)	<i>Phaethon rubricauda melanorhynchos</i>			H		
Yellow-billed Loon	<i>Gavia adamsii</i>	C				
Laysan Albatross	<i>Phoebastria immutabilis</i>	C		H		
Black-footed Albatross	<i>Phoebastria nigripes</i>	C		H		
Short-tailed Albatross	<i>Phoebastria albatrus</i>				E	C,H
Polynesian Storm-Petrel	<i>Nesofregetta fuliginosa</i>			H		
Ashy Storm-Petrel	<i>Hydrobates homochroa</i>	C				
Band-rumped Storm-Petrel (Pacific)	<i>Hydrobates castro (Pacific)</i>				E	H
Band-rumped Storm-Petrel (Atlantic)	<i>Hydrobates castro (Atlantic)</i>	C				
Black Storm-Petrel	<i>Hydrobates melania</i>	C				
Tristram's Storm-Petrel	<i>Hydrobates tristrami</i>			H		
Murphy's Petrel	<i>Pterodroma ultima</i>	C				
Mottled Petrel	<i>Pterodroma inexpectata</i>	C		H		
Bermuda Petrel	<i>Pterodroma cahow</i>				E	C
Black-capped Petrel	<i>Pterodroma hasitata</i>	C				
Hawaiian Petrel	<i>Pterodroma sandwichensis</i>				E	H
Bonin Petrel	<i>Pterodroma hypoleuca</i>			H		
Fea's Petrel	<i>Pterodroma feae</i>	C				
Cook's Petrel	<i>Pterodroma cookii</i>	C		H		
Tahiti Petrel	<i>Pseudobulweria rostrata</i>			H		
Bulwer's Petrel	<i>Bulweria bulwerii</i>			H		
Cory's Shearwater	<i>Calonectris diomedea</i>	C				
Buller's Shearwater	<i>Ardenna bulleri</i>	C		H		
Pink-footed Shearwater	<i>Ardenna creatopus</i>	C				
Christmas Shearwater	<i>Puffinus nativitatis</i>			H		
Manx Shearwater	<i>Puffinus puffinus</i>	C				
Newell's Shearwater	<i>Puffinus newelli</i>				T	H
Black-vented Shearwater	<i>Puffinus opisthomelas</i>	C				
Audubon's Shearwater	<i>Puffinus lherminieri</i>	C	P			
Wood Stork (Southeast USA)	<i>Mycteria americana (Southeast USA)</i>				T	C
Magnificent Frigatebird	<i>Fregata magnificens</i>	R	P			
Great Frigatebird (Central Pacific)	<i>Fregata minor palmerstoni</i>			H		
Masked Booby (Atlantic)	<i>Sula dactylatra dactylatra</i>		P			
Red-footed Booby (Atlantic)	<i>Sula sula sula</i>		P			
Brandt's Cormorant	<i>Phalacrocorax penicillatus</i>	C				
Red-faced Cormorant	<i>Phalacrocorax urile</i>	C				
American White Pelican	<i>Pelecanus erythrorhynchos</i>	R				
Brown Pelican (Caribbean)	<i>Pelecanus occidentalis occidentalis</i>		P			
Great Blue Heron (Great White)	<i>Ardea herodias occidentalis</i>	R				
Little Blue Heron	<i>Egretta caerulea</i>	R				
Reddish Egret	<i>Egretta rufescens</i>	C				
California Condor	<i>Gymnogyps californianus</i>				E	C

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Swallow-tailed Kite	<i>Elanoides forficatus</i>	C				
Northern Harrier	<i>Circus hudsonius</i>	R				
Sharp-shinned Hawk (Puerto Rican)	<i>Accipiter striatus venator</i>				E	P
Snail Kite (Everglade)	<i>Rostrhamus sociabilis plumbeus</i>				E	C
Harris's Hawk	<i>Parabuteo unicinctus harrisi</i>	R				
Broad-winged Hawk (Puerto Rican)	<i>Buteo platypterus brunnescens</i>				E	P
'lo	<i>Buteo solitarius</i>			H		
Ferruginous Hawk	<i>Buteo regalis</i>	R				
Flammulated Owl	<i>Psilosops flammeolus</i>	C				
Puerto Rican Screech-Owl (Virgin Islands)	<i>Megascops nudipes newtoni</i>		P			
Whiskered Screech-Owl	<i>Megascops trichopsis</i>	C				
Western Screech-Owl (Northern Pacific)	<i>Megascops kennicottii kennicottii/ cardonensis</i>	R				
Snowy Owl	<i>Bubo scandiacus</i>	C				
Burrowing Owl (Western)	<i>Athene cunicularia hypugaea</i>	R				
Burrowing Owl (Florida)	<i>Athene cunicularia floridana</i>	R				
Spotted Owl (California)	<i>Strix occidentalis occidentalis</i>	C				
Spotted Owl (Northern)	<i>Strix occidentalis caurina</i>				T	C
Spotted Owl (Mexican)	<i>Strix occidentalis lucida</i>				T	C
Long-eared Owl	<i>Asio otus</i>	C				
Short-eared Owl	<i>Asio flammeus flammeus</i>	C				
Pueo	<i>Asio flammeus sandwichensis</i>			H		
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	R				
Elegant Trogon	<i>Trogon elegans</i>	C				
Guam Kingfisher	<i>Todiramphus cinnamominus</i>				E	H
Mariana Kingfisher	<i>Todiramphus albicilla</i>			H		
Belted Kingfisher	<i>Megaceryle alcyon</i>	R				
Lewis's Woodpecker	<i>Melanerpes lewis</i>	C				
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	C				
Gila Woodpecker	<i>Melanerpes uropygialis</i>	R				
Williamson's Sapsucker (Rocky Mountain)	<i>Sphyrapicus thyroideus nataliae</i>	R				
Nuttall's Woodpecker	<i>Drybates nuttallii</i>	R				
Red-cockaded Woodpecker	<i>Drybates borealis</i>				E	C
White-headed Woodpecker (California)	<i>Drybates albolarvatus gravirostris</i>	R				
Arizona Woodpecker	<i>Drybates arizonae</i>	C				
Gilded Flicker	<i>Colaptes chrysoides</i>	C				
Ivory-billed Woodpecker	<i>Campephilus principalis</i>				X	C
Crested Caracara (Audubon's)	<i>Caracara cheriway audubonii</i>				T	C
American Kestrel (Southeast)	<i>Falco sparverius paulus</i>	R				
Aplomado Falcon (Northern)	<i>Falco femoralis septentrionalis</i>				E	C
Prairie Falcon	<i>Falco mexicanus</i>	R				
Blue-crowned Lorikeet	<i>Vini australis</i>				W	H
Carolina Parakeet	<i>Conuropsis carolinensis</i>				X	C

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Green Parakeet	<i>Psittacara holochlorus</i>				W	C
Puerto Rican Parakeet	<i>Psittacara maugaei</i>				X	P
Thick-billed Parrot	<i>Rhynchopsitta pachyrhyncha</i>				E	C
Puerto Rican Parrot	<i>Amazona vittata</i>				E	P
Red-crowned Parrot	<i>Amazona viridigenalis</i>				W	C
Olive-sided Flycatcher	<i>Contopus cooperi</i>	C				
Willow Flycatcher (Southwestern)	<i>Empidonax traillii extimus</i>				E	C
Cordilleran Flycatcher	<i>Empidonax occidentalis</i>	R				
Micronesian Myzomela	<i>Myzomela rubratra saffordi</i>				W	H
Mao	<i>Gymnomyza samoensis</i>				E	H
Loggerhead Shrike (San Clemente)	<i>Lanius ludovicianus mearnsi</i>				E	C
Loggerhead Shrike (Eastern)	<i>Lanius ludovicianus excubitorides/migrans</i>	R				
Black-capped Vireo	<i>Vireo atricapilla</i>	C				
Puerto Rican Vireo	<i>Vireo latimeri</i>		P			
Bell's Vireo (Least)	<i>Vireo bellii pusillus</i>				E	C
Plumbeous Vireo	<i>Vireo plumbeus</i>	R				
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	C				
Florida Scrub-Jay	<i>Aphelocoma coerulescens</i>				T	C
Island Scrub-Jay	<i>Aphelocoma insularis</i>	C				
Woodhouse's Scrub-Jay (Woodhouse's)	<i>Aphelocoma woodhouseii woodhouseii</i>	R				
Clark's Nutcracker	<i>Nucifraga columbiana</i>	R				
Yellow-billed Magpie	<i>Pica nuttalli</i>	C				
Mariana Crow	<i>Corvus kubaryi</i>				E	H
White-necked Crow	<i>Corvus leucognaphalus</i>				E	P
Hawaiian Crow/'Alalā	<i>Corvus hawaiiensis</i>				E	H
Chihuahuan Raven	<i>Corvus cryptoleucus</i>	R				
Rufous Fantail (Guam)	<i>Rhipidura rufifrons uraniae</i>				X	H
Rufous Fantail (Saipan)	<i>Rhipidura rufifrons saipanensis</i>				W	H
Rufous Fantail (Rota)	<i>Rhipidura rufifrons mariae</i>				W	H
Hawai'i 'Elepaio	<i>Chasiempis sandwichensis</i>				W	H
Kaua'i 'Elepaio	<i>Chasiempis sclateri</i>				W	H
O'ahu 'Elepaio	<i>Chasiempis ibidis</i>				E	H
Fiji Shrikebill (Manua)	<i>Clytorhynchus vitiensis powelli</i>				W	H
Tinian Monarch	<i>Monarcha takatsukasae</i>				W	H
Guam Flycatcher	<i>Myiagra freycineti</i>				X	H
Horned Lark (Streaked)	<i>Eremophila alpestris strigata</i>				T	C
Black-capped Chickadee (Appalachian)	<i>Poecile atricapillus praticus</i>	R				
Mexican Chickadee	<i>Poecile sclateri</i>	C				
Chestnut-backed Chickadee (Northern)	<i>Poecile rufescens rufescens</i>	R				
Gray-headed Chickadee (Alaska)	<i>Poecile cinctus lathamii</i>	C				
Oak Titmouse	<i>Baeolophus inornatus</i>	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Verdin (Southwest)	<i>Auriparus flaviceps acaciaronum</i>	R				
White-breasted Nuthatch (Slender-billed)	<i>Sitta carolinensis aculeata</i>	R				
Brown-headed Nuthatch	<i>Sitta pusilla</i>	R				
Marsh Wren (Worthington's)	<i>Cistothorus palustris griseus</i>	R				
Bewick's Wren (Eastern)	<i>Thryomanes bewickii bewickii</i>	R				
Cactus Wren (Speckled)	<i>Campylorhynchus brunneicapillus guttatus</i>	R				
California Gnatcatcher (Coastal)	<i>Poliophtila californica californica</i>				T	C
American Dipper	<i>Cinclus mexicanus</i>	R				
Wrentit	<i>Chamaea fasciata</i>	C				
Golden White-eye	<i>Cleptornis marchei</i>				W	H
Bridled White-eye (Guam)	<i>Zosterops conspicillatus conspicillatus</i>				X	H
Bridled White-eye (Saipan)	<i>Zosterops conspicillatus saypani</i>				W	H
Rota White-eye	<i>Zosterops rotensis</i>				E	H
Nightingale Reed Warbler (Guam)	<i>Acrocephalus luscinius</i>				X	H
Nightingale (Saipan) Reed Warbler	<i>Acrocephalus luscinius/hiwae</i>				E	H
Aguiguan Reed Warbler	<i>Acrocephalus nijoi</i>				X	H
Pagan Reed Warbler	<i>Acrocephalus yamashinae</i>				X	H
Millerbird (Nihoa)	<i>Acrocephalus familiaris kingi</i>				E	H
Kāma'o	<i>Myadestes myadestinus</i>				X	H
Āmaui	<i>Myadestes wahensis</i>				X	H
Oloma'o	<i>Myadestes lanaiensis rutha</i>				E	H
'Ōma'o	<i>Myadestes obscurus</i>			H		
Puaiohi	<i>Myadestes palmeri</i>				E	H
Veery (Eastern)	<i>Catharus fuscescens fuscescens</i>	R				
Bicknell's Thrush	<i>Catharus bicknelli</i>	C				
Wood Thrush	<i>Hylocichla mustelina</i>	C				
Varied Thrush (Pacific)	<i>Ixoreus naevius naevius</i>	R				
Curve-billed Thrasher (Brownsville)	<i>Toxostoma curvirostre oberholseri</i>	R				
Curve-billed Thrasher (Palmer's)	<i>Toxostoma curvirostre palmeri</i>	R				
Bendire's Thrasher	<i>Toxostoma bendirei</i>	C				
California Thrasher	<i>Toxostoma redivivum</i>	C				
LeConte's Thrasher	<i>Toxostoma lecontei</i>	C				
Sage Thrasher	<i>Oreoscoptes montanus</i>	R				
Polynesian Starling (Manua)	<i>Aplonis tabuensis manuae</i>				W	H
Polynesian Starling (Tutuila)	<i>Aplonis tabuensis tutuilae</i>				W	H
Samoa Starling	<i>Aplonis atrifusca</i>				W	H
Kaua'I Ō'Ō	<i>Moho braccatus</i>				X	H
O'ahu Ō'Ō	<i>Moho apicalis</i>				X	H
Bishop's Ō'Ō	<i>Moho bishopi</i>				X	H
Hawai'i Ō'Ō	<i>Moho nobilis</i>				X	H
Kioea	<i>Chaetoptila angustipluma</i>				X	H
Phainopepla (Southwest)	<i>Phainopepla nitens lepida</i>	R				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Sprague's Pipit	Anthus spragueii	C				
Evening Grosbeak	Coccothraustes vespertinus	C				
Po`ouli	Melamprosops phaeosoma				X	H
'Akikiki	Oreomystis bairdi				E	H
O'ahu 'Alauahio	Paroreomyza maculata				E	H
Kākāwahie	Paroreomyza flammea				X	H
Maui 'Alauahio	Paroreomyza montana			H		
Palila	Loxioides bailleui				E	H
Laysan Finch	Telespyza cantans				E	H
Nihoa Finch	Telespyza ultima				E	H
Kona Grosbeak	Chloridops kona				X	H
Lesser Koa-Finch	Rhodacanthis flaviceps				X	H
Greater Koa-Finch	Rhodacanthis palmeri				X	H
'Ula-'ai-hawane	Ciridops anna				X	H
'Akohekohe	Palmeria dolei				E	H
Laysan Honeycreeper	Himatione fraithii				X	H
'Apapane	Himatione sanguinea			H		
'Tiwi	Drepanis coccinea				E	H
Hawai'i Mamo	Drepanis pacifica				X	H
Black Mamo	Drepanis funerea				X	H
`Ō`ū	Psittirostra psittacea				E	H
Lanai Hookbill	Dysmorodrepanis munroi				X	H
Maui Parrotbill	Pseudonestor xanthophrys				E	H
Kaua'i Nukupu'u	Hemignathus hanapepe				X	H
O'ahu Nukupu'u	Hemignathus lucidus				X	H
Maui Nukupu'u	Hemignathus affinis				X	H
'Akiapōlā'au	Hemignathus wilsoni				E	H
Lesser 'Akialoa	Akialoa obscura				X	H
Kaua'i 'Akialoa	Akialoa stejnegeri				X	H
O'ahu 'Akialoa	Akialoa ellisiana				X	H
Maui-nui 'Akialoa	Akialoa lanaiensis				X	H
'Anianiau	Magumma parva			H		
Hawai'i 'Amakihi	Chlorodrepanis virens			H		
O'ahu 'Amakihi	Chlorodrepanis flava			H		
Kaua'i 'Amakihi	Chlorodrepanis stejnegeri			H		
Greater 'Amakihi	Viridonia sagittirostris				X	H
Hawai'i Creeper	Loxops mana				E	H
'Akeke'e	Loxops caeruleirostris				E	H
O'ahu 'Akepa	Loxops wolstenholmei				X	H
Maui 'Akepa	Loxops ochraceus				X	H
Hawai'i 'Akepa	Loxops coccineus				E	H
Black Rosy-Finch	Leucosticte atrata	C				
Brown-capped Rosy-Finch	Leucosticte australis	C				
Cassin's Finch	Haemorhous cassinii	C				
Cassia Crossbill	Loxia sinesciuris	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Lawrence's Goldfinch	<i>Spinus lawrencei</i>	C				
Chestnut-collared Longspur	<i>Calcarius ornatus</i>	C				
Thick-billed Longspur	<i>Rhynchophanes mccownii</i>	C				
McKay's Bunting	<i>Plectrophenax hyperboreus</i>	C				
Rufous-winged Sparrow	<i>Peucaea carpalis</i>	C				
Cassin's Sparrow	<i>Peucaea cassinii</i>	R				
Bachman's Sparrow	<i>Peucaea aestivalis</i>	C				
Grasshopper Sparrow (Florida)	<i>Ammodramus savannarum flridanus</i>				E	C
Grasshopper Sparrow (Northern)	<i>Ammodramus savannarum perpallidus/pratensis</i>	R				
Lark Bunting	<i>Calamospiza melanocorys</i>	R				
Black-chinned Sparrow	<i>Spizella atrogularis</i>	C				
Field Sparrow	<i>Spizella pusilla</i>	R				
Bell's Sparrow (San Clemente)	<i>Artemisiospiza belli clementeae</i>				T	C
Vesper Sparrow (Oregon)	<i>Poocetes gramineus affinis</i>	R				
LeConte's Sparrow	<i>Ammodramus leconteii</i>	C				
Dusky Seaside Sparrow	<i>Ammospiza maritima nigrescens</i>				X	C
Seaside Sparrow (Cape Sable)	<i>Ammodramus maritimus mirabilis</i>				E	C
Seaside Sparrow (Atlantic/Gulf)	<i>Ammodramus maritima maritima/pennisulae/ macgillivraii/ fisheri/sennetti</i>	C				
Saltmarsh Sparrow	<i>Ammodramus caudacuta</i>	C				
Baird's Sparrow	<i>Centronyx bairdii</i>	C				
Henslow's Sparrow	<i>Centronyx henslowii</i>	C				
Savannah Sparrow (Belding's)	<i>Passerculus sandwichensis beldingi</i>	R				
Song Sparrow (Alameda/Samuels)	<i>Melospiza melodia pusillula/samuelis</i>	R				
Song Sparrow (Channel Island)	<i>Melospiza melodia graminea</i>	R				
California Towhee (Inyo)	<i>Melozona crissalis eremophilus</i>				T	C
Rufous-crowned Sparrow (Rock)	<i>Aimophila ruficeps eremoeca</i>	R				
Yellow-breasted Chat (Eastern)	<i>Icteria virens virens</i>	R				
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	R				
Bobolink	<i>Dolichonyx oryzivorus</i>	C				
Eastern Meadowlark	<i>Sturnella magna</i>	R				
Puerto Rican Oriole	<i>Icterus portoricensis</i>		P			
Orchard Oriole	<i>Icterus spurius</i>	R				
Bullock's Oriole	<i>Icterus bullockii</i>	R				
Scott's Oriole	<i>Icterus parisorum</i>	R				
Tricolored Blackbird	<i>Agelaius tricolor</i>	C				
Yellow-shouldered Blackbird	<i>Agelaius xanthomus</i>				E	P
Rusty Blackbird	<i>Euphagus carolinus</i>	R				
Bachman's Warbler	<i>Vermivora bachmanii</i>				X	C
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	C				
Blue-winged Warbler	<i>Vermivora cyanoptera</i>	R				
Prothonotary Warbler	<i>Protonotaria citrea</i>	C				

Common Name	Scientific Name	BCC 2021 ¹			ESA/WL ²	
		CO	PV	HP	List	Area
Colima Warbler	<i>Leiothlypis crissalis</i>	C				
Virginia's Warbler	<i>Leiothlypis virginiae</i>	C				
Connecticut Warbler	<i>Oporornis agilis</i>	C				
Kentucky Warbler	<i>Geothlypis formosa</i>	C				
Common Yellowthroat (San Francisco)	<i>Geothlypis trichas sinuosa</i>	R				
Elfin-woods Warbler	<i>Setophaga angelae</i>				T	P
Kirtland's Warbler	<i>Setophaga kirtlandii</i>	C				
Cape May Warbler	<i>Setophaga tigrina</i>	R				
Cerulean Warbler	<i>Setophaga cerulea</i>	C				
Bay-breasted Warbler	<i>Setophaga castanea</i>	R				
Prairie Warbler	<i>Setophaga discolor</i>	C	P			
Grace's Warbler	<i>Setophaga graciae</i>	C				
Black-throated Gray Warbler	<i>Setophaga nigrescens</i>	R				
Hermit Warbler	<i>Setophaga occidentalis</i>	R				
Golden-cheeked Warbler	<i>Dendroica chrysoparia</i>				E	C
Black-throated Green Warbler (Wayne's)	<i>Setophaga virens</i> (Wayne's)	R				
Canada Warbler	<i>Cardellina canadensis</i>	C				
Red-faced Warbler	<i>Cardellina rubrifrons</i>	C				
Scarlet Tanager	<i>Piranga olivacea</i>	R				
Pyrrhuloxia	<i>Cardinalis sinuatus</i>	C				
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	R				
Varied Bunting	<i>Passerina versicolor</i>	C				
Painted Bunting	<i>Passerina ciris</i>	R				
Dickcissel	<i>Spiza americana</i>	R				

¹BCC = Birds of Conservation Concern 2021: CO (C) = Continental USA, R = continental Bird Conservation Region list (BCR); PV (P) = Puerto Rico and Virgin Islands; HP (H) = Hawaii and Pacific Islands.

²ESA/WL (List) = listed under the USA Endangered Species Act as endangered (E) or threatened (T); considered extinct in the wild (X); or on the Partners in Flight Watch List in 2014 or the Avian Conservation Assessment Database in 2019 and not defined as a Migratory Bird (W). Area = main occurrence region of ESA or Watch List taxa as described above (C, P, H).

Appendix 2.

Numbers of Birds of Conservation Concern 2021, non-migratory birds on the Watch Lists in the 2014 State of the Birds (Rosenberg et al. 2014) or Avian Conservation Assessment Database (Partners in Flight 2019), species or populations listed as threatened or endangered under the ESA, and extinct species or populations for the Continental USA, Puerto Rico and the Virgin Islands, and Hawaii and the Pacific Islands. Shared taxa assigned to breeding area list or by greatest abundance.

Region	BCC 2021	Watch List 2014/2019	ESA	Extinct
Continental USA ¹	129 (88) ¹	11	43	8
Puerto Rico/Virgin Islands	21	0	8	2
Hawaii/Pacific Islands	31	13	37	37

¹Continental list and (additional BCR-scale taxa).



Least Tern, Joanna Gilkeson/USFWS

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**Jerome Ford, Assistant Director
U.S. Fish and Wildlife Service
Migratory Birds Program
www.fws.gov/birds**

April 2021



ATTACHMENT 5

2015011604 EASE \$36.00
08/18/2015 12:26:50P 12 PGS
Eric Schmitz
Monroe County Recorder IN
Recorded as Presented



CONSERVANCY AND KARST EASEMENTS

THIS INDENTURE WITNESSETH, that Bill C. Brown Revocable Trust, hereinafter called GRANTOR, of Monroe County, State of Indiana grants to The City of Bloomington, the Grantee, for and in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, Conservancy Easements and Karst Easements as defined below and as described on the attached exhibit "A"

Conservancy Easement – This easement is to protect natural areas and includes wooded areas, sloped areas, drainage ways and karst features. The following restrictions apply within the easement area;

- Any land disturbing activity including the placement of a fence, or alteration of any vegetative cover, including mowing, is prohibited in the easement area.
- Removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic species is allowed only after first obtaining written approval from the City of Bloomington Planning & Transportation Department.
- In cases where removal of exotic invasive species is proposed, the restoration of disturbed areas with native plant material is allowed with written approval from the City of Bloomington Planning & Transportation Department prior to any proposed removal and restoration.
- Karst areas within this Conservancy Easement are also subject to any additional restrictions provided by the Karst Conservancy Easement.

Karst Easement – This easement is to protect the Karst features. The following restrictions apply within the easement area;

- No land disturbing activity, including the placement of a fence or the placement of any fill material is allowed within the easement area.
- No structures shall be located within 10 of the easement.
- Storm water discharge into the easement area shall not be substantially changed. The easement are shall not be used for storm water detention.
- Spring or cave entrances shall not be modified except for the placement of a gate to prevent human access.
- Mowing is allowed in the easement area. Removal of dead or diseased trees that pose a safety risk or impede draining as well as removal of exotic invasive species is allowed only after first obtaining written approval from the City of Bloomington Planning & Transportation Department.
- Right is granted to the City of Bloomington to enter the property to inspect the easement and alter or repair the karst feature.
- Any use of pesticides, herbicides, or fertilizers is prohibited within the easement area.

- Where removal of exotic invasive species is proposed, the restoration of the disturbed area with native plant material is allowed. Written approval of the City of Bloomington Planning & Transportation Department is required prior to any proposed removal and restoration.

IN WITNESS WHEREOF, the said Grantor has executed this instrument this _____ day of August, 2015.

Bill C. Brown Revocable Trust

By: _____

Bill C. Brown, Trustee

STATE OF INDIANA)
) SS:
COUNTY OF MONROE)

SUBSCRIBED AND SWORN TO before me this 17th day of August, 2015.

My Commission Expires:

August 10, 2016

Larry J. Beckman / Larry J. Beckman
Notary Public

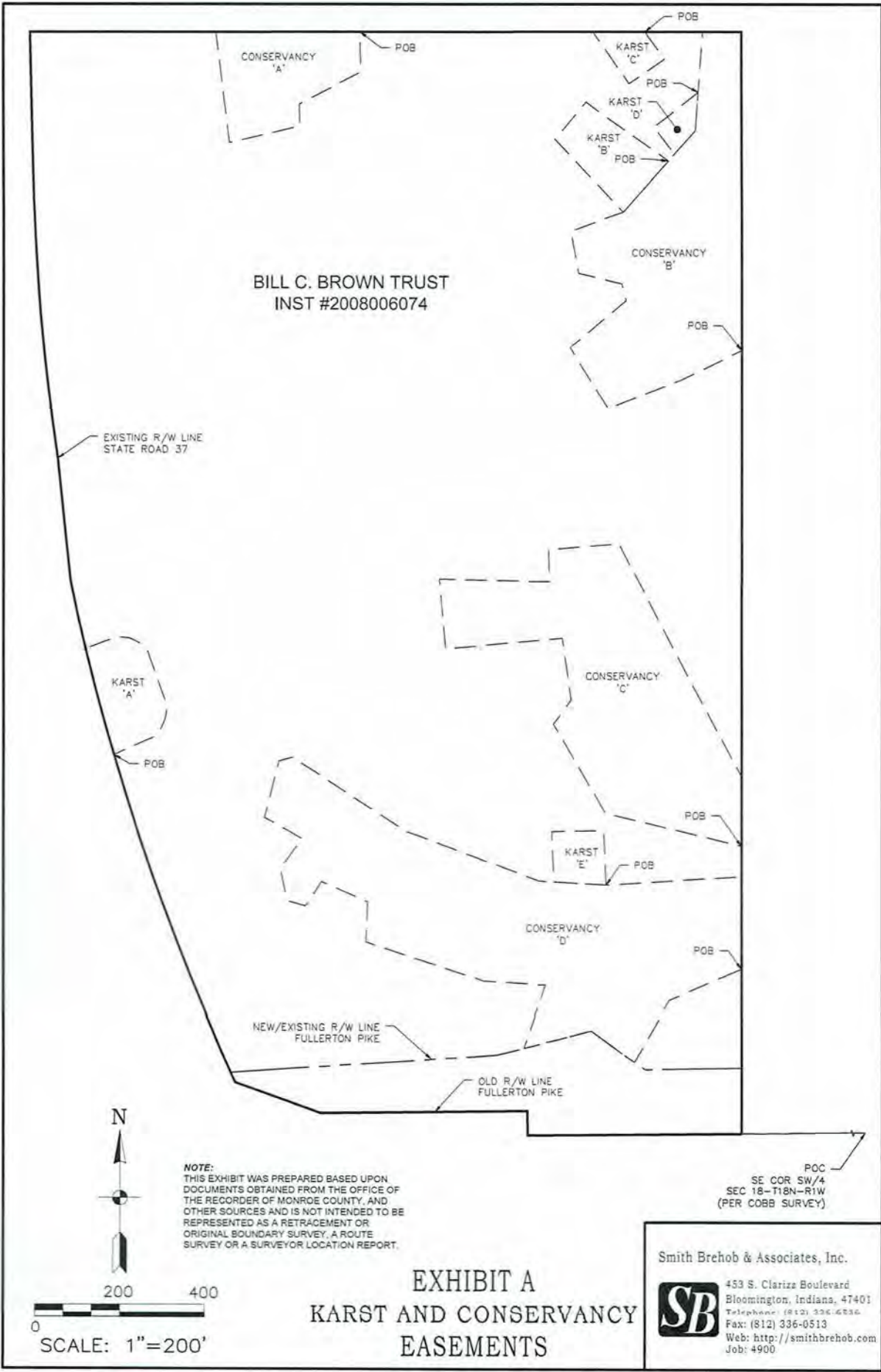
Resident of Monroe County

I affirm, under penalties of perjury that I have taken reasonable care to redact each social security number from this document unless required by law.

Stephen L. Smith
Stephen L. Smith



This instrument prepared by Smith Brehob & Associates, Inc.
453 South Clarizz Boulevard, Bloomington, IN 47401



BILL C. BROWN TRUST
INST #2008006074

EXISTING R/W LINE
STATE ROAD 37

KARST
'A'

CONSERVANCY
'C'

KARST
'E'

CONSERVANCY
'D'

NEW/EXISTING R/W LINE
FULLERTON PIKE

OLD R/W LINE
FULLERTON PIKE



NOTE:
THIS EXHIBIT WAS PREPARED BASED UPON
DOCUMENTS OBTAINED FROM THE OFFICE OF
THE RECORDER OF MONROE COUNTY, AND
OTHER SOURCES AND IS NOT INTENDED TO BE
REPRESENTED AS A RETRACEMENT OR
ORIGINAL BOUNDARY SURVEY, A ROUTE
SURVEY OR A SURVEYOR LOCATION REPORT.

0 200 400
SCALE: 1"=200'

POC
SE COR SW/4
SEC 18-T18N-R1W
(PER COBB SURVEY)

EXHIBIT A
KARST AND CONSERVANCY
EASEMENTS

Smith Brehob & Associates, Inc.
SB 453 S. Clarize Boulevard
Bloomington, Indiana, 47401
Telephone: (812) 336-6236
Fax: (812) 336-0513
Web: <http://smithbrehob.com>
Job: 4900

Exhibit "A"
"Conservancy Easement A"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76 feet, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 901.21 feet to the POINT OF BEGINNING; thence continuing along said north line South 89 degrees 56 minutes 28 seconds West 341.42 feet; thence South 06 degrees 53 minutes 17 seconds East 261.41 feet; thence North 76 degrees 41 minutes 22 seconds East 171.94 feet; thence North 01 degrees 40 minutes 08 seconds West 50.99 feet; thence North 62 degrees 58 minutes 56 seconds East 164.48 feet; thence North 01 degrees 23 minutes 27 seconds West 94.63 to the POINT OF BEGINNING, containing 1.45 acres more or less.

Exhibit "A"
"Conservancy Easement B"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 1875.23 feet to the POINT OF BEGINNING; thence continuing on said east line of said property North 00 degrees 01 minutes 11 seconds East 753.53; thence leaving said east line and following the north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet; thence leaving the north line of said property South 04 degrees 21 minutes 56 seconds West 231.89 feet; thence South 41 degrees 22 minutes 46 seconds West 259.24 feet; thence South 69 degrees 32 minutes 56 seconds West 131.82 feet; thence South 10 degrees 29 minutes 21 seconds East 100.61 feet; thence South 76 degrees 26 minutes 07 seconds East 105.45 feet; thence South 14 degrees 04 minutes 29 seconds East 40.30 feet; thence South 49 degrees 51 minutes 40 seconds West 173.60 feet; thence South 31 degrees 06 minutes 21 seconds East 173.72 feet; thence North 67 degrees 57 minutes 31 seconds East 184.23 feet; thence North 63 degrees 22 minutes 02 seconds East 162.02 feet to the POINT OF BEGINNING, containing 4.71 acres more or less.

Exhibit "A"
"Conservancy Easement C"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 683.70 feet to the POINT OF BEGINNING; thence leaving east line of said property North 76 degrees 08 minutes 59 seconds West 331.31 feet; thence North 29 degrees 35 minutes 48 seconds West 249.48 feet; thence North 35 degrees 30 minutes 41 seconds East 73.49 feet; thence North 08 degrees 02 minutes 01 seconds West 148.13 feet; thence South 84 degrees 43 minutes 31 seconds West 277.39 feet; thence North 05 degrees 21 minutes 35 seconds West 166.77 feet; thence South 88 degrees 38 minutes 10 seconds East 261.19 feet; thence North 01 degrees 24 minutes 29 seconds West 77.69 feet; thence North 84 degrees 51 minutes 42 seconds East 166.16 feet; thence South 27 degrees 17 minutes 23 seconds East 632.66 feet to said east line; thence South 00 degrees 01 minutes 11 seconds West along said east line 167.37 feet to the POINT OF BEGINNING, containing 5.52 acres more or less.

Exhibit "A"
"Conservancy Easement D"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following the east line of said property North 00 degrees 01 minutes 11 seconds East 388.00 feet to the POINT OF BEGINNING; thence continuing on the east line of said property North 00 degrees 01 minutes 11 seconds East 222.40 feet; thence leaving the east line of said property South 86 degrees 18 minutes 32 seconds East 320.63 feet; thence North 86 degrees 24 minutes 33 seconds West 159.11 feet; thence North 69 degrees 14 minutes 20 seconds West 333.42 feet; thence North 56 degrees 32 minutes 29 seconds West 325.46 feet; thence South 73 degrees 43 minutes 37 seconds West 33.43 feet; thence South 13 degrees 51 minutes 44 seconds West 139.77 feet; thence South 59 degrees 58 minutes 16 seconds East 103.04 feet; thence South 36 degrees 17 minutes 33 seconds West 87.83 feet; thence South 12 degrees 13 minutes 16 seconds East 80.84 feet; thence South 73 degrees 34 minutes 39 seconds East 44.21 feet; thence North 32 degrees 16 minutes 02 seconds East 70.27 feet; thence South 65 degrees 49 minutes 55 seconds East 120.47 feet; thence South 02 degrees 24 minutes 30 seconds West 96.59 feet; thence South 71 degrees 25 minutes 46 seconds East 293.77 feet; thence South 86 degrees 04 minutes 49 seconds East 145.63 feet; thence South 19 degrees 22 minutes 08 seconds West 152.98 feet to existing right-of-way line of Fullerton Pike, the next (2) calls are along said right-of-way; thence (1) North 75 degrees 42 minutes 16 seconds East 163.63 feet; thence (2) South 54 degrees 36 minutes 23 seconds East 125.98 feet; thence North 30 degrees 20 minutes 41 seconds East 163.31 feet; thence North 66 degrees 09 minutes 05 seconds East 163.63 feet to the POINT OF BEGINNING, containing 7.68 acres more or less.

Exhibit "A"
"Karst Easement A"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence continuing on said south line South 89 degrees 30 minutes 53 seconds West 505.39 feet; thence leaving said south line and following on the old right-of-way of Fullerton Pike the following three (3) courses: (1) North 01 degrees 09 minutes 42 seconds West 57.41 feet; thence (2) South 89 degrees 16 minutes 53 seconds West 488.72 feet; thence (3) North 69 degrees 50 minutes 09 seconds West 215.25 feet to the east right-of-way line of State Road 37; thence following said east right of way 834.38 feet along a 5584.58 foot radius curve to the right whose chord bears North 20 degrees 08 minutes 28 seconds West 833.61 feet to the POINT OF BEGINNING; thence continuing on said east right of way 266.36 feet along a 5584.58 foot radius curve to the right whose chord bears North 14 degrees 29 minutes 40 seconds West 266.33 feet; thence leaving said east right-of-way, North 69 degrees 14 minutes 58 seconds East 65.38 feet; thence 99.33 feet along a 75.00 foot radius curve to the right whose chord bears South 69 degrees 47 minutes 12 seconds East 92.23 feet; thence South 19 degrees 19 minutes 25 seconds East 128.66 feet; thence 90.65 feet along a 100.00 foot radius curve to the right whose chord bears South 19 degrees 43 minutes 29 seconds West 90.65 feet; thence South 65 degrees 29 minutes 03 seconds West 102.22 feet to the POINT OF BEGINNING, containing 0.83 acres more or less.

Exhibit "A"
"Karst Easement B"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet, thence leaving said north line, South 04 degrees 21 minutes 56 seconds West 231.89 feet, thence South 41 degrees 22 minutes 46 seconds West 96.09 feet to the POINT OF BEGINNING; thence North 54 degrees 42 minutes 31 seconds west 239.53 feet; thence South 40 degrees 17 minutes 55 seconds West 113.89 feet; thence South 42 degrees 50 minutes 38 seconds East 237.24 feet; thence North 41 degrees 22 minutes 46 seconds East 163.15 feet to the POINT OF BEGINNING, containing 0.75 acres more or less.

Exhibit "A"
"Karst Easement C"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 227.30 feet to the POINT OF BEGINNING; thence continuing along said north line South 89 degrees 56 minutes 28 seconds West 123.29 feet; thence South 34 degrees 53 minutes 29 seconds East 148.62 feet; thence North 55 degrees 47 minutes 03 seconds East 102.05 feet; thence North 35 degrees 30 minutes 02 seconds West 79.41 feet to the POINT OF BEGINNING, containing 0.27 acres more or less.

Exhibit "A"
"Karst Easement D"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds East 2628.76, thence leaving said east line and following north line of said property South 89 degrees 56 minutes 28 seconds West 90.98 feet, thence leaving said north line, South 04 degrees 21 minutes 56 seconds West 143.21 feet to the POINT OF BEGINNING; thence South 52 degrees 42 minutes 22 seconds West 131.34 feet; thence South 37 degrees 12 minutes 37 seconds East 80.78 feet; thence North 41 degrees 22 minutes 46 seconds East 73.95 feet; thence North 04 degrees 21 minutes 56 seconds East 88.69 feet to the POINT OF BEGINNING, containing 0.17 acres more or less.

Exhibit "A"
"Karst Easement E"

Project Number: 4900

LEGAL DESCRIPTION:

A part of the Southwest Quarter of Section 18, Township 9 North, Range 1 West, in Monroe County, Indiana, more particularly described as follows:

COMMENCING at the southeast corner of said quarter section; thence South 89 degrees 30 minutes 53 seconds West 885.32 feet on the south line of said quarter section to the southeast corner of Bill C. Brown Trust Fullerton Pike (Instrument #2008006074, in the Office of the Recorder, Monroe County, Indiana), thence leaving said south line and following east line of said property North 00 degrees 01 minutes 11 seconds West 610.40 feet, thence leaving said east line South 86 degrees 18 minutes 32 seconds West 320.63 feet to the POINT OF BEGINNING; thence North 02 degrees 01 minutes 59 seconds West 131.01 feet; thence South 88 degrees 52 minutes 18 seconds West 123.52 feet; thence South 02 degrees 30 minutes 11 seconds East 120.91 feet; thence South 86 degrees 24 minutes 33 seconds East 123.11 feet to the POINT OF BEGINNING, containing 0.36 acres more or less.

ATTACHMENT 6



1939 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1946 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1972 Aerial Photograph

Image: Indiana Historical Aerial Photo Index



1975 Aerial Photograph

Image: Indiana Spatial Data Portal



1999 Aerial Photograph

Image: United States Geological Survey



2003 Aerial Photograph

Image: Google Earth



2005 Aerial Photograph

Image: IndianaMap Framework Data



2010 Aerial Photograph

Image: United States Department of Agriculture



2015 Aerial Photograph

Image: United States Department of Agriculture



2016 Aerial Photograph

Image: Google Earth



2019 Aerial Photograph

Image: Landsat/Copernicus



2020 Aerial Photograph

Image: Google Earth



2022 Aerial Photograph

Image: Elevate

ATTACHMENT 7

CHAPTER 829

ZONING ORDINANCE: KARST AND SINKHOLE DEVELOPMENT STANDARDS

829-1. Purpose and Intent

The purpose of this chapter is to establish review procedures, use limitations, design standards and performance standards applicable to site developments that encompass or affect sinkholes or other karst features. The intent of this chapter is to protect the public health, safety and welfare by requiring the development and use of environmentally constrained areas to proceed in a manner that promotes safe and appropriate storm water management and ground water quality.

829-2. Policy

Unless expressly stated otherwise or contrary to context, the provisions of this chapter shall be interpreted and applied in accordance with the following policies:

- (A) Development in areas that encompass or affect sinkholes or other karst features (i.e., in “sinkhole areas”) is prohibited unless expressly permitted by this chapter or until it is demonstrated that the development would have no significant detrimental impact on storm water management or ground water quality.
- (B) Potential impacts on storm water management and ground water quality must be identified, assessed and addressed through written studies at the earliest stages of the development approval process (e.g., during the preliminary plat, development plan or site plan approval stages).
- (C) The extent and sophistication of any required study should directly reflect the nature and complexity of the proposed development and of the development site (e.g., the more complex the karst features, the more extensive and sophisticated the study).
- (D) All applicable Federal, State and Local permits shall be obtained prior to construction.

829-3. Development Requirements

- (A) This chapter shall apply to all public, private and institutional land disturbing activities, with the following exception:
 - (1) Logging, mineral extraction, and agricultural uses.
 - (a) Accessory structures and roadways used for mineral extraction uses shall comply with the Ordinance if there is an anticipated impact on any adjacent property;

- (b) Accessory structures and roadways used for logging and agricultural uses shall comply with the Ordinance; and,
 - (c) The above notwithstanding, the filling or plugging of a sinkhole with any material (e.g. earthen, manmade, animal or vegetable) in a way that adversely affects stormwater management or groundwater quality is prohibited.
- (B) Any report, study, plan, calculation or proposal required by this chapter shall be provided by the petitioner at the petitioner's cost.
- (C) Sinkhole conservancy areas (SCA) shall be established to the following minimum standards in all sinkhole areas subject to the sinkhole evaluation requirement of Section 829-4:
 - (1) For sinkholes less than or equal to one quarter (0.25) acre in area, the SCA shall, at a minimum, encompass the entire sinkhole and all of the area within twenty-five (25) feet of the sinkhole rim.
 - (2) For all sinkholes greater than one quarter (0.25) acre in size, the SCA shall, at a minimum, encompass all of the area within fifty (50) feet of the post-development sinkhole flooding area as determined in 829-6 or all of the area within twenty-five (25) feet of the sinkhole rim, whichever is less.
 - (3) For compound sinkholes, the SCA shall be established in accordance with parts (1) and (2) above for each component sinkhole and for the compound sinkhole. For example, if the compound sinkhole is greater than one quarter (0.25) acre in area, the SCA shall comply with part (2). The SCA for sinkholes that are less than one quarter (0.25) acre in area and that are within the compound sinkhole must comply with part (1). It is possible that areas within the rim of a compound sinkhole will not be subject to a SCA.

If a SCA is required to be established on a parcel that was not, or will not be created by recorded plat, a legal description of the SCA shall be included on the recorded deed of the parcel.

- (D) Setbacks and Use Restrictions. The following setbacks and use restrictions are established.
 - (1) No new construction of any of the following shall be permitted within the SCA:
 - (a) Commercial or industrial structures;
 - (b) Private drives, streets, and highways unless the County Highway Engineer and Drainage Engineer conclude that traffic safety

considerations outweigh stormwater and water quality considerations;

- (c) Storage yards or parking lots for materials, vehicles and equipment;
 - (d) Residential structures and accessory structures;
 - (e) Public, semi-public and office facilities;
 - (f) Swimming pools and other amusement and recreational services unless expressly permitted; and/or
 - (g) Stormwater detention features that have not been approved by the drainage board.
- (2) Construction of the following shall not be permitted within twenty-five (25) feet of the sinkhole rim regardless of size of sinkhole:
- (a) structures for storage of hazardous material(s); and/or
 - (b) any structure associated with a use allowed in Light Industrial (LI) or Heavy Industrial (HI) zones.
- (3) Residential, commercial, and industrial structures and public, semi-public and office facilities shall not be constructed within the sinkhole rim unless the lowest floor elevation is a minimum of five (5) feet above the sinkhole flooding elevation, or one (1) foot above the lowest elevation on the sinkhole rim, whichever is less, and provided that a statement of a registered professional engineer or geologist is submitted to the Administrator (see definitions Chapter 801) indicating that foundation conditions are suitable for such structures.
- (4) Individual Wastewater Systems
- (a) Septic tanks shall not be located within the SCA.
 - (b) Septic Disposal Fields or wastewater stabilization ponds (lagoons) shall not be located within twenty-five (25) feet of the SCA.
- (5) Pesticides and fertilizers may be used in sinkhole areas only in accordance with the rules and regulations of the State of Indiana Pesticide Review Board and with industry standards.
- (6) Operation of heavy construction equipment is prohibited in the SCA unless:

- (a) it is demonstrated to the Administrator that the operation of such equipment is necessary to prevent clear and imminent danger to persons and property;
 - (b) the operation of such equipment is necessary to implement a drainage and/or erosion control plan approved by the Drainage Board; and/or
 - (c) if the operation of such equipment is required for the removal of material from a previously filled sinkhole.
- (7) Underground utility lines, equipment and facilities shall be installed in a manner that does not disturb a sinkhole eye or disrupt the natural pattern of storm runoff into the sinkhole. Sanitary sewer lines installed within a SCA shall be water grade pipe.
 - (8) Recreational facilities such as unpaved hiking, jogging, and bicycling trails, playgrounds, and exercise courses, are permitted within the SCA.
 - (9) Golf courses and grass playing fields are permitted within the SCA subject to approval of a Management Plan for use of pesticides and fertilizers by the Administrator.
 - (10) Clearing and pruning of trees as well as understory, and limited grubbing of roots is permitted within the SCA provided that equivalent or improved protective living vegetative ground cover is maintained.
 - (11) Landscaping and minor gardening is permitted in the SCA provided erosion and sediment discharge is limited through use of minimum tillage and mulches. Normal yard and landscaping maintenance is permitted.
 - (12) Construction of light incidental landscaping and recreational structures (such as gazebos, playground equipment, etc.), is permitted in the SCA but not within the sinkhole eye. Such structures may not be placed within a SCA on excavated foundations or concrete pads but may be placed on small concrete post-hole foundations.

The above notwithstanding, no land disturbing activity may occur within a SCA if that development, construction or use is determined by the Administrator to violate the intent of this chapter.

- (E) Newly formed or pre-existing sinkholes that become active in a way that causes an immediate threat to nearby structures, roadways, persons, and/or property may be stabilized and filled provided existing drainage patterns are not changed. This subsection authorizes conditional, emergency action to remediate a hazardous condition. However, within thirty (30) days of the action, the person responsible for taking the action shall submit a report to the Administrator detailing the actions used to stabilize and/or fill the sinkhole. The report shall be reviewed by

the County Drainage Engineer and County Surveyor to determine whether existing drainage patterns were changed by the action. If the Engineer and Surveyor find that existing drainage patterns were changed, the person responsible for the action shall promptly take all measures necessary to restore the drainage patterns and to otherwise comply with this Chapter.

(F) Stormwater Detention in Sinkholes. The Administrator, upon the Drainage Board's recommendation, may waive detention requirements to allow increased runoff into sinkholes and may authorize excavation within a sinkhole flooding area in order to provide additional water detention storage, upon finding that:

- (1) the flooding concerns expressed through Section 829-6 will be satisfactorily addressed;
- (2) there are no other areas on the site suitable for detention; and
- (3) there will be no significant impact on the karst system or upon water quality.

In cases where concentrated runoff is directed to sinkholes, temporary and permanent erosion control measures, as detailed in a plan approved by the Administrator shall be implemented to prevent channel erosion.

(G) Modification of Sinkholes to Increase Outflow Rates. Increasing outflow rates of sinkholes by excavating the sinkhole eye or installing disposal wells for diverting surface runoff to the groundwater system is prohibited, unless:

- (1) it is demonstrated to the satisfaction of the Administrator and/or the Drainage Engineer that such an action is necessary to safeguard persons or property from clear and imminent danger; or
- (2) such an action is required to implement a drainage and/or erosion control plan that was approved by the Administrator.

(H) Altered Sinkholes. Filling or altering of sinkholes without an improvement location permit constitutes a zoning violation. In the event, corrective measures must be taken. No corrective or remedial measures shall be undertaken until a remediation plan has been approved by all relevant County entities or representatives and the Administrator has issued an improvement location permit for the plan. No building permits will be issued, or zoning or subdivision approvals granted until the remedial measures specified in the improvement location permit have been completed and approved.

(I) Airport Evaluation. With respect to all land owned, used and/or held by the Monroe County Board of Aviation Commissioners (BAC) for airport purposes, a Section 829-4 sinkhole evaluation (Airport Evaluation) may be made for the entire property (Airport Property). If made for the entire Airport Property, the Airport Evaluation shall be submitted to the Administrator, the Monroe County Drainage Board and the Monroe County Plan Commission for their review.

Upon a finding of compliance with this chapter and with other relevant County Code chapters, the foregoing entities shall approve the Airport Evaluation.

- (1) All future development, construction and land disturbing activities (Development Activities) at the Airport Property shall be:
 - (a) Consistent with the approved Airport Evaluation;
 - (b) Remedial actions suggested by the Airport Evaluation and required as a part of the Airport Evaluation approval may be implemented at one time or may be implemented in phases in conjunction with future Development Activities; and,
 - (c) For each proposed Development Activity, BAC shall seek site plan approval and, in connection with that process, shall submit for review and approval that portion of the Airport Evaluation relevant to the proposed Development Activities.
- (2) The original Airport Evaluation shall remain in full force and effect for a period of five (5) years from the date it is approved by the County Planning Commission. During that period of time, Development Activities at the Airport Property are subject to the approved terms and provisions of the Airport Evaluation and to the zoning and drainage regulations in effect on the date the Airport Evaluation was approved.
- (3) The Airport Evaluation shall be re-evaluated after a five (5) year period.
 - (a) The BAC may apply for additional five (5) year extensions without limitation;
 - (b) Each request for a re-evaluation of the Airport Evaluation shall be reviewed by the Administrator and may be approved administratively, subject to compliance with current law; and,
 - (c) If the Administrator finds that further extension of the Airport Evaluation is not possible under the Federal, State or County Code regulations in effect at the time of review, the BAC shall be promptly notified and shall be given a period of one (1) year beyond the expiration of the current five (5) year period to bring the Airport Evaluation into compliance with the relevant regulations.
- (4) The Airport Evaluation shall be consistent with the Federal and State authorities with respect to Airport Property development requirements.
 - (a) Federal and State standards and requirements will supersede local standards in the event of a conflict or discrepancy; and

- (b) In the event that Federal and/or State standards change during the period Airport Evaluation approval, activities may continue in accordance with such changes until the end of the period for which the Airport Evaluation was approved.

829-4. Sinkhole Evaluation and Plan Requirements

A Sinkhole Evaluation shall be performed for each site subject to this chapter (i.e., sites upon which sinkholes are fully or partially located and/or which drain to sinkholes). A Sinkhole Evaluation shall include the information set forth in subsections A through F of this section.

The following types of developments or sites may be excepted from full compliance with the Sinkhole Evaluation requirements upon the petitioner's request and a finding by the Administrator that significant drainage or water quality impacts will not result from the development or the use of the site:

- (1) administrative and minor subdivisions;
- (2) lots created greater than 10 acres for agricultural and residential uses; and
- (3) existing lots of record for which single-family residential use is proposed.

The above notwithstanding, neither the Administrator nor the Drainage Board may except a development or a site from subsection 829-4 (E). The burden of proof for establishing that there will be no significant impacts shall rest with the petitioner.

(A) A plat or site plan for the proposed subdivision or development, setting forth the following information for each of the enumerated items:

- (1) Sinkholes
 - (a) Location and limits of the area of the sinkhole depression as determined by field surveys or other reliable sources as may be approved by the Administrator. Location of sinkholes based solely upon USGS 7 ½ Minute Series Quadrangle Maps will not be considered sufficient unless field verified by a registered Indiana Surveyor, Engineer, or geologist.
 - (b) Location and elevation of the sinkhole eye or low point.
 - (c) Topographic contours at maximum intervals of two (2) feet, and spot elevations sufficient to determine the low point on the sinkhole rim and the profile of the potential overflow areas.
 - (d) Minimum floor elevations of any existing structures located within the sinkhole rim.

drainage

- (e) Elevation of any public or private roadway or drive located within or adjacent to the sinkhole.
 - (2) Flooding limits as determined in Section 829-6.
 - (3) Water considerations specified in Section 829-7, including, without limitation:
 - (a) The approximate location of public or private water supply sources such as springs or wells within 500 feet of the site.
 - (b) Boundaries of any known recharge areas to wells or springs.
 - (4) Other geologic features: location of caves, springs, faults and fracture trends, geologic mapping units.
 - (5) Proposed discharge points: the location, type and size of all points at which concentrated discharges of stormwater into the sinkhole are proposed. The drainage area to each point of concentrated discharge shall be delineated on the plan and the size of the area noted.
 - (6) Existing watercourses which drain into the sinkhole.
 - (7) All other information required to demonstrate or assess compliance with this chapter, as specified by the Administrator.
 - (8) The location of the foregoing items with respect to the location of the proposed or existing roads, detention ponds, significant landscaping features, property lines, underground utilities, and other structures.
- (B) A drainage area map showing the sinkhole watershed area, and where the site is located in a sinkhole cluster area. This map shall be extended to include, in the watershed area, any sinkholes located downstream of the site which may receive overflow drainage from the site.
- (C) Proposed SCA in accordance with Chapter 829-3 (C).
- (D) An analysis of the orientation and flow of the sinkhole drainage system, as detailed on the subsection (B) map. The use of dye trace injection testing to produce an accurate mapping of the system may be required by the Administrator when the system drains towards an area that has known flooding problems and for which the flow pattern has not been established through previous dye testing, and when significant increases or decreases in the runoff to sinkholes is expected to result from the proposed development. Significant increases generally occur if the residential density is greater than one lot per two acres (or a commercial development with equivalent impervious surfaces).

- (E) The approximate location of karst features must be shown on the final plat based on the best available mapping and/or noted on the deeds if no plat is recorded for the subdivision.
- (F) All other information deemed necessary by the Administrator.

829-5. Permit Requirement

No person or persons shall engage in the grading of land or modification of a sinkhole within the SCA or the area that would be covered by a SCA as described in 829-3 (C) without first securing an improvement location permit from the Administrator .

- (A) The owner of the property or person having an interest therein shall submit an application for a permit to the Administrator along with the sinkhole evaluation required by 829-4. The Administrator shall submit all applications to the County Drainage Engineer for review and comment and may, upon the Drainage Engineer's recommendation, submit an application to the Drainage Board for review and comment.
- (B) Upon review of the information presented by the applicant, the site, and other information as may be available, the Administrator may issue a permit for work to be performed in the SCA.
 - (1) All work shall be performed in accordance with the requirements of the Zoning Ordinance and any conditions of permit approval; and,
 - (2) The Administrator may designate certain areas where grading or construction equipment is not permitted or is otherwise limited.
- (C) Karst-Related Non-Buildable Areas. In addition to establishing a plan for grading and use of construction equipment, the Administrator may, based upon the topography, geology, soils, history of the sinkhole (such as past filling) and the developer's engineer's storm water analysis and plan, establish sinkhole-related non-buildable areas:
 - (1) No buildings, parking areas, grading or other structures shall be permitted within the sinkhole-related non-buildable area unless otherwise authorized by the Administrator; and
 - (2) No private drives, streets, and highways shall be permitted within the sinkhole-related non-buildable area unless the County Highway Engineer and Drainage Engineer conclude that traffic safety considerations outweigh stormwater and water quality considerations.

829-6. Flooding Considerations

- (A) Sinkhole Flooding Area. Except in cases in which the annual exceedance probability (AEP) of 1% (100 year storm) has been determined in a published

flood insurance study, the sinkhole flooding area shall be determined for each sinkhole for both pre-development and post-development conditions, assuming no subsurface outflow from the sinkhole.

Where the estimated volume of runoff exceeds the volume of the sinkhole depression, the depth, spread and path of overflow shall be estimated using methods established by the Drainage Board and shown on the plan.

The overflow volume shall be included in determining the maximum estimated flooding elevations in the next downstream sinkhole. This analysis shall continue downstream until the lowest sinkhole of the sinkhole cluster is reached or overflow reaches a surface watercourse.

The volume of runoff considered shall be that which results from a rainstorm with a 1% AEP and a duration of forty-eight (48) hours. The runoff volume shall be determined by the method set forth in the Natural Resource Conservation Service's TR-55 Manual.

No further flooding analysis will be required provided that:

- (1) The post-development flooding area of any sinkhole which receives drainage from the site is located entirely on the site.
 - (2) A drainage easement covering the post-development flooding area is provided for any off-site sinkhole or portion of a sinkhole which receives increased peak rates of runoff from the site. If the receiving sinkhole is not contiguous to the site, an easement must also be provided for the waterway which connects the site to the sinkhole.
 - (3) The minimum floor elevation of any existing structure is at least two (2) feet higher than the estimated flooding elevation from the 1% AEP 48-hour storm.
 - (4) The increase in volume of runoff from the site does not cause the flooding depth on any existing public road to exceed the maximum depth as determined by the Drainage Board.
- (B) Detailed Flooding Analysis. In cases where the conditions set forth in (A) above cannot be met, a detailed flooding analysis will be required if any increase in runoff volume is proposed or expected. As part of the detailed flooding analysis, a runoff model must be made and a reservoir routing analysis performed for the sinkhole watershed using hydrograph techniques as established by the Drainage Board.
- (C) The following alternative methods may be proposed and approved, singly or in combination, to keep flooding levels at pre-development levels:

- (1) Diversion of Excess Runoff to Surface Watercourses. Where feasible, increased post-development runoff may be diverted to a surface watercourse, provided that
 - (a) Any increase in peak runoff rate in the receiving watercourse does not create or worsen existing flooding problems downstream; and
 - (b) The diverted storm water remains in the same surface watershed.

Storm sewers, open channels and other appurtenances provided for diversions shall be designed in accordance with applicable sections of these Design Criteria.

The effect of diverted water on downstream watercourses and developments, and requirements for additional detention facilities prior to release of runoff to the surface watercourse shall be determined as established by the Drainage Board.

- (2) Storage of Excess Runoff within the Sinkhole Watershed. If consistent with the intent of this chapter, detention facilities may be constructed within the sinkhole watershed or the area of the sinkhole outside of the sinkhole flooding area as determined for post-development conditions.

- (D) The flooding considerations set forth in this section are designed and are intended to ensure that:

- (1) Inflow rates to the sinkhole are maintained at or below pre-development values; and
- (2) Sediment and erosion control and water quality considerations set forth in this chapter can be satisfied.

829-7. Water Quality Considerations

Because sinkholes provide direct recharge routes to groundwater, water quality in wells, caves, and springs may be affected by discharge of runoff from developed sinkhole areas. Consequently, and as more fully specified in subsections A through D below, the Sinkhole Evaluation must address potential impacts of proposed development on receiving groundwaters and must propose water quality management measures to mitigate such impacts.

- (A) Receiving Groundwater Use. The Sinkhole Evaluation Report shall identify whether the site lies within a critical area or a sensitive area based upon the following classifications.
 - (1) Critical Areas. The following areas are classified as critically sensitive to contamination from runoff and thus, are critical areas for purposes of this chapter:

- (a) Areas within 100 feet of private water supply wells.
- (b) Areas within 300 feet of public water supply wells.
- (c) Areas within 500 feet of springs used for public or private water supply.
- (d) Areas within 1000 feet of caves providing habitat to rare or endangered species.

The distances listed above may be extended by the Administrator where the recharge areas for a well, spring, or cave have been determined by studies by a qualified engineer or geologist. The length of the extension may be no greater than necessary to achieve the policies of this chapter.

- (2) Sensitive Areas. Sinkhole areas that are not within critical areas are classified as sensitive for groundwater contamination for purposes of this chapter.

(B) Groundwater Contamination Hazard. The relative potential for groundwater contamination shall be classified as low, moderate, or high depending upon the nature of the proposed land use, development density and amount of directly connected impervious area. The Sinkhole Evaluation shall identify whether the proposed development poses a low, moderate, or high hazard to groundwater uses, as defined below:

- (1) Low Hazard. The following land uses are classified as posing a relatively low hazard to groundwater contamination:
 - (a) Residential developments on sewer, provided directly connected impervious areas discharging to the sinkhole are less than or equal to one (1) acre in total area;
 - (b) Parks and recreation areas;
 - (c) Low density commercial and office developments, provided directly connected impervious areas discharging to the sinkhole are less than or equal to one (1) acre in total area; and
 - (d) Discharge from graded areas less than or equal to one (1) acre.
- (2) Moderate Hazard. The following land uses are classified as posing a relatively moderate hazard to groundwater contamination:
 - (a) Concentrated discharge from streets, parking lots, roofs, and other directly connected impervious areas having an area greater than one (1) acre and less than or equal to five (5) acres;

- (b) Multifamily residential developments and higher intensity office developments, provided the directly connected impervious areas discharging to the sinkhole are less than or equal to five (5) acres; and
 - (c) Discharge from graded areas greater than one (1) acre and less than or equal to five (5) acres.
- (3) High Hazard. The following land uses are classified as posing a high hazard to groundwater contamination:
- (a) Collector and arterial streets and highways;
 - (b) Railroads;
 - (c) Concentrated discharge from streets, parking lots, roofs, and other directly connected impervious areas having an area greater than five (5) acres;
 - (d) Commercial, industrial, and manufacturing areas;
 - (e) Individual wastewater treatment systems;
 - (f) Commercial feed lots or poultry operations; and
 - (g) Discharge from graded areas greater than five (5) acres.

- (C) Water Quality Management Measures. The majority of sinkholes drain a limited watershed area. For sinkholes where the surrounding drainage area is small enough that the area draining to the sinkhole flows predominantly as sheet flow, potential impacts on water quality can be addressed in many cases by erecting and maintaining reliable silt control barriers around the sinkhole during construction and providing a vegetative buffer area around the sinkhole to filter out potential contaminants.

When the volume of runoff into the sinkhole increases to the point where flow becomes concentrated surface flow, the degree of effort required to capture and filter out contaminants increases significantly.

Concentrated surface flow occurs naturally when the sinkhole watershed area reaches a sufficient size for watercourses leading into the sinkhole to form. Concentrated surface flow results as urbanization occurs due to construction of roads, storm sewers, and drainage channels. Subsurface flows can become concentrated through utility trenches.

- (D) Mitigation of Stormwater Runoff. The following water quality management measures may be used to mitigate the impact of storm water runoff quality. Temporary sediment controls are required for all sites. The other measures listed

may be used singly or in combination as needed based upon the potential groundwater contamination hazard of the proposed development.

(1) Sediment and Erosion Control

- (a) Nonconcentrated (sheet) flow: existing ground cover shall not be removed within twenty-five (25) feet of the sinkhole flooding area and a temporary silt barrier shall be erected and maintained around the outer perimeter of the buffer area during the construction period. Vegetative cover must be of sufficient quality and density to provide desired filtration. If existing vegetative cover is sparse, it must be improved to sufficient quality and density to provide the desired filtration.
- (b) Concentrated surface and subsurface flow: a sediment basin will be required at each point where concentrated flows are discharged into the sinkhole. Sediment basins shall be designed according to criteria set forth in the *Indiana Handbook for Erosion Control in Developing Areas*. A permanent sediment basin may be required by the Drainage Board in some cases. This requirement shall be based on the watershed area, the disturbance that the proposed project will create, and the availability of suitable sites for a sediment basin.

(2) Minimizing Directly Connected Impervious Area.

- (a) The groundwater contamination hazard category for impervious areas may be reduced by reducing the amount of directly connected impervious area. This is the area of roofs, drives, streets, parking lots, etc., which are connected via paved gutters, channels, or storm sewers.
- (b) Directly connected impervious areas can be reduced by providing sized grass swales, vegetative filter strips or other Best Management Practices to separate paved areas.

(3) Diversion of Runoff.

- (a) Concentrated discharges to sinkholes can be reduced to manageable levels or avoided by diverting runoff from impervious areas away from sinkholes where possible.
- (b) Diversions shall be done in a manner that does not increase flooding hazards on downstream properties and, generally, shall not be directed out of the surface watershed in which the sinkhole is located.

(4) Filtration Areas. For areas having a low groundwater contamination hazard and where flow into the sinkhole occurs as sheet flow, water quality requirements can be satisfied by maintaining a permanent

vegetative buffer area with a minimum width of twenty-five (25) feet around the sinkhole flooding area.

- (5) Grassed Swales and Channels.
 - (a) For areas having a low groundwater contamination hazard, concentrated flows from directly connected impervious areas of less than one (1) acre may be discharged into the sinkhole through grassed swales and channels.
 - (b) Swales and channels shall be designed for non-erosive velocities and appropriate temporary erosion control measures such as sodding or erosion control blankets shall be provided.
- (6) Storage and Infiltration. Storage and infiltration basins shall be designed to capture the first one-half (0.5) of an inch of runoff from the tributary drainage area and release the runoff over a minimum period of twenty-four (24) hours. Standard outlet structures for sedimentation and infiltration are shown in the *Indiana Handbook for Erosion Control in Developing Areas*. Storage and infiltration will be required in the following cases:
 - (a) All areas having a high groundwater contamination hazard.
 - (b) Areas having a moderate groundwater contamination hazard and where concentrated inflow occurs.
- (7) Hazardous and Toxic Materials. Facilities which involve storage or handling of hazardous or toxic materials shall comply with the State of Indiana Department of Environmental Management.

[end of chapter]

Wetlands and Jurisdictional Waters Delineation

South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403



Prepared for:

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Date:

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Project Number:

22-52

WETLANDS AND JURISDICTIONAL WATERS DELINEATION**SOUTH STATE ROAD 37 AND WEST FULLERTON PIKE****BLOOMINGTON, INDIANA 47403****VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NUMBER 22-52****TABLE OF CONTENTS**

1.0	INTRODUCTION	2
2.0	OBJECTIVE AND SCOPE	3
3.0	METHODS.....	3
3.1	WETLANDS	3
3.1.1	HYDROPHYTIC VEGETATION	3
3.1.2	HYDRIC SOILS.....	4
3.1.3	WETLAND HYDROLOGY.....	4
3.2	JURISDICTIONAL WATERS	4
4.0	DESKTOP RECONNAISSANCE	5
4.1	WETLANDS AND FLOOD ZONES	5
4.2	WATERWAYS.....	5
4.3	SOIL SURVEY	5
5.0	FIELD INVESTIGATION	6
5.1	WETLAND DELINEATION	8
5.2	JURISDICTIONAL WATERS DETERMINATION	12
5.3	KARST FEATURES	14
6.0	RESULTS AND CONCLUSIONS.....	15
7.0	REFERENCES	16

LIST OF EXHIBITS**EXHIBIT 1 – AREA MAP****EXHIBIT 2 – PARCEL, WETLAND, AND FLOODPLAIN MAP****EXHIBIT 3 – SOILS MAP****EXHIBIT 4 – SITE MAP****LIST OF TABLES WITHIN NARRATIVE****TABLE A – SOIL SURVEY SUMMARY****TABLE B – JURISDICTIONAL DETERMINATIONS****LIST OF ATTACHMENTS****ATTACHMENT 1 – SITE PHOTOGRAPHS****ATTACHMENT 2 – WETLAND FIELD DATA SHEETS**

1.0 INTRODUCTION

VET Environmental Engineering, LLC (VET) was retained by the Monroe County Board of Commissioners (Monroe County) to perform a wetlands and jurisdictional waters delineation on the property located at South State Road 37 and West Fullerton Pike, Bloomington, Monroe County, Indiana (Site). The Site is comprised of approximately 87.13 acres of vacant agricultural land (Parcel Number 53-08-18-300-001.000-009). Monroe County plans to develop the Site for municipal purposes.

The Site's current owner recorded conservancy and karst easements for the Site on August 18, 2015 at the Monroe County Recorder's Office. Smith Design Group, Inc. (Smith), formerly Smith Brehob and Associates, Inc. (Brehob), prepared the legal descriptions of the easements and the figure documenting the location of the easements. The easements were recorded to protect natural areas and karst features identified on-Site. There are four conservancy easements (Conservancy 'A' through 'D') and five karst easements (Karst 'A' through 'E'). The areas are displayed graphically on **Exhibit 4**. The document specifies several requirements including the prohibition of land disturbing activity, mowing restrictions, and explicit approval from the City of Bloomington Planning & Transportation Department to conduct maintenance within the easements such as removal of dead trees and/or invasive species.

Pursuant to Monroe County's purchase of the Site, VET performed a Phase I Environmental Site Assessment (ESA) dated August 10, 2022 and Site Reconnaissance dated August 11, 2022 at the Site. The Phase I ESA and Site Reconnaissance identified potential wetlands and jurisdictional waters at the Site. VET recommended Monroe County conduct a formal wetlands and jurisdictional waters delineation prior to development of the Site as permitting and compensatory mitigation may be required through the United States Army Corps of Engineers (USACE) and/or the Indiana Department of Environmental Management (IDEM).

VET was contracted to determine whether the potential wetland areas identified by the 2022 Phase I ESA and Site Reconnaissance are regulated wetlands, and, if so, to delineate their extents, and to determine the extents of jurisdictional waters at the Site. VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, CPESC and Mr. Evan Owings conducted the wetlands and jurisdictional waterways delineation at the Site between August 22, 2022 and August 24, 2022. VET evaluated soils, hydrology, and vegetation at nine wetland data points at the Site: DP-1 through DP-9. VET evaluated jurisdictional streams based on presence of bed and bank, ordinary high water mark (OWHM), and connection to jurisdictional waters.

Based on Site investigations, VET identified and delineated six regulated wetlands comprising approximately 0.903 acres, and 25 jurisdictional waters comprising approximately 7,021 linear feet at the Site. Approximately 0.89 acres of wetlands and 1,570 linear feet of stream are located outside the existing conservancy and karst easements at the Site. VET also identified six potential karst features not previously identified by desktop reconnaissance. Two of the potential karst features identified by VET during field investigations are located within the Karst 'B' easement. Four of the potential karst features identified by VET during field investigations are not located within the boundaries of the existing conservancy and karst easements. The extents of the regulated wetlands (Wetlands #1 through #6), wetland data points, jurisdictional streams (Streams #1 through #25), and the potential karst features are displayed on **Exhibit 4**. Exhibits (1 – 4), photographs of the Site (**Attachment 1**), wetland



field data sheets, and daily field logs (**Attachment 2**), are included to aid in understanding context of the Site and evaluated features.

2. OBJECTIVE AND SCOPE

The objective of this study was to delineate the extents of regulated wetland areas and jurisdictional waterways at the Site to determine whether USACE and/or IDEM permitting or compensatory mitigation is required prior Site development. The objective of the study was also to determine whether identified regulated wetlands or jurisdictional waterways lie within or outside the existing conservancy and karst easements at the Site.

Information was collected from desktop reconnaissance and field investigations. The desktop reconnaissance includes a review of readily ascertainable information such as topographic contours, soils, floodplain, and wetland maps. VET's professional opinions stated herein are based on generally accepted wetland and waters determination and delineation methods and procedures conventional to the environmental field at the time the study was performed and with respect to due care. VET's opinions are not to be construed as legal advice. Legal counsel should be consulted when deemed necessary by the reader.

3.0 METHODS

3.1 WETLANDS

The USACE defines wetlands as: *“Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soils. Wetlands generally include swamps, marshes, bogs, and similar areas”* (33 CFR 328.3).

Three criteria are used to evaluate the presence of wetlands: hydrophytic vegetation, hydric soils, and wetland hydrology. All three criteria must be met for an area to be identified as a wetland subject to regulatory jurisdiction under Section 404 of the CWA. In certain instances, USACE may not claim jurisdiction over wetlands that are isolated from jurisdictional waterways. However, isolated wetlands are regulated by IDEM under Indiana's (2004) State Isolated Wetlands Law (IC 13-18-22).

Construction projects involving mechanical vegetation clearing, placing fill materials, excavation, bridges, culverts, or stream crossings that impact Waters of the U.S. may require a CWA Section 404 permit from the USACE and/or a CWA Section 401 permit from IDEM's Office of Water Quality (OWQ). Impacts to isolated wetlands require a permit from IDEM. Similar activities taking place in the floodway or floodplain of a waterway may require an additional permit from IDNR Division of Water.

3.1.1 HYDROPHYTIC VEGETATION

The presence of hydrophytic vegetation is *“readily observable evidence that episodes of inundation or soil saturation lasting more than a few days during the growing season have occurred repeatedly over a period of years and that the timing, duration and frequency of wet conditions have been sufficient to produce a characteristic wetland plant community and hydric soil morphology”* (USACE 1987).



Hydrophytic vegetation is classified under several subcategories that include Obligate Wetland, Facultative Wetland, Facultative, Facultative Upland, and Upland. Plants are classified based on the estimated probabilities of a particular species occurring in wetland conditions. The indicator status of each species identified as part of this wetland delineation was determined using the *National List of Plant Species that Occur in Wetlands: North Central (Region 3)*. Each indicator status is defined below:

- Obligate Wetland (OBL) – Occur almost exclusively in wetland areas under natural conditions (estimated probability >99%).
- Facultative Wetland (FACW) – Usually occur in wetlands but occasionally occur in non-wetland (upland) areas (estimated probability 67% to 99%).
- Facultative (FAC) – Equally likely to occur in both wetland and upland areas (estimated probability 33% to 67%).
- Facultative Upland (FACU) – Usually occur in upland areas, but occasionally occur in wetlands (estimated probability 1% to 33%).
- Obligate Upland (UPL) – Occur almost always in upland areas (estimated probability >99%).

OBL, FACW, and FAC species are considered wetland species. Areas are considered to meet hydrophytic vegetation criteria when more than 50% of the dominant plant species in each vegetation strata (tree, sapling/shrub, herb, and woody vine) within a plant community are wetland species (Dominance Test).

3.1.2 HYDRIC SOILS

Hydric soils are soils that “*formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part*” (USACE, 1987). Soils must be flooded, ponded or saturated for at least one week during the growing season when soil temperatures exceed 41°F. Anaerobic (oxygen deficient) conditions cause changes in the soil matrix color, mottling, structure, and chemistry. These properties are used to identify hydric soils from non-hydric soils.

3.1.3 WETLAND HYDROLOGY

“*Wetland hydrology indicators provide evidence that the site has a continuing wetland hydrologic regime and that hydric soils and hydrophytic vegetation are not relics of a past hydrologic regime*” (USACE, 1987). Wetland hydrology is defined as the presence of water for a significant period of time at or near the surface during the growing season. If during the field investigation there is no evidence of water at the surface (12” to 18” below ground surface), wetland indicators (primary and/or secondary) may confirm periodic wetland hydrology.

3.2 JURISDICTIONAL WATERS

Jurisdictional waters, or waters of the United States (WOTUS) are regulated by the United States Army Corps of Engineers (USACE) and include (1) all waters currently or previously used for interstate or foreign commerce, (2) all interstate waters and interstate wetlands, (3) tributaries to



navigable WOTUS, including adjacent wetlands, lakes, and ponds, (4) interstate waters and their tributaries, including adjacent wetlands; and, (5) all other waters of the U.S. not identified above, such as intrastate lakes, rivers, intermittent streams, and other waters that are not part of a tributary system to interstate waters or to navigable waters of the U.S., where the use, degradation or destruction of these waters could affect interstate or foreign commerce (40 CFR 230.3(s)). In Indiana, all WOTUS are also Waters of the State.

Section 404 of the Clean Water Act (CWA) defines the limit of jurisdiction as the OHWM. Therefore, any drainage channel that exhibits an OHWM is classified as jurisdictional and is subject to regulation. OHWM is defined as, *“the line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas”* (USACE, 2005).

4.0 DESKTOP RECONNAISSANCE

4.1 WETLANDS AND FLOOD ZONES

Wetlands, flood zones, and waterways identified during the desktop reconnaissance are displayed on **Exhibit 2**. The National Wetland Inventory (NWI) did not identify any wetlands on-Site. Floodplain data was obtained from the Federal Emergency Management Association (FEMA) Flood Rate Insurance Maps (FIRM). This data represents areas in Indiana that are located in a floodway or flood hazard zone. No floodways were identified on-Site.

4.2 WATERWAYS

The desktop reconnaissance identified six perennial streams on-Site according to the United States Geological Survey’s (USGS) National Hydrography Dataset (NHD). Five of the streams are located within the forested area located along the northern and eastern Site boundaries. The streams along the Site’s eastern boundary generally run from west to east toward the Site’s eastern boundary. Streams along the northern boundary generally run south to north toward the Site’s northern boundary. The sixth stream is located on the western Site boundary and is coincident with a mapped karst feature. All mapped waterbodies are displayed on **Exhibit 2**.

4.3 SOIL SURVEY

The United States Agricultural Department (USDA) Web Soil Survey (WSS) indicates that the Site is largely underlain by Bedford Silt Loam and Crider Silt Loam (**Exhibit 3**). All soils present on the Site are included in **Table A**. No soils mapped on-Site are classified as hydric soils according to the 2016 National Resources Conservation Service (NRCS) Hydric Soils List for Monroe County, Indiana.



TABLE A. SOIL SURVEY SUMMARY		
Map Symbol	Soil Type Name	Percent of Site (%)
BdB	Bedford Silt Loam, 2-6% Slopes	40.5
CrC	Crider Silt Loam, 6-12% Slopes	36.3
HaD	Hagerstown Silt Loam, 12-18% Slopes	17.2
CaD	Caneyville Silt Loam, 12-18% Slopes	5.9

5.0 FIELD INVESTIGATION

VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, CPESC and Mr. Evan Owings conducted a wetlands and jurisdictional waters delineation at the Site between August 22, 2022 and August 24, 2022. Jurisdictional waterways were delineated on August 22, 2022, and regulated wetlands were delineated on August 23 and 24, 2022. Select photos taken during the field investigation are included in **Attachment 1**.

The Site is located at the northeastern corner of the intersection between South State Road 37, also known as Interstate 69, and West Fullerton Pike. Access to the Site is provided by the northernmost exit on the roundabout east of South State Road 37/Interstate 69 on West Fullerton Pike. The ground surface of the Site slopes radially outward from the middle-western portion of the Subject Property at an approximate surface elevation of 822' above mean sea level (MSL) toward the northern, eastern, and western boundaries of the Site at approximate surface elevations of 780', 740', and 804' above MSL, respectively. A local high elevation of 824' above MSL exists on the northern Site boundary west of the eastern tree line. Surface water runoff flows as sheet flow toward the northern, eastern, and western Site boundaries. Storm water discharges from the Site as channelized flow via the observed ephemeral and mapped perennial streams to Clear Creek from the northern and eastern Site boundaries, and via sheet flow toward the western Site boundaries. Surface water runoff from the Site discharges to Clear Creek, which is within the East Fork of the White River Basin.

On August 22, 2022, VET delineated the extent of jurisdictional streams at the Site. VET identified jurisdictional streams on the northern and eastern portions of the Site. Streams on the Site were evaluated for presence of bed and bank, an OHWM, and connection to other jurisdictional streams. On August 23, 2022, VET excavated test pits at five locations within three suspected wetland areas on the approximate northern half of the Site. VET delineated Wetlands #1, #2, and a suspected wetland area by excavation of test pits within and outside the suspected wetland areas. VET observed hydrophytic vegetation coincident with rutting from vehicle tires. The hydrophytic vegetative stratum appears to have developed recently within the vehicle tire ruts. Based on field observations and review of historical aerial imagery, it is VET's opinion that these areas do not constitute regulated wetlands.

On August 24, 2022, VET excavated test pits at four locations within suspected wetland areas on the approximate southern half of the Site. VET delineated Wetlands #4 and #5 by excavation of test pits within and outside the suspected wetland areas. Wetland #6 was delineated without excavation of test pits because it is coincident with the preexisting Karst 'A' easement. VET observed suspected wetland features coincident with rutting from vehicle tracks. VET observed hydrophytic vegetation coincident with rutting from vehicle tires. The hydrophytic vegetative stratum appears to have developed recently within the vehicle tire ruts. Based on field observations and review of historical aerial imagery, it is VET's opinion that these areas do not constitute regulated wetlands.



During field investigations, VET identified six potential karst features that were not previously identified during desktop reconnaissance. One potential karst spring and one sinking stream were identified within the boundaries of the Karst 'B' easement. One potential karst spring and one sinking stream were identified to the north of the Karst 'C' easement. Two potential sinkholes were identified on the northwestern portion and the southwestern portion of the Site, both outside the boundaries of existing conservancy and karst easements.

Descriptions of the wetland delineation and jurisdictional waters delineation at the Site are in **Sections 5.1** and **5.2**, respectively. Jurisdictional determinations and potential impacts for the wetlands and waters located outside the boundaries of the existing conservancy and karst easements are tabulated below in **Table B**. On-Site regulated wetlands and jurisdictional streams identified by VET are displayed on **Exhibit 4**.



Table B. Wetlands and Waters Jurisdictional Determinations									
Feature	Jurisdictional Opinion	Reason	Cowardin Class	OHWM	Bed and Bank	Total on-Site		Total outside Existing Easements	
						(acres)	(feet)	(acres)	(feet)
Wetland #1	FJ	ADJ	PEM/PFO	N/A	N/A	0.277	N/A	0.277	N/A
Wetland #2	FJ	ADJ	PEM	N/A	N/A	0.076	N/A	0.076	N/A
Wetland #3	FJ	ADJ	PEM	N/A	N/A	0.027	N/A	0.027	N/A
Wetland #4	SJ	SN	PEM	N/A	N/A	0.398	N/A	0.398	N/A
Wetland #5	FJ	ADJ	PEM	N/A	N/A	0.080	N/A	0.080	N/A
Wetland #6	FJ	ADJ	PEM	N/A	N/A	0.045	N/A	0.000	N/A
Total Wetland Impacts						0.903	N/A	0.858	N/A
Stream #1	FJ	OHWM	Ephemeral	Yes	Yes	N/A	664.8	N/A	397.4
Stream #2	FJ	OHWM	Ephemeral	Yes	Yes	N/A	451.6	N/A	262.9
Stream #3	FJ	OHWM	Ephemeral	Yes	Yes	N/A	18.6	N/A	0.00
Stream #4	FJ	OHWM	Ephemeral	Yes	Yes	N/A	38.7	N/A	38.7
Stream #5	FJ	OHWM	Ephemeral	Yes	Yes	N/A	44.0	N/A	44.0
Stream #6	FJ	OHWM	Ephemeral	Yes	Yes	N/A	101.4	N/A	0.00
Stream #7	FJ	OHWM	Ephemeral	Yes	Yes	N/A	39.8	N/A	39.8
Stream #8	FJ	OHWM	Ephemeral	Yes	Yes	N/A	1,348.2	N/A	284.5
Stream #9	FJ	OHWM	Ephemeral	Yes	Yes	N/A	86.7	N/A	0.00
Stream #10	FJ	OHWM	Ephemeral	Yes	Yes	N/A	267.3	N/A	0.00
Stream #11	FJ	OHWM	Ephemeral	Yes	Yes	N/A	855.8	N/A	0.00
Stream #12	FJ	OHWM	Ephemeral	Yes	Yes	N/A	229.4	N/A	62.2
Stream #13	FJ	OHWM	Ephemeral	Yes	Yes	N/A	25.3	N/A	0.00
Stream #14	FJ	OHWM	Ephemeral	Yes	Yes	N/A	103.7	N/A	0.00
Stream #15	FJ	OHWM	Ephemeral	Yes	Yes	N/A	45.3	N/A	0.00
Stream #16	FJ	OHWM	Ephemeral	Yes	Yes	N/A	35.7	N/A	5.5
Stream #17	FJ	OHWM	Ephemeral	Yes	Yes	N/A	529.9	N/A	223.6
Stream #18	FJ	OHWM	Ephemeral	Yes	Yes	N/A	256.6	N/A	87.30
Stream #19	FJ	OHWM	Ephemeral	Yes	Yes	N/A	51.2	N/A	51.2
Stream #20	FJ	OHWM	Ephemeral	Yes	Yes	N/A	1,194.5	N/A	0.00
Stream #21	FJ	OHWM	Ephemeral	Yes	Yes	N/A	11.1	N/A	0.00
Stream #22	FJ	OHWM	Ephemeral	Yes	Yes	N/A	121.3	N/A	9.1
Stream #23	FJ	OHWM	Ephemeral	Yes	Yes	N/A	141.1	N/A	0.00
Stream #24	FJ	OHWM	Ephemeral	Yes	Yes	N/A	295.9	N/A	0.00
Stream #25	FJ	OHWM	Ephemeral	Yes	Yes	N/A	62.8	N/A	62.8
Total Stream Impacts						N/A	7,021	N/A	1,569

KEY	
FJ	Federal jurisdiction
SJ	State jurisdiction
NJ	Not jurisdictional
ADJ	Adjacent to Waters of the US
SN	Significant nexus to Waters of the US
OHWM	Ordinary High Water Mark
PFO	Palustrine Forested (Deciduous)
PEM	Palustrine Emergent

5.1 WETLAND DELINEATION

VET performed a delineation of the potential wetland areas identified by the 2022 Phase I ESA and Site Reconnaissance on August 23 and 24, 2022. The wetland delineation was not restricted by weather conditions. Weather conditions during the delineation were characteristic of the region. The potential wetland areas were identified based on observed geomorphic position, observed vegetation communities, and presence of hydrology indicators.



Potential wetland areas were identified in ten locations based on Site observations. In order for an area to be identified as a wetland subject to regulatory jurisdiction under Section 404 of the Clean Water Act, it must exhibit hydrophytic vegetation, hydric soils, and wetland hydrology. Wetland boundaries were delineated based on observed changes in vegetative stratum and condition, hydrology, and underlying soils. Based on field investigations, VET determined that there are six regulated wetlands at the Site, comprising a total area of approximately 0.903 acres. Approximately 0.858 acres of the identified regulated wetlands are located outside the boundaries of existing conservancy and karst easements at the Site. Approximately 0.045 acres of the identified regulated wetlands are located within the existing conservancy and karst easements at the Site.

VET utilized USACE Wetland Determination Data Forms for the Midwest Region to evaluate data points in suspected wetland areas. Descriptions of the regulated wetlands and results of the field investigations are outlined below. Wetland data point locations and delineated regulated wetland areas are shown on **Exhibit 4**. Wetland Determination Data Forms are included as **Attachment 2**.

Wetland #1

Wetland #1 is located within a manmade concave depression developed for storm water control and storage on the northwestern portion of the Site, to the east of a vegetated area along the western Site boundary. VET evaluated two wetland data points (DP-1 and DP-2) during field investigations to delineate Wetland #1. DP-1 was excavated within the concave depression in an area dominated by hydrophytic vegetation. VET observed significantly disturbed soil and hydrology at the location of DP-1. The disturbed soil and hydrology VET observed was likely due to topsoil removal at the Site and construction of the observed rock check dam for storm water control. VET observed wetland hydrology characteristics including water-stained leaves (B9), drainage patterns (B10) and geomorphic position (D2) at the location of DP-1. VET observed hydric soils exhibiting the depleted matrix indicator (F3), and hydrophytic vegetation at the location of DP-1. Based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation, VET determined that DP-1 is located within a regulated wetland.

DP-2 was excavated immediately outside the area dominated by hydrophytic vegetation and upgradient of DP-1, within the concave depression to delineate the extent of the regulated wetland. DP-2 is located within a concave depression on a plain to the northeast of DP-1. VET did not observe wetland hydrology characteristics, hydric soils, or hydrophytic vegetation at the location of DP-2. VET determined that DP-2 is located outside of the regulated wetland identified by DP-1. Wetland #1 is delineated across and opposite a topographic divide and rock check dam. This area of Wetland #1 exhibits the same wetland hydrology, vegetation, and hydric soils characteristics as the area delineated by DP-1 and DP-2.

Based on the results of the wetland determinations for DP-1 and DP-2, it is VET's opinion that Wetland #1 is partially a palustrine emergent and partially a palustrine forested wetland and comprises approximately 0.277 acres outside the boundaries of the existing conservancy and karst easements at the Site.



Wetland #2

Wetland #2 is located within a manmade concave depression in a swale along the manmade berm developed for storm water control on the northeastern portion of the Site, to the west of the eastern tree line. VET evaluated two wetland data points (DP-4 and DP-5) during field investigations to delineate Wetland #2. DP-4 was excavated within the concave depression to the west of the eastern tree line in an area dominated by hydrophytic vegetation. VET observed wetland hydrology characteristics including surface soil cracks (B6) and geomorphic position (D2) at the location of DP-4. VET observed hydric soils exhibiting the depleted matrix indicator (F3) and hydrophytic vegetation at the location of DP-4. Based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation, VET determined that DP-4 is located within a regulated wetland.

DP-5 was excavated immediately outside and upgradient of DP-4 to delineate the extent of the regulated wetland. DP-5 is located within a concave depression on a plain to the northwest of DP-4. VET observed wetland hydrology characteristics including surface soil cracks (B6) and geomorphic position (D2) at the location of DP-5. VET did not observe hydric soils at the location of DP-5. VET observed hydrophytic vegetation at the location of DP-5. Although hydrophytic vegetation and wetland hydrology were observed at the location of DP-5, the lack of hydric soils led to the determination that DP-5 is located outside the regulated wetland identified by DP-4.

Based on the results of the wetland determinations for DP-4 and DP-5, it is VET's opinion that Wetland #2 is a palustrine emergent wetland and comprises approximately 0.076 acres outside the boundaries of the existing conservancy and karst easements at the Site.

Wetland #3

Wetland #3 is located to the south and downgradient of Wetland #2, in a similar geomorphic position and within the same manmade swale and berm feature as Wetland #2. Wetlands #2 and #3 are both located within an apparent swale parallel to the eastern tree line on the Site. Wetland #3 exhibits the same wetland hydrology, vegetation, and hydric soils characteristics as Wetland #2, but is separated by an area exhibiting slightly higher elevation and predominantly upland plant community. Due to the similarity between delineated Wetland #2 and Wetland #3, VET did not excavate wetland data points at this location. It is VET's opinion that Wetland #3 is a palustrine emergent wetland and comprises approximately 0.027 acres outside the boundaries of the existing conservancy and karst easements at the Site.

Wetland #4

Wetland #4 is located within a slight concave depression in the center of the Site. VET evaluated two wetland data points (DP-6 and DP-7) during field investigations to delineate Wetland #4. DP-6 was excavated within the concave depression in an area dominated by hydrophytic vegetation. VET observed wetland hydrology characteristics including drainage patterns (B10) and geomorphic position (D2) at the location of DP-6. VET observed hydric soils exhibiting the redox depression indicator (F8), and hydrophytic vegetation at the location of DP-6. Based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation, VET determined that DP-7 is located within a regulated wetland.



DP-7 was excavated immediately outside and upgradient of DP-6 to delineate the extent of the regulated wetland. DP-7 is located within a concave depression on a larger plain to the southwest of DP-6. VET did not observe wetland hydrology characteristics, hydric soils, or hydrophytic vegetation at the location of DP-7. VET determined that DP-7 is located outside of the regulated wetland identified by DP-6. Based on the results of the wetland determinations for DP-6 and DP-7, it is VET's opinion that Wetland #4 is a palustrine emergent wetland and comprises approximately 0.398 acres outside the boundaries of the existing conservancy and karst easements at the Site.

Wetland #5

Wetland #5 is located within a manmade concave depression containing a small, conical riprap-lined feature, consistent with a potential sinkhole or armored storm water drainage inlet on the southwestern portion of the Site, to the west of the southern forested draw. VET evaluated two wetland data points (DP-8 and DP-9) during field investigations to delineate Wetland #5. DP-8 was excavated within the concave depression to the west of the southern forested draw in an area dominated by hydrophytic vegetation. VET observed wetland hydrology indicators including drainage patterns (B10) and geomorphic position (D2) at the location of DP-8. VET observed hydric soils exhibiting the depleted matrix indicator, and hydrophytic vegetation at the location of DP-8. Based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation, VET determined that DP-8 is located within a regulated wetland.

DP-9 was excavated immediately outside and upgradient of DP-8 to delineate the extent of the regulated wetland. DP-9 is located within a within a concave depression on a plain to the southeast of DP-8. VET did not observe wetland hydrology characteristics, hydric soils, or hydrophytic vegetation at the location of DP-9. Based on the results of the wetland determinations for DP-8 and DP-9, it is VET's opinion that Wetland #5 is a palustrine emergent wetland and comprises approximately 0.08 acres outside the boundaries of the existing conservancy and karst easements at the Site.

Wetland #6

Wetland #6 is located within the Karst 'A' easement on the western Site boundary. VET delineated Wetland #6 based on topography and vegetative stratum. Due to its small size and distinct difference in the vegetative stratum observed within Wetland #6 compared to its surroundings, and its existence entirely within the boundaries of the Karst 'A' easement, VET did not excavate wetland data points at this location. It is VET's opinion that Wetland #6 is a palustrine emergent wetland and comprises approximately 0.045 acres within the boundaries of the existing conservancy and karst easements at the Site. Proposed development at the Site is not expected to impact Wetland #6.

Non-Wetland Areas

VET evaluated suspected wetland areas where hydrophytic vegetation was observed at three additional locations at the Site. Based on field observations, it is VET's professional opinion that these three areas do not constitute regulated wetlands. The locations of the non-wetland areas are displayed on **Exhibit 4**.

One suspected wetland area is located in the central portion of the Site, to the southwest of Wetland #3. VET determined that this area exhibits recent emergence of hydrophytic vegetation



coincident with rutting from vehicle tire tracks. VET observed low biodiversity within the suspected wetland area. VET did not excavate wetland data points at this location. Based on field observations and review of historical aerial imagery, it is VET's opinion that this area is a transient wetland feature and does not constitute a regulated wetland.

The second suspected wetland area is located in the central portion of the Site, to the west of Wetland #2. VET determined that this area exhibits recent emergence of hydrophytic vegetation coincident with rutting from vehicle tire tracks. VET observed low biodiversity within the suspected wetland area. VET did not excavate wetland data points at this location. Based on field observations and review of historical aerial imagery, it is VET's opinion that this area is a transient wetland feature and does not constitute a regulated wetland.

The third suspected wetland area is located in a manmade concave depression developed for storm water control on the northern half of the Site, to the northwest of Wetland #2 and at the origination point of Stream #4. VET evaluated one wetland data point (DP-3) during field investigations to delineate the suspected wetland area. DP-3 was excavated within a concave depression on a plain adjacent to and upgradient of a vegetated draw on the northern portion of the Site, immediately east of Stream #4 (**Exhibit 4**). VET did not observe wetland hydrology characteristics, hydric soils, or hydrophytic vegetation at the location of DP-3. Based on the results of the wetland determination for DP-3, it is VET's opinion that the suspected wetland evaluated by DP-3 is not a regulated wetland.

5.2 JURISDICTIONAL WATERS DETERMINATION

Based on field investigations conducted on August 22, 2022, VET determined that 25 jurisdictional waterways exist at the Site. VET identified a total of approximately 7,021 linear feet of jurisdictional waters at the Site. Approximately 1,570 linear feet of jurisdictional waters identified at the Site are located outside of existing conservancy and karst easements.

Jurisdictional determinations were limited to within the Site boundaries. Descriptions of the jurisdictional streams are outlined below. The jurisdictional stream locations are displayed on **Exhibit 4**. The on-Site jurisdictional streams appear to be unnamed tributaries to Clear Creek. All of these streams are jurisdictional based on presence of bed and bank, OWHM, and connection to downstream jurisdictional waterways.

Streams #1-#4

Streams #1 through #4 are located in the forested area on the northwestern portion of the Site, and are 664.8, 451.6, 18.6, and 38.7 linear feet, respectively. Approximately 397.4 linear feet of Stream #1 are located outside the Conservancy 'A' easement within the upper portion of a forested draw. Stream #2 originates at a potential sinkhole to the west of the Conservancy 'A' easement. Approximately 262.9 linear feet of Stream #2 are located outside the Conservancy 'A' easement. Stream Segment #3 is approximately 18.6 linear feet and is entirely within the boundaries of the Conservancy 'A' easement. Stream #4 originates at a manmade concave depression developed for storm water control and a rock check dam in the area evaluated for wetland characteristics at DP-3. The entire length of Stream #4 (38.7 linear feet) is located outside the existing conservancy and karst easements at the Site.



Stream #5

Stream #5 is located in the forested area on the northern Site boundary. Stream #5 is approximately 44 linear feet and is located entirely outside the existing conservancy and karst easements at the Site.

Stream #6

Stream #6 is located in the forested area on the northeastern portion of the Site. The surficial expression of the stream originates at a potential karst spring and terminates at the location of the potential sinking stream located within the Karst 'B' easement. Stream #6 may be connected to an underground karst conduit. The surficial expression of Stream #6 is approximately 101.4 linear feet in length and is located entirely within the boundaries of the Karst 'B' easement.

Stream #7

Stream #7 is located in the forested area on the northeastern portion of the Site. The surficial expression of the stream is approximately 39.8 feet in length, originating at a potential karst spring and terminating at a potential sinking stream. Stream #7 may be connected to an underground karst conduit. The surficial expression of Stream #7 is not located within the existing conservancy and karst easements at the Site.

Streams #8-#10

Streams #8 and #10 are located in the forested area on the northeastern portion of the Site, in the vicinity of the Conservancy 'B' easement. Stream #8 originates at the location of the rock check dam developed for storm water control on the eastern side of Wetland #2. Stream #8 exhibits braiding within the Conservancy 'B' easement. Stream #8 is approximately 1,348.2 linear feet. Approximately 284.5 linear feet of Stream #8 are located outside the Conservancy 'B' easement. Stream #9 is approximately 86.7 feet in length and is entirely within the boundaries of the Conservancy 'B' easement at the Site. Stream #10 is approximately 267.3 linear feet and is located entirely within the boundaries of the Conservancy 'B' easement.

Streams #11-#19

Streams #11 through #19 are located in the forested area on the southeastern portion of the Site, in the vicinity of the Conservancy 'C' easement. Stream #11 is approximately 855.8 linear feet and is entirely within the Conservancy 'C' easement. Stream #12 is approximately 229.4 linear feet. Approximately 62.2 linear feet of Stream #12 are located outside the Conservancy 'C' easement. Streams #13, #14, and #15 are approximately 25.3, 103.7, and 45.3 linear feet, respectively, and are located entirely within the Conservancy 'C' easement.

Stream #16 is approximately 35.7 linear feet. Approximately 5.5 feet of Stream #16 are located outside the Conservancy 'C' easement. Stream #17 is approximately 529.9 linear feet. Approximately 223.6 linear feet of Stream #17 are located outside the Conservancy 'C' easement. Stream #17 exhibits braiding within the Conservancy 'C' easement. Stream #18 is approximately 256.6 linear feet. Approximately 87.3 linear feet of Stream #18 are located outside the Conservancy 'C' easement.



Stream #19 is approximately 51.2 linear feet and is located entirely outside the boundaries of Conservancy 'C' easement.

Streams #20-#24

Streams #20 through #24 are located in the forested area on the southeastern portion of the Site, in the vicinity of the Conservancy 'D' easement. Streams #20, #21, and #22 originate at the location of a manmade storm water detention basin, characterized by rock check dams developed for storm water control in the upper portion of a forested draw. Stream #20 is approximately 1,194.5 linear feet and is located entirely within the Conservancy 'D' easement. Stream #21 is approximately 11.1 linear feet and is located entirely within the Conservancy 'D' easement. Stream #22 is approximately 121.3 linear feet. Approximately 9.1 linear feet of Stream #22 is located outside the Conservancy 'D' easement. Stream #23 is approximately 141.1 linear feet and is located entirely within the Conservancy 'D' easement. Stream #24 is approximately 295.9 linear feet and is located entirely within the Conservancy 'D' easement.

Stream #25

Stream #25 is located adjacent to Wetland #5 on the southwestern portion of the Site. Stream #25 originates near a manmade concave depression lined with riprap, consistent with a potential sinkhole on the northeastern boundary of Wetland #5 and extends approximately 62.8 linear feet to the northeast. Stream #25 is located entirely outside the boundaries of existing conservancy and karst easements at the Site. VET determined that the area between the northeastern terminus of Stream #25 and Streams #20 and #23 is non-jurisdictional.

5.3 KARST FEATURES

Based on desktop reconnaissance, four karst features were identified along the Site's western boundary. The Site is in the Mitchell Plateau physiographic region of Indiana (IndianaMap, 2022). The presence of karst topography features (sinkholes, swallow holes, sinking streams, etc.) is documented within the Mitchell Plateau physiographic region (Gray, 2000, p.8). The Site is reportedly in an area where drainage is mostly through solution channels (Hartke and Gray, 1989, p.4).

During field investigations between August 22, 2022 and August 24, 2022, VET identified six additional potential karst features that were not identified during desktop reconnaissance. One potential karst spring and one sinking stream were identified at Stream #6 within the boundaries of the Karst 'B' easement on the northeastern portion of the Site. One potential karst spring and one potential sinking stream were identified to the north of the Karst 'C' easement at Stream #7, outside the existing conservancy and karst easements at the Site. One potential sinkhole was identified within Wetland #5 on the southwestern portion of the Site, outside the existing conservancy and karst easements at the Site. One potential sinkhole was identified on the northeastern portion of the Site, at the origin point of Stream #2. The mapped and field-observed karst features are displayed on **Exhibit 4**.

Monroe County Ordinance, Chapter 829: Karst and Sinkhole Development Standards contains detailed requirements regarding sinkhole evaluations and sinkhole conservation areas (SCAs). Five karst easements are already mapped and recorded for the Site (**Exhibit 4**). Three karst features



identified by IndianaMap and four potential karst features identified during field investigations are located outside the existing conservancy and karst easements at the Site. As such, VET recommends establishing SCAs pursuant to Monroe County Ordinance 829-3(C) for the remaining sinkholes and performing a formal sinkhole evaluation in accordance with Monroe County Ordinance 829-4(A). Additionally, VET recommends having an environmental professional on-call for consultation during grading and construction in the event that additional karst features are identified.

6.0 RESULTS AND CONCLUSIONS

VET performed a wetlands and jurisdictional waters delineation at the Site to delineate the potential wetlands and jurisdictional waters identified during the 2022 Phase I ESA and Site Reconnaissance. Based on field investigations, VET identified six regulated wetlands comprising 0.903 acres and 25 jurisdictional streams comprising 7,021 linear feet at the Site. Approximately 0.858 acres of the regulated wetlands are located outside the boundaries of existing conservancy and karst easements at the Site. Approximately 1,569 linear feet of jurisdictional waters are located outside the boundaries of existing conservancy and karst easements at the Site.


Monroe County plans to develop the Site for municipal purposes, to include building, parking, and driveway developments. Development plans are not expected to impact the streams and wetlands delineated within the existing conservancy and karst easements at the Site. Future impacts to the wetlands and jurisdictional waters located outside of the existing conservancy and karst easements will require a CWA Section 404/401 permit.

If required, mitigation ratios for USACE regulated wetlands are typically 4:1 for forested wetlands, 3:1 for scrub/shrub wetlands, and 2:1 for emergent wetlands. Streams are generally mitigated via restoration on a foot for foot basis. Impacts to regulated features on the Site will require mitigation if the following conditions are met:

- 1) *Impacts resulting from the loss of waterways by relocation, encapsulation, or channelization of greater than 300 linear feet of ephemeral, intermittent, or perennial stream shall require mitigation; and,*
- 2) *The loss of greater than 0.10 acre of special aquatic sites (including wetlands) and/or loss of WOTUS causing more than minimal effects shall require mitigation (USACE, 2018).*

If you have any questions or concerns regarding the information contained in this report, please contact VET at (812) 822-0400.

Respectfully submitted,



Sara R. Hamidovic, MS, PE, CPESC
Principal Engineer, President/CEO



7.0 REFERENCES

- Chadde, Steve W., 2011, Wetland Plants of Indiana, A Complete Guide to the Wetland and Aquatic Plants of the Hoosier State: Lexington, KY, 317, 456, 559p.
- Cowardin, L. M., V. Carter, and F. C. Golet. 1979. Classification of Wetlands and Deep Water Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service. Washington D. C. FWS/OBS-79/31.
- Gray, H. Henry. (2000). *Physiographic Divisions of Indiana*, Bloomington, IN: Indiana Geological Survey
- Hartke, E.J. and Gray, H.H. (1989). *Geology for Environmental Planning in Monroe County, Indiana*, Bloomington, IN: Indiana Department of Natural Resources, Geological Survey.
- U.S. Army Corps of Engineers (USACE), 1987, Environmental Laboratory. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, Mississippi.
- U.S. Army Corps of Engineers, 2005. Ordinary High Water Mark Identification, Regulatory Guidance Letter No. 05-05. December 7, 2005. U.S. Army Director of Civil Works.
- U.S. Army Corps of Engineers, 2010, Environmental Laboratory, Interim Regional Supplement of the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (ERDC/EL TR-10-9): Vicksburg, MS, U.S. Army Corps of Engineers (USACE).
- U.S. Army Corps of Engineers, 2010, Environmental Laboratory. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.
- U.S. Army Corps of Engineers, 2018. Indiana Regional General Permit No. 001. Effective December 15, 2019 – December 15, 2024. U.S. Army Corps of Engineers, Louisville, Detroit, and Chicago Districts.
- U.S. Department of the Interior, Fish and Wildlife Service, 1983, National Wetland Inventory Map. Available at: <http://inmap.indiana.edu/viewer.htm>.
- Resource Management Group, Inc., 1988, National List of Plant Species that Occur in Wetlands: North Central (Region 3). Available at: <http://www.nwi.fws.gov/bha/list88.htm>.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <http://websoilsurvey.nrcs.usda.gov/>

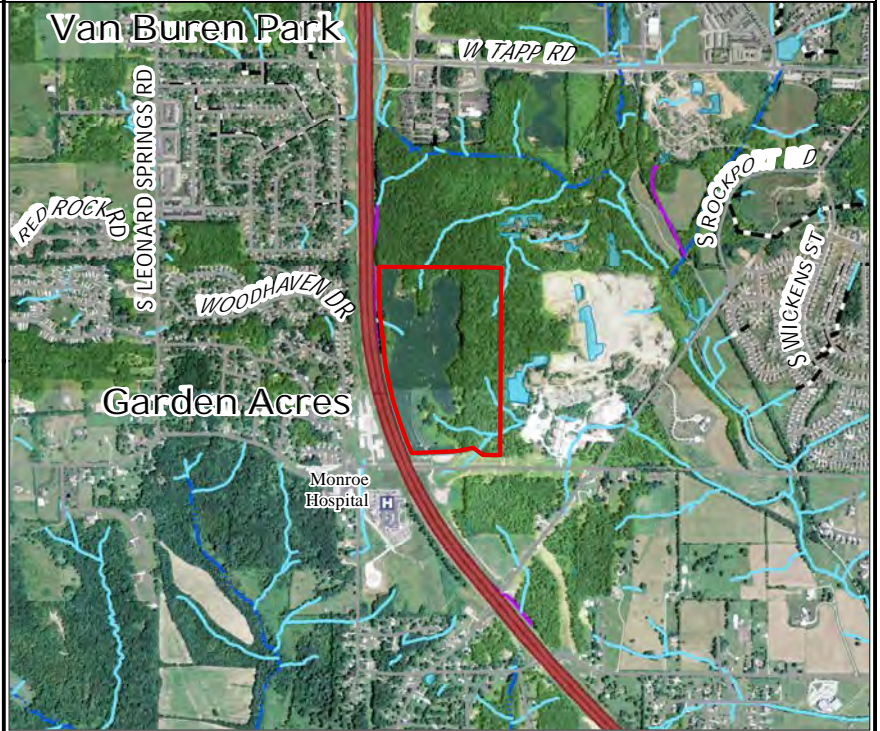


EXHIBITS

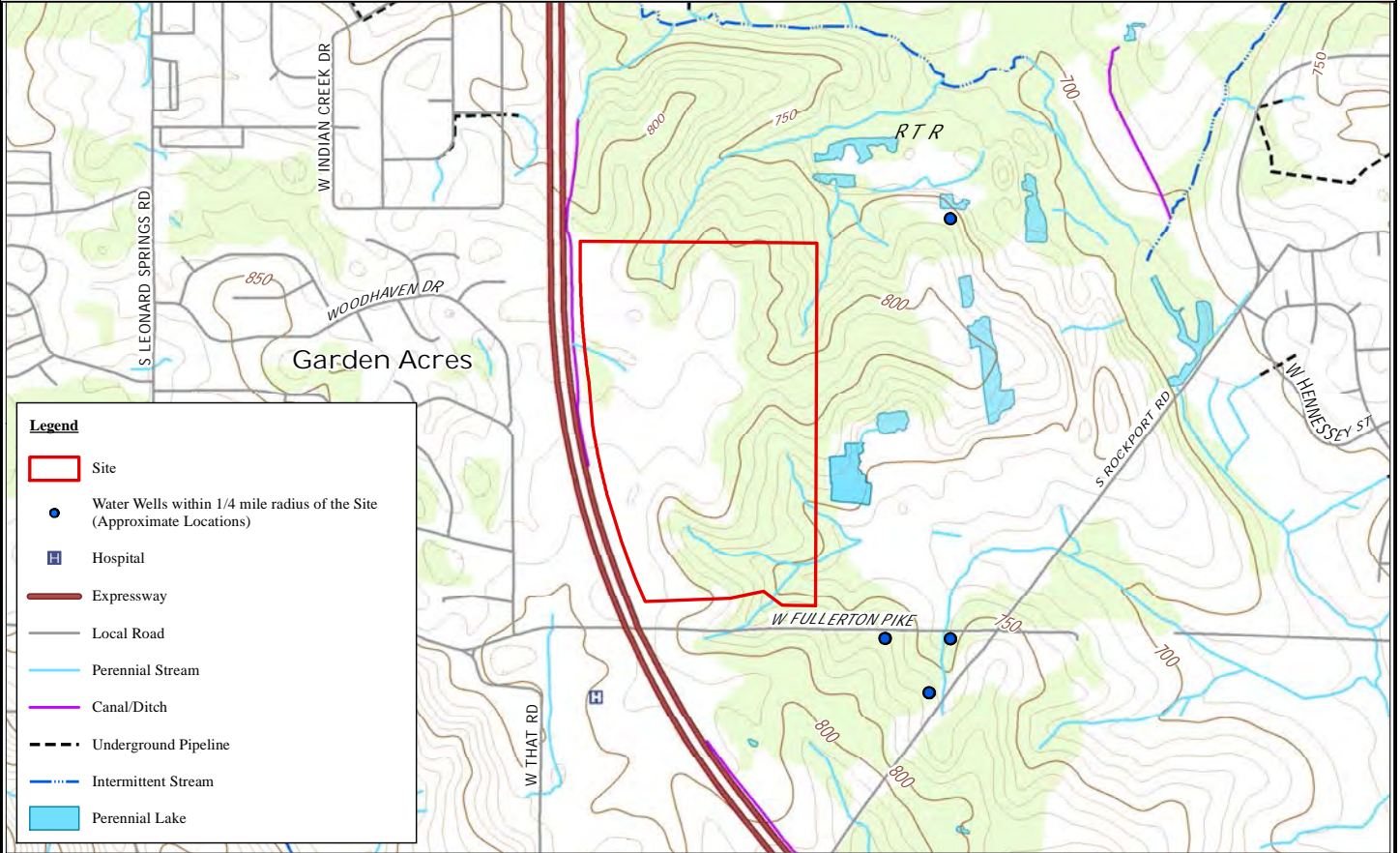
State Map



Vicinity Map



Site Map



Legend

- Site
- Water Wells within 1/4 mile radius of the Site (Approximate Locations)
- Hospital
- Expressway
- Local Road
- Perennial Stream
- Canal/Ditch
- Underground Pipeline
- Intermittent Stream
- Perennial Lake



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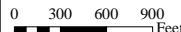
Title: Area Map

Location: South of State Road 37,
North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

Data Sources: Indiana Census TIGER 2000 and IGS Counties, 2014 NAIP Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



1" = 1,250'



Project: Monroe County - Fullerton Pike

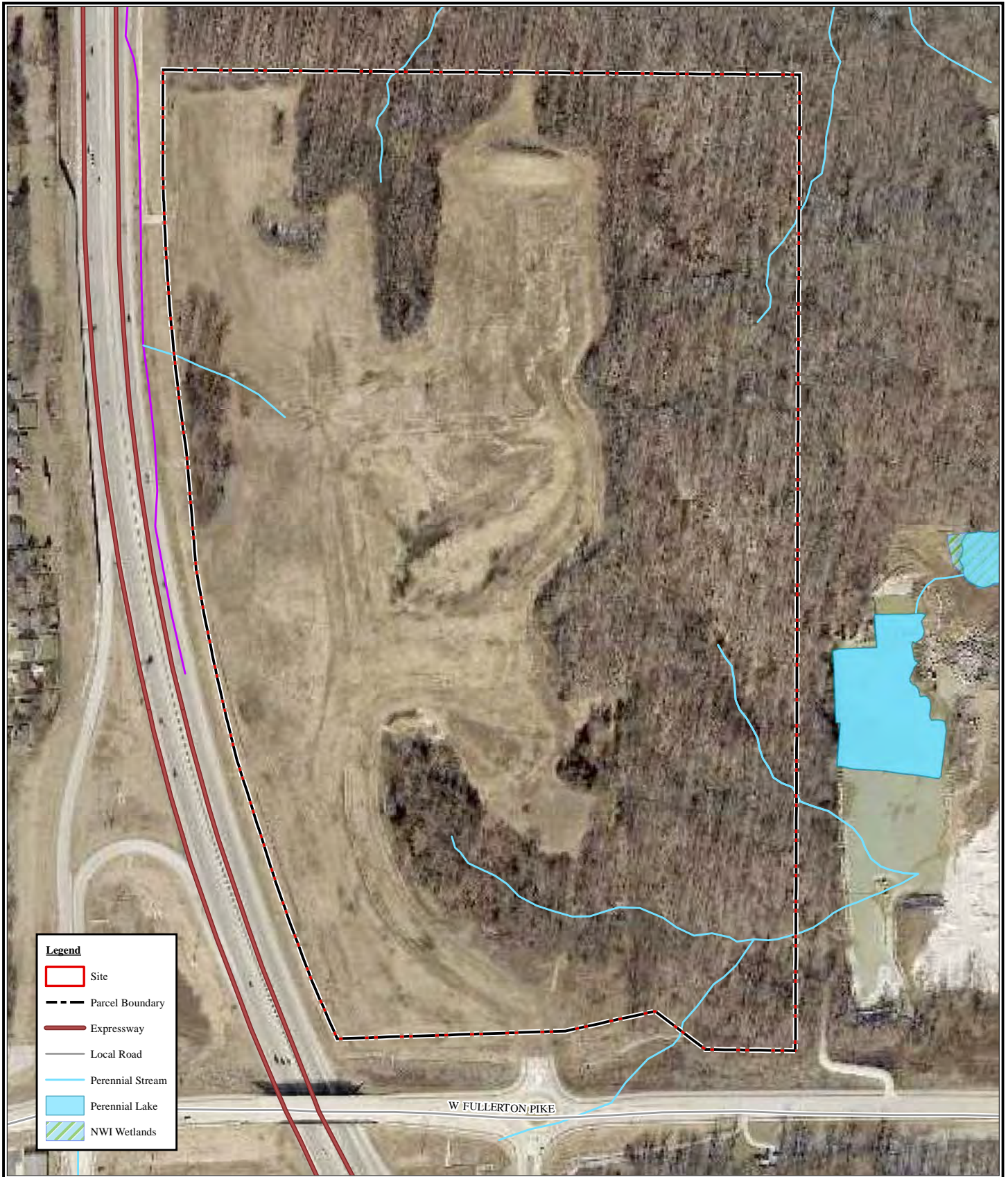
VET Project No.: 22-52

NPDES Permit No.: N/A

Date: 8/3/2022

Exhibit: 1 **Drawn By:** EMT

Notes: Water wells shown: 4 in 1/4 mile radius of Site



Legend

- Site
- Parcel Boundary
- Expressway
- Local Road
- Perennial Stream
- Perennial Lake
- NWI Wetlands



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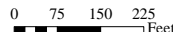
Title:
 Parcel Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

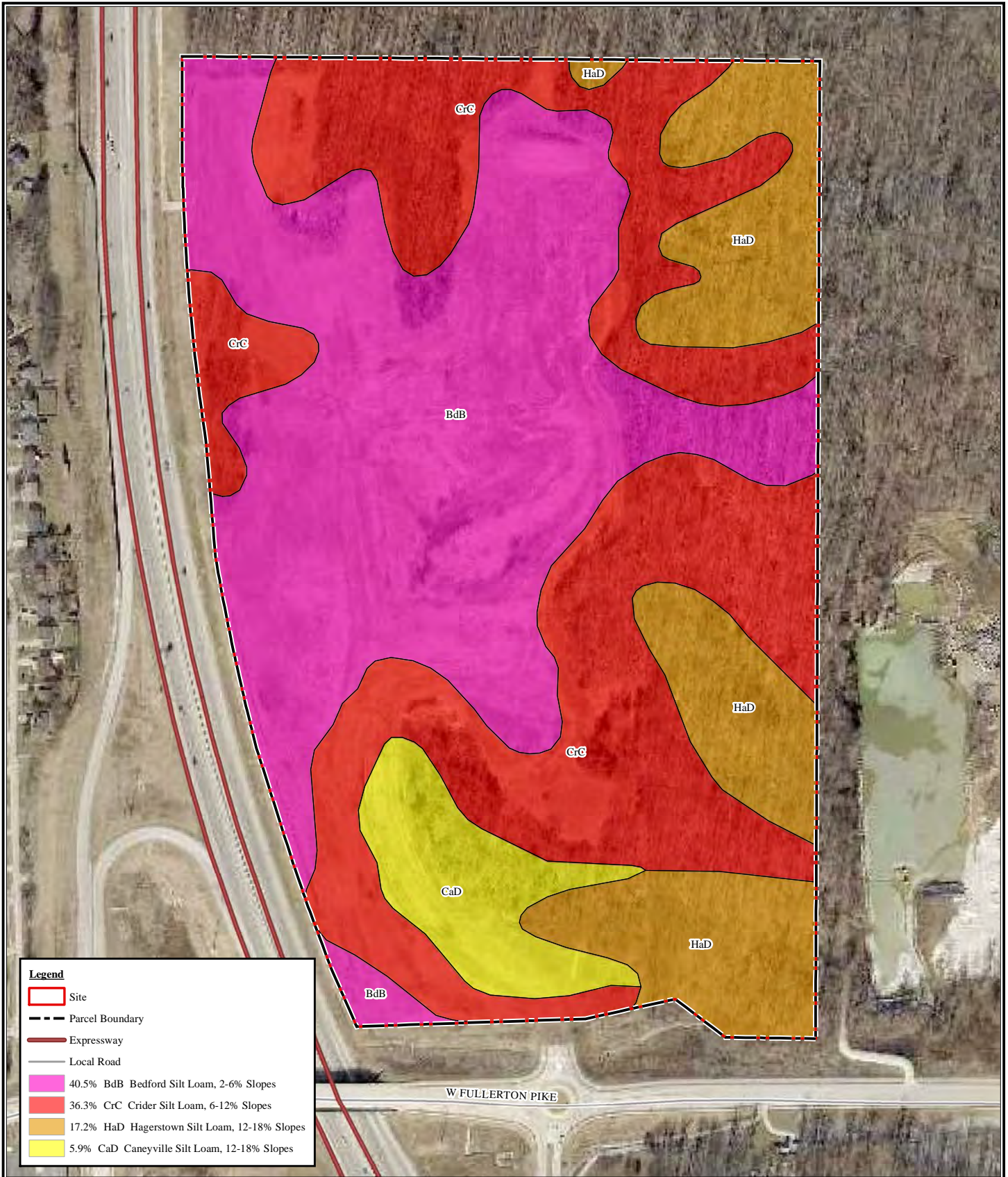
Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



1" = 333'



Project: Monroe County - Fullerton Pike	
VET Project No.:	22-52
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 2	Drawn By: EMT
Notes: Perennial Stream Reported On Site	



Legend

- Site
- Parcel Boundary
- Expressway
- Local Road
- 40.5% BdB Bedford Silt Loam, 2-6% Slopes
- 36.3% CrC Crider Silt Loam, 6-12% Slopes
- 17.2% HaD Hagerstown Silt Loam, 12-18% Slopes
- 5.9% CaD Caneyville Silt Loam, 12-18% Slopes



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1" = 333'

0 80 160 240 Feet

Project: Monroe County - Fullerton Pike

VET Project No.: 22-52

NPDES Permit No.: N/A

Date: 8/3/2022

Exhibit: 3 **Drawn By:** EMT

Notes: Hydric Soils Not Reported On Site

Title: Soils Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2016 USDA WSS Soils, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Legend

- Site
- Parcel Boundary
- Mapped Sinkhole
- Potential Sinkhole
- Potential Sinking Stream
- Potential Spring
- Rock Check Dam
- Wetland Data Points
- 1' Topographic Contour (2021)
- Jurisdictional Streams
- Berm
- Conservancy Easement
- Karst Easement
- Delineated Wetlands
- Non-Regulated Wetland
- Perennial Lake

1" = 87'

0 20 40 80 120 160 Feet

VET Environmental Engineering, LLC		South of State Road 17, North of West Palmetto Pike Bloomington, Indiana 47404	
Title:	Wetlands and Waters	Location:	South of State Road 17, North of West Palmetto Pike Bloomington, Indiana 47404
Project:	VET Project No:	SPDES Permit No:	22-52
Date:	9/13/2022	Drawn By:	DMT
Scale:	4	All water bodies off-site are not mapped by VET Environmental Engineering, LLC. The location of these features are sourced from NHD data.	
Data Sources: 2022 Esri Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'			

ATTACHMENT 1

South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 1: Confluence of Streams #8 and #10;
View to the southwest



Photo 2: Stream #25 at the northeastern
boundary of Wetland #5; View to the
southeast



Photo 3: Hydrophytic vegetation in Wetland
#1 on western Subject Property boundary;
View to the southeast



Photo 4: Stream #6 within Karst 'B'
easement; View to the east



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 5: Wetland #3; View to the north



Photo 6: Rock check dam and Wetland #1; View to the northwest



Photo 7: Concave depression and Wetland #6 ; View to the southwest



Photo 8: Rutting from vehicle tires; View to the northeast



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 9: DP-1 excavation pit; View down



Photo 10: DP-1 excavation pit; View to the northwest



Photo 11: DP-2 excavation pit; View down



Photo 12: DP-2 excavation pit; View to the northeast



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 13: DP-3 excavation pit; View down



Photo 14: DP-3 excavation pit; View to the southeast



Photo 15: DP-4 excavation pit; View down



Photo 16: DP-4 excavation pit; View to the south



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 17: DP-5 excavation pit; View down



Photo 18: DP-5 excavation pit; View to the south



Photo 19: DP-6 excavation pit; View down



Photo 20: DP-6 excavation pit; View to the southwest



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 21: DP-7 excavation pit; View down



Photo 22: DP-7 excavation pit; View to the southwest



Photo 23: DP-8 excavation pit; View down



Photo 24: DP-8 excavation pit; View to the southeast



South State Road 37 and West Fullerton Pike Wetlands and Jurisdictional Waters Delineation Photographs

Photo 25: DP-9 excavation pit; View down



Photo 26: DP-9 excavation pit; View to the southwest



ATTACHMENT 2

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/23/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-1
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0.915% Lat: 39°7'37.8228" Long: -86°34'18.0948" Datum: North American 1983
 Soil Map Unit Name: CrC, Crider Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-1 and DP-2.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix nigra (Black willow)</u>	20	Y	OBL	
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Carex vulpinoidea (Fox sedge)</u>	40	Y	OBL	
2. <u>Bidens frondosa (Devil's beggartick)</u>	20	Y	FACW	
3. <u>Persicaria pensylvanica (Pennsylvania smartweed)</u>	15	N	FACW	
4. <u>Vernonia gigantea (Giant ironweed)</u>	2	N	FAC	
5. <u>Scirpus cyperinus (Woolgrass)</u>	2	N	OBL	
6. <u>Juncus effusus (Soft rush)</u>	2	N	OBL	
7. <u>Ambrosia artemisiifolia (Annual ragweed)</u>	2	N	FAC	
8. _____				
9. _____				
10. _____				
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 64 x 1 = 64
 FACW species 35 x 2 = 70
 FAC species 4 x 3 = 12
 FACU species 0 x 4 = 0
 UPL species 0 x 5 = 0
 Column Totals: 103 (A) 146 (B)
 Prevalence Index = B/A = 1.42

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.)	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
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SOIL

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 7/2	80	7.5YR 8/5	15	C	M	SiC	Prominent
			7.5YR 2.5/1	5	C	PL	SiC	Prominent
4-8	10YR 7/2	90	7.5YR 5/8	10	C	M	SiC	Prominent
8-16	10YR 4/6	70	10YR 6/2	25	D	M	SiC	Prominent
			5YR 5/8	5	C	PL	SiC	Prominent

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/23/22
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-2
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 3.3656% Lat: 39°7'38.0748" Long: -86°34'17.6268" Datum: North American 1983
 Soil Map Unit Name: CrC, Crider Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-1 and DP-2.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>4</u> x 3 = <u>12</u> FACU species <u>94</u> x 4 = <u>376</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>392</u> (B) Prevalence Index = B/A = <u>3.92</u>
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 5/4	100					SiC	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)

- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No **X**

Remarks:

Excavation past 12" depth not possible due to presence of dry hardpan.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Gauge or Well Data (D9)
	<input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No **X**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/23/22
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-3
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 7.5397% Lat: 39°7'41.7828" Long: -86°34'11.6760" Datum: North American 1983
 Soil Map Unit Name: BdB, Bedford Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-3.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Liriodendron tulipifera (Tulip tree)</u>	10	Y	FACU	
2. <u>Plantanus occidentalis (American sycamore)</u>	5	Y	FACW	
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Solidago canadensis (Canada goldenrod)</u>	50	Y	FACU	
2. <u>Ambrosia artemisiifolia (Annual ragweed)</u>	30	Y	FAC	
3. <u>Sorghum halepense (Johnson grass)</u>	5	N	FACU	
4. <u>Rubus falgellaris (Northern dewberry)</u>	5	N	FACU	
5. <u>Kummerowia striata (Japanese clover)</u>	5	N	FACU	
6. <u>Vernonia gigantea (Giant ironweed)</u>	2	N	FAC	
7. <u>Daucus carota (Wild carrot)</u>	2	N	UPL	
8. <u>Cyperus strigosus (Strawcolored nutsedge)</u>	1	N	FACW	
9. _____				
10. _____				
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 0 x 1 = 0
 FACW species 6 x 2 = 12
 FAC species 32 x 3 = 96
 FACU species 75 x 4 = 300
 UPL species 2 x 5 = 10
 Column Totals: 115 (A) 418 (B)
 Prevalence Index = B/A = 3.63

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 5/4	100					SiC	
4-12	10YR 4/4	100					SiC	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)			<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____						Hydric Soil Present? Yes _____ No <u> X </u>		
Remarks: _____ _____ _____								

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u> X </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____		
Remarks: _____ _____		

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/23/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-4
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0.3389% Lat: 39°7'38.6724" Long: -86°34'8.3568" Datum: North American 1983
 Soil Map Unit Name: BdB, Bedford Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-4 and DP-5.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>NONE</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW species <u>60</u></td> <td>x 2 = <u>120</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>160</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.60</u>	Total % Cover of:	Multiply by:	OBL species <u>40</u>	x 1 = <u>40</u>	FACW species <u>60</u>	x 2 = <u>120</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>160</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>40</u>	x 1 = <u>40</u>																	
FACW species <u>60</u>	x 2 = <u>120</u>																	
FAC species <u>0</u>	x 3 = <u>0</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>100</u> (A)	<u>160</u> (B)																	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)														
1. <u>NONE</u>																		
2. _____																		
3. _____																		
4. _____																		
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)																		
1. <u>Bidens frondosa (Devil's beggartick)</u>	60	Y	FACW															
2. <u>Eleocharis palustris (Common spike-rush)</u>	30	Y	OBL															
3. <u>Typha latifolia (Broadleaf cattail)</u>	10	N	OBL															
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
_____ = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)																		
1. <u>NONE</u>																		
2. _____																		
_____ = Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: DP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 6/2	85	5YR 5/8	15	C	PL	SiC	
4-10	10YR 5/1	70	5YR 5/8	25	C	M	SiC	Prominent
			10YR 2/1	5	C	M	SiC	Distinct
10-17	10YR 5/1	60	5YR 5/8	30	C	M	SiC	Prominent
			10YR 2/1	10	C	M	SiC	Distinct
17-20	2.5YR 4/1	80	10YR 5/8	20	C	M	SiC	Prominent

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/23/22
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-5
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 0.8259% Lat: 39°7'38.9244" Long: -86°34'8.4612" Datum: North American 1983
 Soil Map Unit Name: BdB, Bedford Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-4 and DP-5.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia (Annual ragweed)</u>	50	Y	FAC	
2. <u>Kummerowia striata (Japanese clover)</u>	15	N	FACU	
3. <u>Juncus tenuis (Poverty rush)</u>	10	N	FAC	
4. <u>Cyperus strigosus (Strawcolored nutsedge)</u>	5	N	FACW	
5. <u>Persicaria pensylvanica (Pennsylvania smartweed)</u>	5	N	FACW	
6. <u>Bidens frondosa (Devil's beggarticks)</u>	5	N	FACW	
7. _____				
8. _____				
9. _____				
10. _____				
90 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 0 x 1 = 0
 FACW species 15 x 2 = 30
 FAC species 60 x 3 = 180
 FACU species 15 x 4 = 60
 UPL species 0 x 5 = 0
 Column Totals: 90 (A) 270 (B)
 Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-15	10YR 5/6	100					Sic	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)

- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/24/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-6
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0.120461% Lat: 39°7'33.6283" Long: -86°34'13.3428" Datum: North American 1983
 Soil Map Unit Name: BdB, Bedford Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Soil is significantly disturbed due to topsoil removal associated with I-69 project.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia (Annual ragweed)</u>	30	Y	FAC	
2. <u>Juncus effusus (Soft rush)</u>	25	Y	OBL	
3. <u>Symphotrichum pilosum (Frost aster)</u>	23	Y	FACU	
4. <u>Cyperus strigosus (Strawcolored nutsedge)</u>	5	N	FACW	
5. <u>Carex squarrosa (Squarrose sedge)</u>	5	N	OBL	
6. <u>Persicaria pensylvanica (Pennsylvania smartweed)</u>	2	N	FACW	
7. _____				
8. _____				
9. _____				
10. _____				
90 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 30 x 1 = 30
 FACW species 7 x 2 = 14
 FAC species 30 x 3 = 90
 FACU species 23 x 4 = 92
 UPL species 0 x 5 = 0
 Column Totals: 90 (A) 226 (B)
 Prevalence Index = B/A = 2.51

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.)	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
---	--

SOIL

Sampling Point: DP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 6/4	80	5YR 4/6	15	C	PL	SiC	Prominent
			5YR 2.5/1	5	C	PL	SiC	Prominent
4-13	10YR 6/4	80	10YR 2/1	10	C	PL	SiC	Prominent
			5YR 4/6	10	C	PL	SiC	Prominent

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input checked="" type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/24/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-7
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 0.120461% Lat: 39°7'33.549" Long: -86°34'13.6308" Datum: North American 1983
 Soil Map Unit Name: BdB, Bedford Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil is significantly disturbed due to topsoil removal associated with I-69 project.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Dominance Test worksheet:				
Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)				
Total Number of Dominant Species Across All Strata: <u>2</u> (B)				
Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)				
Prevalence Index worksheet:				
Total % Cover of:		Multiply by:		
OBL species	<u>0</u>	x 1 =	<u>0</u>	
FACW species	<u>0</u>	x 2 =	<u>0</u>	
FAC species	<u>15</u>	x 3 =	<u>45</u>	
FACU species	<u>85</u>	x 4 =	<u>340</u>	
UPL species	<u>0</u>	x 5 =	<u>0</u>	
Column Totals:	<u>100</u> (A)		<u>385</u> (B)	
Prevalence Index = B/A = <u>3.85</u>				
Hydrophytic Vegetation Indicators:				
<input type="checkbox"/> Dominance Test is >50%				
<input type="checkbox"/> Prevalence Index is ≤3.0 ¹				
<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: DP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 4/4	98	5YR 3/4	2	C	M	SiC	Distinct
4-14	10YR 6/4	95	10YR 6/8	5	C	M	SiC	Prominent

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	--	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> X </u>
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u> X </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/24/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-8
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 6.105135% Lat: 39°7'23.8296" Long: -86°34'12.5688" Datum: North American 1983
 Soil Map Unit Name: CaD, Caneyville Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-8 and DP-9.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Liriodendron tulipifera (Tulip tree)</u>	5	Y	FACU	
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Bidens frondosa (Devil's beggartick)</u>	35	Y	FACW	
2. <u>Echinochloa crusgalli (Barnyard grass)</u>	30	Y	FACW	
3. <u>Scirpus cyperinus (Woolgrass)</u>	20	Y	OBL	
4. <u>Cyperus strigosus (Strawcolored nutsedge)</u>	10	N	FACW	
5. <u>Persicaria pensylvanica (Pennsylvania smartweed)</u>	5	N	FACW	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 20 x 1 = 20
 FACW species 80 x 2 = 160
 FAC species 0 x 3 = 0
 FACU species 5 x 4 = 20
 UPL species 0 x 5 = 0
 Column Totals: 105 (A) 200 (B)
 Prevalence Index = B/A = 1.90

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.)	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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SOIL

Sampling Point: DP-8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	85	5YR 4/8	15	C	PL	SiC	Prominent
8-14	10YR 5/4	85	5YR 5/8	10	C	M	SiC	Prominent
			5YR 2.5/1	5	C	PL	SiC	Prominent
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils³:					
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Coast Prairie Redox (A16)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Iron-Manganese Masses (F12)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Mucky Mineral (F1)					
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)					
<input type="checkbox"/> 2 cm Muck (A10)			<input checked="" type="checkbox"/> Depleted Matrix (F3)					
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Redox Dark Surface (F6)					
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Redox Depressions (F8)					
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)						³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
Field Observations:		
Surface Water Present? Yes _____ No _____	Depth (inches): _____	
Water Table Present? Yes _____ No _____	Depth (inches): _____	
Saturation Present? Yes _____ No _____	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Monroe County - Fullerton Pike City/County: Bloomington/Monroe Sampling Date: 8/24/2022
 Applicant/Owner: Monroe County Board of Commissioners State: IN Sampling Point: DP-9
 Investigator(s): Sara Hamidovic and Evan Owings Section, Township, Range: S18 T8N R1W
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 6.105135% Lat: 39°7'23.7792" Long: -86°34'12.3096" Datum: North American 1983
 Soil Map Unit Name: CaD, Caneyville Silt Loam NWI or WWI classification: Not applicable

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil and hydrology are significantly disturbed due to topsoil removal associated with I-69 project and construction of storm water control measures in immediate area of DP-8 and DP-9.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>NONE</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>2</u> x 2 = <u>4</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>38</u> x 4 = <u>152</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>336</u> (B) Prevalence Index = B/A = <u>3.36</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 feet</u>)				
1. <u>NONE</u>				
2. _____				
3. _____				
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca rubra (Red fescue)</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Symphotrichum pilosum (Frost aster)</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Solanum carolinense (Carolina horsenettle)</u>	<u>8</u>	<u>N</u>	<u>FACU</u>	
4. <u>Bidens frondosa (Devil's beggartick)</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
_____ = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. <u>NONE</u>				
2. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: DP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 6/3	90	7.5YR 5/6	10	C	PL	SiC	Prominent
8-10	2.5YR 5/4	75	5YR 4/6	10	C	PL	SiC	Distinct
			2.5YR 6/8	15	C	PL	SiC	Prominent
			2.5YR 2.5/1	10	C	PL	SiC	Distinct
10-13	2.5YR 5/4	90	2.5YR 6/8	10	C	PL	SiC	Prominent
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils³:					
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)			<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____						Hydric Soil Present? Yes _____ No <u> X </u>		
Remarks: _____ _____ _____								

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
Field Observations:		
Surface Water Present? Yes _____ No _____	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u> X </u>
Water Table Present? Yes _____ No _____	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No _____	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____		
Remarks: _____ _____ _____		



ENVIRONMENTAL ENGINEERING, LLC

Daily Work Report

Client: Monroe County Date: 8-22-2022
Location: Fullerton Pike Project No.: 22-48
Work Description: Waterway Delineation
VET Personnel: Evan Gwings, Sara Hamidovic
Contractors: N/A
Safety Precautions: See HASP
Weather Conditions: 83° Sunny
Arrived at Site: 0915 Left Site: 1505

Sampling & Testing Locations & Methods: Proceeded to all mapped topo-graphic lows; walked stream beds to identify any brand tributaries; mapped all waterway blnds to improve map accuracy; identified points in each waterway with presence of bed/bank & OTWH to determine limits of jurisdiction of USACE.

Visitors (title, company, purpose): N/A

Principal Work Performed: Define jurisdictional waterways on Subject Property. Plat jurisdictional waterways for mapping.

Dropped off & picked up Truck #12 at Belle Tire for tire replacement.

Incident Report or Significant Observations: Identified locations with both jurisdictional waters component and karst component; presence of both springs and sinking streams.

Hours on Site: 5 hours 50 minutes

On-Site Supervisor: Sara R. Hamidovic PE

Trucks

21 Starting Mileage 105286 Ending Mileage 105304 Total 18

_____ Starting Mileage _____ Ending Mileage _____ Total _____

_____ Starting Mileage _____ Ending Mileage _____ Total _____

_____ Starting Mileage _____ Ending Mileage _____ Total _____

_____ Starting Mileage _____ Ending Mileage _____ Total _____

Durable Expenses

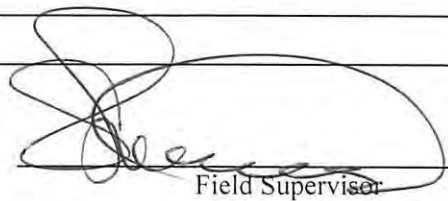
- | | | | | |
|---|--|--|---|---|
| <input checked="" type="checkbox"/> GPS | <input type="checkbox"/> Mold Air Pump | <input type="checkbox"/> Decon Kit (\$5/day) | <input type="checkbox"/> MP-10 Controller | <input type="checkbox"/> 12V Deep Cycle + Charge |
| <input type="checkbox"/> PID | <input type="checkbox"/> Asbestos Air Pump | <input type="checkbox"/> Munsell | <input type="checkbox"/> MP-25T Flowcell | <input checked="" type="checkbox"/> <u>Wetlands Box</u> |
| <input type="checkbox"/> FID | <input type="checkbox"/> CRM #1 | <input type="checkbox"/> Tablet | <input type="checkbox"/> MP-30 Drawdown Meter | <input type="checkbox"/> _____ |
| <input type="checkbox"/> XRF | <input type="checkbox"/> CRM #2 | <input type="checkbox"/> Field Table | <input type="checkbox"/> Geotech Geopump | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Ludlum | <input type="checkbox"/> E-Perm (#____) | <input type="checkbox"/> 3020 Compressor | | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Mag Stick | <input type="checkbox"/> Hand Tools | | | <input type="checkbox"/> _____ |

Durable Expenses Notes

Expendable Expenses

- | | | |
|---|--|--|
| <input type="checkbox"/> Gloves (pairs) _____ | <input type="checkbox"/> Air-O-Cell Cassettes _____ | <input type="checkbox"/> Bailer _____ |
| <input type="checkbox"/> Ziplocks _____ | <input type="checkbox"/> Asbestos Cassettes _____ | <input type="checkbox"/> SGss Sample Train _____ |
| <input type="checkbox"/> Paper Towels (rolls) _____ | <input type="checkbox"/> Booties _____ | <input checked="" type="checkbox"/> <u>Daily Field Expense 1</u> |
| <input type="checkbox"/> Ice (bags) _____ | <input type="checkbox"/> Baby Wipes _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Asbestos Baggies _____ | <input type="checkbox"/> Tape Lift _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Sticky Notes _____ | <input type="checkbox"/> 0.45 Micron Inline Filter _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Contractor Bags _____ | | <input type="checkbox"/> _____ |

Expendable Expenses Notes



 Field Supervisor



ENVIRONMENTAL ENGINEERING, LLC

Daily Work Report

Client: Monroe County Date: 8-23-2022
Location: Fullerton Pike Project No.: 22-48
Work Description: Wetland delineation
Contractors: N/A
Weather Conditions: 80° Sunny
Arrived at Site: 0840 Left Site: 1440

Sampling & Testing Locations & Methods: Excavated test pits at five locations within three suspected wetlands; DP-1 & DP-2 in/out @ wetland 1; DP-3 did not meet wetland criteria; DP-4 & DP-5 @ wetland 2 in/out; scouted northern half of site for add'l suspect wetlands; none identified; will begin @ linear wetland south of wetland 2.

Visitors (title, company, purpose): NONE

Principal Work Performed: Wetland delineation of approximate northern half of the site; delineated two regulated wetlands; third area evaluated did not meet criteria; no karst features identified outside established easements; evaluated small isolated feature coincident with rutting from vehicle tires; no test pit excavated due to limited size and localized nature of feature.

Incident Report or Significant Observations: NONE

Hours on Site: 6 hours

On-Site Supervisor: Sara R. Hamidovic, PE

Trucks

12 Starting Mileage 12859 Ending Mileage 12875 Total 16
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____

Durable Expenses

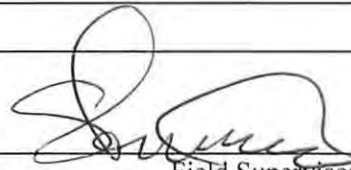
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| <input type="checkbox"/> PID | <input type="checkbox"/> Asbestos Air Pump | <input checked="" type="checkbox"/> Munsell | <input type="checkbox"/> MP-25T Flowcell | <input checked="" type="checkbox"/> wetlands Box |
| <input type="checkbox"/> FID | <input type="checkbox"/> CRM #1 | <input type="checkbox"/> Tablet | <input type="checkbox"/> MP-30 | <input checked="" type="checkbox"/> Spade 2x |
| <input type="checkbox"/> XRF | <input type="checkbox"/> CRM #2 | <input type="checkbox"/> Field Table | <input type="checkbox"/> Drawdown Meter | <input checked="" type="checkbox"/> Soil Probe |
| <input type="checkbox"/> Ludlum | <input type="checkbox"/> E-Perm (# _____) | <input type="checkbox"/> 3020 Compressor | <input type="checkbox"/> Geotech Geopump | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Mag Stick | <input checked="" type="checkbox"/> Hand Tools | | | |

Durable Expenses Notes

Expendable Expenses

- | | | |
|---|--|--|
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| <input type="checkbox"/> Ziplocks _____ | <input type="checkbox"/> Asbestos Cassettes _____ | <input type="checkbox"/> SGss Sample Train _____ |
| <input type="checkbox"/> Paper Towels (rolls) _____ | <input type="checkbox"/> Booties _____ | <input checked="" type="checkbox"/> Daily Field <u>1</u> |
| <input type="checkbox"/> Ice (bags) _____ | <input type="checkbox"/> Baby Wipes _____ | <input checked="" type="checkbox"/> Pin Flags <u>70</u> |
| <input type="checkbox"/> Asbestos Baggies _____ | <input type="checkbox"/> Tape Lift _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Sticky Notes _____ | <input type="checkbox"/> 0.45 Micron Inline Filter _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Contractor Bags _____ | | <input type="checkbox"/> _____ |

Expendable Expenses Notes



 Field Supervisor



ENVIRONMENTAL ENGINEERING, LLC

Daily Work Report

Client: Monroe County Date: 8-24-2022
Location: Fullerton Pike Project No.: 22-48
Work Description: Wetlands Delineation
Contractors: N/A
Safety Precautions: See HASP
Weather Conditions: 81° Sunny
Arrived at Site: 0915 Left Site: 1315

Sampling & Testing Locations & Methods: Excavated test pits at 4 locations within suspected wetlands; DP-6 and DP-7 were inlet samples at wetland 4; DP-8 and DP-9 were inlet samples @ wetland 5; Wetland 6 delineated with no data points b/c it is coincident with karst conservancy area.

Visitors (title, company, purpose): NONE

Principal Work Performed: Wetland delineation of approximate southern half of site; Delineated 4 regulated wetlands; One potential karst feature identified coincident with wetland 5; small circular area filled with rip rap; visually inspected several other small features that were limited to vehicle ruts; none large enough to delineate.

Incident Report or Significant Observations: NONE.

Hours on Site: 4 hours

On-Site Supervisor: Sara R. Hamidovic, PE

Trucks

12 Starting Mileage 12931 Ending Mileage 12947 Total 16
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____
 # _____ Starting Mileage _____ Ending Mileage _____ Total _____

Durable Expenses

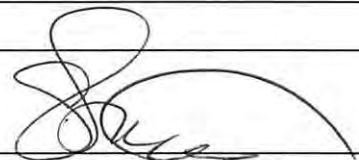
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| <input type="checkbox"/> PID | <input type="checkbox"/> Asbestos Air Pump | <input checked="" type="checkbox"/> Munsell | <input type="checkbox"/> MP-25T Flowcell | <input checked="" type="checkbox"/> <u>Daily Field</u> |
| <input type="checkbox"/> FID | <input type="checkbox"/> CRM #1 | <input type="checkbox"/> Tablet | <input type="checkbox"/> MP-30 Drawdown Meter | <input type="checkbox"/> _____ |
| <input type="checkbox"/> XRF | <input type="checkbox"/> CRM #2 | <input type="checkbox"/> Field Table | <input type="checkbox"/> Geotech Geopump | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Ludlum | <input type="checkbox"/> E-Perm (# _____) | <input type="checkbox"/> 3020 Compressor | | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Mag Stick | <input checked="" type="checkbox"/> Hand Tools | | | <input type="checkbox"/> _____ |

Durable Expenses Notes

Expendable Expenses

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|---|--|--|
| <input type="checkbox"/> Gloves (pairs) _____ | <input type="checkbox"/> Air-O-Cell Cassettes _____ | <input type="checkbox"/> Bailer _____ |
| <input type="checkbox"/> Ziplocks _____ | <input type="checkbox"/> Asbestos Cassettes _____ | <input type="checkbox"/> SGss Sample Train _____ |
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| <input type="checkbox"/> Asbestos Baggies _____ | <input type="checkbox"/> Tape Lift _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Sticky Notes _____ | <input type="checkbox"/> 0.45 Micron Inline Filter _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Contractor Bags _____ | | <input type="checkbox"/> _____ |

Expendable Expenses Notes



 Field Supervisor

Phase II Environmental Investigation

South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403



Prepared for:

Mr. Jeff Cockerill - Attorney
Monroe County Board of Commissioners
100 West Kirkwood Avenue
Bloomington, Indiana 47404

Prepared by:



VET Environmental Engineering, LLC
2335 West Fountain Drive
Bloomington, Indiana 47404

Date:

September 21, 2022

Project Number:

22-51

Phase II Environmental Assessment

**South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 22-51

1.0 SITE BACKGROUND 1

2.0 PHASE II INVESTIGATIVE ACTIVITIES 2

 2.1 Soil Boring Installation 2

 2.2 Temporary Well Installation 4

 2.3 Sample Management..... 4

3.0 ANALYTICAL RESULTS..... 5

 3.1 Soil Boring Lithology 5

 3.2 Soil Analytical Results..... 5

4.0 DISCUSSION 6

 4.1 Soil 6

5.0 CONCLUSIONS AND RECOMMENDATIONS 6

6.0 REFERENCES 8

LIST OF EXHIBITS

- EXHIBIT 1: AREA MAP**
- EXHIBIT 2: PARCEL MAP**
- EXHIBIT 3: SOILS MAP**
- EXHIBIT 4: SOIL SAMPLE LOCATIONS & ANALYTICAL RESULTS**

LIST OF TABLES

- TABLE 1: SOIL ANALYTICAL RESULTS**

LIST OF TABLES IN NARRATIVE

- TABLE A: SOIL ANALYTICAL PARAMETERS**

LIST OF ATTACHMENTS

- ATTACHMENT 1: SITE PHOTOS**
- ATTACHMENT 2: FIELD NOTES AND SOIL BORING LOGS**
- ATTACHMENT 3: HEALTH AND SAFETY PLAN**
- ATTACHMENT 4: ANALYTICAL REPORTS (LEVEL IV ELECTRONIC FILE ONLY)**





VET ENVIRONMENTAL ENGINEERING, LLC

2335 West Fountain Drive, Bloomington, IN 47404

Phone: (812) 822-0400 Fax: (812) 650-3892

Email: info@vet-env.com

September 21, 2022

Mr. Jeff Cockerill – Attorney
Monroe County Board of Commissioners
100 West Kirkwood Avenue
Bloomington, Indiana 47404

**RE: Phase II Environmental Assessment
South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

Dear Mr. Cockerill:

VET Environmental Engineering, LLC (VET) conducted a Phase II Environmental Assessment (PII-2022) at the property located at South State Road 37 and West Fullerton Pike, Bloomington, Indiana (Site) on behalf of the Monroe County Board of Commissioners (Monroe County). The PII-2022 was conducted in accordance with the scope of work detailed in VET's proposal dated August 10, 2022.

The objective of the PII-2022 was to assess the presence or absence of on-Site contamination associated with the Recognized Environmental Condition (REC) identified in a Phase I Environmental Site Assessment (ESA, PI-2022) prepared by VET and dated August 10, 2022.

1.0 SITE BACKGROUND

The Site is currently vacant. The eastern and northern Site boundaries are lined with forested land. The central portion of the Site is an open grassy field. A large pile of fill material is located on the northern portion of the Site. A review of aerial photography indicates that the Site was most recently utilized as a staging area for equipment during the construction of Interstate 69. Access to the Site is provided by an unpaved access road via West Fullerton Pike. The Site is equipped with electrical, water, and sanitary sewer services, according to Monroe County Geographic Information System (GIS) records. The City of Bloomington Utilities Department (CBU) provides drinking water for the Site and surrounding area. CBU obtains water from Monroe Reservoir, commonly known as Lake Monroe, located southeast of Bloomington. Water wells mapped within a quarter mile of the Site may be associated with the adjacent quarry operations or private water supplies for residences. The Site will be connected to the CBU public water supply. As such, groundwater is not expected to be utilized for drinking water at the Site.



In August 2022, VET conducted the PI-2022 at the Site in accordance with the *ASTM Standard Practice for Environmental Site Assessments: Phase I ESA Process (Designation: E1527-21)* pursuant to a potential development of the Site. The PI-2022 identified the following REC in connection with the Site:

- *“VET observed evidence of grading and deposition of fill material on the [Site]. The grading is reportedly a result of the construction of a road foundation that occurred around the year 2015. Additionally, topsoil was reportedly stripped from the [Site] and sold around the year 2015. Although the grading and filling may be attributed to the construction of the road foundation or excavation of topsoil from the [Site], the origin and contents of the potential fill material on the northern [Site] boundary is unknown and as such constitutes an REC.”*

2.0 PHASE II INVESTIGATIVE ACTIVITIES

VET was retained by Monroe County to conduct a PII Environmental Assessment (PII-2022) to address the REC identified by the PI-2022. VET personnel reviewed a Site-specific Health and Safety Plan (HASP) prior to commencing field work (**Attachment 3**). Utilities were located by US Infrastructure Company (USIC) personnel prior to commencement of PII-2022 activities. No damage to utility infrastructure took place during work at the Site. VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, CPESC, Mr. Evan Owings, and Mr. Blake Kalakay conducted PII-2022 activities at the Site on August 29, 2022. Select photographs taken during field investigations are included as **Attachment 1**.

2.1 Soil Boring Installation

VET and personnel with Strata Environmental Contractors, LLC (Strata), the drilling subcontractor, advanced six soil borings at the Site on August 29, 2022 utilizing a track-mounted Geoprobe® 7822DT direct push technology (DPT) drill rig. Soil borings B-1, B-2, B-3, B-4, B-5, and B-6 were advanced to depths of 24 feet below ground surface (bgs), 27 feet bgs, 23.5 feet bgs, 22 feet bgs, 25 feet bgs, and 32 feet bgs, respectively.

Soils were visualized and logged by Sara R. Hamidovic, MS, PE, CHMM, CPESC. Soil samples collected during field sampling activities were classified in the field in accordance with the U.S. Department of Agriculture (USDA) soil classification system. Soil boring logs with soil classification, color (identified with Munsell Color Chart), moisture, and other observations are included in **Attachment 2**.

Sample locations within each boring were selected as a suspected worst-case scenario based upon a combination of visual, olfactory, and headspace screening observations. Headspace screening was conducted by exposing fresh surfaces from soils within the acetate liner and then removing and placing soils from the sample interval into plastic Ziplock bags. Ziplock bags were sealed, labeled by appropriate depth interval, and given at least two minutes to equilibrate prior to conducting headspace screening with a photoionization detector (PID) and a portable flame ionization detector (FID). Headspace screening results are recorded on soil boring logs (**Attachment 2**).

Based on the RECs identified in the PI-2022, soil borings were advanced to evaluate for the presence or absence of problematic conditions resulting from cutting, filling, and grading activities at the Site. Based on data sources reviewed during the PI-2022, VET believes that topsoil was removed and transported off-Site and clay fill was subsequently imported on-Site. Soil boring locations were selected to provide soil, and if possible groundwater, data representative of the Site. Soil boring B-1 was advanced on



the fill pile located on the northern portion of the Site. B-1 was designed as an evaluation point to determine the presence or absence of contamination associated with the fill material deposited on-Site as there is uncertainty with regard to the origins, content, and environmental status of the fill material. A duplicate sample (DUP-1) was collected at B-1 for quality assurance and quality control (QA/QC) purposes.

Soil borings B-2 through B-6 were advanced in the grassy field, inside the perimeter of the Site's tree line. Soil boring B-2 was advanced in the far northwestern corner of the Site. The northwestern corner is relatively flat and represents a local high. Based on data sources reviewed during the PI-2022 (aerial photography, interviews), VET believes that soils on the northwestern portion of the Site were modified through cutting and/or grading activities. B-2 was designed to evaluate the northwestern portion of the Site for the presence or absence of contamination from cutting and filling activities and to evaluate for any on-Site migration of contamination from properties located to the north and west of the Site.

B-3 was advanced approximately 800 feet southeast of B-2. The location of B-3 is a surficial low point compared to the surrounding topography. This location drains approximately the west-central third of the grassy area of the Site. Surface topography in this area of Indiana generally mirrors the topography of the underlying bedrock, suggesting flow direction of both surface water and groundwater on the west-central third of the Site are directed toward B-3. VET identified a 0.277-acre wetland directly west of B-3. The presence of a topographic low coupled with adequate surface hydrology to support a wetland indicate likely presence of groundwater at this location. VET designed B-3 as an evaluation point to assess for the presence or absence of contamination, in both soil and groundwater, for the west-central portion of the grassy area on the Site.

Soil boring B-4 was advanced approximately 610 feet east of B-3, adjacent to the existing tree line. Similar to B-3, B-4 is located in a local topographic low on the Site. A swale is located directly east of B-4 and a berm is located directly east of the swale running parallel to the tree line. Surface water from the east-central section of the Site enters the swale and travels both north and south toward the outlet structure through the berm located immediately northeast of B-4. VET identified a 0.076-acre wetland directly to the north and east of B-4. VET identified a second wetland, 0.027-acres in area, to the southeast of B-4. The presence of a topographic low coupled with adequate surface hydrology to support a wetland indicate likely presence of groundwater at this location. VET designed B-4 as an evaluation point to assess for the presence or absence of contamination, in both soil and groundwater, for this portion of the Site.

B-5 was advanced 930 feet southwest of B-4. A matrix spike/matrix spike duplicate sample was collected at B-5 for QA/QC purposes. Aerial photography suggests that this area of the Site was subjected to modifications through cutting and grading activities. Additionally, B-5 is located at the top of a steep hill that travels downgradient from west to east and eventually off-Site. VET designed B-5 as an evaluation point to assess for the presence or absence of contamination associated with suspected cutting and grading activities at the Site and to assess for off-Site migration of contamination.

Soil boring B-6 was advanced in the Site's southwestern corner, approximately 610 feet southwest of B-5. Aerial photography and topography suggest that this area was modified through cutting and filling activities. Additionally, the Site was most recently utilized as a staging area associated with the Interstate 69 development. B-6 is located on the southwestern portion of the Site, directly north of the Site's entrance on Fullerton Pike and directly east of Interstate 69. The southwestern portion of the Site area was likely highly trafficked and utilized by heavy equipment during the Interstate 69 highway development project. B-6 was designed as an evaluation point to assess for the presence or absence of contamination associated with cutting and grading activities along with impacts associated with the development of Interstate 69.



2.2 Temporary Well Installation

Two temporary monitoring wells were installed at the Site (MW-1 and MW-2). The temporary wells were co-located with soil borings B-3 and B-4, respectively. Temporary wells were constructed by installing clean, 0.1-inch slotted polyvinyl chloride (PVC) screens, and 1-inch PVC riser pipes to the base of the soil borings. Ten-foot screen lengths were selected and installed at MW-1 and MW-2.

The location of MW-1 is a surficial low point compared to the surrounding topography. This location drains approximately the west-central third of the grassy area on the Site. Surface topography in this area of Indiana generally mirrors the topography of the underlying bedrock, suggesting flow direction of both surface water and groundwater on the west-central third of the Site are directed toward MW-1. VET identified a 0.277-acre wetland directly west of MW-1. The presence of a topographic low coupled with adequate surface hydrology to support a wetland indicate likely presence of groundwater at this location.

Similar to MW-1, MW-2 is located in a local, topographic low on the Site. A swale is located directly east of MW-2 and a berm is located directly east of the swale running parallel to the tree line. Surface water from the east-central section of the Site enters the swale and travels both north and south toward the outlet structure through the berm located immediately northeast of MW-2. VET identified a 0.076-acre wetland directly to the north and east of MW-2. VET identified a second wetland, 0.027-acres in area, to the southeast of MW-2. The presence of a topographic low coupled with adequate surface hydrology to support a wetland indicate likely presence of groundwater at this location.

Temporary monitoring wells (piezometers) were allowed to stabilize for approximately five minutes prior to attempting sample collection to minimize groundwater sample turbidity and to allow groundwater to equilibrate. No groundwater was encountered at either boring location at the time of installation. VET left the piezometers in place during the remainder of investigative activities. VET utilized a water level meter intermittently throughout investigative activities to measure the depth to groundwater at MW-1 and MW-2. However, no groundwater was encountered at either boring location during investigative activities. Temporary wells were abandoned by extracting the PVC risers and slotted well screens and pouring bentonite chips into the soil boring cavities to the ground surface.

2.3 Sample Management

VET conducted soil sampling at the Site on August 29, 2022. VET collected a total of six soil samples, one duplicate sample, and one MS/MSD sample for QA/QC purposes. VOC samples were collected first to minimize the loss of VOCs to the atmosphere through volatilization. Surface soil samples were collected utilizing Method 5035 for VOCs and traditional methodology for the balance of the parameters. Method 5035 samples were collected by advancing 5g Terra Core samplers directly into the soil to be sampled and placing individual aliquots directly into laboratory-supplied (one Methanol preserved and two unpreserved) 40mL vials.

Soil jars (moisture and balance of parameters) were filled by placing the soil directly into laboratory-supplied, certified clean, glass soil jars. VET used new, dedicated disposable equipment for all samples collected. New nitrile gloves were donned for each sample. Non-dedicated equipment was decontaminated between samples utilizing an Alconox detergent and tap water rinse in a stainless-steel wash bucket. All disposable equipment was discarded at the completion of each sampling point and replaced with fresh equipment.

Soil samples were subsequently packed in iced coolers and shipped via FedEx to Test America Laboratories in University Park, Illinois under strict chain of custody documentation. Soil samples were



analyzed for the following constituent groups under each respective method of analysis utilizing gas chromatography-mass spectrometry (GC/MS) laboratory equipment:

TABLE A. SOIL ANALYTICAL PARAMETERS		
Parameter	Abbreviation	Method
Volatile Organic Compounds	VOCs	USEPA 8260B
Polycyclic Aromatic Hydrocarbons	PAHs	USEPA 8270E
Resource Conservation & Recovery Act Metals	RCRA 8 Metals	USEPA 6010B
Mercury	Mercury	USEPA 7471B
Polychlorinated Biphenyls	PCBs	USEPA 8082A

3.0 ANALYTICAL RESULTS

Soil laboratory analytical results are tabulated in **Table 1**. The Level II analytical report is included in **Attachment 4**. The Level IV QA/QC report is included in **Attachment 4** of the electronic file. Analytical results are compared to 2022 Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Screening Levels (SLs). There are instances in the laboratory analytical results where constituents were not detected, but the laboratory reporting limit exceeded applicable SLs. This phenomenon is known to the agency and is common in the environmental field. It is VET's professional opinion that IDEM will not request additional analysis to reconcile this discrepancy.

3.1 Soil Boring Lithology

Soil borings were terminated at depths ranging from 22 to 32 feet bgs. Soil boring B-1 was advanced on the northern portion of the Site on the pile of fill material. B-1 was terminated at the native soil material at 22 feet bgs. Soil borings B-2 through B-5 were terminated on the limestone bedrock surface. B-6 was terminated at 32 feet bgs and did not reach bedrock. There were no visual or olfactory signs of contamination at any boring location. Yellowish brown silty loam material was encountered within the first two feet at all boring locations except for B-4. Silty clay and/or clay material was present at all boring locations below two feet bgs. Groundwater was not encountered at any boring location. Lithologic descriptions are included within soil boring logs (**Attachment 2**).

3.2 Soil Analytical Results

Soil samples B-1 and DUP-1 exhibited detections for VOCs, but no detections exceeded IDEM RCG SLs. B-2 through B-6 did not exhibit detections for VOCs. No soil samples exhibited detections for PAHs or PCBs.

RCRA 8 Metals were detected in all soil samples. Arsenic was the only analyte that exhibited detections above IDEM RCG SLs. Arsenic exceeded the Residential Migration to Groundwater (MTG) SL at B-1, DUP-1, and B-5 at concentrations of 6.8 milligrams per kilogram (mg/kg), 6.7 mg/kg, and 6.8 mg/kg, respectively. Soil analytical results are tabulated in **Table 1** and displayed graphically on **Exhibit 4**.



4.0 DISCUSSION

The IDEM RCG is IDEM's system for describing selected approaches to investigation and risk-based closure of contaminated or potentially contaminated sites as prescribed in Indiana Code (IC) 13-12-3-2 and IC 13-25-5-8.5 (IDEM, 2012). The Site is the proposed location of a new municipal development project associated with the Monroe County Justice Department. The Site will include both commercial and residential land use components. Groundwater will not be utilized for drinking water at the Site. It is VET's professional opinion that the soil direct contact exposure scenario and a residential context are the most applicable of readily available screening criteria.

4.1 Soil

Arsenic was the only analyte that exceeded IDEM RCG SLs. Arsenic occurs naturally in southern Indiana soils, and specifically Bloomington soils, at levels that often exceed the most conservative IDEM RCG SLs. This condition is the subject of discussion at the agency and among consultants operating in southern Indiana. It is VET's opinion, based on experience and published documentation, that ubiquitous presence of arsenic on a property in southern Indiana coupled with concentrations in soils up to 15 mg/kg is likely attributable to a naturally occurring condition. This does not, however, discount relevance of the SLs published by IDEM, nor does it suggest that naturally occurring arsenic poses any less risk than that from an anthropogenic source. The argument that arsenic contamination is naturally occurring serves to communicate challenges with regard to remedy selection and implementation due to its widespread nature. All samples exhibited concentrations of arsenic below 15 mg/kg. As such, the detections of arsenic in samples collected at the Site are consistent with background arsenic concentrations in southern Indiana soils (Dragun, 2005).

There are four wells mapped within one quarter mile of the Site. One well is mapped to the northeast of the Site. However, the well log states that the well is actually located two miles south of State Road 446. This suggests that the location of the well is mapped incorrectly, and the well is located more than one quarter mile away from the Site. The remaining three wells are located to the southeast of the Site, across West Fullerton Pike. These wells may be associated with residential properties located south of the Site. There is a significant hydrologic and topographic break between the residential properties and the Site. The Site's southern boundary, adjacent to West Fullerton Pike, represents a local high on the Site. The Site topography slopes downgradient from the entrance to the north and east, away from the residential properties, and toward mapped streams on the Site. Surface topography in this area of Indiana generally mirrors the topography of the underlying bedrock, suggesting that groundwater flow direction is likely to the north and east, toward the mapped streams on-Site and away from the residential properties. This indicates that migration of contamination through groundwater from the Site to the residential properties is unlikely. Additionally, arsenic concentrations found at the Site are consistent with background arsenic concentrations for southern Indiana soils. Arsenic concentrations at the Site are notably lower than concentrations typically found in southern Indiana in VET's experience. As such, further investigation and/or remedial measures for soil at the Site are not warranted.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The objective of the PII-2022 was to assess the presence or absence of on-Site contamination associated with the REC identified in the PI-2022 prepared by VET and dated August 10, 2022. Field



screening results were used to guide sample selection at each boring location. Sample locations were placed in what VET believes to be representative of Site conditions, to the extent possible, and to identify the presence or absence of contamination resulting from cutting, filling, and grading activities at the Site and the Site's use as a staging area associated with Interstate 69 development.

Soil samples collected from fill material on-Site (B-1 and DUP-1) exhibited detections for VOCs below applicable SLs. No other soil samples (B-2 through B-6) collected during investigative activities exhibited detections for VOCs. These analytical results suggest that fill material likely originated off-Site. The PII-2022 was not exhaustive and was designed to determine the presence or absence of contamination associated with the REC identified in the PI-2022. Due to the limited nature of the investigation, VET cannot warranty that all fill material on-Site will exhibit analytical results consistent with B-1. Approval may be necessary if soils are transported off-Site for disposal or reuse. Approval for disposal or reuse may require additional analytical testing. VET did not observe visual or olfactory signs of contamination during investigative activities. However, if any visual or olfactory signs of contamination are observed during development activities, additional investigation may be warranted.

VET's samples were biased toward areas with the highest potential for contamination as indicated by field screening instrumentation and visual inspection. Analytical results were consistent with background concentrations for the area or did not exceed applicable SLs; further investigation and remedial measures are not warranted at this time.

VET appreciates the opportunity to provide environmental consulting services for Monroe County. If you have any questions or concerns regarding this report, please do not hesitate to contact VET at (812) 822-0400.

Respectfully submitted,



Sara R. Hamidovic, MS, PE, CHMM, CPESC
Principal Engineer, President/CEO



6.0 REFERENCES

Dragun, James & Chekiri, Khaled (2005). *Elements in North American Soils* (2nd ed.), Amherst, MA: Amherst Scientific Publishers. Page 30.

Indiana Department of Environmental Management (IDEM) (2012). *IC13-25-5-8.5 Risk Based Closure* Retrieved February 12, 2021, from <https://www.in.gov/idem/cleanups/2328.htm>

United States Geological Survey (USGS), Bloomington, 7.5', IND, 1:24,000 Topographic Map, 2019

VET Environmental Engineering, LLC. (2022). *Phase I Environmental Site Assessment – South State Road 37 and West Fullerton Pike, Bloomington, Indiana*: VET Environmental Engineering, LLC.

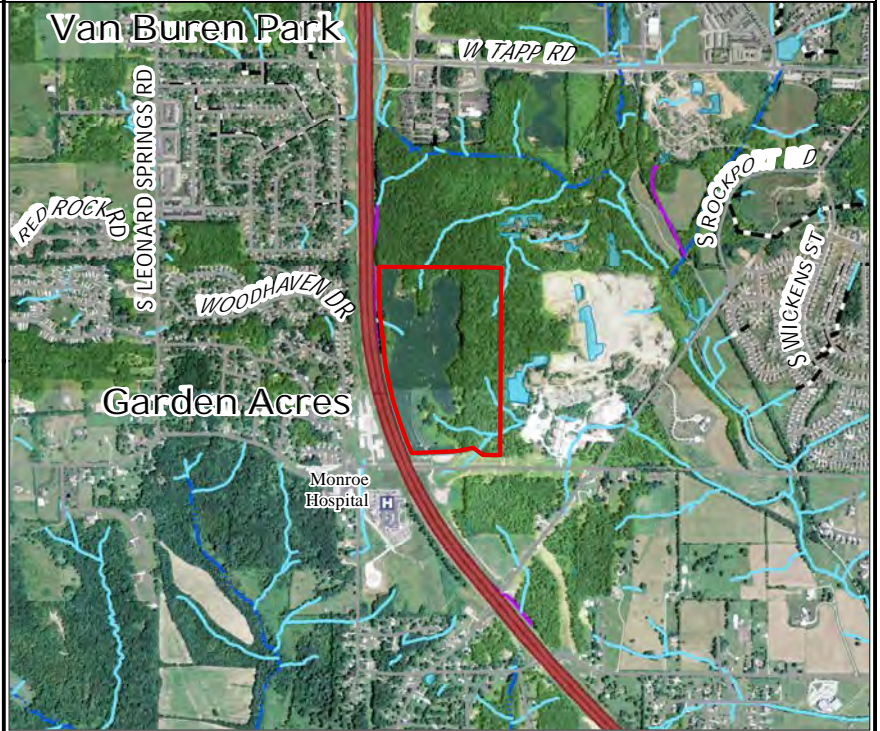


EXHIBITS

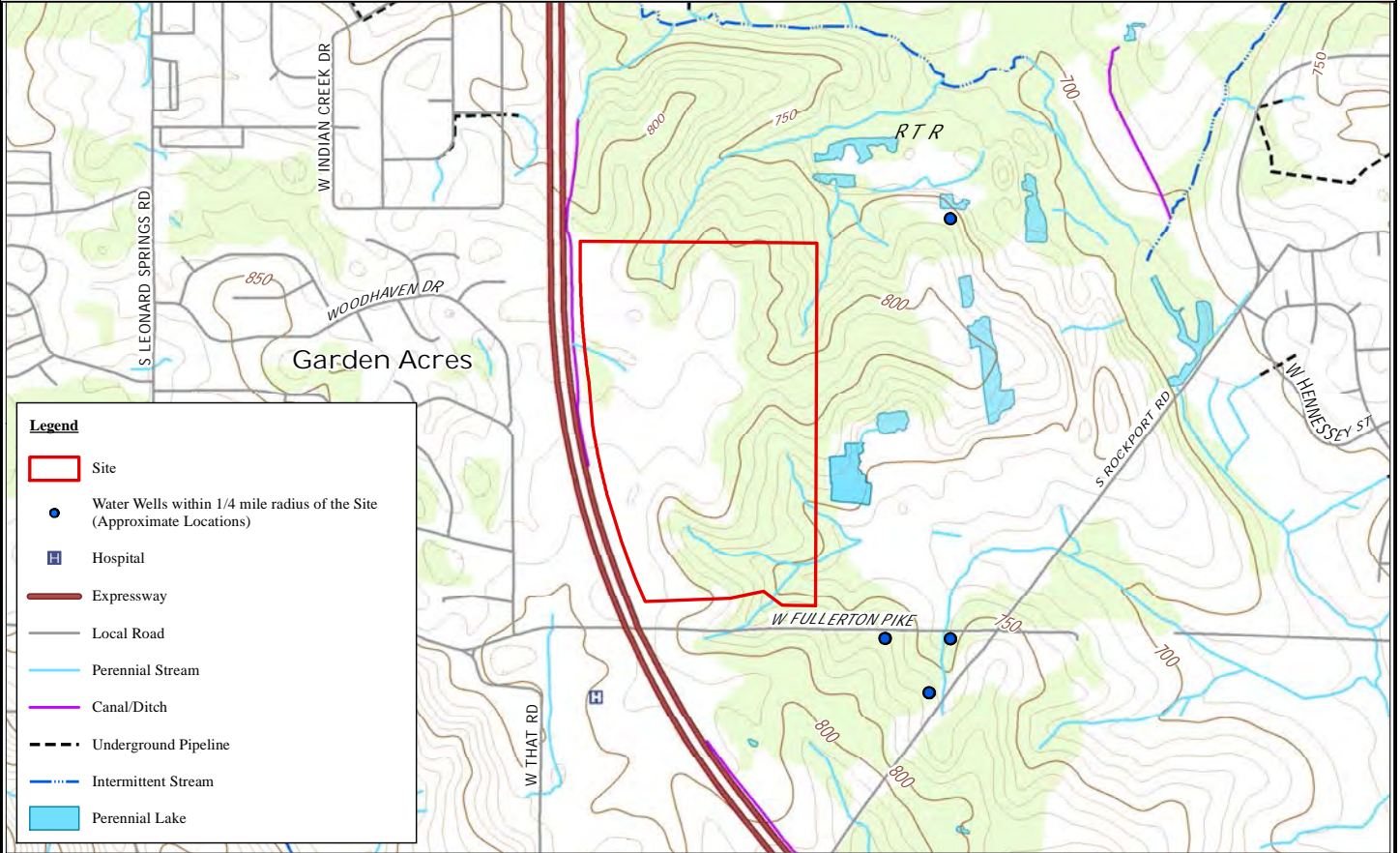
State Map



Vicinity Map



Site Map



Legend

- Site
- Water Wells within 1/4 mile radius of the Site (Approximate Locations)
- H Hospital
- Expressway
- Local Road
- Perennial Stream
- Canal/Ditch
- Underground Pipeline
- Intermittent Stream
- Perennial Lake



VET Environmental Engineering, LLC

2335 W. Fountain Drive
Bloomington, IN 47404
Phone: (812) 822-0400
www.vet-env.com

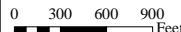
Title: Area Map

Location: South of State Road 37,
North of West Fullerton Pike
Bloomington, Indiana 47403
Monroe County

Data Sources: Indiana Census TIGER 2000 and IGS Counties, 2014 NAIP Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



1" = 1,250'



Project: Monroe County - Fullerton Pike

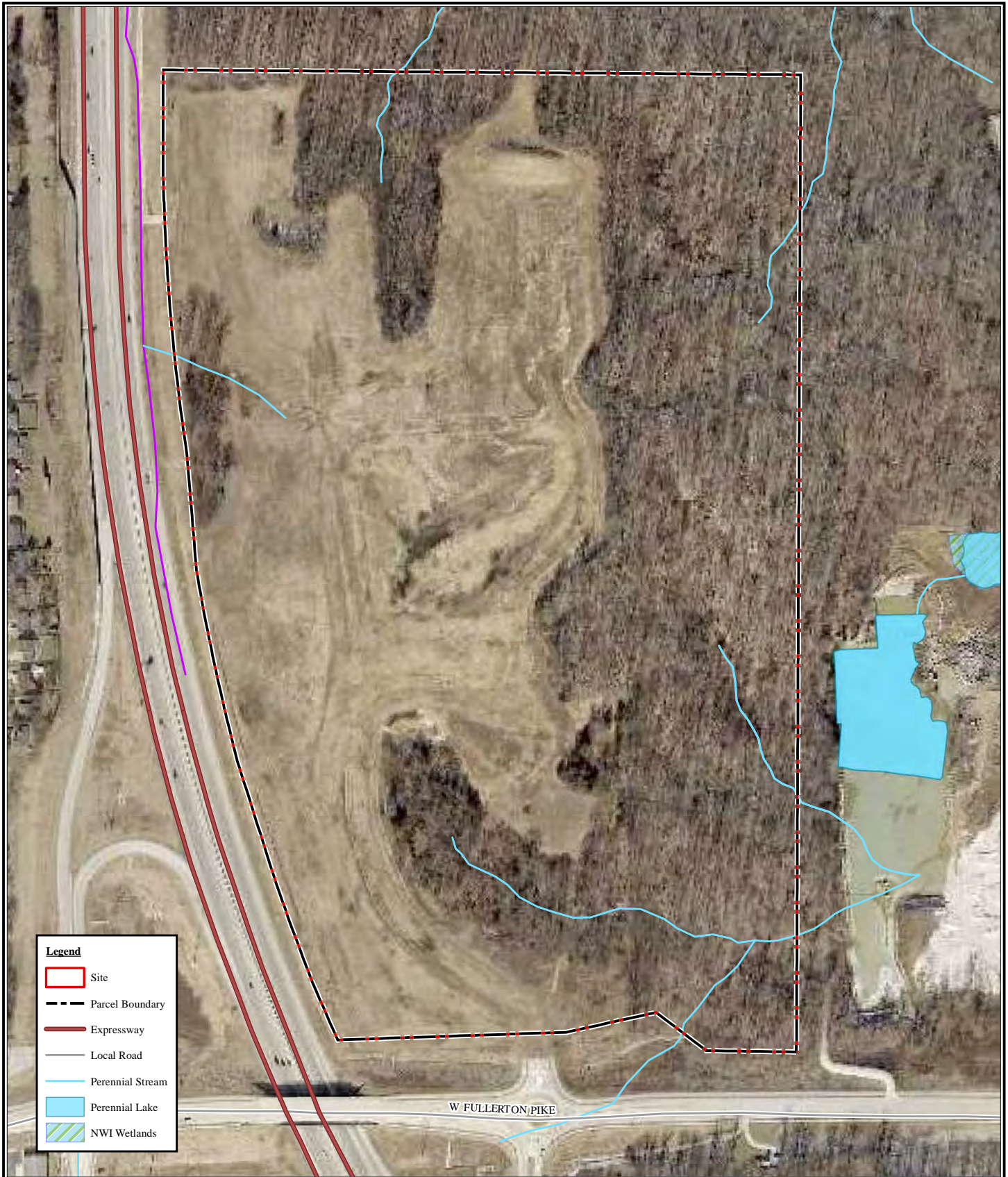
VET Project No.: 22-51

NPDES Permit No.: N/A

Date: 8/3/2022

Exhibit: 1 **Drawn By:** EMT

Notes: Water wells shown: 4 in 1/4 mile radius of Site

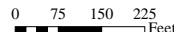


VET Environmental Engineering, LLC

2335 W. Fountain Drive
 Bloomington, IN 47404
 Phone: (812) 822-0400
 www.vet-env.com



1" = 333'

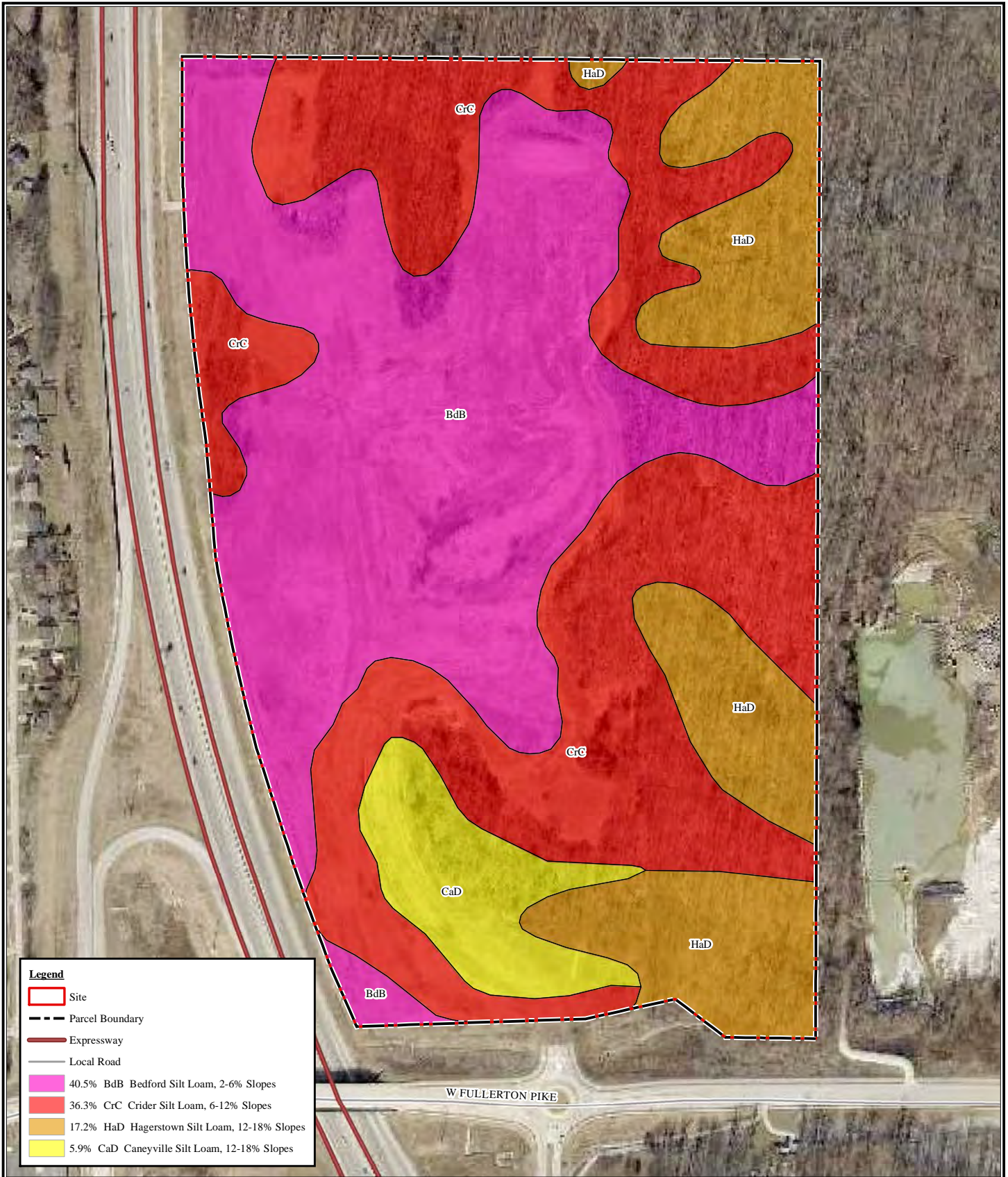


Project: Monroe County - Fullerton Pike	
VET Project No.:	22-51
NPDES Permit No.:	N/A
Date:	8/3/2022
Exhibit: 2	Drawn By: EMT
Notes: Perennial Stream Reported On Site	

Title: Parcel Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Legend

- Site
- Parcel Boundary
- Expressway
- Local Road
- 40.5% BdB Bedford Silt Loam, 2-6% Slopes
- 36.3% CrC Crider Silt Loam, 6-12% Slopes
- 17.2% HaD Hagerstown Silt Loam, 12-18% Slopes
- 5.9% CaD Caneyville Silt Loam, 12-18% Slopes

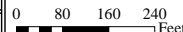


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1" = 333'



Project: Monroe County - Fullerton Pike

VET Project No.: 22-51

NPDES Permit No.: N/A

Date: 8/3/2022

Exhibit: 3 **Drawn By:** EMT

Notes: Hydric Soils Not Reported On Site

Title: Soils Map

Location: South of State Road 37,
 North of West Fullerton Pike
 Bloomington, Indiana 47403
 Monroe County

Data Sources: 2022 Elevate Imagery, 2016 USDA WSS Soils, 2019 USGS TNM Topo Indiana Bloomington & Clear Creek 7.5'



Constituents (mg/kg)	B-1 (6'-8') 9/13/2022	DUP-1 (B-1(8'-10')) 9/13/2022
VOCs	ND/BA	ND/BA
SVOCs	ND	ND
Arsenic	6.8	6.7
Balance Metals	BA	BA
PCBs	ND	ND

Constituents	B-4 (20'-22') 9/13/2022 (mg/kg)	MW-2 9/13/2022 (ug/L)
VOCs	ND	DRY
SVOCs	ND	DRY
Metals	BA	DRY
PCBs	ND	DRY

Constituents (mg/kg)	B-5 (8'-10') 9/13/2022
VOCs	ND
SVOCs	ND
Arsenic	6.8
Balance Metals	BA
PCBs	ND

Constituents (mg/kg)	B-2 (2'-4') 9/13/2022
VOCs	ND
SVOCs	ND
Metals	BA
PCBs	ND

Constituents	B-3 (22'-23.5') 9/13/2022 (mg/kg)	MW-1 9/13/2022 (ug/L)
VOCs	ND	DRY
SVOCs	ND	DRY
Metals	BA	DRY
PCBs	ND	DRY

Constituents (mg/kg)	B-6 (30'-32') 9/13/2022
VOCs	ND
SVOCs	ND
Metals	BA
PCBs	ND

Legend

- Site
- Parcel Boundary
- Soil Boring Location
- Monitoring Well
- Mapped Sinkhole
- Potential Sinking Stream
- Potential Sinkhole
- Potential Spring
- Rock Check Dam
- 1' Topographic Contour (2021)
- Jurisdictional Streams
- Swale
- Berm
- Conservancy Easement
- Karst Easement
- Delineated Wetlands
- Non-Regulated Wetland

ND = Constituent not detected at reporting limit
 BA = Constituent detected above laboratory reporting limits but below screening levels
 ND = Constituent not detected - Reporting limit exceeds IDEM RCG Residential Migration to Groundwater Screening Level
 100.0 = Detection exceeds IDEM RCG Residential Migration to Groundwater Screening Level

1" = 87'

0 20 40 80 120 160 Feet

VET Environmental Engineering, LLC

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Title:	Sampling Locations & Analytical Results	Location:	South of State Road 17, North of West Palmetto Pike, Monroe County - Villavon Pike Phase II, Monroe County
Project:	VET Project No:	SPDES Permit No:	22-51
Date:	9/21/2022	Drawn By:	DDT
Scale:	4	Notes:	N/A

Data Sources: 2022 Esri Imagery, 2019 USGS TMI Topo Indiana Bloomington & Clear Creek 7.5'

TABLES

**Table 1. Soil Analytical Results
South State Road 37 and West Fullerton Pike
Bloomington, Indiana**

Constituents (mg/kg)		2022 IDEM Remediation Closure Guide (RCG) Screening Levels (mg/kg)				B-1 (6'-8')	DUP-1 (B-1 (8'-10'))	B-2 (2'-4')	B-3 (22'-23.5')	B-4 (20'-22')	B-5 (8'-10')	B-6 (30'-32')
		Residential MTG	Direct Contact Residential	Direct Contact Comm/Ind	Direct Contact Excavation							
		CAS #	VOCs (GC/MS) Method 8260B	500-221506-1 9/13/2022	500-221506-8 9/13/2022	500-221506-2 9/13/2022	500-221506-3 9/13/2022	500-221506-4 9/13/2022	500-221506-5 9/13/2022	500-221506-6 9/13/2022		
71-55-6	1,1,1-Trichloroethane	1.4	640	640	640	ND	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	0.032	2.1	6.3	35	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	0.16	50	160	1,700	ND	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.05	320	1,000	1,200	ND	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	1.6	220	220	220	ND	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane (EDC)	0.028	6.4	20	730	ND	ND	ND	ND	ND	ND	ND
78-87-5	1,2-Dichloropropane	0.033	22	66	360	ND	ND	ND	ND	ND	ND	ND
108-67-8	1,3,5-Trimethylbenzene	1.7	180	180	180	ND	ND	ND	ND	ND	ND	ND
123-91-1	1,4-Dioxane	0.019	74	240	13,000	ND	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone (MEK)	23	28,000	28,000	28,000	0.018	0.018	ND	ND	ND	ND	ND
591-78-6	2-Hexanone	0.18	280	1,300	3,300	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	3.7	340	3,000	6,800	ND	ND	ND	ND	ND	ND	ND
67-64-1	Acetone	74	98,000	100,000	100,000	0.10	0.09	ND	ND	ND	ND	ND
71-43-2	Benzene	0.051	17	51	1,800	ND	ND	ND	ND	ND	ND	ND
75-25-2	Bromoform	0.42	270	860	920	ND	ND	ND	ND	ND	ND	ND
74-83-9	Bromomethane	0.038	9.5	30	160	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	4.8	740	740	740	ND	ND	ND	ND	ND	ND	ND
56-23-5	Carbon tetrachloride	0.039	9.1	29	460	ND	ND	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	1.4	390	760	760	ND	ND	ND	ND	ND	ND	ND
124-48-1	Chlorodibromomethane	0.43	120	390	800	ND	ND	ND	ND	ND	ND	ND
75-00-3	Chloroethane	47	2,100	2,100	2,100	ND	ND	ND	ND	ND	ND	ND
67-66-3	Chloroform	0.44	4.5	14	1,900	ND	ND	ND	ND	ND	ND	ND
74-87-3	Chloromethane	0.98	150	460	1,300	ND	ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.41	220	2,300	2,400	ND	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	270	120	120	120	ND	ND	ND	ND	ND	ND	ND
75-27-4	Dichlorobromomethane	0.43	4.1	13	930	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	16	81+	250	480	ND	ND	ND	ND	ND	ND	ND
106-93-4	Ethylene Dibromide (EDB)	0.00028	0.5	1.6	180	ND	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene (Cumene)	15	270	270	270	ND	ND	ND	ND	ND	ND	ND
79-20-9	Methyl acetate	83	29,000	29,000	29,000	ND	ND	ND	ND	ND	ND	ND
108-10-1	Methyl Isobutyl Ketone (MIBK)	28	3,400	3,400	3,400	ND	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tertiary butyl ether (MTBE)	0.63	660	2,100	8,900	ND	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.025	490	3,200	3,300	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	0.079	28	86	3,100	ND	ND	ND	ND	ND	ND	ND
100-42-5	Styrene	2.2	870	870	870	ND	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethylene (PCE)	0.045	110	170	170	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	14	820	820	820	3.2	0.035	ND	ND	ND	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.62	98	300	1,600	ND	ND	ND	ND	ND	ND	ND
10061-02-6	trans-1,3-Dichloropropene	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
79-01-6	Trichloroethylene (TCE)	0.036	5.7	19	95	ND	ND	ND	ND	ND	ND	ND
75-69-4	Trichlorofluoromethane	66	1,200	1,200	1,200	ND	ND	ND	ND	ND	ND	ND
108-05-4	Vinyl acetate	1.7	1,300	2,800	2,800	ND	ND	ND	ND	ND	ND	ND
75-01-4	Vinyl chloride (chloroethene)	0.014	0.83	17	1,300	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene, Total	200	260	260	260	ND	ND	ND	ND	ND	ND	ND

**Table 1. Soil Analytical Results
South State Road 37 and West Fullerton Pike
Bloomington, Indiana**

CAS #	SVOCs (GC/MS) Method 8270D	2022 IDEM Remediation Closure Guide (RCG) Screening Levels (mg/kg)				B-1 (6'-8')	DUP-1 (B-1 (8'-10'))	B-2 (2'-4')	B-3 (22'-23.5')	B-4 (20'-22')	B-5 (8'-10')	B-6 (30'-32')
		Residential MTG	Direct Contact Residential	Direct Contact Comm/Ind	Direct Contact Excavation	500-221506-1	500-221506-8	500-221506-2	500-221506-3	500-221506-4	500-221506-5	500-221506-6
						9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022	9/13/2022
90-12-0	1-Methylnaphthalene	1.2	250	390	390	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	3.7	340	3,000	6,800	ND	ND	ND	ND	ND	ND	ND
83-32-9	Acenaphthene	110	5,000	45,000	100,000	ND	ND	ND	ND	ND	ND	ND
208-96-8	Acenaphthylene	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
120-12-7	Anthracene	1,200	25,000	100,000	100,000	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo(A)Anthracene	2.1	15	210	12,000	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo(A)Pyrene	4.7	1.5	21	500	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo(B)Fluoranthene	60	15	210	12,000	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo(G,H,I)Perylene	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo(K)Fluoranthene	590	150	2,100	100,000	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	1,800	1,500	21,000	100,000	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz(A,H)Anthracene	19	1.5	21	1,200	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	1,800	3,400	30,000	68,000	ND	ND	ND	ND	ND	ND	ND
86-73-7	Fluorene	110	3,400	30,000	68,000	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno(1,2,3-C,D)Pyrene	200	15	210	12,000	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	0.11	53	170	3,100	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	**	**	**	**	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	260	2,500	23,000	51,000	ND	ND	ND	ND	ND	ND	ND
CAS #	Metals - Method 6020 (ICP/MS)											
7440-38-2	Arsenic	5.9	9.5	30	920	6.8	6.7	4.6	ND	3.7	6.8	3.5
7440-39-3	Barium	1,700	21,000	100,000	100,000	110	120	50	18	45	44	79
7440-43-9	Cadmium	7.5	9.9	100	190	ND	ND	ND	0.95	2.9	ND	0.48
7440-47-3	Chromium, Total	1,000,000	**	**	**	15	14	21	2.4	11	76	9.6
7439-92-1	Lead	270	400	800	1,000	17	18	9.3	15	18	17	15
7782-49-2	Selenium	5.3	550	5,800	9,800	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	16	550	5,800	9,800	ND	ND	ND	ND	ND	ND	ND
CAS #	Mercury - Method 7471B (CVAA)											
7439-97-6	Mercury	2.1	3.1	3.1	3.1	0.048	0.043	0.024	0.19	ND	0.063	ND
CAS #	PCBs Method 8082											
12674-11-2	PCB-1016	2.7	5.7	51	120	ND	ND	ND	ND	ND	ND	ND
11104-28-2	PCB-1221	0.016	2.8	8.3	520	ND	ND	ND	ND	ND	ND	ND
11141-16-5	PCB-1232	0.016	2.4	7.2	490	ND	ND	ND	ND	ND	ND	ND
53469-21-9	PCB-1242	0.24	3.2	9.5	560	ND	ND	ND	ND	ND	ND	ND
12672-29-6	PCB-1248	0.24	3.2	9.5	560	ND	ND	ND	ND	ND	ND	ND
11097-69-1	PCB-1254	0.41	1.7	9.7	33	ND	ND	ND	ND	ND	ND	ND
11096-82-5	PCB-1260	1.1	3.4	9.9	570	ND	ND	ND	ND	ND	ND	ND
1336-36-3	PCBs, Total (High Risk)	1.6	3.2	9.4	550	ND	ND	ND	ND	ND	ND	ND

Table Legend

- * = Data qualified (see analytical report)
- ** = Criteria for Constituent Not Available
- NA = Not Analyzed
- ND = Constituent not detected at reporting limit
- ND = Constituent not detected - Reporting limit exceeds IDEM RCG Residential Migration to Groundwater Screening Level
- 100.0 = Detection does not exceed Screening Levels
- 100.0 = Detection exceeds IDEM RCG Residential Migration to Groundwater Screening Level

ATTACHMENT 1

Site Photographs

Photo 1: Soil core at B-1; View down



Photo 2: Piezometer installed at B-3; View to the north



Photo 3: Soil core at B-3; View down



Photo 4: Drilling subcontractor advancing soil boring B-5; View to the west



ATTACHMENT 2



ENVIRONMENTAL ENGINEERING, LLC

Daily Work Report

Client: Monroe County Date: 8-29-22
Location: Fulerton Pike Project No.: 22-51
Work Description: ESA Phase II Core drilling / Sample Collection
Contractors: Strata Environmental Contractors, LLC
Weather Conditions: 85° Sunny
Arrived at Site: 0748 Left Site: 15:48

Sampling & Testing Locations & Methods: B-1 drilled to depth of 24', did not hit water. Soil Samples taken at 6'-8' for B-1. Dup-1 samples taken at this location at a depth of 8'-10'.
B-2 drilled to a depth of 27', did not hit water. Samples taken at a depth of 2'-4'.
B-3 drilled to 23.5', hit bedrock, no water initially, samples taken at 22'-23.5'
B-4 drilled to 22' hit bedrock, no water initially, samples taken at 20'-22'

Visitors (title, company, purpose): Utility locator from Northern Lights stopped to tell us the location of fiber optic cables on property.

Principal Work Performed: Geoprobe boring to refusal with exception of B-1 located on top of fill pile. Soil Samples for VOCs, PCBs, PAHs + Metals collected at each site boring location. Water samples were not taken due to lack of water at drilling locations

Incident Report or Significant Observations: Geoprobe overheated @ 1330. Drilling started again at 1340. No groundwater was found during drilling. Therefore water samples could not be taken.

Hours on Site: 8

Page 1 of 2

On-Site Supervisor: Sara R. Haidoor, PE

piezometers left in place at B-3 + B-4
 B-5 drilled to depth 25'. samples taken at 8'-10' primary, 10'-12' MS,
 6'-8' MSD. Soil from 12'-14' was used to top off MSD samples.

Piezometers in B-3 + B-4 were checked for water at 1500. No water detected

Trucks Piezometers were removed

#	<u>12</u>	Starting Mileage	<u>13077</u>	Ending Mileage	<u>13084 13089</u>	Total	<u>12</u>
#	_____	Starting Mileage	_____	Ending Mileage	_____	Total	_____
#	_____	Starting Mileage	_____	Ending Mileage	_____	Total	_____
#	_____	Starting Mileage	_____	Ending Mileage	_____	Total	_____
#	_____	Starting Mileage	_____	Ending Mileage	_____	Total	_____

Durable Expenses

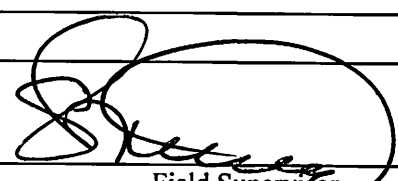
- | | | | | |
|---|--|---|--|--|
| <input checked="" type="checkbox"/> GPS | <input type="checkbox"/> Mold Air Pump | <input checked="" type="checkbox"/> Decon Kit (\$5/day) | <input type="checkbox"/> MP-10 Controller | <input type="checkbox"/> 12V Deep Cycle + Charge |
| <input checked="" type="checkbox"/> PID | <input type="checkbox"/> Asbestos Air Pump | <input checked="" type="checkbox"/> Munsell | <input type="checkbox"/> MP-25T Flowcell | <input checked="" type="checkbox"/> <u>Field Box 1</u> |
| <input checked="" type="checkbox"/> FID | <input type="checkbox"/> CRM #1 | <input type="checkbox"/> Tablet | <input checked="" type="checkbox"/> MP-30 Drawdown Meter | <input checked="" type="checkbox"/> <u>Coolers 5</u> |
| <input type="checkbox"/> XRF | <input type="checkbox"/> CRM #2 | <input checked="" type="checkbox"/> Field Table | <input checked="" type="checkbox"/> Geotech Geopump | <input checked="" type="checkbox"/> <u>Stainless Balls 2</u> |
| <input type="checkbox"/> Ludlum | <input type="checkbox"/> E-Perm (# _____) | <input type="checkbox"/> 3020 Compressor | | <input checked="" type="checkbox"/> <u>Carboy 1</u> |
| <input type="checkbox"/> Mag Stick | <input type="checkbox"/> Hand Tools | | | |

Durable Expenses Notes

Expendable Expenses

- | | | | | | |
|---|----------------|---|---------------|--|-------|
| <input checked="" type="checkbox"/> Gloves (pairs) | <u>1 box</u> | <input type="checkbox"/> Air-O-Cell Cassettes | _____ | <input type="checkbox"/> Bailer | _____ |
| <input checked="" type="checkbox"/> Ziplocks | <u>3 boxes</u> | <input type="checkbox"/> Asbestos Cassettes | _____ | <input type="checkbox"/> SGss Sample Train | _____ |
| <input type="checkbox"/> Paper Towels (rolls) | _____ | <input type="checkbox"/> Booties | _____ | <input type="checkbox"/> _____ | _____ |
| <input checked="" type="checkbox"/> Ice (bags) | <u>1</u> | <input checked="" type="checkbox"/> Baby Wipes | <u>1 Pack</u> | <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> Asbestos Baggies | _____ | <input type="checkbox"/> Tape Lift | _____ | <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> Sticky Notes | _____ | <input checked="" type="checkbox"/> 0.45 Micron Inline Filter | _____ | <input type="checkbox"/> _____ | _____ |
| <input checked="" type="checkbox"/> Contractor Bags | <u>1</u> | | | <input type="checkbox"/> _____ | _____ |

Expendable Expenses Notes


 Field Supervisor



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log Log 1 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-1	Logged By: Sara Hamidovic, MS, PE, CHMM.
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 24	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM		
	Sample	Sample No.								
0			75	Silty Loam	10YR 5/6 (yellowish brown) dry silt loam	11	4.5	N/A		
2				Silty Loam	10YR 4/4 (dark yellowish brown) silty clay loam with 10YR 5/1 (gray) and 10YR 4/6 (dark yellowish brown) redox in matrix	9.6	78			
4				Silty Clay	10YR 4/1 (dark gray) silty clay					
6		B-1 (6'-8') (VOCs, PAHs, RCRA 8 Metals, PCBs) B-1 (8'-10') (VOCs, PAHs, RCRA 8 Metals, PCBs)	75	Silty Clay	10YR 4/1 (dark gray) moist silty clay	2.8	225			
8									3	1170
10					90	Clay	7.5YR 5/6 (strong brown) moist clay with 2.5Y 6/1 (gray) redox in matrix		1.6	1540
12					100	Clay	7.5YR 5/6 (strong brown) moist clay with 2.5Y 6/1 (gray) redox in matrix and 2.5Y 2.5/1 (black) redox in pore lining		1.4	535
14						Clay	7.5YR 5/8 (strong brown) dry compact clay; no redox		0.4	230
16						Clay	7.5YR 5/8 (strong brown) dry compact clay with 2.5YR 3/6 (dark red) mottles and 2.5Y 6/1 (gray) redox in matrix and 2.5Y 2.5/1 (black) redox in pore lining		0.5	330
18					100	Clay	2.5YR 3/6 (dark red) dry compact clay with 2.5Y 7/1 (light gray) weathered limestone		0	300
20									0	620
22					100	Clay	2.5YR 3/6 (dark red) dry compact clay with 10YR 2/1 (black) mottles		0	460
24						Clay	2.5YR 3/6 (dark red) dry compact clay with 10YR 2/1 (black) mottles and 10YR 7/1 (light gray) weathered limestone bedrock; boring terminated on native soil interface		0	270

Notes: Northing: 4331160.48, Easting: 537233.99. Soil sample (B-1 (6'-8') (VOCs, PAHs, RCRA 8 Metals, PCBs)) at 1010.

Fill pile boring drilled to native soil material; moist at base. No visual or olfactory signs of contamination. TDD = 24'



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log

Log 2 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-2	Logged By: Sara Hamidovic, MS, PE, CHMM.
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 27	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
	Sample	Sample No.						
0			90	Silty Loam	10YR 6/4 (light yellowish brown) dry silt loam	20.3	3.8	N/A
2				Silty Loam	10YR 5/8 (yellowish brown) dry silt loam with 10YR 7/1 (light gray) pulverized limestone	8	4	
4				Clay	10YR 5/8 (yellowish brown) dry compact clay with 2.5YR 3/6 (dark red) mottles and 10YR 7/1 (light gray) pulverized limestone	3	4.2	
6			100	Clay	10YR 5/8 (yellowish brown) dry compact clay with 2.5YR 3/6 (dark red) mottles and 10YR 7/1 (light gray) cherty limestone fragments	4.1	3.8	
8				Clay	10YR 5/8 (yellowish brown) dry compact clay with more 2.5YR 3/6 (dark red) mottles and more 10YR 7/1 (light gray) cherty limestone fragments	0.6	3.7	
10			100	Clay	10YR 5/8 (yellowish brown) dry compact clay with 2.5YR 3/6 (dark red) mottles and less 10YR 7/1 (light gray) cherty limestone fragments	0.3	3.5	
12				Clay	10YR 5/8 (yellowish brown) dry compact clay with 2.5YR 3/6 (dark red) mottles and less 10YR 7/1 (light gray) cherty limestone fragments with depth	0.2	3.6	
14			100	Clay	5YR 4/6 (yellowish red) compact clay with 2.5Y 5/6 (red) mottles; no limestone	0.1	2.8	
16				Clay	2.5Y 6/8 (light red) tight dry clay with 2.5Y 2.5/1 (reddish black) redox in pore lining	0	3.7	
18			100	Clay	2.5Y 6/6 (light red) tight dry clay with some 5YR 5/6 (yellowish red) clay	0	3.8	
20				Clay	2.5Y 5/4 (light olive brown) tight dry clay with 5Y 6/3 (pale olive) weathered limestone	0	3.8	
22			100	Clay	10YR 5/8 (yellowish brown) and 5YR 4/6 (yellowish red) clay; more moist with depth; some weathered limestone fragments	0	3.5	
24				Clay	2.5Y 6/6 (olive yellow) and 5Y 6/4 (pale olive) clay; more moist with depth	0	3.7	
26			100	Clay	2.5YR 3/6 (dark red) and 2.5Y 5/4 (light olive brown) moist plastic clay with 2.5Y 6/2 (light brownish gray) weathered limestone at base; boring terminated on limestone bedrock			

Notes: Northing: 4331184.47, Easting: 536980.96. Soil sample (B-1 (2'-4') (VOCs, PAHs, RCRA 8 Metals, PCBs)) at 1022.
 Bedrock refusal at 27' BGS. No evidence of groundwater. No piezometer installed. No visual or olfactory signs of contamination.
 Termination on limestone bedrock surface. TDD = 27'



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log

Log 3 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-3/MW-1	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 23.5	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
	Sample	Sample No.						
0	B-3 (22'-23.5') (VOCs, PAHs, RCRA 8 Metals, PCBs)		90	Silty Loam	10YR 5/6 (yellowish brown) silt loam with sand and gravel intermixed; 5YR 4/6 (yellowish red) and 5Y 6/2 (light olive gray) redox features	0	5.2	
2				Silty Loam	10YR 4/6 (dark yellowish brown) homogeneous silt loam; faint 10YR 2/1 (black) redox features in pore linings			
4				Silty Clay	5Y 4/1 (dark gray) dry, homogeneous silty clay	0	5.8	
6			100	Silty Clay	5Y 6/1 (gray) homogeneous silty, sandy clay; faint 5YR 5/8 (yellowish red) redox features	0	5.8	
8				Silty Clay	5Y 6/1 (gray) homogeneous silty, sandy clay; faint 5YR 5/8 (yellowish red) redox features; more iron concentrations with depth	0	6	
10			100	Clay	5YR 7/1 (light gray) moist clay; faint 5YR 5/8 (yellowish red) redox features	0	6.7	
12				Silty Clay	10YR 5/6 (yellowish brown) silty clay; cherty limestone fragments			
14				Clay	5YR 4/6 (yellowish red) compact plastic clay; sparse rock fragments and 5YR 2.5/1 (black) manganese concentrations	0	7.3	
16			100	Clay	2.5YR 4/8 (red) compact, plastic clay; 10YR 6/2 (light brownish gray) redox depletions	0	8.1	
18				Clay	2.5YR 5/6 (yellowish red) dry compact clay; 5YR 4/6 (strong brown) and Gley 1 6/10GY (greenish gray) redox features	0	7.9	
20			100	Clay	2.5YR 2.5/4 (dark reddish brown) and 10YR 6/8 (olive yellow) clay with sparse cherty limestone fragments.	0	8.2	
22				Clay	2.5Y 6/6 (olive yellow) dry compact clay with 2.5YR 3/6 (dark red) iron concentrations in pore linings	0	8.4	
23.5			100	Clay	5YR 4/6 (yellowish red) moist, plastic, homogeneous clay	0	8.7	
23.5				Clay	2.5Y 6/4 (light yellowish brown) soft, moist clay atop 2.5Y 6/3 (light yellowish brown) weathered limestone; terminated on limestone bedrock	0	9	

Notes: Northing: 4330961.04, Easting: 537067.41. Soil sample (B-3 (22'-23.5') (VOCs, PAHs, PCBs, RCRA 8 Metals)) at 1125.
 Bedrock refusal at 23.5' BGS. Installed piezometer at this location with 10' PVC slotted screen. Total measured piezometer depth = 23.7' BGS
 Insufficient water for groundwater sample collection. Piezometer abandoned and restored with bentonite chips to grade.
 Termination at limestone bedrock. TDD = 23.5'. No visual or olfactory signs of contamination observed.



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log

Log 4 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-4/MW-2	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 22	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
	Sample	Sample No.						
0			100	Silty Clay	2.5Y 5/4 (light olive brown) dry, silty clay with 2.5Y 7/1 (light gray) depleted matrix	0.0	4.0	
2				Silty Clay	10YR 5/6 (yellowish brown) dry, sandy clay with sparse 7.5R 5/8 (light red) iron concentrations in pore linings	0.0	4.2	
4			100	Clay	10YR 5/8 (yellowish brown) compact, dry clay with 10YR 6/1 (gray) depleted matrix and 7.5YR 5/8 iron concentrations, more gray with depth	0.0	3.3	
6				Clay	10YR 5/8 (yellowish brown) compact, dry clay with 10YR 6/1 (gray) depleted matrix and 7.5YR 5/8 iron concentrations, more gray with depth, more redox features and cherty limestone fragments with depth	0.0	3.1	
8			100	Clay	7.5YR 5/6 (strong brown) soft, silty, homogeneous clay	0.0	2.8	
10				Clay	7.5YR 5/6 (strong brown) soft, silty, homogeneous clay	0.0	2.5	
12			100	Clay	2.5Y 6/3 (light yellowish brown) soft, moist clay with 10YR 5/8 (yellowish brown) iron concentrations in pore linings	0.0	2.6	
14				Clay	10YR 5/8 (yellowish brown) soft, moist clay with 10YR 7/1 (light gray) depleted matrix mottles; less iron concentration with depth, more compact with depth	0.0	2.6	
16			100	Clay	10YR 5/8 (yellowish brown) soft, moist clay with 10YR 7/1 (light gray) depleted matrix mottles; less iron concentration with depth, more compact with depth	0.0	2.8	
18				Clay	7.5YR 4/6 (strong brown) and 2.5Y 5/6 (light olive brown) soft, plastic clay with cherty limestone fragments	0.0	2.8	
20			100	Silty Clay	5Y 6/1 (gray) silty clay with 10YR 6/8 (brownish yellow) iron concentrations in matrix with 10YR 5/1 (gray) weathered limestone at base; boring terminated on limestone bedrock	0.0	2.7	
22								

Notes: Northing: 4330970.25, Easting: 537253.65. Soil sample (B-4 (20'-22') (VOCs, PAHs, PCBs, RCRA 8 Metals)) at 1218.
 Bedrock refusal at 22' BGS. Installed piezometer at this location with 10' PVC slotted screen. Total measured piezometer depth = 22.2' BGS.
 Insufficient water for groundwater sample collection. Piezometer abandoned and restored with bentonite chips to grade.
 Termination on limestone bedrock. TDD = 22'. No visual or olfactory signs of contamination.



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log Log 5 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-5	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 25	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
	Sample	Sample No.						
0	B-5 (8'-10') (VOCs, PAHs, RCRA 8 Metals, PCBs)	1415	70	Silty Loam	10YR 5/4 (yellowish brown) dry silty loam	0	3.1	N/A
2				Silty Clay	10YR 5/4 (yellowish brown) compact dry silty clay with 2.5YR 4/8 (red) iron concentrations in the pore lining	0	3.1	
4				Silty Clay	10YR 5/4 (yellowish brown) compact dry silty clay with 2.5YR 4/8 (red) iron concentrations in the pore lining; more red in matrix with depth	0	3.2	
6			55	Clay	2.5YR 3/6 (dark red) tight compact clay with cherty limestone fragments and 10YR 5/8 (yellowish brown) mottles; more 10YR 5/8 (yellowish brown) mottles with depth	0.4	3.3	
8						0.6	3.4	
10						0.5	3.5	
12			100	Clay	2.5YR 3/6 (dark red) tight compact clay with cherty limestone fragments and 10YR 5/8 (yellowish brown) mottles; more 10YR 5/8 (yellowish brown) mottles and 10YR 2/1 (black) manganese concentrations with depth; more compact and plastic with depth	0.1	3.5	
14						0	3.5	
16			100	Clay	5YR 4/6 (yellowish red) tight compact plastic clay with 2.5Y 6/6 (olive yellow) redox in matrix and 2.5Y 2.5/1 (black) redox in pore lining	0	4.5	
18			100	Clay	2.5YR 6/8 (light red) and 2.5Y 5/6 (light olive brown) soft plastic clay with 2.5Y 2.5/1 (black) manganese concentrations in pore lining; more 2.5Y 5/6 (light olive brown) with depth	0.1	4.8	
20						0.2	6.4	
22			100	Clay	2.5YR 6/8 (light red) and 2.5Y 5/6 (light olive brown) soft plastic clay with 2.5Y 2.5/1 (black) manganese concentrations in pore lining; more 2.5Y 5/6 light olive brown with depth; softer and more moist with depth	0.1	5.1	
24	0.1	4.8						

Notes: Northing: 4330688.35, Easting: 537202.86. Soil sample (B-5 (8'-10') (VOCs, PAHs, RCRA 8 Metals, PCBs) at 1415.
 The drill rig was having hydraulic issues at the 16'-18' interval. 16'-18' and 18'-20' intervals were drilled in two pushes.
 MS/MSD collected at this location. No signs of visual or olfactory contamination. No signs of groundwater; no piezometer installed.
 Termination on limestone bedrock. TDD = 25'.



VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log Log 6 of 6

Project: Monroe County - Fullerton Pike	Boring Log/Well #: B-6	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: Bloomington, Indiana	Date Started: 08/29/2022	Date Finished: 08/29/2022
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev.: N/A	Groundwater Elev.: N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 32	Depth to Water (ft): N/A
Driller: Mike Todd	PID (ppm): MiniRAE 3000+	FID (ppm): TV A-10008

DEPTH (feet)	SAMPLES		REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM	
	Sample	Sample No.							
0			75	Silty Loam	10YR 5/6 (yellowish brown) silt loam with 10YR 6/1 (gray) mottles	0.0	3.9	N/A	
2							0.0		4.1
4			100	Silty Clay	10YR 5/8 (yellowish brown) silty clay with 10YR 5/1 (gray) mottles	0.0	4.0		
6					Clay	7.5YR 5/8 (strong brown) clay with 10YR 5/8 (yellowish brown) cherty limestone fragments; softer and more moist with depth	0.0		3.7
8			100	Clay	7.5YR 5/8 (strong brown) clay with 10YR 5/8 (yellowish brown) cherty limestone fragments; softer and more moist and less rock fragments with depth	0.0	4.0		
10					Clay	7.5YR 5/8 (strong brown) homogeneous soft plastic clay	0.0		4.1
12					Clay	7.5YR 5/8 (strong brown) homogeneous soft plastic clay with cherty limestone fragments	0.0		4.4
14			100	Clay	7.5YR 5/8 (strong brown) homogeneous soft plastic clay with cherty limestone fragments	0.0	4.4		
16					Clay	7.5YR 5/8 (strong brown) compact and plastic clay with cherty limestone fragments	0.0		4.5
18			100	Clay	2.5YR 4/6 (red) and 2.5Y 6/6 (olive yellow) compact plastic clay; less olive yellow with depth	0.0	5.4		
20						0.0	5.5		
22			100	Clay	2.5YR 4/6 (red) and 2.5Y 6/6 (olive yellow) compact plastic clay with cherty limestone fragments	0.0	5.8		
24						0.0	5.4		
26						0.0	4.8		
28			100	Clay	7.5YR 5/8 (strong brown) and 2.5Y 6/8 (olive yellow) compact plastic clay	0.0	4.3		
30			100	Silty Clay	2.5Y 5/4 (light olive brown) moist silty clay	0.0	3.6		
32					Silty Clay	2.5Y 6/1 (gray) silty clay with weathered limestone fragments; boring terminated at 32'	0.0	3.4	

Notes: Northing: 4330516.80, Easting: 537137.37. Soil sample (B-6 (30'-32')) (VOCs, PAHs, RCRA 8 Metals, PCBs) at 1533.
 No evidence of groundwater; no piezometer installed. No visual or olfactory signs of contamination. Boring terminated at 32' depth.
 No evidence of groundwater or bedrock. TDD = 32'

ATTACHMENT 3

**Health and Safety Plan
Phase II Environmental Investigation**

**South State Road 37 and West Fullerton Pike
Bloomington, Indiana 47403**

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 22-51

1.0 INTRODUCTION 1

2.0 HEALTH AND SAFETY TRAINING..... 1

3.0 MEDICAL MONITORING..... 1

4.0 KEY PERSONNEL AND PROJECT TEAM..... 1

5.0 SITE CHARACTERISTICS AND BACKGROUND 2

6.0 SCOPE OF PROJECT 2

7.0 HAZARD EVALUATION 3

 7.1 Physical Hazards 3

 7.2 Chemical Hazards..... 3

8.0 PERSONAL PROTECTIVE EQUIPMENT (PPE) 3

 8.1 Levels of Protection..... 3

 8.2 Air Monitoring..... 4

9.0 FIRST AID..... 4

10.0 EMERGENCY INFORMATION..... 4

 10.1 Hospital Information..... 4

 10.2 Emergency Contacts 4

11.0 HAZARD COMMUNICATION TAILGATE MEETING 4

12.0 HASP REVIEW AND MODIFICATION..... 5



LIST OF TABLES IN NARRATIVE

TABLE A: KEY PERSONNEL

TABLE B: REQUIRED LEVEL OF PROTECTION

TABLE C: EMERGENCY CONTACTS

LIST OF APPENDICES

APPENDIX A: PHYSICAL HAZARDS

APPENDIX B: CHEMICAL HAZARDS

APPENDIX C: HOSPITAL INFORMATION AND DIRECTIONS

APPENDIX D: TRAINING RECORD



1.0 INTRODUCTION

Activities on sites where hazardous waste or constituents may be present must meet the requirements of a site-specific Health and Safety Plan (HASP) prepared in accordance with the Occupational Safety and Health Administration (OSHA) standards, 29 CFR 1910.120 and 29 CFR 1926.65 (HAZWOPER). The purpose of this HASP is to comply with the provisions of the OSHA General Industry and Construction Industry standards, and to define the requirements and designate protocols to be followed for investigative activities at South State Road 37 and West Fullerton Pike, Bloomington, Indiana (Site). The procedures and guidelines herein were based on the best available information at the time of HASP preparation. Specific requirements will be revised when new information is received or when Site conditions change. It is the responsibility of all field team members to evaluate the work conditions of the Site and request assistance from the Site Safety Officer (SSO) if safety protocols are unclear. Compliance with this plan is mandatory for all on-Site personnel.

Site personnel will be informed by the SSO of the Site emergency response procedures and any potential fire, explosion, health, or safety hazards to this operation. If an unsafe or hazardous condition is observed by the SSO or by the Indiana Department of Environmental Management (IDEM) during a Site inspection, work activities will be suspended immediately until the situation is corrected and/or the appropriate safety equipment is obtained to complete the work properly.

2.0 HEALTH AND SAFETY TRAINING

OSHA requires that personnel who will operate in hazardous work areas be trained according to the requirements of 29 CFR 1910.120 and 29 CFR 1926.65. This project is considered to be a hazardous work area. All personnel (including visitors) entering hazardous work areas will be required to have at least 40 hours of hazardous waste operations health and safety training (HAZWOPER) and appropriate 8-hour refresher training (HAZWOPER Refresher) in accordance with OSHA regulations outlined in 29 CFR 1910.120. Training documentation for VET Environmental Engineering, LLC (VET) personnel is on file at the VET office located at 2335 West Fountain Drive, Bloomington, Indiana 47404.

3.0 MEDICAL MONITORING

Medical surveillance will not be performed.

4.0 KEY PERSONNEL AND PROJECT TEAM

TABLE A. KEY PERSONNEL		
Team Member	Responsibility	Telephone Number
VET Environmental Engineering, LLC	Consultant and Prime Contractor	(812) 822-0400
Sara Hamidovic, MS, PE, CHMM, CPESC	Site Safety Office and Principal Engineer	(812) 327-2838
Evan Owings	Project Manager	(513) 550-2667



5.0 SITE CHARACTERISTICS AND BACKGROUND

The Site is currently vacant. A review of aerial photography indicates that the Site may have most recently been utilized as a staging area for equipment during the construction of Interstate 69. The Site is the proposed location of a new municipal development project for Monroe County, Indiana. This HASP is for soil and groundwater investigations at the Site. The purpose of the investigation is to determine the presence or absence of contamination on-Site associated with the potential fill material observed on the Site's northern boundary.

6.0 SCOPE OF PROJECT

VET subcontracted Strata Environmental Contractors, LLC (Strata) to advance six subsurface soil borings utilizing Geoprobe direct push technology. VET will conduct subsurface soil sampling to identify the presence or absence of problematic conditions resulting from potential impacts associated with observed fill material on-Site. Soil boring sample locations will be located and mapped utilizing a Trimble Geo7X GPS unit.

Soil samples collected will be field classified according to the USDA classification system. Field logs will be prepared detailing the presence of fill, soil classification, color (identified with Munsell Chart), moisture, texture, and conditions including the presence of petroleum staining and atypical odors. VET personnel will conduct field screening of media collected from each boring utilizing a photoionization detector (PID) and portable flame ionization detector (FID). Elevated PID and/or FID readings may indicate the presence of impacted soils and will guide selection of the depth interval to be sampled for analytical testing.

Soil samples will be submitted for laboratory analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) 8 Metals, and polychlorinated biphenyls (PCBs). All samples will be transported to the Eurofins Test America Laboratory in University Park, Illinois for analysis.

Temporary monitoring wells will be installed, and groundwater sample collection attempted at three soil boring locations. A groundwater sampling event will be conducted to determine both groundwater flow direction and presence or absence of contamination at the selected locations. Groundwater samples will be submitted for laboratory analysis of VOCs, PAHs, PCBs, and RCRA 8 Metals. Samples for RCRA 8 Metals will be sampled as one field filtered and one unfiltered sample to reduce generation of false positive results. Elevated concentrations of metals are often reported when collecting samples from temporary monitoring wells due to presence of large quantities of suspended sediment. The filtered sample will serve to eliminate uncertainty with regard to suspended metals and provide a more definitive concentration of dissolved metals. All samples will be transported to the Eurofins Test America Laboratory in University Park, Illinois for analysis.



7.0 HAZARD EVALUATION

7.1 Physical Hazards

Investigative activities require field personnel to conduct sampling activities in the vicinity of heavy machinery and physical hazards are anticipated. Physical hazards anticipated at the Site include: heavy equipment operations, impact and eye injury hazards; inclement weather; slip, trip and fall hazards; heat stress; vehicle traffic; and elevated noise level hazards. Allowing only trained and qualified individuals to enter the work zones will minimize exposure to these physical hazards. Safe work practices, in compliance with this document and applicable OSHA standards, are required at all times. **Appendix A** details the anticipated physical hazards and applicable control measures for each identified hazard.

7.2 Chemical Hazards

Chemical hazards associated with sample collection for analysis of VOCs, PAHs, RCRA 8 Metals, and PCBs are anticipated. **Appendix B** includes the uses, target organs, and potential health effects associated with the chemical hazards anticipated on-Site.

8.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.1 Levels of Protection

The level of protection required for each job task associated with the project is detailed in **Table B**. Level C and Level D are the most common levels of protection required for investigations conducted by VET. Level D requires (a) normal work clothes or coveralls; (b) Tyvek coveralls (as needed for protection from soiling); (c) steel toed work boots; (d) hard hat (as needed); (e) hearing protection (as needed); and (f) safety glasses or goggles (as needed). Level C requires all PPE needed for Level D protection in addition to (a) latex inner gloves; (b) outer boots or boot covers (latex); (c) outer gloves (Nitrile); and (c) NIOSH certified full-face or half face air purifying respirator with Organic Vapor/High Efficiency Particulate filter cartridges.

TABLE B. REQUIRED LEVEL OF PROTECTION	
Job Task	Level of Protection
Drilling Activities	D
Soil Sampling	D
Groundwater Sampling	D

Changes to the specified levels of protection shall be at the direction of the SSO. The level of personal protection provided by the personal protective equipment (PPE) selection shall be upgraded or downgraded based upon a change in Site conditions or investigative findings. Other indicators of the need for reassessment include (a) commencement of a new work phase; (b) change in job tasks during a work phase; (c) change of season or weather; (d) contaminants other than those previously identified are



encountered; (e) change in ambient levels of contaminants; and (f) change in work scope that affects the degree of contact with contaminants.

8.2 Air Monitoring

Air monitoring will be not conducted during this project.

9.0 FIRST AID

Immediate first aid actions are recommended in the event exposure to contamination occurs through the eyes, skin, respiratory tract (mouth, nose, and/or throat), and/or through ingestion. VET personnel will maintain a National Institute for Occupational Safety and Health (NIOSH) Pocket Guide to Chemical Hazards (Pocket Guide) on-Site at all times. The Pocket Guide includes recommended first aid actions for specific chemicals and/or substances commonly found in industrial settings. Field personnel shall refer to the Pocket Guide in the event that contamination exposure occurs and carry out the recommended first aid actions.

10.0 EMERGENCY INFORMATION

10.1 Hospital Information

The nearest hospital is the Indiana University (IU) Health Bloomington Hospital located at 2651 East Discovery Parkway, Bloomington, Indiana. A map and driving directions to the hospital are included as **Appendix C**.

10.2 Emergency Contacts

The applicable emergency contacts for the project are listed in **Table C**.

TABLE C. EMERGENCY CONTACTS	
Contact	Telephone Number
Nearest telephone	On-Site; VET personnel cell phone (812) 327-2838
Ambulance	911
Poison control center	(800) 222-1222
Police	911
Fire	911
IDEM Spill Hotline	(888) 233-7745

11.0 HAZARD COMMUNICATION TAILGATE MEETING

A hazard communication tailgate meeting will be performed before work activities at the Site. All employees will be briefed of the specified hazards associated with the Site. Employees will be briefed on



general safety items including (a) use of the “buddy system” at all times when in the work zone; (b) avoid contact with potentially contaminated surfaces; (c) walk around and not through puddles or discolored soil areas; (d) eating, drinking, and smoking are prohibited in the work zones; and (e) Site personnel must not modify the PPE indicated in this HASP without prior approval from the SSO.

12.0 HASP REVIEW AND MODIFICATION

This HASP is a living document. It is intended to reflect the anticipated Site conditions during the investigation. All Site personnel will read this HASP, will be briefed by the SSO on its contents, and will be familiar with its provisions. Each person signing the HASP Training Record (**Appendix D**) certifies understanding of this HASP and its requirements.



**APPENDIX A. PHYSICAL HAZARDS
HEALTH AND SAFETY PLAN**

Hazard Description	Potential Result	Control Measure
Heavy equipment operations	<ul style="list-style-type: none"> ○ Impact or crushing injury ○ Head and foot injuries from dropped materials ○ Eye injuries from flying objects 	<ul style="list-style-type: none"> ○ Nonessential workers must stay 20 feet beyond equipment moving areas ○ Operator to wear Level D PPE and seat belt ○ Ensure proper operation of backup alarm and inspect for hydraulic oil leaks ○ Remove defective equipment from service ○ Wear hard hat and steel toe boots, wear safety glasses
Hot ambient temperatures	<ul style="list-style-type: none"> ○ Heat Stress or Heat Stroke 	<ul style="list-style-type: none"> ○ Monitor conditions of workers, consume replacement fluids, consume food, take breaks, seek medical assistance in event of suspected heat stress or heat stroke
Excessive noise levels	<ul style="list-style-type: none"> ○ Hearing loss from equipment operations 	<ul style="list-style-type: none"> ○ Wear proper hearing protection
Slip, trip, fall hazards	<ul style="list-style-type: none"> ○ Impact/crushing injuries 	<ul style="list-style-type: none"> ○ Maintain neat work area, remove identified hazards
Potential biological hazard exposure (blood, bodily fluids)	<ul style="list-style-type: none"> ○ Potentially contract HBV, HIV 	<ul style="list-style-type: none"> ○ Use First Responder Bloodborne Pathogen Spill Kit if required to render Good Samaritan first aid or decontaminate surfaces or equipment ○ Use safe practices to prevent cuts
Stinging and biting insects and/or animals	<ul style="list-style-type: none"> ○ Potentially contract diseases carried insects and animals ○ Welts, cuts, scratches, bites ○ Allergic reaction or fever 	<ul style="list-style-type: none"> ○ Apply bug spray prior to field work and reapply as needed throughout the day ○ Avoid insect and animal habitat (ant hills, thick vegetation, standing water, bee/wasp nests) when possible ○ Check for stings, bites, and/or allergic reactions subsequent to field work
Broken utility line	<ul style="list-style-type: none"> ○ Fire, explosion, electrocution, shock 	<ul style="list-style-type: none"> ○ Contact utility location service and inspect locations for subsurface lines before digging ○ Stop work immediately if a utility is encountered ○ Hand dig within 2 feet of known or suspected subsurface utility line until location is verified ○ Monitor LEL at surface of excavation and stop work if LEL is greater than or equal to 10%
Vehicular traffic	<ul style="list-style-type: none"> ○ Severe impact and crushing injuries, possible death 	<ul style="list-style-type: none"> ○ Be aware of traffic movement patterns ○ Use spotter and flagman when moving drill rig or directing equipment and trucks out of work Site ○ Wear reflective safety vests



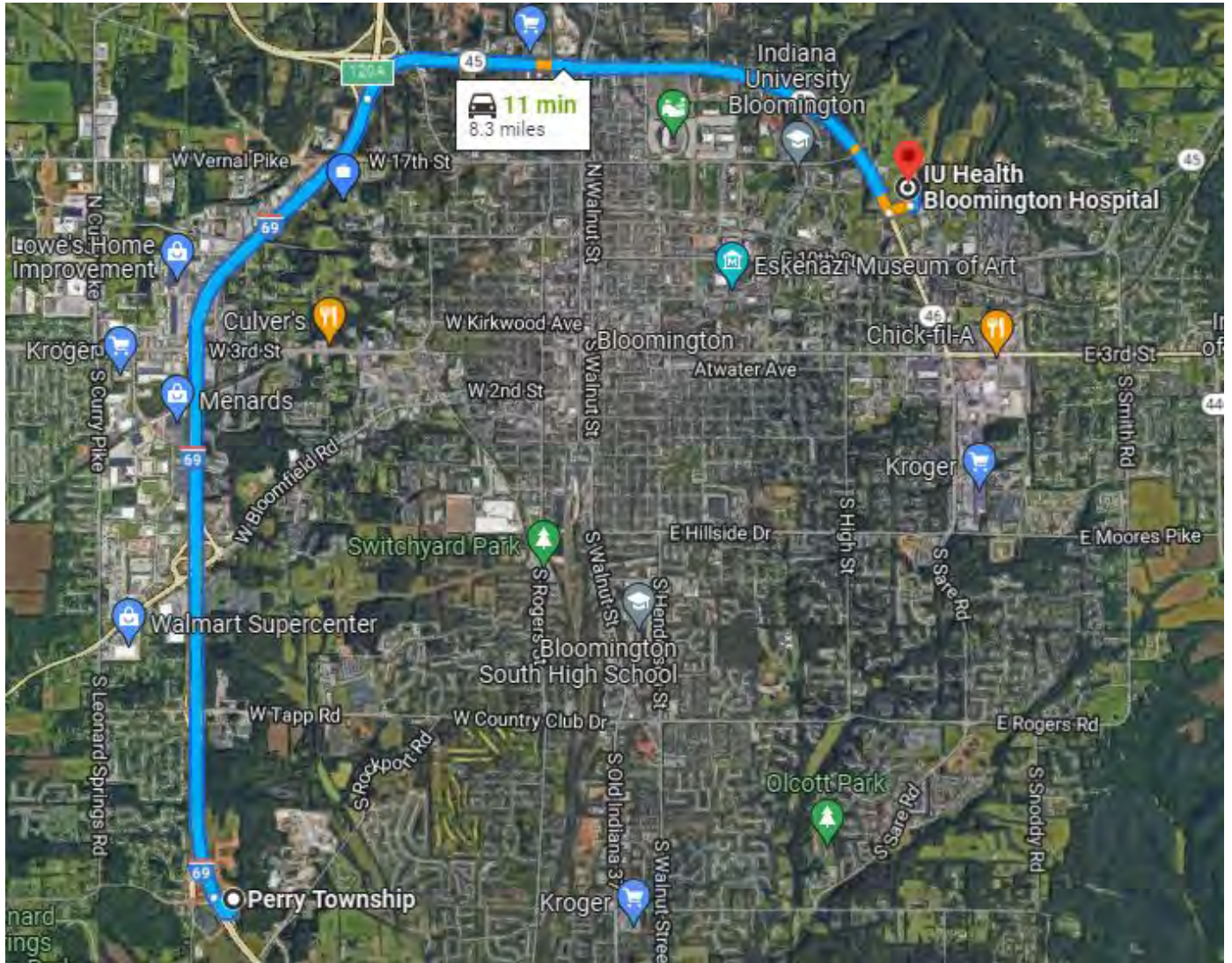
**APPENDIX B. CHEMICAL HAZARDS
HEALTH AND SAFETY PLAN**

Hazardous Substance or Chemical Group	Uses	Target Organs	Potential Health Effects
Polycyclic aromatic hydrocarbons (PAHs)	Agricultural burning, asphalt, insecticides, fungicides, pesticides, burning coal, oil, gasoline, trash, tobacco, wood, and other organic materials, medicines, dyes, plastics	Respiratory System, Central Nervous System, Blood, Liver, and Eyes	Eye irritation, respiratory tract irritation, convulsions, unconsciousness, death, blood and liver abnormalities, suspected carcinogens
Volatile organic compounds (VOCs)	Fuels, paints, solvents, degreasers, smoke, exhaust	Central Nervous System, Eyes, Liver, Kidneys	Eye irritation, respiratory tract irritation, nausea, headache, dizziness, suspected carcinogens
Resource Conservation and Recovery Act (RCRA) 8 Metals: Arsenic Barium Cadmium Chromium Lead (Pb) Mercury Selenium Silver	Commonly found in construction and demolition debris and waste, fossil fuels, mining, and manufacturing of various products <u>Arsenic</u> : Insecticides, algacides, glass manufacturing, herbicides, nonferrous alloys, and wood preservatives <u>Barium</u> : Oil production, fireworks, medical procedures, rat poison, glassware, ceramic glazes, rubber production, radioactive material storage containers, white pigment in some paints, magnets, fluorescent lamps, welding, and automotive ignition and brake systems <u>Cadmium</u> : Batteries, alloys for bearings, low melting alloys, solders, electroplating, picture tubes, and pigments <u>Chromium</u> : Stainless steel and other alloys, plating, catalysts, and pigments <u>Lead</u> : Piping, alloys such as pewter and solder, gasoline, paints, car batteries, electronic screens, cables, sheeting, ammunition, bearings, glassware, and sports equipment <u>Mercury</u> : Historically used in manufacturing processes, batteries, fluorescent lights, felt, thermometers, barometers, and red pigment <u>Selenium</u> : Glass and stainless-steel additives, photocells, solar cells, photocopiers, rectifiers, anti-dandruff shampoos, and pigments for ceramics, paint, and plastics <u>Silver</u> : Jewelry, silver tableware, mirrors, dental alloys, solder and brazing alloys, electrical contacts, batteries, paints, printed circuits, photography, and clothing including gloves	Bones, Brain, Central Nervous System, Intestines, Kidneys, Liver, Lungs, Respiratory System, Reproductive System, and Skin	<u>Arsenic poisoning</u> : Dizziness, headaches, hair loss, vomiting, and cancer resulting from prolonged exposure <u>Barium</u> : Vomiting, cramps, dyspnea, change in blood pressure, numbness, muscle weakness, abnormal heart rhythms, and possibly cancer <u>Cadmium</u> : Flulike symptoms and weakened bone density <u>Chromium</u> : Intestinal and respiratory issues, and cancers <u>Lead</u> : Negative effects on nervous system, cancer, rise in blood pressure, brain and kidney damage, miscarriages, declined fertility in men, hyperactivity, and impulsive behavior <u>Mercury</u> : Negative effects on nervous system, headaches, tremors, and behavioral and mental difficulties <u>Selenium</u> : Nausea, vomiting, nail discoloration, and hair brittleness, fatigue, irritability, and foul breath odor <u>Silver</u> : Argyria (discoloration of skin and other organs) and breathing problems
Polychlorinated biphenyls (PCBS)	Transformers, capacitors, electrical devices and equipment, oils, fluorescent light ballasts, cable and thermal insulation, adhesives, tapes, oil-based paints, caulking, plastics, carbonless copy paper, and floor finish	Central Nervous System, Endocrine System, Immune System, and Reproductive System	Adverse health effects to multiple complex and interrelated body systems (see target organs), known to cause cancer



APPENDIX C. HOSPITAL INFORMATION AND DIRECTIONS
HEALTH AND SAFETY PLAN

Indiana University (IU) Bloomington Health
2651 East Discovery Parkway
Bloomington, Indiana 47408



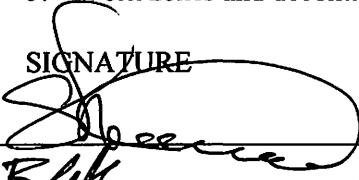


**APPENDIX D. TRAINING RECORD
HEALTH AND SAFETY PLAN**

PERSONNEL ACKNOWLEDGEMENT

The Site Safety Officer (SSO) is responsible for informing all individuals entering the work zone of the contents of this Health and Safety Plan (HASP) and ensuring that each person signs the following acknowledgement form. By signing this form, individuals recognize the hazards present on the Site and the policies and procedures required to minimize exposure or adverse effects.

I have read this HASP, was briefed, and fully understand all the following aspects of the project:

1. Hazards associated with the project;
2. Personal protective equipment;
3. Emergency procedures/contacts;
4. Project team-member responsibilities; and,
5. Work zones and decontamination procedures.

PRINTED NAME	SIGNATURE	REPRESENTING	DATE
Sara R. Harvidoviz		VET	8/29/22
Blake Kalakang		VET	8/29/2022
Evan Owens		VET	8/29/2022



ATTACHMENT 4

ANALYTICAL REPORT

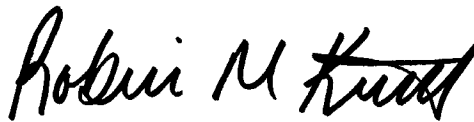
Job Number: 500-221506-1

Job Description: Fullerton Pike

For:

VET Environmental Engineering, LLC
2335 W. Fountain Drive
Bloomington, IN 47404

Attention: Ms. Sara R Hamidovic



Approved for release.
Robin M Kintz
Project Manager II
9/13/2022 5:13 PM

Robin M Kintz, Project Manager II
2417 Bond Street, University Park, IL, 60484
(708)534-5200
Robin.Kintz@et.eurofinsus.com
09/13/2022

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins Chicago

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Table of Contents

Cover Title Page	1
Data Summaries	6
Definitions	6
Case Narrative	7
Detection Summary	8
Client Sample Results	10
Default Detection Limits	33
Surrogate Summary	36
QC Sample Results	38
QC Association	54
Chronicle	58
Certification Summary	62
Method Summary	63
Sample Summary	64
Manual Integration Summary	65
Reagent Traceability	120
COAs	287
Organic Sample Data	519
GC/MS VOA	519
Method 8260B	519
Method 8260B QC Summary	520
Method 8260B Sample Data	558
Standards Data	623
Method 8260B ICAL Data	623
Method 8260B CCAL Data	1729
Raw QC Data	1848

Table of Contents

Method 8260B Tune Data	1848
Method 8260B Blank Data	1890
Method 8260B LCS/LCSD Data	1905
Method 8260B MS/MSD Data	1929
Method 8260B Run Logs	1943
Method 8260B Prep Data	1953
GC/MS Semi VOA	1990
8270E	1990
8270E QC Summary	1991
8270E Sample Data	2005
Standards Data	2060
8270E ICAL Data	2060
8270E Resolution Data	2232
8270E CCAL Data	2238
Raw QC Data	2267
8270E Tune Data	2267
8270E Blank Data	2294
8270E LCS/LCSD Data	2302
8270E MS/MSD Data	2308
8270E Run Logs	2318
8270E Prep Data	2321
GC Semi VOA	2324
Method 8082A	2324
Method 8082A QC Summary	2325
Method 8082A Sample Data	2337
Standards Data	2380

Table of Contents

Method 8082A ICAL Data	2380
Method 8082A CCAL Data	2669
Raw QC Data	2791
Method 8082A Blank Data	2791
Method 8082A LCS/LCSD Data	2798
Method 8082A MS/MSD Data	2805
Method 8082A Run Logs	2823
Method 8082A Prep Data	2829
Inorganic Sample Data	2848
Metals Data	2848
Met Cover Page	2849
Met Sample Data	2850
Met QC Data	2857
Met ICV/CCV	2857
Met CRQL	2861
Met Blanks	2863
Met ICSA/ICSAB	2870
Met MS/MSD/PDS	2874
Met Dup/Trip	2876
Met LCS/LCSD	2877
Met Serial Dilution	2881
Met MDL	2882
Met IECF	2886
Met Linear Ranges	2889
Met Preparation Log	2891
Met Analysis Run Log	2893

Table of Contents

Met Internal Standards	2902
Met Prep Data	2906
Met Raw Data	2910
Shipping and Receiving Documents	3215
Client Chain of Custody	3216
Sample Receipt Checklist	3221

Definitions/Glossary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
500-221506-1

Comments

No additional comments.

Receipt

The samples were received on 8/30/2022 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1° C, 1.9° C and 2.4° C.

GC/MS VOA

Method 8260B: Internal standard (1,4-Dioxane-d8) response was outside of acceptance limits for the following sample: B-1 (6'-8') (500-221506-1), B-2 (2'-4') (500-221506-2) and Dup-1 (500-221506-8). The sample did not have detects of requested analytes using this internal standard.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: B-1 (6'-8') (500-221506-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: B-1 (6'-8') (500-221506-1) and B-2 (2'-4') (500-221506-2).

Method 8082A: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: B-1 (6'-8') (500-221506-1) and B-2 (2'-4') (500-221506-2). 5888523 5501970 5372416

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.10		0.019		mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.018		0.0048		mg/Kg	1	☼	8260B	Total/NA
Ethylbenzene	0.0021		0.0019		mg/Kg	1	☼	8260B	Total/NA
Toluene - DL	3.2		0.016		mg/Kg	50	☼	8260B	Total/NA
Arsenic	6.8		1.3		mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.3		mg/Kg	1	☼	6010B	Total/NA
Chromium	15		1.3		mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.64		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.048		0.020		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		1.1		mg/Kg	1	☼	6010B	Total/NA
Barium	50		1.1		mg/Kg	1	☼	6010B	Total/NA
Chromium	21		1.1		mg/Kg	1	☼	6010B	Total/NA
Lead	9.3		0.54		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.024		0.018		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	18		1.0		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.95		0.21		mg/Kg	1	☼	6010B	Total/NA
Chromium	2.4		1.0		mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.52		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.19		0.019		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		1.1		mg/Kg	1	☼	6010B	Total/NA
Barium	45		1.1		mg/Kg	1	☼	6010B	Total/NA
Cadmium	2.9		0.23		mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.1		mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.56		mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		1.2		mg/Kg	1	☼	6010B	Total/NA
Barium	44	F2	1.2		mg/Kg	1	☼	6010B	Total/NA
Chromium	76	F1 F2	1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	17	F1 F2	0.60		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.063	F1	0.020		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		1.1		mg/Kg	1	☼	6010B	Total/NA
Barium	79		1.1		mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48		0.21		mg/Kg	1	☼	6010B	Total/NA
Chromium	9.6		1.1		mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-6 (30'-32') (Continued)

Lab Sample ID: 500-221506-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.53		mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-221506-7

No Detections.

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.089		0.018		mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.018		0.0045		mg/Kg	1	☼	8260B	Total/NA
Toluene	0.035		0.0018		mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.7		1.2		mg/Kg	1	☼	6010B	Total/NA
Barium	120		1.2		mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.2		mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.59		mg/Kg	1	☼	6010B	Total/NA
Mercury	0.043		0.020		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Date Collected: 08/29/22 10:10

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.10		0.019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Benzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Bromoform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Bromomethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
2-Butanone (MEK)	0.018		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Carbon disulfide	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Carbon tetrachloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Chlorobenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Chlorodibromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Chloroethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Chloroform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Chloromethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
cis-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
cis-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Cyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Dichlorobromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,1-Dichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,2-Dichloroethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,1-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,2-Dichloropropane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,4-Dioxane	<0.097	*3	0.097		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Ethylbenzene	0.0021		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Ethylene Dibromide	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
2-Hexanone	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Isopropylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Methyl acetate	<0.024		0.024		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Methylcyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Methylene Chloride	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
methyl isobutyl ketone	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
2-Methylnaphthalene	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Methyl tert-butyl ether	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Naphthalene	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Styrene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Tetrachloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
trans-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
trans-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,1,1-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,1,2-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Trichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Trichlorofluoromethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,2,4-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
1,3,5-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Vinyl acetate	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Vinyl chloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1
Xylenes, Total	<0.0039		0.0039		mg/Kg	☼	08/30/22 17:13	09/05/22 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	08/30/22 17:13	09/05/22 13:50	1
Dibromofluoromethane	107		75 - 126	08/30/22 17:13	09/05/22 13:50	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	08/30/22 17:13	09/05/22 13:50	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Date Collected: 08/29/22 10:10

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 78.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		75 - 124	08/30/22 17:13	09/05/22 13:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	3.2		0.016		mg/Kg	☼	08/29/22 10:10	09/08/22 15:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		72 - 124	08/29/22 10:10	09/08/22 15:11	50
Dibromofluoromethane	102		75 - 120	08/29/22 10:10	09/08/22 15:11	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 126	08/29/22 10:10	09/08/22 15:11	50
Toluene-d8 (Surr)	96		75 - 120	08/29/22 10:10	09/08/22 15:11	50

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Acenaphthylene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Benzo[a]anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Benzo[a]pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Benzo[b]fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Benzo[g,h,i]perylene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Benzo[k]fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Chrysene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Dibenz(a,h)anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Fluorene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Indeno[1,2,3-cd]pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Naphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Phenanthrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
Pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
1-Methylnaphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1
2-Methylnaphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	97		46 - 137	09/06/22 09:17	09/09/22 14:51	1
Phenol-d5 (Surr)	84		26 - 120	09/06/22 09:17	09/09/22 14:51	1
Nitrobenzene-d5 (Surr)	94		25 - 120	09/06/22 09:17	09/09/22 14:51	1
2-Fluorophenol (Surr)	93		20 - 120	09/06/22 09:17	09/09/22 14:51	1
2-Fluorobiphenyl (Surr)	91		34 - 120	09/06/22 09:17	09/09/22 14:51	1
2,4,6-Tribromophenol (Surr)	91		10 - 120	09/06/22 09:17	09/09/22 14:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1221	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1232	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1242	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1248	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1254	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
PCB-1260	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Date Collected: 08/29/22 10:10

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 78.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	<0.062		0.062		mg/Kg	☼	09/08/22 09:19	09/12/22 11:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	82		10 - 149				09/08/22 09:19	09/12/22 11:05	1
DCB Decachlorobiphenyl	86		10 - 174				09/08/22 09:19	09/12/22 11:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.3		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Barium	110		1.3		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Cadmium	<0.25		0.25		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Chromium	15		1.3		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Lead	17		0.64		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Selenium	<1.3		1.3		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1
Silver	<0.64		0.64		mg/Kg	☼	09/06/22 12:10	09/07/22 17:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020		mg/Kg	☼	09/07/22 14:40	09/08/22 09:21	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Date Collected: 08/29/22 10:22

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Benzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Bromoform	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Bromomethane	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
2-Butanone (MEK)	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Carbon disulfide	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Carbon tetrachloride	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Chlorobenzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Chlorodibromomethane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Chloroethane	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Chloroform	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Chloromethane	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
cis-1,2-Dichloroethene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
cis-1,3-Dichloropropene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Cyclohexane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Dichlorobromomethane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,1-Dichloroethane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,2-Dichloroethane	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,1-Dichloroethene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,2-Dichloropropane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,4-Dioxane	<0.082	*3	0.082		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Ethylbenzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Ethylene Dibromide	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
2-Hexanone	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Isopropylbenzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Methyl acetate	<0.021		0.021		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Methylcyclohexane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Methylene Chloride	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
methyl isobutyl ketone	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
2-Methylnaphthalene	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Methyl tert-butyl ether	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Naphthalene	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Styrene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Tetrachloroethene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Toluene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
trans-1,2-Dichloroethene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
trans-1,3-Dichloropropene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,1,1-Trichloroethane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,1,2-Trichloroethane	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Trichloroethene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Trichlorofluoromethane	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,2,4-Trimethylbenzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
1,3,5-Trimethylbenzene	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Vinyl acetate	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Vinyl chloride	<0.0016		0.0016		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1
Xylenes, Total	<0.0033		0.0033		mg/Kg	☼	08/30/22 17:13	09/05/22 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	08/30/22 17:13	09/05/22 14:16	1
Dibromofluoromethane	111		75 - 126	08/30/22 17:13	09/05/22 14:16	1

Eurofins Chicago

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Date Collected: 08/29/22 10:22

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	08/30/22 17:13	09/05/22 14:16	1
Toluene-d8 (Surr)	93		75 - 124	08/30/22 17:13	09/05/22 14:16	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Acenaphthylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Benzo[a]anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Benzo[a]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Benzo[b]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Benzo[g,h,i]perylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Benzo[k]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Chrysene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Dibenz(a,h)anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Fluorene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Indeno[1,2,3-cd]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Naphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Phenanthrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
Pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
1-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1
2-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	89		46 - 137	09/06/22 09:17	09/09/22 14:07	1
Phenol-d5 (Surr)	83		26 - 120	09/06/22 09:17	09/09/22 14:07	1
Nitrobenzene-d5 (Surr)	67		25 - 120	09/06/22 09:17	09/09/22 14:07	1
2-Fluorophenol (Surr)	75		20 - 120	09/06/22 09:17	09/09/22 14:07	1
2-Fluorobiphenyl (Surr)	72		34 - 120	09/06/22 09:17	09/09/22 14:07	1
2,4,6-Tribromophenol (Surr)	74		10 - 120	09/06/22 09:17	09/09/22 14:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1221	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1232	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1242	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1248	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1254	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
PCB-1260	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1
Polychlorinated biphenyls, Total	<0.056		0.056		mg/Kg	☼	09/08/22 09:19	09/12/22 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	32		10 - 149	09/08/22 09:19	09/12/22 11:23	1
DCB Decachlorobiphenyl	41		10 - 174	09/08/22 09:19	09/12/22 11:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1

Eurofins Chicago

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Date Collected: 08/29/22 10:22

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 86.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	50		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1
Cadmium	<0.22		0.22		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1
Chromium	21		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1
Lead	9.3		0.54		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1
Selenium	<1.1		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1
Silver	<0.54		0.54		mg/Kg	☼	09/06/22 12:10	09/07/22 17:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018		mg/Kg	☼	09/07/22 14:40	09/08/22 09:22	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Date Collected: 08/29/22 11:25

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Benzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Bromoform	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Bromomethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
2-Butanone (MEK)	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Carbon disulfide	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Carbon tetrachloride	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Chlorobenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Chlorodibromomethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Chloroethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Chloroform	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Chloromethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Cyclohexane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Dichlorobromomethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,1-Dichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,2-Dichloroethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,1-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,2-Dichloropropane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,4-Dioxane	<0.090		0.090		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Ethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Ethylene Dibromide	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
2-Hexanone	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Isopropylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Methyl acetate	<0.022		0.022		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Methylcyclohexane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Methylene Chloride	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
methyl isobutyl ketone	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
2-Methylnaphthalene	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Methyl tert-butyl ether	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Naphthalene	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Styrene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Tetrachloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Toluene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,1,1-Trichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,1,2-Trichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Trichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Trichlorofluoromethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,2,4-Trimethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
1,3,5-Trimethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Vinyl acetate	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Vinyl chloride	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1
Xylenes, Total	<0.0036		0.0036		mg/Kg	☼	08/30/22 17:13	09/05/22 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	08/30/22 17:13	09/05/22 14:42	1
Dibromofluoromethane	110		75 - 126	08/30/22 17:13	09/05/22 14:42	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Date Collected: 08/29/22 11:25

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	08/30/22 17:13	09/05/22 14:42	1
Toluene-d8 (Surr)	92		75 - 124	08/30/22 17:13	09/05/22 14:42	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Acenaphthylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Benzo[a]anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Benzo[a]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Benzo[b]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Benzo[g,h,i]perylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Benzo[k]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Chrysene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Dibenz(a,h)anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Fluorene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Indeno[1,2,3-cd]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Naphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Phenanthrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
Pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
1-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1
2-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	77		46 - 137	09/06/22 09:17	09/09/22 15:13	1
Phenol-d5 (Surr)	53		26 - 120	09/06/22 09:17	09/09/22 15:13	1
Nitrobenzene-d5 (Surr)	67		25 - 120	09/06/22 09:17	09/09/22 15:13	1
2-Fluorophenol (Surr)	37		20 - 120	09/06/22 09:17	09/09/22 15:13	1
2-Fluorobiphenyl (Surr)	76		34 - 120	09/06/22 09:17	09/09/22 15:13	1
2,4,6-Tribromophenol (Surr)	51		10 - 120	09/06/22 09:17	09/09/22 15:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1221	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1232	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1242	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1248	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1254	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
PCB-1260	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1
Polychlorinated biphenyls, Total	<0.064		0.064		mg/Kg	☼	09/08/22 09:19	09/09/22 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	30		10 - 149	09/08/22 09:19	09/09/22 17:05	1
DCB Decachlorobiphenyl	39		10 - 174	09/08/22 09:19	09/09/22 17:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Date Collected: 08/29/22 11:25

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	18		1.0		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1
Cadmium	0.95		0.21		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1
Chromium	2.4		1.0		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1
Lead	15		0.52		mg/Kg	☼	09/06/22 12:10	09/07/22 17:14	1
Selenium	<1.0		1.0		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1
Silver	<0.52		0.52		mg/Kg	☼	09/06/22 12:10	09/08/22 20:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.019		mg/Kg	☼	09/07/22 14:40	09/08/22 09:28	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Date Collected: 08/29/22 12:18

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Benzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Bromoform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Bromomethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
2-Butanone (MEK)	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Carbon disulfide	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Carbon tetrachloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Chlorobenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Chlorodibromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Chloroethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Chloroform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Chloromethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
cis-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
cis-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Cyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Dichlorobromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,1-Dichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,2-Dichloroethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,1-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,2-Dichloropropane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,4-Dioxane	<0.097		0.097		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Ethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Ethylene Dibromide	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
2-Hexanone	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Isopropylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Methyl acetate	<0.024		0.024		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Methylcyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Methylene Chloride	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
methyl isobutyl ketone	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
2-Methylnaphthalene	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Methyl tert-butyl ether	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Naphthalene	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Styrene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Tetrachloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Toluene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
trans-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
trans-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,1,1-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,1,2-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Trichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Trichlorofluoromethane	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,2,4-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
1,3,5-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Vinyl acetate	<0.0048		0.0048		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Vinyl chloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1
Xylenes, Total	<0.0039		0.0039		mg/Kg	☼	08/30/22 17:13	09/05/22 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	08/30/22 17:13	09/05/22 15:08	1
Dibromofluoromethane	105		75 - 126	08/30/22 17:13	09/05/22 15:08	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Date Collected: 08/29/22 12:18

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	08/30/22 17:13	09/05/22 15:08	1
Toluene-d8 (Surr)	93		75 - 124	08/30/22 17:13	09/05/22 15:08	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Acenaphthylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Benzo[a]anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Benzo[a]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Benzo[b]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Benzo[g,h,i]perylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Benzo[k]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Chrysene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Dibenz(a,h)anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Fluorene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Indeno[1,2,3-cd]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Naphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Phenanthrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
Pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
1-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1
2-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	94		46 - 137	09/06/22 09:17	09/09/22 14:29	1
Phenol-d5 (Surr)	75		26 - 120	09/06/22 09:17	09/09/22 14:29	1
Nitrobenzene-d5 (Surr)	77		25 - 120	09/06/22 09:17	09/09/22 14:29	1
2-Fluorophenol (Surr)	46		20 - 120	09/06/22 09:17	09/09/22 14:29	1
2-Fluorobiphenyl (Surr)	85		34 - 120	09/06/22 09:17	09/09/22 14:29	1
2,4,6-Tribromophenol (Surr)	17		10 - 120	09/06/22 09:17	09/09/22 14:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1221	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1232	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1242	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1248	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1254	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
PCB-1260	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1
Polychlorinated biphenyls, Total	<0.063		0.063		mg/Kg	☼	09/08/22 09:19	09/09/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	32		10 - 149	09/08/22 09:19	09/09/22 17:23	1
DCB Decachlorobiphenyl	38		10 - 174	09/08/22 09:19	09/09/22 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Date Collected: 08/29/22 12:18

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 81.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	45		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1
Cadmium	2.9		0.23		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1
Chromium	11		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1
Lead	18		0.56		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1
Selenium	<1.1		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1
Silver	<0.56		0.56		mg/Kg	☼	09/06/22 12:10	09/07/22 17:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	09/07/22 14:40	09/08/22 09:30	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Date Collected: 08/29/22 14:15

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 75.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Benzene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Bromoform	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Bromomethane	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
2-Butanone (MEK)	<0.0052	F2	0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Carbon disulfide	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Carbon tetrachloride	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Chlorobenzene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Chlorodibromomethane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Chloroethane	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Chloroform	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Chloromethane	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
cis-1,2-Dichloroethene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
cis-1,3-Dichloropropene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Cyclohexane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Dichlorobromomethane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,1-Dichloroethane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,2-Dichloroethane	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,1-Dichloroethene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,2-Dichloropropane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,4-Dioxane	<0.10	F1	0.10		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Ethylbenzene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Ethylene Dibromide	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
2-Hexanone	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Isopropylbenzene	<0.0021	F1	0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Methyl acetate	<0.026		0.026		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Methylcyclohexane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Methylene Chloride	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
methyl isobutyl ketone	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
2-Methylnaphthalene	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Methyl tert-butyl ether	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Naphthalene	<0.0052	F1	0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Styrene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Tetrachloroethene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Toluene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
trans-1,2-Dichloroethene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
trans-1,3-Dichloropropene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,1,1-Trichloroethane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,1,2-Trichloroethane	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Trichloroethene	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Trichlorofluoromethane	<0.0052		0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,2,4-Trimethylbenzene	<0.0021	F1	0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
1,3,5-Trimethylbenzene	<0.0021	F1	0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Vinyl acetate	<0.0052	F2	0.0052		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Vinyl chloride	<0.0021		0.0021		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1
Xylenes, Total	<0.0041		0.0041		mg/Kg	☼	08/30/22 17:13	09/05/22 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	08/30/22 17:13	09/05/22 15:34	1
Dibromofluoromethane	107		75 - 126	08/30/22 17:13	09/05/22 15:34	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Date Collected: 08/29/22 14:15

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 75.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	08/30/22 17:13	09/05/22 15:34	1
Toluene-d8 (Surr)	92		75 - 124	08/30/22 17:13	09/05/22 15:34	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Acenaphthylene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Anthracene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Benzo[a]anthracene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Benzo[a]pyrene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Benzo[b]fluoranthene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Benzo[g,h,i]perylene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Benzo[k]fluoranthene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Chrysene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Dibenz(a,h)anthracene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Fluoranthene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Fluorene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Indeno[1,2,3-cd]pyrene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Naphthalene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Phenanthrene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
Pyrene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
1-Methylnaphthalene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1
2-Methylnaphthalene	<0.020		0.020		mg/Kg	☼	09/06/22 09:17	09/09/22 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	84		46 - 137	09/06/22 09:17	09/09/22 16:22	1
Phenol-d5 (Surr)	69		26 - 120	09/06/22 09:17	09/09/22 16:22	1
Nitrobenzene-d5 (Surr)	71		25 - 120	09/06/22 09:17	09/09/22 16:22	1
2-Fluorophenol (Surr)	56		20 - 120	09/06/22 09:17	09/09/22 16:22	1
2-Fluorobiphenyl (Surr)	69		34 - 120	09/06/22 09:17	09/09/22 16:22	1
2,4,6-Tribromophenol (Surr)	35		10 - 120	09/06/22 09:17	09/09/22 16:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1221	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1232	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1242	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1248	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1254	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
PCB-1260	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1
Polychlorinated biphenyls, Total	<0.065		0.065		mg/Kg	☼	09/08/22 09:19	09/09/22 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		10 - 149	09/08/22 09:19	09/09/22 17:41	1
DCB Decachlorobiphenyl	40		10 - 174	09/08/22 09:19	09/09/22 17:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Date Collected: 08/29/22 14:15

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 75.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	44	F2	1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1
Cadmium	<0.24		0.24		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1
Chromium	76	F1 F2	1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1
Lead	17	F1 F2	0.60		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1
Selenium	<1.2		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1
Silver	<0.60		0.60		mg/Kg	☼	09/06/22 12:10	09/07/22 17:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063	F1	0.020		mg/Kg	☼	09/07/22 14:40	09/08/22 09:32	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Date Collected: 08/29/22 15:33

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Benzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Bromoform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Bromomethane	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
2-Butanone (MEK)	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Carbon disulfide	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Carbon tetrachloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Chlorobenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Chlorodibromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Chloroethane	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Chloroform	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Chloromethane	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
cis-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
cis-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Cyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Dichlorobromomethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,1-Dichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,2-Dichloroethane	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,1-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,2-Dichloropropane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,4-Dioxane	<0.093		0.093		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Ethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Ethylene Dibromide	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
2-Hexanone	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Isopropylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Methyl acetate	<0.023		0.023		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Methylcyclohexane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Methylene Chloride	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
methyl isobutyl ketone	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
2-Methylnaphthalene	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Methyl tert-butyl ether	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Naphthalene	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Styrene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Tetrachloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Toluene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
trans-1,2-Dichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
trans-1,3-Dichloropropene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,1,1-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,1,2-Trichloroethane	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Trichloroethene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Trichlorofluoromethane	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,2,4-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
1,3,5-Trimethylbenzene	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Vinyl acetate	<0.0046		0.0046		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Vinyl chloride	<0.0019		0.0019		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1
Xylenes, Total	<0.0037		0.0037		mg/Kg	☼	08/30/22 17:13	09/05/22 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	08/30/22 17:13	09/05/22 16:00	1
Dibromofluoromethane	107		75 - 126	08/30/22 17:13	09/05/22 16:00	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Date Collected: 08/29/22 15:33

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	08/30/22 17:13	09/05/22 16:00	1
Toluene-d8 (Surr)	94		75 - 124	08/30/22 17:13	09/05/22 16:00	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Acenaphthylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Benzo[a]anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Benzo[a]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Benzo[b]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Benzo[g,h,i]perylene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Benzo[k]fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Chrysene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Dibenz(a,h)anthracene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Fluoranthene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Fluorene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Indeno[1,2,3-cd]pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Naphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Phenanthrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
Pyrene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
1-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1
2-Methylnaphthalene	<0.018		0.018		mg/Kg	☼	09/06/22 09:17	09/09/22 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	82		46 - 137	09/06/22 09:17	09/09/22 15:38	1
Phenol-d5 (Surr)	53		26 - 120	09/06/22 09:17	09/09/22 15:38	1
Nitrobenzene-d5 (Surr)	52		25 - 120	09/06/22 09:17	09/09/22 15:38	1
2-Fluorophenol (Surr)	47		20 - 120	09/06/22 09:17	09/09/22 15:38	1
2-Fluorobiphenyl (Surr)	56		34 - 120	09/06/22 09:17	09/09/22 15:38	1
2,4,6-Tribromophenol (Surr)	37		10 - 120	09/06/22 09:17	09/09/22 15:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1221	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1232	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1242	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1248	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1254	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
PCB-1260	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1
Polychlorinated biphenyls, Total	<0.058		0.058		mg/Kg	☼	09/08/22 09:19	09/09/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	33		10 - 149	09/08/22 09:19	09/09/22 18:34	1
DCB Decachlorobiphenyl	41		10 - 174	09/08/22 09:19	09/09/22 18:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Date Collected: 08/29/22 15:33

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	79		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1
Cadmium	0.48		0.21		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1
Chromium	9.6		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1
Lead	15		0.53		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1
Selenium	<1.1		1.1		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1
Silver	<0.53		0.53		mg/Kg	☼	09/06/22 12:10	09/07/22 17:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	09/07/22 14:40	09/08/22 09:40	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-221506-7

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/30/22 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/09/22 13:43	1
Benzene	<0.50		0.50		ug/L			09/09/22 13:43	1
Bromoform	<1.0		1.0		ug/L			09/09/22 13:43	1
Bromomethane	<3.0		3.0		ug/L			09/09/22 13:43	1
2-Butanone (MEK)	<5.0		5.0		ug/L			09/09/22 13:43	1
Carbon disulfide	<2.0		2.0		ug/L			09/09/22 13:43	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/09/22 13:43	1
Chlorobenzene	<1.0		1.0		ug/L			09/09/22 13:43	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/09/22 13:43	1
Chloroethane	<1.0		1.0		ug/L			09/09/22 13:43	1
Chloroform	<2.0		2.0		ug/L			09/09/22 13:43	1
Chloromethane	<1.0		1.0		ug/L			09/09/22 13:43	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:43	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/09/22 13:43	1
Cyclohexane	<1.0		1.0		ug/L			09/09/22 13:43	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:43	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,4-Dioxane	<100		100		ug/L			09/09/22 13:43	1
Ethylbenzene	<0.50		0.50		ug/L			09/09/22 13:43	1
Ethylene Dibromide	<1.0		1.0		ug/L			09/09/22 13:43	1
2-Hexanone	<5.0		5.0		ug/L			09/09/22 13:43	1
Isopropylbenzene	<1.0		1.0		ug/L			09/09/22 13:43	1
Methyl acetate	<5.0		5.0		ug/L			09/09/22 13:43	1
Methylcyclohexane	<1.0		1.0		ug/L			09/09/22 13:43	1
Methylene Chloride	<5.0		5.0		ug/L			09/09/22 13:43	1
methyl isobutyl ketone	<5.0		5.0		ug/L			09/09/22 13:43	1
2-Methylnaphthalene	<5.0		5.0		ug/L			09/09/22 13:43	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			09/09/22 13:43	1
Naphthalene	<1.0		1.0		ug/L			09/09/22 13:43	1
Styrene	<1.0		1.0		ug/L			09/09/22 13:43	1
Tetrachloroethene	<1.0		1.0		ug/L			09/09/22 13:43	1
Toluene	<0.50		0.50		ug/L			09/09/22 13:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:43	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/09/22 13:43	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/09/22 13:43	1
Trichloroethene	<0.50		0.50		ug/L			09/09/22 13:43	1
Trichlorofluoromethane	<1.0		1.0		ug/L			09/09/22 13:43	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			09/09/22 13:43	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			09/09/22 13:43	1
Vinyl acetate	<2.0		2.0		ug/L			09/09/22 13:43	1
Vinyl chloride	<1.0		1.0		ug/L			09/09/22 13:43	1
Xylenes, Total	<1.0		1.0		ug/L			09/09/22 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		09/09/22 13:43	1
Dibromofluoromethane	90		75 - 120		09/09/22 13:43	1

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Client Sample Results

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-221506-7

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/30/22 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		09/09/22 13:43	1
Toluene-d8 (Surr)	92		75 - 120		09/09/22 13:43	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Date Collected: 08/29/22 00:20

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.089		0.018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Benzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Bromoform	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Bromomethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
2-Butanone (MEK)	0.018		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Carbon disulfide	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Carbon tetrachloride	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Chlorobenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Chlorodibromomethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Chloroethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Chloroform	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Chloromethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
cis-1,2-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
cis-1,3-Dichloropropene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Cyclohexane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Dichlorobromomethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,1-Dichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,2-Dichloroethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,1-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,2-Dichloropropane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,4-Dioxane	<0.089	*3	0.089		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Ethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Ethylene Dibromide	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
2-Hexanone	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Isopropylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Methyl acetate	<0.022		0.022		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Methylcyclohexane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Methylene Chloride	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
methyl isobutyl ketone	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
2-Methylnaphthalene	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Methyl tert-butyl ether	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Naphthalene	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Styrene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Tetrachloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Toluene	0.035		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
trans-1,2-Dichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
trans-1,3-Dichloropropene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,1,1-Trichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,1,2-Trichloroethane	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Trichloroethene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Trichlorofluoromethane	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,2,4-Trimethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
1,3,5-Trimethylbenzene	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Vinyl acetate	<0.0045		0.0045		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Vinyl chloride	<0.0018		0.0018		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1
Xylenes, Total	<0.0036		0.0036		mg/Kg	☼	08/30/22 17:13	09/05/22 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	08/30/22 17:13	09/05/22 16:26	1
Dibromofluoromethane	111		75 - 126	08/30/22 17:13	09/05/22 16:26	1

Eurofins Chicago

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	08/30/22 17:13	09/05/22 16:26	1
Toluene-d8 (Surr)	94		75 - 124	08/30/22 17:13	09/05/22 16:26	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Acenaphthylene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Benzo[a]anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Benzo[a]pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Benzo[b]fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Benzo[g,h,i]perylene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Benzo[k]fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Chrysene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Dibenz(a,h)anthracene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Fluoranthene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Fluorene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Indeno[1,2,3-cd]pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Naphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Phenanthrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
Pyrene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
1-Methylnaphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1
2-Methylnaphthalene	<0.019		0.019		mg/Kg	☼	09/06/22 09:17	09/09/22 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	104		46 - 137	09/06/22 09:17	09/09/22 16:00	1
Phenol-d5 (Surr)	78		26 - 120	09/06/22 09:17	09/09/22 16:00	1
Nitrobenzene-d5 (Surr)	91		25 - 120	09/06/22 09:17	09/09/22 16:00	1
2-Fluorophenol (Surr)	83		20 - 120	09/06/22 09:17	09/09/22 16:00	1
2-Fluorobiphenyl (Surr)	90		34 - 120	09/06/22 09:17	09/09/22 16:00	1
2,4,6-Tribromophenol (Surr)	87		10 - 120	09/06/22 09:17	09/09/22 16:00	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1221	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1232	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1242	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1248	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1254	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
PCB-1260	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1
Polychlorinated biphenyls, Total	<0.061		0.061		mg/Kg	☼	09/08/22 09:19	09/09/22 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		10 - 149	09/08/22 09:19	09/09/22 18:51	1
DCB Decachlorobiphenyl	46		10 - 174	09/08/22 09:19	09/09/22 18:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1

Client Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 80.6

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	120		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1
Cadmium	<0.24		0.24		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1
Chromium	14		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1
Lead	18		0.59		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1
Selenium	<1.2		1.2		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1
Silver	<0.59		0.59		mg/Kg	☼	09/06/22 12:10	09/07/22 17:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020		mg/Kg	☼	09/07/22 14:40	09/08/22 09:42	1

Default Detection Limits

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	1.0	0.38	ug/L
1,1,2-Trichloroethane	1.0	0.35	ug/L
1,1-Dichloroethane	1.0	0.41	ug/L
1,1-Dichloroethene	1.0	0.39	ug/L
1,2,4-Trimethylbenzene	1.0	0.36	ug/L
1,2-Dichloroethane	1.0	0.39	ug/L
1,2-Dichloropropane	1.0	0.43	ug/L
1,3,5-Trimethylbenzene	1.0	0.25	ug/L
1,4-Dioxane	100	41	ug/L
2-Butanone (MEK)	5.0	2.1	ug/L
2-Hexanone	5.0	1.6	ug/L
2-Methylnaphthalene	5.0	2.3	ug/L
Acetone	10	1.7	ug/L
Benzene	0.50	0.15	ug/L
Bromoform	1.0	0.48	ug/L
Bromomethane	3.0	0.80	ug/L
Carbon disulfide	2.0	0.45	ug/L
Carbon tetrachloride	1.0	0.38	ug/L
Chlorobenzene	1.0	0.39	ug/L
Chlorodibromomethane	1.0	0.49	ug/L
Chloroethane	1.0	0.51	ug/L
Chloroform	2.0	0.37	ug/L
Chloromethane	1.0	0.32	ug/L
cis-1,2-Dichloroethene	1.0	0.41	ug/L
cis-1,3-Dichloropropene	1.0	0.42	ug/L
Cyclohexane	1.0	0.49	ug/L
Dichlorobromomethane	1.0	0.37	ug/L
Ethylbenzene	0.50	0.18	ug/L
Ethylene Dibromide	1.0	0.39	ug/L
Isopropylbenzene	1.0	0.39	ug/L
Methyl acetate	5.0	2.0	ug/L
methyl isobutyl ketone	5.0	2.2	ug/L
Methyl tert-butyl ether	1.0	0.39	ug/L
Methylcyclohexane	1.0	0.32	ug/L
Methylene Chloride	5.0	1.6	ug/L
Naphthalene	1.0	0.34	ug/L
Styrene	1.0	0.39	ug/L
Tetrachloroethene	1.0	0.37	ug/L
Toluene	0.50	0.15	ug/L
trans-1,2-Dichloroethene	1.0	0.35	ug/L
trans-1,3-Dichloropropene	1.0	0.36	ug/L
Trichloroethene	0.50	0.16	ug/L
Trichlorofluoromethane	1.0	0.43	ug/L
Vinyl acetate	2.0	0.91	ug/L
Vinyl chloride	1.0	0.20	ug/L
Xylenes, Total	1.0	0.22	ug/L

Method: 8260B - Volatile Organic Compounds (GC/MS)

Prep: 5035

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	0.0020	0.00067	mg/Kg
1,1,2-Trichloroethane	0.0020	0.00086	mg/Kg

Default Detection Limits

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Prep: 5035

Analyte	RL	MDL	Units
1,1-Dichloroethane	0.0020	0.00069	mg/Kg
1,1-Dichloroethene	0.0020	0.00069	mg/Kg
1,2,4-Trimethylbenzene	0.0020	0.00070	mg/Kg
1,2-Dichloroethane	0.0050	0.0016	mg/Kg
1,2-Dichloropropane	0.0020	0.00052	mg/Kg
1,3,5-Trimethylbenzene	0.0020	0.00075	mg/Kg
1,4-Dioxane	0.10	0.064	mg/Kg
2-Butanone (MEK)	0.0050	0.0022	mg/Kg
2-Hexanone	0.0050	0.0016	mg/Kg
2-Methylnaphthalene	0.0050	0.0018	mg/Kg
Acetone	0.020	0.0087	mg/Kg
Benzene	0.0020	0.00051	mg/Kg
Bromoform	0.0020	0.00058	mg/Kg
Bromomethane	0.0050	0.0019	mg/Kg
Carbon disulfide	0.0050	0.0010	mg/Kg
Carbon tetrachloride	0.0020	0.00058	mg/Kg
Chlorobenzene	0.0020	0.00074	mg/Kg
Chlorodibromomethane	0.0020	0.00065	mg/Kg
Chloroethane	0.0050	0.0015	mg/Kg
Chloroform	0.0020	0.00069	mg/Kg
Chloromethane	0.0050	0.0020	mg/Kg
cis-1,2-Dichloroethene	0.0020	0.00056	mg/Kg
cis-1,3-Dichloropropene	0.0020	0.00060	mg/Kg
Cyclohexane	0.0020	0.00077	mg/Kg
Dichlorobromomethane	0.0020	0.00041	mg/Kg
Ethylbenzene	0.0020	0.00096	mg/Kg
Ethylene Dibromide	0.0020	0.00076	mg/Kg
Isopropylbenzene	0.0020	0.00072	mg/Kg
Methyl acetate	0.025	0.0066	mg/Kg
methyl isobutyl ketone	0.0050	0.0015	mg/Kg
Methyl tert-butyl ether	0.0020	0.00059	mg/Kg
Methylcyclohexane	0.0020	0.00069	mg/Kg
Methylene Chloride	0.0050	0.0020	mg/Kg
Naphthalene	0.0050	0.0022	mg/Kg
Styrene	0.0020	0.00060	mg/Kg
Tetrachloroethene	0.0020	0.00068	mg/Kg
Toluene	0.00025	0.00015	mg/Kg
Toluene	0.0020	0.00051	mg/Kg
trans-1,2-Dichloroethene	0.0020	0.00089	mg/Kg
trans-1,3-Dichloropropene	0.0020	0.00070	mg/Kg
Trichloroethene	0.0020	0.00068	mg/Kg
Trichlorofluoromethane	0.0050	0.0020	mg/Kg
Vinyl acetate	0.0050	0.0017	mg/Kg
Vinyl chloride	0.0020	0.00089	mg/Kg
Xylenes, Total	0.0040	0.00064	mg/Kg

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Prep: 3540C

Analyte	RL	MDL	Units
1-Methylnaphthalene	0.015	0.0027	mg/Kg
2-Methylnaphthalene	0.015	0.0020	mg/Kg

Default Detection Limits

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Prep: 3540C

Analyte	RL	MDL	Units
Acenaphthene	0.015	0.0029	mg/Kg
Acenaphthylene	0.015	0.0040	mg/Kg
Anthracene	0.015	0.0024	mg/Kg
Benzo[a]anthracene	0.015	0.0034	mg/Kg
Benzo[a]pyrene	0.015	0.0093	mg/Kg
Benzo[b]fluoranthene	0.015	0.0065	mg/Kg
Benzo[g,h,i]perylene	0.015	0.0071	mg/Kg
Benzo[k]fluoranthene	0.015	0.0069	mg/Kg
Chrysene	0.015	0.0015	mg/Kg
Dibenz(a,h)anthracene	0.015	0.0069	mg/Kg
Fluoranthene	0.015	0.0045	mg/Kg
Fluorene	0.015	0.0027	mg/Kg
Indeno[1,2,3-cd]pyrene	0.015	0.0074	mg/Kg
Naphthalene	0.015	0.0024	mg/Kg
Phenanthrene	0.015	0.0022	mg/Kg
Pyrene	0.015	0.0021	mg/Kg

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Prep: 3540C

Analyte	RL	MDL	Units
PCB-1016	0.050	0.022	mg/Kg
PCB-1221	0.050	0.024	mg/Kg
PCB-1232	0.050	0.023	mg/Kg
PCB-1242	0.050	0.019	mg/Kg
PCB-1248	0.050	0.024	mg/Kg
PCB-1254	0.050	0.023	mg/Kg
PCB-1260	0.050	0.022	mg/Kg
Polychlorinated biphenyls, Total	0.050	0.031	mg/Kg

Method: 6010B - Metals (ICP)

Prep: 3050B

Analyte	RL	MDL	Units
Arsenic	1.0	0.34	mg/Kg
Barium	1.0	0.11	mg/Kg
Cadmium	0.20	0.036	mg/Kg
Chromium	1.0	0.50	mg/Kg
Lead	0.50	0.23	mg/Kg
Selenium	1.0	0.59	mg/Kg
Silver	0.50	0.13	mg/Kg

Method: 7471B - Mercury (CVAA)

Prep: 7471B

Analyte	RL	MDL	Units
Mercury	0.017	0.0056	mg/Kg

Surrogate Summary

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-221506-1	B-1 (6'-8')	96	107	111	93
500-221506-2	B-2 (2'-4')	96	111	113	93
500-221506-3	B-3 (22'-23.5')	97	110	113	92
500-221506-4	B-4 (20'-22')	97	105	103	93
500-221506-5	B-5 (8'-10')	96	107	112	92
500-221506-5 MS	B-5 (8'-10')	94	100	104	97
500-221506-5 MSD	B-5 (8'-10')	93	102	100	96
500-221506-6	B-6 (30'-32')	98	107	105	94
500-221506-8	Dup-1	95	111	112	94
LCS 500-673135/4	Lab Control Sample	92	101	98	95
MB 500-673135/6	Method Blank	95	110	108	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-221506-1 - DL	B-1 (6'-8')	109	102	101	96
LCS 500-673569/5	Lab Control Sample	106	96	95	98
MB 500-673569/7	Method Blank	109	100	100	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-221506-7	Trip Blank	104	90	103	92
LCS 500-673843/8	Lab Control Sample	105	94	102	90
MB 500-673843/6	Method Blank	102	92	105	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TPHL (46-137)	PHL (26-120)	NBZ (25-120)	2FP (20-120)	FBP (34-120)	TBP (10-120)
500-221506-1	B-1 (6'-8')	97	84	94	93	91	91
500-221506-2	B-2 (2'-4')	89	83	67	75	72	74
500-221506-3	B-3 (22'-23.5')	77	53	67	37	76	51
500-221506-4	B-4 (20'-22')	94	75	77	46	85	17
500-221506-5	B-5 (8'-10')	84	69	71	56	69	35
500-221506-5 MS	B-5 (8'-10')	75	71	65	73	68	65
500-221506-5 MSD	B-5 (8'-10')	78	56	50	51	63	70
500-221506-6	B-6 (30'-32')	82	53	52	47	56	37
500-221506-8	Dup-1	104	78	91	83	90	87
LCS 240-541390/24-A	Lab Control Sample	92	92	86	92	89	76
MB 240-541390/23-A	Method Blank	92	83	82	73	85	47

Surrogate Legend

TPHL = Terphenyl-d14 (Surr)
 PHL = Phenol-d5 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 2FP = 2-Fluorophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (10-149)	DCBP1 (10-174)
500-221506-1	B-1 (6'-8')	82	86
500-221506-2	B-2 (2'-4')	32	41
500-221506-3	B-3 (22'-23.5')	30	39
500-221506-4	B-4 (20'-22')	32	38
500-221506-5	B-5 (8'-10')	44	40
500-221506-5 MS	B-5 (8'-10')	55	61
500-221506-5 MSD	B-5 (8'-10')	75	79
500-221506-6	B-6 (30'-32')	33	41
500-221506-8	Dup-1	49	46
LCS 240-541803/19-A	Lab Control Sample	84	94
MB 240-541803/18-A	Method Blank	90	103

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 500-221506-5 MS

Matrix: Solid

Analysis Batch: 673135

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 672742

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result			Result					
Acetone	<0.021		0.0504	0.0591		mg/Kg	☼	117	40 - 150
Benzene	<0.0021		0.0504	0.0428		mg/Kg	☼	85	70 - 125
Bromoform	<0.0021		0.0504	0.0492		mg/Kg	☼	98	68 - 136
Bromomethane	<0.0052		0.0504	0.0440		mg/Kg	☼	87	70 - 130
2-Butanone (MEK)	<0.0052	F2	0.0504	0.0555		mg/Kg	☼	110	47 - 138
Carbon disulfide	<0.0052		0.0504	0.0414		mg/Kg	☼	82	70 - 129
Carbon tetrachloride	<0.0021		0.0504	0.0490		mg/Kg	☼	97	75 - 125
Chlorobenzene	<0.0021		0.0504	0.0402		mg/Kg	☼	80	50 - 150
Chlorodibromomethane	<0.0021		0.0504	0.0469		mg/Kg	☼	93	69 - 125
Chloroethane	<0.0052		0.0504	0.0482		mg/Kg	☼	96	75 - 125
Chloroform	<0.0021		0.0504	0.0467		mg/Kg	☼	93	57 - 135
Chloromethane	<0.0052		0.0504	0.0492		mg/Kg	☼	97	70 - 125
cis-1,2-Dichloroethene	<0.0021		0.0504	0.0441		mg/Kg	☼	87	70 - 125
cis-1,3-Dichloropropene	<0.0021		0.0504	0.0381		mg/Kg	☼	76	70 - 125
Cyclohexane	<0.0021		0.0504	0.0452		mg/Kg	☼	90	70 - 125
Dichlorobromomethane	<0.0021		0.0504	0.0441		mg/Kg	☼	87	67 - 129
1,1-Dichloroethane	<0.0021		0.0504	0.0475		mg/Kg	☼	94	70 - 125
1,2-Dichloroethane	<0.0052		0.0504	0.0492		mg/Kg	☼	98	70 - 130
1,1-Dichloroethene	<0.0021		0.0504	0.0452		mg/Kg	☼	90	70 - 120
1,2-Dichloropropane	<0.0021		0.0504	0.0453		mg/Kg	☼	90	70 - 125
1,4-Dioxane	<0.10	F1	1.01	1.98	F1	mg/Kg	☼	197	70 - 137
Ethylbenzene	<0.0021		0.0504	0.0379		mg/Kg	☼	75	61 - 136
Ethylene Dibromide	<0.0021		0.0504	0.0437		mg/Kg	☼	87	70 - 125
2-Hexanone	<0.0052		0.0504	0.0473		mg/Kg	☼	94	48 - 146
Isopropylbenzene	<0.0021	F1	0.0504	0.0342	F1	mg/Kg	☼	68	70 - 125
Methyl acetate	<0.026		0.101	0.113		mg/Kg	☼	112	70 - 125
Methylcyclohexane	<0.0021		0.0504	0.0405		mg/Kg	☼	80	70 - 125
Methylene Chloride	<0.0052		0.0504	0.0429		mg/Kg	☼	85	70 - 126
methyl isobutyl ketone	<0.0052		0.0504	0.0451		mg/Kg	☼	90	50 - 148
Methyl tert-butyl ether	<0.0021		0.0504	0.0441		mg/Kg	☼	88	50 - 140
m-Xylene & p-Xylene	<0.0041		0.0504	0.0375		mg/Kg	☼	74	53 - 147
o-Xylene	<0.0021	F1	0.0504	0.0371	F1	mg/Kg	☼	73	75 - 125
Styrene	<0.0021		0.0504	0.0367		mg/Kg	☼	73	70 - 125
Tetrachloroethene	<0.0021		0.0504	0.0423		mg/Kg	☼	84	70 - 124
Toluene	<0.0021		0.0504	0.0410		mg/Kg	☼	81	70 - 125
trans-1,2-Dichloroethene	<0.0021		0.0504	0.0447		mg/Kg	☼	89	70 - 125
trans-1,3-Dichloropropene	<0.0021		0.0504	0.0389		mg/Kg	☼	77	70 - 125
1,1,1-Trichloroethane	<0.0021		0.0504	0.0473		mg/Kg	☼	94	70 - 128
1,1,2-Trichloroethane	<0.0021		0.0504	0.0473		mg/Kg	☼	94	70 - 125
Trichloroethene	<0.0021		0.0504	0.0434		mg/Kg	☼	86	70 - 125
Trichlorofluoromethane	<0.0052		0.0504	0.0499		mg/Kg	☼	99	70 - 134
1,2,4-Trimethylbenzene	<0.0021	F1	0.0504	0.0321	F1	mg/Kg	☼	64	75 - 125
1,3,5-Trimethylbenzene	<0.0021	F1	0.0504	0.0327	F1	mg/Kg	☼	65	75 - 122
Vinyl acetate	<0.0052	F2	0.0504	0.0214		mg/Kg	☼	42	40 - 153
Vinyl chloride	<0.0021		0.0504	0.0474		mg/Kg	☼	94	70 - 125
Xylenes, Total	<0.0041		0.101	0.0746		mg/Kg	☼	74	53 - 147

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-221506-5 MS

Matrix: Solid

Analysis Batch: 673135

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 672742

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	97		75 - 124

Lab Sample ID: 500-221506-5 MSD

Matrix: Solid

Analysis Batch: 673135

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 672742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Acetone	<0.021		0.0512	0.0464		mg/Kg	☼	91	40 - 150	24	30	
Benzene	<0.0021		0.0512	0.0463		mg/Kg	☼	90	70 - 125	8	30	
Bromoform	<0.0021		0.0512	0.0500		mg/Kg	☼	98	68 - 136	2	30	
Bromomethane	<0.0052		0.0512	0.0444		mg/Kg	☼	87	70 - 130	1	30	
2-Butanone (MEK)	<0.0052	F2	0.0512	0.0348	F2	mg/Kg	☼	68	47 - 138	46	30	
Carbon disulfide	<0.0052		0.0512	0.0463		mg/Kg	☼	90	70 - 129	11	30	
Carbon tetrachloride	<0.0021		0.0512	0.0541		mg/Kg	☼	106	75 - 125	10	30	
Chlorobenzene	<0.0021		0.0512	0.0450		mg/Kg	☼	88	50 - 150	11	30	
Chlorodibromomethane	<0.0021		0.0512	0.0494		mg/Kg	☼	96	69 - 125	5	30	
Chloroethane	<0.0052		0.0512	0.0457		mg/Kg	☼	89	75 - 125	5	30	
Chloroform	<0.0021		0.0512	0.0508		mg/Kg	☼	99	57 - 135	8	30	
Chloromethane	<0.0052		0.0512	0.0474		mg/Kg	☼	92	70 - 125	4	30	
cis-1,2-Dichloroethene	<0.0021		0.0512	0.0486		mg/Kg	☼	95	70 - 125	10	30	
cis-1,3-Dichloropropene	<0.0021		0.0512	0.0411		mg/Kg	☼	80	70 - 125	7	30	
Cyclohexane	<0.0021		0.0512	0.0515		mg/Kg	☼	100	70 - 125	13	30	
Dichlorobromomethane	<0.0021		0.0512	0.0474		mg/Kg	☼	92	67 - 129	7	30	
1,1-Dichloroethane	<0.0021		0.0512	0.0522		mg/Kg	☼	102	70 - 125	9	30	
1,2-Dichloroethane	<0.0052		0.0512	0.0522		mg/Kg	☼	102	70 - 130	6	30	
1,1-Dichloroethene	<0.0021		0.0512	0.0510		mg/Kg	☼	100	70 - 120	12	30	
1,2-Dichloropropane	<0.0021		0.0512	0.0465		mg/Kg	☼	91	70 - 125	3	30	
1,4-Dioxane	<0.10	F1	1.02	1.68	F1	mg/Kg	☼	164	70 - 137	17	30	
Ethylbenzene	<0.0021		0.0512	0.0434		mg/Kg	☼	85	61 - 136	14	30	
Ethylene Dibromide	<0.0021		0.0512	0.0457		mg/Kg	☼	89	70 - 125	4	30	
2-Hexanone	<0.0052		0.0512	0.0377		mg/Kg	☼	74	48 - 146	23	30	
Isopropylbenzene	<0.0021	F1	0.0512	0.0395		mg/Kg	☼	77	70 - 125	14	30	
Methyl acetate	<0.026		0.102	0.0984		mg/Kg	☼	96	70 - 125	13	30	
Methylcyclohexane	<0.0021		0.0512	0.0458		mg/Kg	☼	89	70 - 125	12	30	
Methylene Chloride	<0.0052		0.0512	0.0459		mg/Kg	☼	90	70 - 126	7	30	
methyl isobutyl ketone	<0.0052		0.0512	0.0387		mg/Kg	☼	76	50 - 148	15	30	
Methyl tert-butyl ether	<0.0021		0.0512	0.0454		mg/Kg	☼	89	50 - 140	3	30	
m-Xylene & p-Xylene	<0.0041		0.0512	0.0426		mg/Kg	☼	83	53 - 147	13	30	
o-Xylene	<0.0021	F1	0.0512	0.0417		mg/Kg	☼	81	75 - 125	12	30	
Styrene	<0.0021		0.0512	0.0413		mg/Kg	☼	81	70 - 125	12	30	
Tetrachloroethene	<0.0021		0.0512	0.0486		mg/Kg	☼	95	70 - 124	14	30	
Toluene	<0.0021		0.0512	0.0450		mg/Kg	☼	88	70 - 125	9	30	
trans-1,2-Dichloroethene	<0.0021		0.0512	0.0506		mg/Kg	☼	99	70 - 125	12	30	
trans-1,3-Dichloropropene	<0.0021		0.0512	0.0404		mg/Kg	☼	79	70 - 125	4	30	
1,1,1-Trichloroethane	<0.0021		0.0512	0.0531		mg/Kg	☼	104	70 - 128	11	30	

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-221506-5 MSD

Matrix: Solid

Analysis Batch: 673135

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 672742

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
1,1,2-Trichloroethane	<0.0021		0.0512	0.0485		mg/Kg	☼	95	70 - 125	3	30
Trichloroethene	<0.0021		0.0512	0.0480		mg/Kg	☼	94	70 - 125	10	30
Trichlorofluoromethane	<0.0052		0.0512	0.0518		mg/Kg	☼	101	70 - 134	4	30
1,2,4-Trimethylbenzene	<0.0021	F1	0.0512	0.0389		mg/Kg	☼	76	75 - 125	19	30
1,3,5-Trimethylbenzene	<0.0021	F1	0.0512	0.0389		mg/Kg	☼	76	75 - 122	17	30
Vinyl acetate	<0.0052	F2	0.0512	0.0352	F2	mg/Kg	☼	69	40 - 153	49	30
Vinyl chloride	<0.0021		0.0512	0.0488		mg/Kg	☼	95	70 - 125	3	30
Xylenes, Total	<0.0041		0.102	0.0842		mg/Kg	☼	82	53 - 147	12	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	102		75 - 126
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	96		75 - 124

Lab Sample ID: MB 500-673135/6

Matrix: Solid

Analysis Batch: 673135

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.020		0.020		mg/Kg			09/05/22 13:24	1
Benzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Bromoform	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Bromomethane	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
2-Butanone (MEK)	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Carbon disulfide	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Carbon tetrachloride	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Chlorobenzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Chlorodibromomethane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Chloroethane	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Chloroform	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Chloromethane	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
cis-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
cis-1,3-Dichloropropene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Cyclohexane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Dichlorobromomethane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,1-Dichloroethane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
1,1-Dichloroethene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,2-Dichloropropane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,4-Dioxane	<0.10		0.10		mg/Kg			09/05/22 13:24	1
Ethylbenzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Ethylene Dibromide	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
2-Hexanone	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Isopropylbenzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Methyl acetate	<0.025		0.025		mg/Kg			09/05/22 13:24	1
Methylcyclohexane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Methylene Chloride	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1

Eurofins Chicago

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-673135/6
Matrix: Solid
Analysis Batch: 673135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
2-Methylnaphthalene	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Methyl tert-butyl ether	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Naphthalene	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Styrene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Tetrachloroethene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Toluene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
trans-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
trans-1,3-Dichloropropene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,1,1-Trichloroethane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,1,2-Trichloroethane	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Trichloroethene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
1,2,4-Trimethylbenzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
1,3,5-Trimethylbenzene	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Vinyl acetate	<0.0050		0.0050		mg/Kg			09/05/22 13:24	1
Vinyl chloride	<0.0020		0.0020		mg/Kg			09/05/22 13:24	1
Xylenes, Total	<0.0040		0.0040		mg/Kg			09/05/22 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131		09/05/22 13:24	1
Dibromofluoromethane	110		75 - 126		09/05/22 13:24	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		09/05/22 13:24	1
Toluene-d8 (Surr)	96		75 - 124		09/05/22 13:24	1

Lab Sample ID: LCS 500-673135/4
Matrix: Solid
Analysis Batch: 673135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0517		mg/Kg		103	40 - 150
Benzene	0.0500	0.0500		mg/Kg		100	70 - 125
Bromoform	0.0500	0.0541		mg/Kg		108	68 - 136
Bromomethane	0.0500	0.0474		mg/Kg		95	70 - 130
2-Butanone (MEK)	0.0500	0.0508		mg/Kg		102	47 - 138
Carbon disulfide	0.0500	0.0479		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0562		mg/Kg		112	75 - 125
Chlorobenzene	0.0500	0.0548		mg/Kg		110	50 - 150
Chlorodibromomethane	0.0500	0.0532		mg/Kg		106	69 - 125
Chloroethane	0.0500	0.0509		mg/Kg		102	75 - 125
Chloroform	0.0500	0.0532		mg/Kg		106	57 - 135
Chloromethane	0.0500	0.0503		mg/Kg		101	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0461		mg/Kg		92	70 - 125
Cyclohexane	0.0500	0.0514		mg/Kg		103	70 - 125
Dichlorobromomethane	0.0500	0.0513		mg/Kg		103	67 - 129
1,1-Dichloroethane	0.0500	0.0527		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 130

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-673135/4
Matrix: Solid
Analysis Batch: 673135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
1,2-Dichloropropane	0.0500	0.0508		mg/Kg		102	70 - 125
1,4-Dioxane	1.00	0.851		mg/Kg		85	70 - 137
Ethylbenzene	0.0500	0.0533		mg/Kg		107	61 - 136
Ethylene Dibromide	0.0500	0.0501		mg/Kg		100	70 - 125
2-Hexanone	0.0500	0.0405		mg/Kg		81	48 - 146
Isopropylbenzene	0.0500	0.0496		mg/Kg		99	70 - 125
Methyl acetate	0.100	0.0981		mg/Kg		98	70 - 125
Methylcyclohexane	0.0500	0.0485		mg/Kg		97	70 - 125
Methylene Chloride	0.0500	0.0484		mg/Kg		97	70 - 126
methyl isobutyl ketone	0.0500	0.0392		mg/Kg		78	50 - 148
Methyl tert-butyl ether	0.0500	0.0454		mg/Kg		91	50 - 140
m-Xylene & p-Xylene	0.0500	0.0533		mg/Kg		107	53 - 147
o-Xylene	0.0500	0.0527		mg/Kg		105	75 - 125
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
Tetrachloroethene	0.0500	0.0566		mg/Kg		113	70 - 124
Toluene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0525		mg/Kg		105	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125
1,1,1-Trichloroethane	0.0500	0.0547		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 125
Trichloroethene	0.0500	0.0537		mg/Kg		107	70 - 125
Trichlorofluoromethane	0.0500	0.0535		mg/Kg		107	70 - 134
1,2,4-Trimethylbenzene	0.0500	0.0513		mg/Kg		103	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.0507		mg/Kg		101	75 - 122
Vinyl acetate	0.0500	0.0460		mg/Kg		92	40 - 153
Vinyl chloride	0.0500	0.0507		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	95		75 - 124

Lab Sample ID: MB 500-673569/7
Matrix: Solid
Analysis Batch: 673569

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.010		0.010		mg/Kg			09/08/22 10:26	1
Benzene	<0.00025		0.00025		mg/Kg			09/08/22 10:26	1
Bromoform	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Bromomethane	<0.0030		0.0030		mg/Kg			09/08/22 10:26	1
2-Butanone (MEK)	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
Carbon disulfide	<0.0020		0.0020		mg/Kg			09/08/22 10:26	1
Carbon tetrachloride	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Chlorobenzene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1

Eurofins Chicago

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-673569/7

Matrix: Solid

Analysis Batch: 673569

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Chloroethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Chloroform	<0.0020		0.0020		mg/Kg			09/08/22 10:26	1
Chloromethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
cis-1,3-Dichloropropene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Cyclohexane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Dichlorobromomethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,1-Dichloroethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,2-Dichloroethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,1-Dichloroethene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,2-Dichloropropane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,4-Dioxane	<0.10		0.10		mg/Kg			09/08/22 10:26	1
Ethylbenzene	<0.00025		0.00025		mg/Kg			09/08/22 10:26	1
Ethylene Dibromide	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
2-Hexanone	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
Isopropylbenzene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Methyl acetate	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
Methylcyclohexane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Methylene Chloride	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
methyl isobutyl ketone	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
2-Methylnaphthalene	<0.0050		0.0050		mg/Kg			09/08/22 10:26	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Naphthalene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Styrene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Tetrachloroethene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Toluene	<0.00025		0.00025		mg/Kg			09/08/22 10:26	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
trans-1,3-Dichloropropene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,1,1-Trichloroethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Trichloroethene	<0.00050		0.00050		mg/Kg			09/08/22 10:26	1
Trichlorofluoromethane	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,2,4-Trimethylbenzene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
1,3,5-Trimethylbenzene	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Vinyl acetate	<0.0020		0.0020		mg/Kg			09/08/22 10:26	1
Vinyl chloride	<0.0010		0.0010		mg/Kg			09/08/22 10:26	1
Xylenes, Total	<0.00050		0.00050		mg/Kg			09/08/22 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		72 - 124		09/08/22 10:26	1
Dibromofluoromethane	100		75 - 120		09/08/22 10:26	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		09/08/22 10:26	1
Toluene-d8 (Surr)	97		75 - 120		09/08/22 10:26	1

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-673569/5

Matrix: Solid

Analysis Batch: 673569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Acetone	0.0500	0.0568		mg/Kg		114	40 - 143
Benzene	0.0500	0.0453		mg/Kg		91	70 - 120
Bromoform	0.0500	0.0499		mg/Kg		100	56 - 132
Bromomethane	0.0500	0.0404		mg/Kg		81	40 - 152
2-Butanone (MEK)	0.0500	0.0551		mg/Kg		110	46 - 144
Carbon disulfide	0.0500	0.0413		mg/Kg		83	66 - 120
Carbon tetrachloride	0.0500	0.0489		mg/Kg		98	59 - 133
Chlorobenzene	0.0500	0.0467		mg/Kg		93	70 - 120
Chlorodibromomethane	0.0500	0.0483		mg/Kg		97	68 - 125
Chloroethane	0.0500	0.0313		mg/Kg		63	48 - 136
Chloroform	0.0500	0.0422		mg/Kg		84	70 - 120
Chloromethane	0.0500	0.0606		mg/Kg		121	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	64 - 127
Cyclohexane	0.0500	0.0480		mg/Kg		96	69 - 142
Dichlorobromomethane	0.0500	0.0468		mg/Kg		94	69 - 120
1,1-Dichloroethane	0.0500	0.0423		mg/Kg		85	70 - 125
1,2-Dichloroethane	0.0500	0.0457		mg/Kg		91	68 - 127
1,1-Dichloroethene	0.0500	0.0413		mg/Kg		83	67 - 122
1,2-Dichloropropane	0.0500	0.0485		mg/Kg		97	67 - 130
1,4-Dioxane	1.00	0.902		mg/Kg		90	70 - 129
Ethylbenzene	0.0500	0.0471		mg/Kg		94	70 - 123
Ethylene Dibromide	0.0500	0.0466		mg/Kg		93	70 - 125
2-Hexanone	0.0500	0.0476		mg/Kg		95	54 - 146
Isopropylbenzene	0.0500	0.0483		mg/Kg		97	70 - 126
Methyl acetate	0.100	0.0891		mg/Kg		89	56 - 150
Methylcyclohexane	0.0500	0.0483		mg/Kg		97	70 - 120
Methylene Chloride	0.0500	0.0412		mg/Kg		82	69 - 125
methyl isobutyl ketone	0.0500	0.0472		mg/Kg		94	55 - 139
Methyl tert-butyl ether	0.0500	0.0411		mg/Kg		82	55 - 123
m-Xylene & p-Xylene	0.0500	0.0489		mg/Kg		98	70 - 125
o-Xylene	0.0500	0.0472		mg/Kg		94	70 - 120
Styrene	0.0500	0.0475		mg/Kg		95	70 - 120
Tetrachloroethene	0.0500	0.0545		mg/Kg		109	70 - 128
Toluene	0.0500	0.0454		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0422		mg/Kg		84	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0463		mg/Kg		93	62 - 128
1,1,1-Trichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125
1,1,2-Trichloroethane	0.0500	0.0450		mg/Kg		90	71 - 130
Trichloroethene	0.0500	0.0521		mg/Kg		104	70 - 125
Trichlorofluoromethane	0.0500	0.0475		mg/Kg		95	55 - 128
1,2,4-Trimethylbenzene	0.0500	0.0461		mg/Kg		92	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0467		mg/Kg		93	70 - 123
Vinyl acetate	0.0500	0.0393		mg/Kg		79	43 - 133
Vinyl chloride	0.0500	0.0578		mg/Kg		116	64 - 126
Xylenes, Total	0.100	0.0961		mg/Kg		96	70 - 125

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-673569/5

Matrix: Solid

Analysis Batch: 673569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: MB 500-673843/6

Matrix: Water

Analysis Batch: 673843

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<1.0		10		ug/L			09/09/22 13:19	1
Benzene	<0.50		0.50		ug/L			09/09/22 13:19	1
Bromoform	<1.0		1.0		ug/L			09/09/22 13:19	1
Bromomethane	<3.0		3.0		ug/L			09/09/22 13:19	1
2-Butanone (MEK)	<5.0		5.0		ug/L			09/09/22 13:19	1
Carbon disulfide	<2.0		2.0		ug/L			09/09/22 13:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/09/22 13:19	1
Chlorobenzene	<1.0		1.0		ug/L			09/09/22 13:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/09/22 13:19	1
Chloroethane	<1.0		1.0		ug/L			09/09/22 13:19	1
Chloroform	<2.0		2.0		ug/L			09/09/22 13:19	1
Chloromethane	<1.0		1.0		ug/L			09/09/22 13:19	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:19	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/09/22 13:19	1
Cyclohexane	<1.0		1.0		ug/L			09/09/22 13:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/09/22 13:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/09/22 13:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/09/22 13:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/09/22 13:19	1
1,4-Dioxane	<100		100		ug/L			09/09/22 13:19	1
Ethylbenzene	<0.50		0.50		ug/L			09/09/22 13:19	1
Ethylene Dibromide	<1.0		1.0		ug/L			09/09/22 13:19	1
2-Hexanone	<5.0		5.0		ug/L			09/09/22 13:19	1
Isopropylbenzene	<1.0		1.0		ug/L			09/09/22 13:19	1
Methyl acetate	<5.0		5.0		ug/L			09/09/22 13:19	1
Methylcyclohexane	<1.0		1.0		ug/L			09/09/22 13:19	1
Methylene Chloride	<5.0		5.0		ug/L			09/09/22 13:19	1
methyl isobutyl ketone	<5.0		5.0		ug/L			09/09/22 13:19	1
2-Methylnaphthalene	<5.0		5.0		ug/L			09/09/22 13:19	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			09/09/22 13:19	1
Naphthalene	<1.0		1.0		ug/L			09/09/22 13:19	1
Styrene	<1.0		1.0		ug/L			09/09/22 13:19	1
Tetrachloroethene	<1.0		1.0		ug/L			09/09/22 13:19	1
Toluene	<0.50		0.50		ug/L			09/09/22 13:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/09/22 13:19	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/09/22 13:19	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/09/22 13:19	1

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-673843/6
Matrix: Water
Analysis Batch: 673843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/09/22 13:19	1
Trichloroethene	<0.50		0.50		ug/L			09/09/22 13:19	1
Trichlorofluoromethane	<1.0		1.0		ug/L			09/09/22 13:19	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			09/09/22 13:19	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			09/09/22 13:19	1
Vinyl acetate	<2.0		2.0		ug/L			09/09/22 13:19	1
Vinyl chloride	<1.0		1.0		ug/L			09/09/22 13:19	1
Xylenes, Total	<1.0		1.0		ug/L			09/09/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		09/09/22 13:19	1
Dibromofluoromethane	92		75 - 120		09/09/22 13:19	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 13:19	1
Toluene-d8 (Surr)	91		75 - 120		09/09/22 13:19	1

Lab Sample ID: LCS 500-673843/8
Matrix: Water
Analysis Batch: 673843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	48.6		ug/L		97	40 - 143
Benzene	50.0	43.7		ug/L		87	70 - 120
Bromoform	50.0	36.7		ug/L		73	56 - 132
Bromomethane	50.0	35.4		ug/L		71	40 - 152
2-Butanone (MEK)	50.0	47.9		ug/L		96	46 - 144
Carbon disulfide	50.0	39.4		ug/L		79	66 - 120
Carbon tetrachloride	50.0	46.9		ug/L		94	59 - 133
Chlorobenzene	50.0	43.7		ug/L		87	70 - 120
Chlorodibromomethane	50.0	39.6		ug/L		79	68 - 125
Chloroethane	50.0	50.2		ug/L		100	48 - 136
Chloroform	50.0	46.7		ug/L		93	70 - 120
Chloromethane	50.0	46.0		ug/L		92	56 - 152
cis-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	42.6		ug/L		85	64 - 127
Cyclohexane	50.0	48.2		ug/L		96	69 - 142
Dichlorobromomethane	50.0	43.3		ug/L		87	69 - 120
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	48.8		ug/L		98	68 - 127
1,1-Dichloroethene	50.0	42.1		ug/L		84	67 - 122
1,2-Dichloropropane	50.0	46.3		ug/L		93	67 - 130
1,4-Dioxane	1000	1080		ug/L		108	70 - 129
Ethylbenzene	50.0	42.4		ug/L		85	70 - 123
Ethylene Dibromide	50.0	40.9		ug/L		82	70 - 125
2-Hexanone	50.0	44.0		ug/L		88	54 - 146
Isopropylbenzene	50.0	45.2		ug/L		90	70 - 126
Methyl acetate	100	93.3		ug/L		93	56 - 150
Methylcyclohexane	50.0	44.5		ug/L		89	70 - 120
Methylene Chloride	50.0	40.5		ug/L		81	69 - 125

QC Sample Results

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-673843/8
Matrix: Water
Analysis Batch: 673843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
methyl isobutyl ketone	50.0	43.5		ug/L		87	55 - 139
Methyl tert-butyl ether	50.0	45.8		ug/L		92	55 - 123
m-Xylene & p-Xylene	50.0	43.0		ug/L		86	70 - 125
o-Xylene	50.0	42.7		ug/L		85	70 - 120
Styrene	50.0	42.5		ug/L		85	70 - 120
Tetrachloroethene	50.0	43.8		ug/L		88	70 - 128
Toluene	50.0	44.0		ug/L		88	70 - 125
trans-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 125
trans-1,3-Dichloropropene	50.0	42.9		ug/L		86	62 - 128
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	70 - 125
1,1,2-Trichloroethane	50.0	43.6		ug/L		87	71 - 130
Trichloroethene	50.0	46.6		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	50.2		ug/L		100	55 - 128
1,2,4-Trimethylbenzene	50.0	44.8		ug/L		90	70 - 123
1,3,5-Trimethylbenzene	50.0	45.6		ug/L		91	70 - 123
Vinyl acetate	50.0	33.2		ug/L		66	43 - 133
Vinyl chloride	50.0	41.7		ug/L		83	64 - 126
Xylenes, Total	100	85.7		ug/L		86	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
Toluene-d8 (Surr)	90		75 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-541390/23-A
Matrix: Solid
Analysis Batch: 541870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Acenaphthylene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Anthracene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Benzo[a]anthracene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Benzo[a]pyrene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Benzo[b]fluoranthene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Benzo[g,h,i]perylene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Benzo[k]fluoranthene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Chrysene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Dibenz(a,h)anthracene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Fluoranthene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Fluorene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Indeno[1,2,3-cd]pyrene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Naphthalene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Phenanthrene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Pyrene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
1-Methylnaphthalene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1

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QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-541390/23-A
Matrix: Solid
Analysis Batch: 541870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.015		0.015		mg/Kg		09/06/22 09:17	09/08/22 14:45	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	92		46 - 137				09/06/22 09:17	09/08/22 14:45	1
Phenol-d5 (Surr)	83		26 - 120				09/06/22 09:17	09/08/22 14:45	1
Nitrobenzene-d5 (Surr)	82		25 - 120				09/06/22 09:17	09/08/22 14:45	1
2-Fluorophenol (Surr)	73		20 - 120				09/06/22 09:17	09/08/22 14:45	1
2-Fluorobiphenyl (Surr)	85		34 - 120				09/06/22 09:17	09/08/22 14:45	1
2,4,6-Tribromophenol (Surr)	47		10 - 120				09/06/22 09:17	09/08/22 14:45	1

Lab Sample ID: LCS 240-541390/24-A
Matrix: Solid
Analysis Batch: 541870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.667	0.568		mg/Kg		85	52 - 120
Acenaphthylene	0.667	0.523		mg/Kg		78	52 - 120
Anthracene	0.667	0.614		mg/Kg		92	64 - 120
Benzo[a]anthracene	0.667	0.615		mg/Kg		92	70 - 120
Benzo[a]pyrene	0.667	0.547		mg/Kg		82	63 - 125
Benzo[b]fluoranthene	0.667	0.626		mg/Kg		94	64 - 121
Benzo[g,h,i]perylene	0.667	0.608		mg/Kg		91	62 - 120
Benzo[k]fluoranthene	0.667	0.557		mg/Kg		84	63 - 128
Chrysene	0.667	0.581		mg/Kg		87	67 - 120
Dibenz(a,h)anthracene	0.667	0.659		mg/Kg		99	62 - 120
Fluoranthene	0.667	0.601		mg/Kg		90	71 - 124
Fluorene	0.667	0.573		mg/Kg		86	58 - 120
Indeno[1,2,3-cd]pyrene	0.667	0.636		mg/Kg		95	65 - 122
Naphthalene	0.667	0.521		mg/Kg		78	34 - 120
Phenanthrene	0.667	0.575		mg/Kg		86	60 - 120
Pyrene	0.667	0.609		mg/Kg		91	67 - 120
1-Methylnaphthalene	0.667	0.550		mg/Kg		82	44 - 120
2-Methylnaphthalene	0.667	0.514		mg/Kg		77	38 - 120
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
Terphenyl-d14 (Surr)	92		46 - 137				
Phenol-d5 (Surr)	92		26 - 120				
Nitrobenzene-d5 (Surr)	86		25 - 120				
2-Fluorophenol (Surr)	92		20 - 120				
2-Fluorobiphenyl (Surr)	89		34 - 120				
2,4,6-Tribromophenol (Surr)	76		10 - 120				

Lab Sample ID: 500-221506-5 MS
Matrix: Solid
Analysis Batch: 542054

Client Sample ID: B-5 (8'-10')
Prep Type: Total/NA
Prep Batch: 541390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.020		0.896	0.606		mg/Kg	☼	68	33 - 120

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-221506-5 MS

Matrix: Solid

Analysis Batch: 542054

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 541390

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthylene	<0.020		0.896	0.563		mg/Kg	☼	63		39 - 120
Anthracene	<0.020		0.896	0.679		mg/Kg	☼	76		30 - 127
Benzo[a]anthracene	<0.020		0.896	0.653		mg/Kg	☼	73		24 - 137
Benzo[a]pyrene	<0.020		0.896	0.578		mg/Kg	☼	64		28 - 136
Benzo[b]fluoranthene	<0.020		0.896	0.638		mg/Kg	☼	71		21 - 142
Benzo[g,h,i]perylene	<0.020		0.896	0.625		mg/Kg	☼	70		10 - 144
Benzo[k]fluoranthene	<0.020		0.896	0.599		mg/Kg	☼	67		36 - 135
Chrysene	<0.020		0.896	0.627		mg/Kg	☼	70		28 - 129
Dibenz(a,h)anthracene	<0.020		0.896	0.668		mg/Kg	☼	75		10 - 132
Fluoranthene	<0.020		0.896	0.693		mg/Kg	☼	77		31 - 140
Fluorene	<0.020		0.896	0.615		mg/Kg	☼	69		43 - 120
Indeno[1,2,3-cd]pyrene	<0.020		0.896	0.659		mg/Kg	☼	74		10 - 139
Naphthalene	<0.020		0.896	0.502		mg/Kg	☼	56		10 - 120
Phenanthrene	<0.020		0.896	0.649		mg/Kg	☼	72		36 - 120
Pyrene	<0.020		0.896	0.684		mg/Kg	☼	76		31 - 134
1-Methylnaphthalene	<0.020		0.896	0.536		mg/Kg	☼	60		39 - 120
2-Methylnaphthalene	<0.020		0.896	0.501		mg/Kg	☼	56		13 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	75		46 - 137
Phenol-d5 (Surr)	71		26 - 120
Nitrobenzene-d5 (Surr)	65		25 - 120
2-Fluorophenol (Surr)	73		20 - 120
2-Fluorobiphenyl (Surr)	68		34 - 120
2,4,6-Tribromophenol (Surr)	65		10 - 120

Lab Sample ID: 500-221506-5 MSD

Matrix: Solid

Analysis Batch: 542054

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 541390

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<0.020		0.888	0.591		mg/Kg	☼	67		33 - 120	2	45
Acenaphthylene	<0.020		0.888	0.543		mg/Kg	☼	61		39 - 120	4	45
Anthracene	<0.020		0.888	0.675		mg/Kg	☼	76		30 - 127	1	45
Benzo[a]anthracene	<0.020		0.888	0.698		mg/Kg	☼	79		24 - 137	7	42
Benzo[a]pyrene	<0.020		0.888	0.604		mg/Kg	☼	68		28 - 136	4	41
Benzo[b]fluoranthene	<0.020		0.888	0.691		mg/Kg	☼	78		21 - 142	8	42
Benzo[g,h,i]perylene	<0.020		0.888	0.699		mg/Kg	☼	79		10 - 144	11	40
Benzo[k]fluoranthene	<0.020		0.888	0.625		mg/Kg	☼	70		36 - 135	4	44
Chrysene	<0.020		0.888	0.668		mg/Kg	☼	75		28 - 129	6	42
Dibenz(a,h)anthracene	<0.020		0.888	0.759		mg/Kg	☼	86		10 - 132	13	37
Fluoranthene	<0.020		0.888	0.676		mg/Kg	☼	76		31 - 140	3	45
Fluorene	<0.020		0.888	0.623		mg/Kg	☼	70		43 - 120	1	39
Indeno[1,2,3-cd]pyrene	<0.020		0.888	0.733		mg/Kg	☼	83		10 - 139	11	41
Naphthalene	<0.020		0.888	0.425		mg/Kg	☼	48		10 - 120	17	45
Phenanthrene	<0.020		0.888	0.639		mg/Kg	☼	72		36 - 120	2	41
Pyrene	<0.020		0.888	0.698		mg/Kg	☼	79		31 - 134	2	43
1-Methylnaphthalene	<0.020		0.888	0.476		mg/Kg	☼	54		39 - 120	12	40

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QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-221506-5 MSD
Matrix: Solid
Analysis Batch: 542054

Client Sample ID: B-5 (8'-10')
Prep Type: Total/NA
Prep Batch: 541390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	<0.020		0.888	0.417		mg/Kg	☼	47	13 - 122	18	45
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Terphenyl-d14 (Surr)	78		46 - 137								
Phenol-d5 (Surr)	56		26 - 120								
Nitrobenzene-d5 (Surr)	50		25 - 120								
2-Fluorophenol (Surr)	51		20 - 120								
2-Fluorobiphenyl (Surr)	63		34 - 120								
2,4,6-Tribromophenol (Surr)	70		10 - 120								

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-541803/18-A
Matrix: Solid
Analysis Batch: 542067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
PCB-1016	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1221	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1232	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1242	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1248	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1254	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
PCB-1260	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
Polychlorinated biphenyls, Total	<0.050		0.050		mg/Kg		09/08/22 09:19	09/09/22 15:18	1	
MB MB										
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Tetrachloro-m-xylene	90		10 - 149	09/08/22 09:19	09/09/22 15:18	1				
DCB Decachlorobiphenyl	103		10 - 174	09/08/22 09:19	09/09/22 15:18	1				

Lab Sample ID: LCS 240-541803/19-A
Matrix: Solid
Analysis Batch: 542067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	1.00	0.780		mg/Kg		78	28 - 140
PCB-1260	1.00	0.823		mg/Kg		82	39 - 153
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	84		10 - 149				
DCB Decachlorobiphenyl	94		10 - 174				

Lab Sample ID: 500-221506-5 MS
Matrix: Solid
Analysis Batch: 542067

Client Sample ID: B-5 (8'-10')
Prep Type: Total/NA
Prep Batch: 541803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.065		1.27	0.642		mg/Kg	☼	51	10 - 146

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-221506-5 MS
Matrix: Solid
Analysis Batch: 542067

Client Sample ID: B-5 (8'-10')
Prep Type: Total/NA
Prep Batch: 541803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260	<0.065		1.27	0.671		mg/Kg	☼	53	10 - 158
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	55		10 - 149						
DCB Decachlorobiphenyl	61		10 - 174						

Lab Sample ID: 500-221506-5 MSD
Matrix: Solid
Analysis Batch: 542067

Client Sample ID: B-5 (8'-10')
Prep Type: Total/NA
Prep Batch: 541803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
PCB-1016	<0.065		1.30	0.896		mg/Kg	☼	69	10 - 146	33	40
PCB-1260	<0.065		1.30	0.918		mg/Kg	☼	71	10 - 158	31	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	75		10 - 149								
DCB Decachlorobiphenyl	79		10 - 174								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-673245/1-A
Matrix: Solid
Analysis Batch: 673605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 673245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Barium	<1.0		1.0		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Cadmium	<0.20		0.20		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Chromium	<1.0		1.0		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Lead	<0.50		0.50		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Selenium	<1.0		1.0		mg/Kg		09/06/22 12:10	09/07/22 16:55	1
Silver	<0.50		0.50		mg/Kg		09/06/22 12:10	09/07/22 16:55	1

Lab Sample ID: LCS 500-673245/2-A
Matrix: Solid
Analysis Batch: 673605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 673245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.28		mg/Kg		93	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Cadmium	5.00	4.89		mg/Kg		98	80 - 120
Chromium	20.0	18.6		mg/Kg		93	80 - 120
Lead	10.0	9.25		mg/Kg		92	80 - 120
Selenium	10.0	8.77		mg/Kg		88	80 - 120
Silver	5.00	4.23		mg/Kg		85	80 - 120

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-221506-5 MS

Matrix: Solid

Analysis Batch: 673605

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673245

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Arsenic	6.8		12.3	18.7		mg/Kg	☼	96	75 - 125	
Barium	44	F2	246	304		mg/Kg	☼	106	75 - 125	
Cadmium	<0.24		6.16	5.60		mg/Kg	☼	88	75 - 125	
Chromium	76	F1 F2	24.6	108	F1	mg/Kg	☼	131	75 - 125	
Lead	17	F1 F2	12.3	29.1		mg/Kg	☼	101	75 - 125	
Selenium	<1.2		12.3	10.1		mg/Kg	☼	82	75 - 125	
Silver	<0.60		6.16	5.27		mg/Kg	☼	80	75 - 125	

Lab Sample ID: 500-221506-5 MSD

Matrix: Solid

Analysis Batch: 673605

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673245

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Arsenic	6.8		11.3	16.2		mg/Kg	☼	83	75 - 125	14	20
Barium	44	F2	226	245	F2	mg/Kg	☼	89	75 - 125	22	20
Cadmium	<0.24		5.65	5.00		mg/Kg	☼	85	75 - 125	11	20
Chromium	76	F1 F2	22.6	71.8	F1 F2	mg/Kg	☼	-20	75 - 125	41	20
Lead	17	F1 F2	11.3	44.6	F1 F2	mg/Kg	☼	247	75 - 125	42	20
Selenium	<1.2		11.3	8.83		mg/Kg	☼	78	75 - 125	13	20
Silver	<0.60		5.65	5.01		mg/Kg	☼	82	75 - 125	5	20

Lab Sample ID: 500-221506-5 DU

Matrix: Solid

Analysis Batch: 673605

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673245

Analyte	Sample	Sample	DU		Unit	D	%Rec	RPD	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Arsenic	6.8		8.41	F3	mg/Kg	☼		21	20
Barium	44	F2	36.5		mg/Kg	☼		18	20
Cadmium	<0.24		<0.25		mg/Kg	☼		NC	20
Chromium	76	F1 F2	92.8		mg/Kg	☼		20	20
Lead	17	F1 F2	18.1		mg/Kg	☼		8	20
Selenium	<1.2		<1.2		mg/Kg	☼		NC	20
Silver	<0.60		<0.62		mg/Kg	☼		NC	20

Lab Sample ID: LRC 500-673605/19

Matrix: Solid

Analysis Batch: 673605

Client Sample ID: Lab Control Sample

Analyte	Spike Added	LRC		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Barium	5.00	4.92		mg/L		98	90 - 110	
Cadmium	5.00	4.92		mg/L		98	90 - 110	
Chromium	2.00	1.84		mg/L		92	90 - 110	
Lead	5.00	5.03		mg/L		101	90 - 110	
Selenium	5.00	5.14		mg/L		103	90 - 110	

QC Sample Results

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LRC 500-673826/17

Matrix: Solid

Analysis Batch: 673826

Client Sample ID: Lab Control Sample

Analyte	Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec Limits
Barium	5.00	5.04		mg/L		101	90 - 110
Cadmium	5.00	4.88		mg/L		98	90 - 110
Chromium	2.00	1.97		mg/L		99	90 - 110
Lead	5.00	5.06		mg/L		101	90 - 110
Selenium	5.00	5.08		mg/L		102	90 - 110

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-673439/12-A

Matrix: Solid

Analysis Batch: 673625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg		09/07/22 14:40	09/08/22 09:06	1

Lab Sample ID: LCS 500-673439/13-A

Matrix: Solid

Analysis Batch: 673625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.172		mg/Kg		103	80 - 120

Lab Sample ID: 500-221506-5 MS

Matrix: Solid

Analysis Batch: 673625

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.063	F1	0.0984	0.127	F1	mg/Kg	☼	65	75 - 125

Lab Sample ID: 500-221506-5 MSD

Matrix: Solid

Analysis Batch: 673625

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.063	F1	0.0980	0.126	F1	mg/Kg	☼	65	75 - 125	1	20

Lab Sample ID: 500-221506-5 DU

Matrix: Solid

Analysis Batch: 673625

Client Sample ID: B-5 (8'-10')

Prep Type: Total/NA

Prep Batch: 673439

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.063	F1	0.0584		mg/Kg	☼	7	20

QC Association Summary

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

GC/MS VOA

Prep Batch: 672631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1 - DL	B-1 (6'-8')	Total/NA	Solid	5035	

Prep Batch: 672742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	5035	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	5035	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	5035	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	5035	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	5035	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	5035	
500-221506-8	Dup-1	Total/NA	Solid	5035	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	5035	
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	5035	

Analysis Batch: 673135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	8260B	672742
500-221506-2	B-2 (2'-4')	Total/NA	Solid	8260B	672742
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	8260B	672742
500-221506-4	B-4 (20'-22')	Total/NA	Solid	8260B	672742
500-221506-5	B-5 (8'-10')	Total/NA	Solid	8260B	672742
500-221506-6	B-6 (30'-32')	Total/NA	Solid	8260B	672742
500-221506-8	Dup-1	Total/NA	Solid	8260B	672742
MB 500-673135/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-673135/4	Lab Control Sample	Total/NA	Solid	8260B	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	8260B	672742
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	8260B	672742

Analysis Batch: 673569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1 - DL	B-1 (6'-8')	Total/NA	Solid	8260B	672631
MB 500-673569/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-673569/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 673843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-7	Trip Blank	Total/NA	Water	8260B	
MB 500-673843/6	Method Blank	Total/NA	Water	8260B	
LCS 500-673843/8	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 541390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	3540C	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	3540C	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	3540C	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	3540C	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	3540C	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	3540C	
500-221506-8	Dup-1	Total/NA	Solid	3540C	

QC Association Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

GC/MS Semi VOA (Continued)

Prep Batch: 541390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-541390/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-541390/24-A	Lab Control Sample	Total/NA	Solid	3540C	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	3540C	
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	3540C	

Analysis Batch: 541870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-541390/23-A	Method Blank	Total/NA	Solid	8270E	541390
LCS 240-541390/24-A	Lab Control Sample	Total/NA	Solid	8270E	541390

Analysis Batch: 542054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	8270E	541390
500-221506-2	B-2 (2'-4')	Total/NA	Solid	8270E	541390
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	8270E	541390
500-221506-4	B-4 (20'-22')	Total/NA	Solid	8270E	541390
500-221506-5	B-5 (8'-10')	Total/NA	Solid	8270E	541390
500-221506-6	B-6 (30'-32')	Total/NA	Solid	8270E	541390
500-221506-8	Dup-1	Total/NA	Solid	8270E	541390
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	8270E	541390
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	8270E	541390

GC Semi VOA

Prep Batch: 541803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	3540C	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	3540C	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	3540C	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	3540C	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	3540C	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	3540C	
500-221506-8	Dup-1	Total/NA	Solid	3540C	
MB 240-541803/18-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-541803/19-A	Lab Control Sample	Total/NA	Solid	3540C	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	3540C	
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	3540C	

Analysis Batch: 542067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	8082A	541803
500-221506-4	B-4 (20'-22')	Total/NA	Solid	8082A	541803
500-221506-5	B-5 (8'-10')	Total/NA	Solid	8082A	541803
500-221506-6	B-6 (30'-32')	Total/NA	Solid	8082A	541803
500-221506-8	Dup-1	Total/NA	Solid	8082A	541803
MB 240-541803/18-A	Method Blank	Total/NA	Solid	8082A	541803
LCS 240-541803/19-A	Lab Control Sample	Total/NA	Solid	8082A	541803
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	8082A	541803
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	8082A	541803

QC Association Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

GC Semi VOA

Analysis Batch: 542120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	8082A	541803
500-221506-2	B-2 (2'-4')	Total/NA	Solid	8082A	541803

Metals

Prep Batch: 673245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	3050B	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	3050B	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	3050B	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	3050B	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	3050B	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	3050B	
500-221506-8	Dup-1	Total/NA	Solid	3050B	
MB 500-673245/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-673245/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	3050B	
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	3050B	
500-221506-5 DU	B-5 (8'-10')	Total/NA	Solid	3050B	

Prep Batch: 673439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	7471B	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	7471B	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	7471B	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	7471B	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	7471B	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	7471B	
500-221506-8	Dup-1	Total/NA	Solid	7471B	
MB 500-673439/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-673439/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	7471B	
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	7471B	
500-221506-5 DU	B-5 (8'-10')	Total/NA	Solid	7471B	

Analysis Batch: 673605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	6010B	673245
500-221506-2	B-2 (2'-4')	Total/NA	Solid	6010B	673245
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	6010B	673245
500-221506-4	B-4 (20'-22')	Total/NA	Solid	6010B	673245
500-221506-5	B-5 (8'-10')	Total/NA	Solid	6010B	673245
500-221506-6	B-6 (30'-32')	Total/NA	Solid	6010B	673245
500-221506-8	Dup-1	Total/NA	Solid	6010B	673245
MB 500-673245/1-A	Method Blank	Total/NA	Solid	6010B	673245
LCS 500-673245/2-A	Lab Control Sample	Total/NA	Solid	6010B	673245
LRC 500-673605/19	Lab Control Sample		Solid	6010B	
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	6010B	673245
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	6010B	673245
500-221506-5 DU	B-5 (8'-10')	Total/NA	Solid	6010B	673245

QC Association Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Metals

Analysis Batch: 673625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	7471B	673439
500-221506-2	B-2 (2'-4')	Total/NA	Solid	7471B	673439
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	7471B	673439
500-221506-4	B-4 (20'-22')	Total/NA	Solid	7471B	673439
500-221506-5	B-5 (8'-10')	Total/NA	Solid	7471B	673439
500-221506-6	B-6 (30'-32')	Total/NA	Solid	7471B	673439
500-221506-8	Dup-1	Total/NA	Solid	7471B	673439
MB 500-673439/12-A	Method Blank	Total/NA	Solid	7471B	673439
LCS 500-673439/13-A	Lab Control Sample	Total/NA	Solid	7471B	673439
500-221506-5 MS	B-5 (8'-10')	Total/NA	Solid	7471B	673439
500-221506-5 MSD	B-5 (8'-10')	Total/NA	Solid	7471B	673439
500-221506-5 DU	B-5 (8'-10')	Total/NA	Solid	7471B	673439

Analysis Batch: 673826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	6010B	673245
LRC 500-673826/17	Lab Control Sample		Solid	6010B	

General Chemistry

Analysis Batch: 673151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221506-1	B-1 (6'-8')	Total/NA	Solid	Moisture	
500-221506-2	B-2 (2'-4')	Total/NA	Solid	Moisture	
500-221506-3	B-3 (22'-23.5')	Total/NA	Solid	Moisture	
500-221506-4	B-4 (20'-22')	Total/NA	Solid	Moisture	
500-221506-5	B-5 (8'-10')	Total/NA	Solid	Moisture	
500-221506-6	B-6 (30'-32')	Total/NA	Solid	Moisture	
500-221506-8	Dup-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Date Collected: 08/29/22 10:10

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Date Collected: 08/29/22 10:10

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 13:50
Total/NA	Prep	5035	DL		672631	WRE	EET CHI	08/29/22 10:10
Total/NA	Analysis	8260B	DL	50	673569	PSP	EET CHI	09/08/22 15:11
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 14:51
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542120	LSH	EET CAN	09/12/22 11:05
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJJ	EET CHI	09/07/22 17:02
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:21

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Date Collected: 08/29/22 10:22

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Date Collected: 08/29/22 10:22

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 14:16
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 14:07
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542120	LSH	EET CAN	09/12/22 11:23
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJJ	EET CHI	09/07/22 17:11
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:22

Lab Chronicle

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Date Collected: 08/29/22 11:25

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Date Collected: 08/29/22 11:25

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 14:42
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 15:13
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542067	LSH	EET CAN	09/09/22 17:05
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJJ	EET CHI	09/07/22 17:14
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673826	JJJ	EET CHI	09/08/22 20:53
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:28

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Date Collected: 08/29/22 12:18

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Date Collected: 08/29/22 12:18

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 15:08
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 14:29
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542067	LSH	EET CAN	09/09/22 17:23
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJJ	EET CHI	09/07/22 17:18
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:30

Lab Chronicle

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Date Collected: 08/29/22 14:15

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Date Collected: 08/29/22 14:15

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 15:34
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 16:22
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542067	LSH	EET CAN	09/09/22 17:41
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJB	EET CHI	09/07/22 17:21
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:32

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Date Collected: 08/29/22 15:33

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Date Collected: 08/29/22 15:33

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 16:00
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 15:38
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542067	LSH	EET CAN	09/09/22 18:34
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJB	EET CHI	09/07/22 17:37
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:40

Lab Chronicle

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-221506-7

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673843	PSP	EET CHI	09/09/22 13:43

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/30/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673151	LWN	EET CHI	09/06/22 07:43

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/30/22 10:15

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			672742	WRE	EET CHI	08/30/22 17:13
Total/NA	Analysis	8260B		1	673135	W1T	EET CHI	09/05/22 16:26
Total/NA	Prep	3540C			541390	TEC	EET CAN	09/06/22 09:17
Total/NA	Analysis	8270E		1	542054	MRU	EET CAN	09/09/22 16:00
Total/NA	Prep	3540C			541803	TEC	EET CAN	09/08/22 09:19
Total/NA	Analysis	8082A		1	542067	LSH	EET CAN	09/09/22 18:51
Total/NA	Prep	3050B			673245	BDE	EET CHI	09/06/22 12:10 - 09/06/22 12:40 ¹
Total/NA	Analysis	6010B		1	673605	JJB	EET CHI	09/07/22 17:40
Total/NA	Prep	7471B			673439	MJG	EET CHI	09/07/22 14:40
Total/NA	Analysis	7471B		1	673625	MJG	EET CHI	09/08/22 09:42

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: VET Environmental Engineering, LLC
 Project/Site: Fullerton Pike

Job ID: 500-221506-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-22 *
Georgia	State	N/A	04-29-22 *
Georgia (DW)	State	939	04-30-23
Hawaii	State	NA	04-29-23
Illinois	NELAP	IL00035	04-30-23
Indiana	State	C-IL-02	04-29-23
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-22
Kentucky (WW)	State	KY90023	12-31-22
Louisiana	NELAP	02046	06-30-23
Mississippi	State	NA	04-30-22 *
North Carolina (WW/SW)	State	291	12-31-22
North Dakota	State	R-194	04-30-23
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-22 *
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-23
Wyoming	State	8TMS-Q	04-30-22 *

Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CAN
6010B	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3540C	Soxhlet Extraction	SW846	EET CAN
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: VET Environmental Engineering, LLC
Project/Site: Fullerton Pike

Job ID: 500-221506-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221506-1	B-1 (6'-8')	Solid	08/29/22 10:10	08/30/22 10:15
500-221506-2	B-2 (2'-4')	Solid	08/29/22 10:22	08/30/22 10:15
500-221506-3	B-3 (22'-23.5')	Solid	08/29/22 11:25	08/30/22 10:15
500-221506-4	B-4 (20'-22')	Solid	08/29/22 12:18	08/30/22 10:15
500-221506-5	B-5 (8'-10')	Solid	08/29/22 14:15	08/30/22 10:15
500-221506-6	B-6 (30'-32')	Solid	08/29/22 15:33	08/30/22 10:15
500-221506-7	Trip Blank	Water	08/29/22 00:00	08/30/22 10:15
500-221506-8	Dup-1	Solid	08/29/22 00:00	08/30/22 10:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD1 500-638287/3 IC Client Sample ID: _____Date Analyzed: 01/18/22 11:58 Lab File ID: 16b0118a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.84	Peak assignment corrected	ficarello p	01/18/22 14:53
Chloroethane	2.22	Incomplete Integration	ficarello p	01/18/22 14:53
Dichlorofluoromethane	2.44	Incomplete Integration	ficarello p	01/18/22 14:54
1,1-Dichloroethene	2.97	Incomplete Integration	ficarello p	01/18/22 14:54
1,1,2-Trichloro-1,2,2-trifluoroethane	2.99	Incomplete Integration	ficarello p	01/18/22 14:54
3-Chloropropene	3.31	Incomplete Integration	ficarello p	01/18/22 14:54
trans-1,2-Dichloroethene	3.68	Incomplete Integration	ficarello p	01/18/22 14:55
Hexane	3.93	Incomplete Integration	ficarello p	01/18/22 14:55
2,2-Dichloropropane	4.62	Peak assignment corrected	ficarello p	01/18/22 14:57
Bromochloromethane	4.86	Incomplete Integration	ficarello p	01/20/22 09:11
Tetrahydrofuran	4.91	Incomplete Integration	ficarello p	01/18/22 19:05
Cyclohexane	5.18	Incomplete Integration	ficarello p	01/18/22 14:57
Isobutyl alcohol	5.39	Peak assignment corrected	ficarello p	01/18/22 15:00
1,2-Dichloroethane	5.52	Peak assignment corrected	ficarello p	01/18/22 15:00
Heptane	5.77	Peak assignment corrected	ficarello p	01/18/22 15:00
Trichloroethene	6.18	Incomplete Integration	ficarello p	01/18/22 15:35
Dibromomethane	6.55	Incomplete Integration	ficarello p	01/18/22 15:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD1 500-638287/3 IC Client Sample ID: _____Date Analyzed: 01/18/22 11:58 Lab File ID: 16b0118a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorobromomethane	6.72	Incomplete Integration	ficarello p	01/18/22 15:01
Ethyl methacrylate	8.00	Incomplete Integration	ficarello p	01/18/22 15:01
1,3-Dichloropropane	8.31	Incomplete Integration	ficarello p	01/18/22 15:01
Ethylene Dibromide	8.74	Incomplete Integration	ficarello p	01/18/22 15:01
1,1,1,2-Tetrachloroethane	9.46	Incomplete Integration	ficarello p	01/18/22 15:02
1,4-Dioxane		Invalid Compound ID	ficarello p	01/18/22 15:01
2-Butanone (MEK)		Invalid Compound ID	ficarello p	01/18/22 14:57
2-Hexanone		Invalid Compound ID	ficarello p	01/18/22 15:01
Acetone		Invalid Compound ID	ficarello p	01/18/22 14:54
methyl isobutyl ketone		Invalid Compound ID	ficarello p	01/18/22 15:03
Methylene Chloride		Invalid Compound ID	ficarello p	01/18/22 15:03
Styrene	10.16	Peak assignment corrected	ficarello p	01/18/22 15:35
Bromoform	10.36	Incomplete Integration	ficarello p	01/18/22 15:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD2 500-638287/4 IC Client Sample ID: _____Date Analyzed: 01/18/22 12:24 Lab File ID: STD20118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.44	Incomplete Integration	ficarello p	01/18/22 15:03
Trichlorofluoromethane	2.47	Incomplete Integration	ficarello p	01/18/22 15:03
1,1,2-Trichloro-1,2,2-trifluoroethane	2.98	Incomplete Integration	ficarello p	01/18/22 15:03
3-Chloropropene	3.30	Incomplete Integration	ficarello p	01/18/22 15:04
Methyl tert-butyl ether	3.68	Incomplete Integration	ficarello p	01/18/22 15:04
Hexane	3.94	Incomplete Integration	ficarello p	01/18/22 15:04
Vinyl acetate	4.12	Incomplete Integration	ficarello p	01/18/22 15:04
Tetrahydrofuran	4.92	Incomplete Integration	ficarello p	01/18/22 15:04
Heptane	5.77	Incomplete Integration	ficarello p	01/18/22 15:05
Trichloroethene	6.18	Incomplete Integration	ficarello p	01/18/22 15:05
1,2-Dichloropropane	6.42	Incomplete Integration	ficarello p	01/18/22 15:05
Dibromomethane	6.55	Incomplete Integration	ficarello p	01/18/22 15:05
1,4-Dioxane	6.57	Incomplete Integration	ficarello p	01/18/22 15:05
methyl isobutyl ketone	7.41	Incomplete Integration	ficarello p	01/18/22 15:05
Ethyl methacrylate	7.99	Incomplete Integration	ficarello p	01/18/22 15:06
Chlorobenzene	9.36	Incomplete Integration	ficarello p	01/18/22 15:06
trans-1,4-Dichloro-2-butene	10.93	Incomplete Integration	ficarello p	01/18/22 15:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD3 500-638287/5 IC Client Sample ID: _____Date Analyzed: 01/18/22 12:50 Lab File ID: STD30118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.64	Incomplete Integration	ficarello p	01/18/22 15:07
Trichloroethene	6.18	Incomplete Integration	ficarello p	01/18/22 15:07
Dibromomethane	6.55	Incomplete Integration	ficarello p	01/18/22 15:08
1,4-Dioxane	6.56	Incomplete Integration	ficarello p	01/18/22 15:08
methyl isobutyl ketone	7.41	Incomplete Integration	ficarello p	01/18/22 15:08
1,2,3-Trichloropropane	10.91	Incomplete Integration	ficarello p	01/18/22 15:09

Lab Sample ID: STD4 500-638287/6 ICIS Client Sample ID: _____Date Analyzed: 01/18/22 13:15 Lab File ID: STD40118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.64	Peak assignment corrected	ficarello p	01/18/22 15:30

Lab Sample ID: STD5 500-638287/7 IC Client Sample ID: _____Date Analyzed: 01/18/22 13:41 Lab File ID: STD50118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	5.79	Peak assignment corrected	ficarello p	01/18/22 15:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287

Lab Sample ID: STD6 500-638287/8 IC Client Sample ID: _____

Date Analyzed: 01/18/22 14:07 Lab File ID: STD60118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.64	Peak assignment corrected	ficarello p	01/18/22 15:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD1AP 500-638287/11 IC Client Sample ID: _____Date Analyzed: 01/18/22 15:24 Lab File ID: STD1AP0118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.30	Incomplete Integration	ficarello p	01/18/22 18:57
Ethyl acetate	4.70	Incomplete Integration	ficarello p	01/18/22 18:57
Propionitrile	4.71	Incomplete Integration	ficarello p	01/18/22 18:57
Isooctane	5.58	Incomplete Integration	ficarello p	01/18/22 18:57
Tert-amyl methyl ether	5.61	Incomplete Integration	ficarello p	01/18/22 18:57
Ethyl acrylate	6.28	Incomplete Integration	ficarello p	01/18/22 18:59
1,4-Dioxane-d8	6.50	Incomplete Integration	ficarello p	01/18/22 18:59
2-Nitropropane	6.98	Incomplete Integration	ficarello p	01/18/22 18:59
n-Butyl acetate	8.59	Incomplete Integration	ficarello p	01/18/22 18:59
1-Chlorohexane	9.34	Incomplete Integration	ficarello p	01/18/22 18:59
1-Methylnaphthalene		Invalid Compound ID	ficarello p	01/18/22 19:04
2-Methylnaphthalene		Invalid Compound ID	ficarello p	01/18/22 19:04
Ethanol		Invalid Compound ID	ficarello p	01/18/22 18:57
n-Butyl alcohol		Invalid Compound ID	ficarello p	01/18/22 18:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638287Lab Sample ID: STD2AP 500-638287/12 IC Client Sample ID: _____Date Analyzed: 01/18/22 15:50 Lab File ID: STD2AP0118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile	4.70	Incomplete Integration	ficarello p	01/18/22 19:01
Isooctane	5.58	Incomplete Integration	ficarello p	01/18/22 19:01
Ethyl acrylate	6.28	Incomplete Integration	ficarello p	01/18/22 19:00
1-Chlorohexane	9.33	Incomplete Integration	ficarello p	01/18/22 19:00

Lab Sample ID: STD4AP 500-638287/14 IC Client Sample ID: _____Date Analyzed: 01/18/22 16:41 Lab File ID: STD4AP0118.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acrylate	6.29	Peak assignment corrected	ficarello p	01/18/22 19:02

Lab Sample ID: ICV 500-638287/22 Client Sample ID: _____Date Analyzed: 01/18/22 20:07 Lab File ID: ICV 2.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	5.79	Peak assignment corrected	ficarello p	01/18/22 20:33
Ethyl acrylate	6.28	Peak assignment corrected	ficarello p	01/18/22 20:33
1,4-Dioxane-d8	6.51	Peak assignment corrected	ficarello p	01/18/22 20:33
2,3-Dichloro-1-propene		Invalid Compound ID	ficarello p	01/18/22 20:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 638461

Lab Sample ID: ICV 500-638461/3 Client Sample ID: _____

Date Analyzed: 01/19/22 09:45 Lab File ID: ICV 1.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl methacrylate	7.99	Peak assignment corrected	ficarello p	01/20/22 07:44
1,3-Dichloropropane	8.31	Peak assignment corrected	ficarello p	01/20/22 07:44
Chlorobenzene-d5	9.33	Peak assignment corrected	ficarello p	01/20/22 07:44
Styrene	10.16	Peak assignment corrected	ficarello p	01/20/22 07:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 673135Lab Sample ID: CCV 500-673135/2 Client Sample ID: _____Date Analyzed: 09/05/22 11:41 Lab File ID: 16C0905.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.15	Peak assignment corrected	BQP0	09/05/22 12:36
2-Butanone (MEK)	4.63	Peak assignment corrected	BQP0	09/05/22 12:36
Ethylene Dibromide	8.71	Peak assignment corrected	BQP0	09/05/22 12:36

Lab Sample ID: CCV 500-673135/3 Client Sample ID: _____Date Analyzed: 09/05/22 12:07 Lab File ID: 16D0905.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butyl acetate	8.56	Peak assignment corrected	BQP0	09/05/22 12:37
1-Chlorohexane	9.32	Incomplete Integration	BQP0	09/05/22 12:37

Lab Sample ID: LCS 500-673135/4 Client Sample ID: _____Date Analyzed: 09/05/22 12:33 Lab File ID: 16S0905.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.63	Peak assignment corrected	BQP0	09/05/22 12:54
1,2-Dichloroethane	5.50	Peak assignment corrected	BQP0	09/05/22 12:54

Lab Sample ID: 500-221506-1 Client Sample ID: B-1 (6'-8')Date Analyzed: 09/05/22 13:50 Lab File ID: 500-221506-a-1-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	4.63	Peak assignment corrected	thaneerat w	09/06/22 12:01
m-Xylene & p-Xylene	9.64	Incomplete Integration	thaneerat w	09/06/22 12:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 673135Lab Sample ID: 500-221506-2 Client Sample ID: B-2 (2'-4')Date Analyzed: 09/05/22 14:16 Lab File ID: 500-221506-a-2-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	thaneerat w	09/06/22 12:02

Lab Sample ID: 500-221506-3 Client Sample ID: B-3 (22'-23.5')Date Analyzed: 09/05/22 14:42 Lab File ID: 500-221506-a-3-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.02	Incomplete Integration	thaneerat w	09/06/22 12:05
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	09/06/22 12:04
Toluene		Invalid Compound ID	thaneerat w	09/06/22 12:05

Lab Sample ID: 500-221506-4 Client Sample ID: B-4 (20'-22')Date Analyzed: 09/05/22 15:08 Lab File ID: 500-221506-a-4-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	9.64	Incomplete Integration	thaneerat w	09/06/22 12:07
Ethylbenzene		Invalid Compound ID	thaneerat w	09/06/22 12:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Analysis Batch Number: 673135Lab Sample ID: 500-221506-5 Client Sample ID: B-5 (8'-10')Date Analyzed: 09/05/22 15:34 Lab File ID: 500-221506-a-5-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	9.64	Incomplete Integration	thaneerat w	09/06/22 12:08
Chloromethane		Invalid Compound ID	thaneerat w	09/06/22 12:08

Lab Sample ID: 500-221506-6 Client Sample ID: _____Date Analyzed: 09/05/22 16:00 Lab File ID: 500-221506-a-6-a.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.49	Peak assignment corrected	thaneerat w	09/06/22 12:09
m-Xylene & p-Xylene	9.64	Incomplete Integration	thaneerat w	09/06/22 12:10
Benzene		Invalid Compound ID	thaneerat w	09/06/22 12:10
Ethylbenzene		Invalid Compound ID	thaneerat w	09/06/22 12:10

Lab Sample ID: 500-221506-5 MS Client Sample ID: B-5 (8'-10') MSDate Analyzed: 09/05/22 16:52 Lab File ID: 500-221506-a-5-b ms.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.83	Peak assignment corrected	thaneerat w	09/06/22 12:19
Trichlorofluoromethane	2.48	Peak assignment corrected	thaneerat w	09/06/22 12:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 667600Lab Sample ID: STD07 500-667600/9 ICIS Client Sample ID: _____Date Analyzed: 07/29/22 12:19 Lab File ID: STD07.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 18:59

Lab Sample ID: STD08 500-667600/10 IC Client Sample ID: _____Date Analyzed: 07/29/22 12:43 Lab File ID: STD08.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:00
1,4-Dichlorobenzene-d4	11.98	Peak assignment corrected	BQP0	07/29/22 13:07

Lab Sample ID: STD09 500-667600/11 IC Client Sample ID: _____Date Analyzed: 07/29/22 13:07 Lab File ID: STD09.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:00
1,2,3-Trichlorobenzene		Invalid Compound ID	BQP0	07/31/22 19:12
1,4-Dichlorobenzene-d4	11.98	Peak assignment corrected	BQP0	07/29/22 13:49

Lab Sample ID: STD010 500-667600/12 IC Client Sample ID: _____Date Analyzed: 07/29/22 13:32 Lab File ID: STD010.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 18:59
1,1,2-Trichloroethane		Invalid Compound ID	BQP0	07/31/22 19:11
1,2,3-Trichlorobenzene		Invalid Compound ID	BQP0	07/31/22 19:12
Naphthalene		Invalid Compound ID	BQP0	07/31/22 19:12
1,4-Dichlorobenzene-d4	11.98	Peak assignment corrected	BQP0	07/29/22 13:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 667600Lab Sample ID: STD03AP 500-667600/14 I Client Sample ID: _____Date Analyzed: 07/29/22 14:20 Lab File ID: STD03AP.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	3.31	Incomplete Integration	BQP0	07/31/22 19:30
Acetonitrile	3.45	Incomplete Integration	BQP0	07/31/22 19:30
Propionitrile	4.89	Incomplete Integration	BQP0	07/31/22 19:30
Ethanol		Invalid Compound ID	BQP0	07/31/22 19:30
Pentachloroethane		Invalid Compound ID	BQP0	07/31/22 19:35

Lab Sample ID: STD01 500-667600/27 IC Client Sample ID: _____Date Analyzed: 07/29/22 15:09 Lab File ID: STD01a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene		Invalid Compound ID	BQP0	07/29/22 15:26
Vinyl chloride		Invalid Compound ID	BQP0	07/29/22 15:26

Lab Sample ID: STD02 500-667600/28 IC Client Sample ID: _____Date Analyzed: 07/29/22 15:33 Lab File ID: STD02a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	BQP0	07/29/22 15:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 667600Lab Sample ID: STD03 500-667600/29 IC Client Sample ID: _____Date Analyzed: 07/29/22 15:57 Lab File ID: STD03a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.83	Peak assignment corrected	BQP0	07/30/22 10:18
Heptane	5.93	Peak assignment corrected	BQP0	07/30/22 10:18
Ethylene Dibromide	8.95	Peak assignment corrected	BQP0	07/30/22 10:19
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	BQP0	07/31/22 19:04
1,4-Dioxane		Invalid Compound ID	BQP0	07/30/22 10:18
2-Butanone (MEK)		Invalid Compound ID	BQP0	07/30/22 10:18
2-Hexanone		Invalid Compound ID	BQP0	07/30/22 10:19
Acetone		Invalid Compound ID	BQP0	07/30/22 10:18
Bromomethane		Invalid Compound ID	BQP0	07/31/22 19:05
Chloroform		Invalid Compound ID	BQP0	07/31/22 19:05
Isobutyl alcohol		Invalid Compound ID	BQP0	07/30/22 10:18
methyl isobutyl ketone		Invalid Compound ID	BQP0	07/30/22 10:18
Methylene Chloride		Invalid Compound ID	BQP0	07/30/22 10:18
tert-Butyl alcohol		Invalid Compound ID	BQP0	07/30/22 10:18
Tetrahydrofuran		Invalid Compound ID	BQP0	07/31/22 19:05
trans-1,4-Dichloro-2-butene		Invalid Compound ID	BQP0	07/30/22 10:19
1,4-Dichlorobenzene	12.00	Peak assignment corrected	BQP0	07/30/22 10:19
Hexachlorobutadiene	13.72	Invalid Compound ID	BQP0	07/30/22 10:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 667600Lab Sample ID: STD04 500-667600/30 IC Client Sample ID: _____Date Analyzed: 07/29/22 16:21 Lab File ID: STD04a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.25	Incomplete Integration	BQP0	07/30/22 10:21
Chloroethane	2.36	Incomplete Integration	BQP0	07/31/22 19:03
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:02
Heptane	5.93	Peak assignment corrected	BQP0	07/30/22 10:20
Ethylene Dibromide	8.95	Peak assignment corrected	BQP0	07/30/22 10:20
2-Butanone (MEK)		Invalid Compound ID	BQP0	07/30/22 10:20
2-Hexanone		Invalid Compound ID	BQP0	07/31/22 19:04
Acetone		Invalid Compound ID	BQP0	07/30/22 10:21
methyl isobutyl ketone		Invalid Compound ID	BQP0	07/30/22 10:20
Methylene Chloride		Invalid Compound ID	BQP0	07/30/22 10:20

Lab Sample ID: STD05 500-667600/31 IC Client Sample ID: _____Date Analyzed: 07/29/22 16:46 Lab File ID: STD05a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:01

Lab Sample ID: STD06 500-667600/32 IC Client Sample ID: _____Date Analyzed: 07/29/22 17:10 Lab File ID: STD06a.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 667600Lab Sample ID: STD04AP 500-667600/15 I Client Sample ID: _____Date Analyzed: 07/29/22 17:34 Lab File ID: STD04AP.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	3.31	Peak assignment corrected	BQP0	07/31/22 19:31

Lab Sample ID: STD05AP 500-667600/16 I Client Sample ID: _____Date Analyzed: 07/29/22 17:59 Lab File ID: STD05AP.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	3.31	Peak assignment corrected	BQP0	07/31/22 19:32

Lab Sample ID: STD010AP 500-667600/21 Client Sample ID: _____Date Analyzed: 07/29/22 20:02 Lab File ID: STD010AP.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene-d4	11.98	Peak assignment corrected	BQP0	07/31/22 19:33

Lab Sample ID: ICV 500-667600/23 Client Sample ID: _____Date Analyzed: 07/29/22 20:51 Lab File ID: ICV1.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	3.69	Peak assignment corrected	BQP0	07/31/22 19:16

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Analysis Batch Number: 673843

Lab Sample ID: CCV 500-673843/3 Client Sample ID: _____

Date Analyzed: 09/09/22 11:17 Lab File ID: 19x0909.d GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acrylate	6.47	Peak assignment corrected	QRE8	09/09/22 11:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD01 500-656646/3 IC Client Sample ID: _____Date Analyzed: 05/14/22 09:34 Lab File ID: STD010514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 17:36
m&p-Xylene	9.64	Peak assignment corrected	ficarello p	05/15/22 13:03
Trichloroethene		Invalid Compound ID	ficarello p	05/17/22 08:13
Vinyl chloride		Invalid Compound ID	ficarello p	05/17/22 08:13

Lab Sample ID: STD02 500-656646/4 IC Client Sample ID: _____Date Analyzed: 05/14/22 09:57 Lab File ID: STD020514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	6.16	Incomplete Integration	ficarello p	05/15/22 13:03
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 17:35
Vinyl chloride		Invalid Compound ID	ficarello p	05/17/22 08:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD03 500-656646/5 IC Client Sample ID: _____Date Analyzed: 05/14/22 10:21 Lab File ID: STD030514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.60	Incomplete Integration	thaneerat w	05/17/22 17:28
Chloromethane	1.80	Incomplete Integration	ficarello p	05/15/22 13:04
Vinyl chloride	1.91	Incomplete Integration	ficarello p	05/14/22 12:23
Chloroethane	2.27	Incomplete Integration	thaneerat w	05/17/22 17:28
Dichlorofluoromethane	2.48	Incomplete Integration	ficarello p	05/15/22 13:04
Trichlorofluoromethane	2.50	Incomplete Integration	ficarello p	05/15/22 13:04
1,1-Dichloroethene	2.99	Incomplete Integration	ficarello p	05/15/22 13:04
1,1,2-Trichloro-1,2,2-trifluoroethane	3.01	Incomplete Integration	ficarello p	05/15/22 13:04
tert-Butyl alcohol	3.56	Incomplete Integration	ficarello p	05/15/22 13:05
Chloroform	4.93	Invalid Compound ID	ficarello p	05/17/22 08:02
1,1,1-Trichloroethane	5.12	Incomplete Integration	ficarello p	05/15/22 13:05
Heptane	5.75	Incomplete Integration	ficarello p	05/15/22 13:05
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 17:28
Dibromomethane	6.53	Incomplete Integration	ficarello p	05/15/22 13:05
2-Chloroethyl vinyl ether	7.05	Incomplete Integration	ficarello p	05/15/22 13:05
1,1,2-Trichloroethane	8.08	Incomplete Integration	thaneerat w	05/17/22 17:30
Chlorodibromomethane	8.57	Incomplete Integration	ficarello p	05/15/22 13:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD03 500-656646/5 IC Client Sample ID: _____Date Analyzed: 05/14/22 10:21 Lab File ID: STD030514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene Dibromide	8.72	Incomplete Integration	ficarello p	05/15/22 13:06
1,4-Dioxane		Invalid Compound ID	ficarello p	05/17/22 09:31
2-Butanone (MEK)		Invalid Compound ID	ficarello p	05/17/22 08:01
2-Hexanone		Invalid Compound ID	ficarello p	05/17/22 08:01
Acetone		Invalid Compound ID	ficarello p	05/17/22 08:01
Bromomethane		Invalid Compound ID	ficarello p	05/17/22 08:00
methyl isobutyl ketone		Invalid Compound ID	ficarello p	05/17/22 08:01
Methylene Chloride		Invalid Compound ID	ficarello p	05/17/22 08:01
Tetrahydrofuran		Invalid Compound ID	ficarello p	05/17/22 09:30
1,2,3-Trichloropropane	10.90	Invalid Compound ID	ficarello p	05/17/22 08:09
trans-1,4-Dichloro-2-butene	10.92	Invalid Compound ID	ficarello p	05/17/22 07:57
1,4-Dichlorobenzene	11.84	Incomplete Integration	ficarello p	05/15/22 13:06
1,2-Dibromo-3-Chloropropane	12.82	Analyte was not present	ficarello p	05/17/22 08:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD04 500-656646/6 IC Client Sample ID: _____Date Analyzed: 05/14/22 10:44 Lab File ID: STD040514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.79	Incomplete Integration	ficarello p	05/15/22 13:10
Vinyl chloride	1.90	Incomplete Integration	ficarello p	05/14/22 12:23
Bromomethane	2.20	Incomplete Integration	ficarello p	05/15/22 13:09
Chloroethane	2.26	Incomplete Integration	ficarello p	05/15/22 13:09
Dichlorofluoromethane	2.49	Incomplete Integration	ficarello p	05/15/22 13:09
Trichlorofluoromethane	2.49	Incomplete Integration	ficarello p	05/15/22 13:09
tert-Butyl alcohol	3.56	Peak assignment corrected	ficarello p	05/15/22 13:44
Heptane	5.75	Incomplete Integration	ficarello p	05/15/22 13:08
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 17:23
Dibromomethane	6.53	Incomplete Integration	ficarello p	05/15/22 13:08
cis-1,3-Dichloropropene	7.21	Incomplete Integration	ficarello p	05/15/22 13:08
Ethyl methacrylate	7.98	Incomplete Integration	ficarello p	05/15/22 13:08
Ethylene Dibromide	8.72	Incomplete Integration	ficarello p	05/15/22 13:07
1,1,1,2-Tetrachloroethane	9.44	Incomplete Integration	ficarello p	05/15/22 13:07
1,4-Dioxane		Invalid Compound ID	ficarello p	05/17/22 09:31
2-Butanone (MEK)		Invalid Compound ID	ficarello p	05/17/22 07:59
2-Hexanone		Invalid Compound ID	ficarello p	05/17/22 08:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD04 500-656646/6 IC Client Sample ID: _____Date Analyzed: 05/14/22 10:44 Lab File ID: STD040514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	ficarello p	05/17/22 07:59
methyl isobutyl ketone		Invalid Compound ID	ficarello p	05/17/22 08:00
Methylene Chloride		Invalid Compound ID	ficarello p	05/17/22 07:59
Tetrahydrofuran		Invalid Compound ID	ficarello p	05/17/22 09:30
1,2,3-Trichloropropane	10.90	Peak assignment corrected	ficarello p	05/15/22 13:07
trans-1,4-Dichloro-2-butene	10.91	Invalid Compound ID	ficarello p	05/15/22 13:39

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD05 500-656646/7 IC Client Sample ID: _____Date Analyzed: 05/14/22 11:08 Lab File ID: STD050514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.80	Incomplete Integration	ficarello p	05/15/22 13:10
Vinyl chloride	1.91	Incomplete Integration	ficarello p	05/14/22 12:23
Dichlorofluoromethane	2.49	Incomplete Integration	ficarello p	05/15/22 13:10
Trichlorofluoromethane	2.50	Incomplete Integration	ficarello p	05/15/22 13:11
Heptane	5.76	Incomplete Integration	ficarello p	05/15/22 13:11
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 17:22
1,4-Dioxane	6.56	Incomplete Integration	ficarello p	05/15/22 13:11
methyl isobutyl ketone	7.39	Incomplete Integration	ficarello p	05/15/22 13:12
Ethylene Dibromide	8.71	Incomplete Integration	ficarello p	05/15/22 13:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD06 500-656646/8 IC Client Sample ID: _____Date Analyzed: 05/14/22 11:32 Lab File ID: STD060514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.91	Incomplete Integration	ficarello p	05/15/22 13:14
Dichlorofluoromethane	2.49	Incomplete Integration	ficarello p	05/15/22 13:13
Trichlorofluoromethane	2.49	Incomplete Integration	ficarello p	05/15/22 13:13
Isobutyl alcohol	5.39	Incomplete Integration	thaneerat w	05/17/22 17:21
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 17:21
1,4-Dioxane	6.55	Incomplete Integration	thaneerat w	05/17/22 17:22

Lab Sample ID: STD07 500-656646/9 ICIS Client Sample ID: _____Date Analyzed: 05/14/22 11:55 Lab File ID: STD070514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.21	Incomplete Integration	ficarello p	05/15/22 13:15
Trichlorofluoromethane	2.51	Incomplete Integration	ficarello p	05/15/22 13:15
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 17:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646

Lab Sample ID: STD08 500-656646/10 IC Client Sample ID: _____

Date Analyzed: 05/14/22 12:19 Lab File ID: STD080514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.50	Incomplete Integration	thaneerat w	05/17/22 17:45
1,4-Dioxane-d8	6.50	Incomplete Integration	ficarello p	05/15/22 13:18
1,1,2,2-Tetrachloroethane	10.86	Invalid Compound ID	ficarello p	05/15/22 13:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD09 500-656646/11 IC Client Sample ID: _____Date Analyzed: 05/14/22 12:42 Lab File ID: STD090514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl ether	2.80	Invalid Compound ID	ficarello p	05/17/22 07:52
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 17:46
1,1,2,2-Tetrachloroethane		Invalid Compound ID	ficarello p	05/17/22 07:58
1,2,4-Trichlorobenzene		Invalid Compound ID	ficarello p	05/17/22 08:17
Bromomethane		Invalid Compound ID	ficarello p	05/17/22 07:53
Butadiene		Invalid Compound ID	ficarello p	05/17/22 07:53
Chloroethane		Invalid Compound ID	ficarello p	05/17/22 07:53
Chloromethane		Invalid Compound ID	ficarello p	05/17/22 07:53
Dichlorodifluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:53
Dichlorofluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Hexachlorobutadiene		Invalid Compound ID	ficarello p	05/17/22 08:05
Trichlorofluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Vinyl chloride		Invalid Compound ID	ficarello p	05/17/22 07:53
1,4-Dichlorobenzene-d4	11.82	Incomplete Integration	ficarello p	05/15/22 13:19
Naphthalene	13.65	Invalid Compound ID	ficarello p	05/17/22 08:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD010 500-656646/12 IC Client Sample ID: _____Date Analyzed: 05/14/22 13:06 Lab File ID: STD0100514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 17:49
1,1,2,2-Tetrachloroethane		Invalid Compound ID	ficarello p	05/17/22 07:58
1,2,4-Trichlorobenzene		Invalid Compound ID	ficarello p	05/17/22 08:17
Bromomethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Butadiene		Invalid Compound ID	ficarello p	05/17/22 07:52
Chloroethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Chloromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Dichlorodifluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Dichlorofluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Hexachlorobutadiene		Invalid Compound ID	ficarello p	05/17/22 08:05
Hexane		Invalid Compound ID	ficarello p	05/17/22 08:02
Trichlorofluoromethane		Invalid Compound ID	ficarello p	05/17/22 07:52
Vinyl chloride		Invalid Compound ID	ficarello p	05/17/22 07:52
1,4-Dichlorobenzene-d4	11.82	Incomplete Integration	ficarello p	05/15/22 13:20
Naphthalene	13.65	Invalid Compound ID	ficarello p	05/17/22 08:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD03AP 500-656646/14 I Client Sample ID: _____Date Analyzed: 05/14/22 13:53 Lab File ID: STD03AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	thaneerat w	05/17/22 19:05
Isopropyl alcohol	3.21	Incomplete Integration	ficarello p	05/15/22 13:53
Acetonitrile	3.32	Incomplete Integration	ficarello p	05/15/22 13:45
Propionitrile	4.72	Incomplete Integration	ficarello p	05/15/22 13:46
n-Butyl alcohol	6.11	Incomplete Integration	ficarello p	05/15/22 13:46
1-Chlorohexane	9.31	Incomplete Integration	thaneerat w	05/17/22 19:05

Lab Sample ID: STD04AP 500-656646/15 I Client Sample ID: _____Date Analyzed: 05/14/22 14:16 Lab File ID: STD04AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	ficarello p	05/15/22 13:47
Isopropyl alcohol	3.20	Incomplete Integration	ficarello p	05/15/22 13:53
n-Butyl alcohol	6.09	Incomplete Integration	ficarello p	05/15/22 13:47
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 19:06
2-Nitropropane	6.97	Incomplete Integration	ficarello p	05/15/22 13:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD05AP 500-656646/16 I Client Sample ID: _____Date Analyzed: 05/14/22 14:40 Lab File ID: STD05AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	ficarello p	05/15/22 13:48
Isopropyl alcohol	3.20	Peak assignment corrected	ficarello p	05/15/22 13:53
Propionitrile	4.71	Incomplete Integration	ficarello p	05/15/22 13:48
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 19:06

Lab Sample ID: STD06AP 500-656646/17 I Client Sample ID: _____Date Analyzed: 05/14/22 15:04 Lab File ID: STD06AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	ficarello p	05/15/22 13:49
Isopropyl alcohol	3.19	Peak assignment corrected	ficarello p	05/15/22 13:53
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 19:08

Lab Sample ID: STD07AP 500-656646/18 I Client Sample ID: _____Date Analyzed: 05/14/22 15:27 Lab File ID: STD07AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	thaneerat w	05/17/22 19:09
Isopropyl alcohol	3.20	Peak assignment corrected	ficarello p	05/15/22 13:52
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 19:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656646Lab Sample ID: STD08AP 500-656646/19 I Client Sample ID: _____Date Analyzed: 05/14/22 15:51 Lab File ID: STD08AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.73	Incomplete Integration	ficarello p	05/15/22 13:50
Isopropyl alcohol	3.19	Peak assignment corrected	ficarello p	05/15/22 13:54
1,4-Dioxane-d8	6.49	Incomplete Integration	ficarello p	05/15/22 13:49

Lab Sample ID: STD09AP 500-656646/20 I Client Sample ID: _____Date Analyzed: 05/14/22 16:14 Lab File ID: STD09AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.75	Incomplete Integration	thaneerat w	05/17/22 19:11
Isopropyl alcohol	3.20	Peak assignment corrected	ficarello p	05/15/22 13:54
Isooctane	5.58	Peak assignment corrected	ficarello p	05/15/22 13:50
1,4-Dioxane-d8	6.50	Incomplete Integration	thaneerat w	05/17/22 19:11

Lab Sample ID: STD010AP 500-656646/21 Client Sample ID: _____Date Analyzed: 05/14/22 16:38 Lab File ID: STD010AP0514.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	3.20	Peak assignment corrected	ficarello p	05/15/22 13:54
Isooctane	5.58	Peak assignment corrected	ficarello p	05/15/22 13:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 656798

Lab Sample ID: ICV 500-656798/7 Client Sample ID: _____

Date Analyzed: 05/16/22 11:28 Lab File ID: icv20516.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane-d8	6.49	Incomplete Integration	thaneerat w	05/17/22 18:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD01 500-663160/2 IC Client Sample ID: _____Date Analyzed: 06/28/22 08:45 Lab File ID: std010628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	5.49	Incomplete Integration	BQP0	06/28/22 11:35
Toluene	7.60	Incomplete Integration	BQP0	06/28/22 11:35
Ethylbenzene	9.48	Incomplete Integration	BQP0	06/28/22 11:35
Trichloroethene		Invalid Compound ID	BQP0	06/28/22 11:36
Vinyl chloride		Invalid Compound ID	BQP0	06/28/22 11:35

Lab Sample ID: STD02 500-663160/3 IC Client Sample ID: _____Date Analyzed: 06/28/22 09:09 Lab File ID: std020628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	5.50	Peak assignment corrected	BQP0	06/28/22 09:47
Trichloroethene	6.16	Incomplete Integration	BQP0	06/28/22 11:36
Toluene	7.60	Incomplete Integration	BQP0	06/28/22 11:36
Vinyl chloride		Invalid Compound ID	BQP0	06/28/22 11:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD03 500-663160/4 IC Client Sample ID: _____Date Analyzed: 06/28/22 09:32 Lab File ID: std030628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.79	Incomplete Integration	BQP0	06/28/22 10:12
Vinyl chloride	1.90	Incomplete Integration	BQP0	06/28/22 11:14
Butadiene	1.91	Incomplete Integration	BQP0	06/28/22 11:14
Chloroethane	2.26	Incomplete Integration	BQP0	06/28/22 10:22
Dichlorofluoromethane	2.49	Incomplete Integration	BQP0	06/28/22 10:22
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 10:21
Ethyl ether	2.78	Incomplete Integration	BQP0	06/28/22 10:15
1,1-Dichloroethene	2.98	Incomplete Integration	BQP0	06/28/22 10:15
1,1,2-Trichloro-1,2,2-trifluoroethane	3.01	Incomplete Integration	BQP0	06/28/22 10:14
Methyl acetate	3.35	Incomplete Integration	BQP0	06/28/22 10:14
tert-Butyl alcohol	3.55	Incomplete Integration	BQP0	06/28/22 10:21
Hexane	3.94	Incomplete Integration	BQP0	06/28/22 10:14
1,1-Dichloroethane	4.08	Incomplete Integration	BQP0	06/28/22 10:14
2,2-Dichloropropane	4.63	Incomplete Integration	BQP0	06/28/22 10:20
Bromochloromethane	4.85	Incomplete Integration	BQP0	06/28/22 10:20
Cyclohexane	5.18	Incomplete Integration	BQP0	06/28/22 10:20
Carbon tetrachloride	5.28	Incomplete Integration	BQP0	06/28/22 10:20
1,1-Dichloropropene	5.29	Incomplete Integration	BQP0	06/28/22 10:13
Isobutyl alcohol	5.40	Incomplete Integration	BQP0	06/28/22 10:19
Heptane	5.75	Incomplete Integration	BQP0	06/28/22 10:13
Trichloroethene	6.16	Incomplete Integration	BQP0	06/28/22 10:17
cis-1,3-Dichloropropene	7.21	Incomplete Integration	BQP0	06/28/22 10:13
Ethyl methacrylate	7.98	Incomplete Integration	BQP0	06/28/22 10:17
Tetrachloroethene	8.26	Incomplete Integration	BQP0	06/28/22 10:16
Ethylene Dibromide	8.71	Incomplete Integration	BQP0	06/28/22 10:13
Chlorobenzene	9.33	Incomplete Integration	BQP0	06/28/22 10:16
1,2,3-Trichloropropane		Invalid Compound ID	BQP0	06/28/22 10:13
1,4-Dioxane		Invalid Compound ID	BQP0	06/28/22 10:17
2-Butanone (MEK)		Invalid Compound ID	BQP0	06/28/22 10:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD03 500-663160/4 IC Client Sample ID: _____Date Analyzed: 06/28/22 09:32 Lab File ID: std030628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	BQP0	06/28/22 10:13
Acetone		Invalid Compound ID	BQP0	06/28/22 10:21
Bromomethane		Invalid Compound ID	BQP0	06/28/22 11:14
Chloroform		Invalid Compound ID	BQP0	06/28/22 19:32
methyl isobutyl ketone		Invalid Compound ID	BQP0	06/28/22 10:13
Methylene Chloride		Invalid Compound ID	BQP0	06/28/22 10:14
Tetrahydrofuran		Invalid Compound ID	BQP0	06/28/22 10:14
trans-1,4-Dichloro-2-butene		Invalid Compound ID	BQP0	06/28/22 10:16
Bromoform	10.34	Incomplete Integration	BQP0	06/28/22 10:16
1,1,2,2-Tetrachloroethane	10.85	Incomplete Integration	BQP0	06/28/22 10:13
1,4-Dichlorobenzene	11.84	Incomplete Integration	BQP0	06/28/22 10:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD04 500-663160/5 IC Client Sample ID: _____Date Analyzed: 06/28/22 09:56 Lab File ID: std040628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.60	Peak assignment corrected	BQP0	06/28/22 11:17
Vinyl chloride	1.90	Peak assignment corrected	BQP0	06/28/22 11:17
Butadiene	1.91	Incomplete Integration	BQP0	06/28/22 11:18
Dichlorofluoromethane	2.49	Incomplete Integration	BQP0	06/28/22 11:18
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 11:18
1,1,2-Trichloro-1,2,2-trifluoroethane	3.02	Incomplete Integration	BQP0	06/28/22 11:18
Iodomethane	3.13	Incomplete Integration	BQP0	06/28/22 11:18
3-Chloropropene	3.33	Incomplete Integration	BQP0	06/28/22 11:19
tert-Butyl alcohol	3.56	Incomplete Integration	BQP0	06/28/22 11:19
Methyl tert-butyl ether	3.69	Incomplete Integration	BQP0	06/28/22 11:19
Vinyl acetate	4.13	Incomplete Integration	BQP0	06/28/22 11:19
Bromochloromethane	4.86	Incomplete Integration	BQP0	06/28/22 11:19
Isobutyl alcohol	5.39	Incomplete Integration	BQP0	06/28/22 11:19
Heptane	5.75	Incomplete Integration	BQP0	06/28/22 11:19
1,2-Dichloropropane	6.40	Incomplete Integration	BQP0	06/28/22 11:20
Dibromomethane	6.54	Incomplete Integration	BQP0	06/28/22 11:20
Dichlorobromomethane	6.70	Incomplete Integration	BQP0	06/28/22 11:20
Ethyl methacrylate	7.98	Incomplete Integration	BQP0	06/28/22 11:20
1,1,2-Trichloroethane	8.09	Incomplete Integration	BQP0	06/28/22 11:20
Tetrachloroethene	8.26	Incomplete Integration	BQP0	06/28/22 11:21
1,4-Dioxane		Invalid Compound ID	BQP0	06/28/22 19:33
2-Butanone (MEK)		Invalid Compound ID	BQP0	06/28/22 11:31
Acetone		Invalid Compound ID	BQP0	06/28/22 11:31
Methylene Chloride		Invalid Compound ID	BQP0	06/28/22 11:31
Tetrahydrofuran		Invalid Compound ID	BQP0	06/28/22 19:32
Bromoform	10.34	Incomplete Integration	BQP0	06/28/22 11:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD05 500-663160/6 IC Client Sample ID: _____Date Analyzed: 06/28/22 10:19 Lab File ID: std050628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.81	Incomplete Integration	BQP0	06/28/22 11:28
Butadiene	1.92	Incomplete Integration	BQP0	06/28/22 11:28
Chloroethane	2.29	Incomplete Integration	BQP0	06/28/22 11:28
Trichlorofluoromethane	2.51	Incomplete Integration	BQP0	06/28/22 11:29
Acetone	3.06	Incomplete Integration	BQP0	06/28/22 11:29
Iodomethane	3.14	Incomplete Integration	BQP0	06/28/22 11:29
tert-Butyl alcohol	3.56	Incomplete Integration	BQP0	06/28/22 11:30
2,2-Dichloropropane	4.64	Incomplete Integration	BQP0	06/28/22 11:30
2-Butanone (MEK)	4.66	Incomplete Integration	BQP0	06/28/22 11:30
Tetrahydrofuran	4.91	Incomplete Integration	BQP0	06/28/22 11:30
1,2-Dichloroethane	5.52	Incomplete Integration	BQP0	06/28/22 11:30
Heptane	5.76	Incomplete Integration	BQP0	06/28/22 11:30
1,4-Dioxane	6.55	Incomplete Integration	BQP0	06/28/22 11:31
2-Chloroethyl vinyl ether	7.04	Incomplete Integration	BQP0	06/28/22 11:31

Lab Sample ID: STD06 500-663160/7 IC Client Sample ID: _____Date Analyzed: 06/28/22 10:43 Lab File ID: std060628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 11:32

Lab Sample ID: STD07 500-663160/8 ICIS Client Sample ID: _____Date Analyzed: 06/28/22 11:06 Lab File ID: std070628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.49	Incomplete Integration	BQP0	06/28/22 11:33
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 11:33
1,4-Dioxane-d8	6.50	Peak assignment corrected	BQP0	06/28/22 12:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160Lab Sample ID: STD08 500-663160/9 IC Client Sample ID: _____Date Analyzed: 06/28/22 11:30 Lab File ID: std080628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.51	Incomplete Integration	BQP0	06/28/22 11:50
1,4-Dioxane-d8	6.49	Peak assignment corrected	BQP0	06/28/22 12:43

Lab Sample ID: STD09 500-663160/10 IC Client Sample ID: _____Date Analyzed: 06/28/22 11:53 Lab File ID: std090628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.49	Incomplete Integration	BQP0	06/28/22 12:29
1,4-Dioxane-d8	6.49	Peak assignment corrected	BQP0	06/28/22 12:42
Chloroethane		Invalid Compound ID	BQP0	06/28/22 12:38
1,4-Dichlorobenzene-d4	11.82	Peak assignment corrected	BQP0	06/28/22 12:38

Lab Sample ID: STD010 500-663160/11 IC Client Sample ID: _____Date Analyzed: 06/28/22 12:17 Lab File ID: std0100628.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 12:37
1,4-Dioxane-d8	6.50	Peak assignment corrected	BQP0	06/28/22 12:41
Chloroethane		Invalid Compound ID	BQP0	06/28/22 12:39
1,4-Dichlorobenzene-d4	11.82	Incomplete Integration	BQP0	06/28/22 12:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 663160

Lab Sample ID: ICV 500-663160/14 Client Sample ID: _____

Date Analyzed: 06/28/22 14:10 Lab File ID: icv10628A.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.80	Incomplete Integration	BQP0	06/28/22 19:42
Trichlorofluoromethane	2.50	Incomplete Integration	BQP0	06/28/22 14:48
1,4-Dioxane-d8	6.49	Peak assignment corrected	BQP0	06/28/22 14:30
1,4-Dioxane	6.55	Peak assignment corrected	BQP0	06/28/22 14:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Analysis Batch Number: 673569Lab Sample ID: CCVIS 500-673569/2 Client Sample ID: _____Date Analyzed: 09/08/22 08:29 Lab File ID: 29C0908.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.52	Incomplete Integration	QRE8	09/08/22 14:13

Lab Sample ID: LCS 500-673569/5 Client Sample ID: _____Date Analyzed: 09/08/22 09:39 Lab File ID: 29S0908.D GC Column: DB624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.52	Incomplete Integration	QRE8	09/08/22 14:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 539537Lab Sample ID: STD5 240-539537/2 IC Client Sample ID: _____Date Analyzed: 08/19/22 11:04 Lab File ID: 20819002.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.97	Poor chromatography	KDZ4	08/19/22 11:37
Nitrobenzene-d5 (Surr)	6.71	Poor chromatography	KDZ4	08/19/22 11:38
Benzoic acid	7.04	Poor chromatography	KDZ4	08/19/22 11:39
Caprolactam	7.66	Poor chromatography	KDZ4	08/19/22 11:39
4-Nitroaniline	9.30	Poor chromatography	KDZ4	08/19/22 11:40
Carbazole	10.29	Poor chromatography	KDZ4	08/19/22 11:41

Lab Sample ID: STD4 240-539537/3 IC Client Sample ID: _____Date Analyzed: 08/19/22 11:27 Lab File ID: 20819003.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.95	Poor chromatography	KDZ4	08/19/22 11:50
Benzoic acid	7.03	Poor chromatography	KDZ4	08/19/22 11:50
2,4,5-Trichlorophenol	8.21	Poor chromatography	KDZ4	08/19/22 11:51

Lab Sample ID: STD3 240-539537/4 IC Client Sample ID: _____Date Analyzed: 08/19/22 11:50 Lab File ID: 20819004.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.95	Poor chromatography	KDZ4	08/19/22 12:16
Benzoic acid	7.03	Poor chromatography	KDZ4	08/19/22 12:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 539537Lab Sample ID: STD2 240-539537/5 IC Client Sample ID: _____Date Analyzed: 08/19/22 12:14 Lab File ID: 20819005.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrophenol		Invalid Compound ID	KDZ4	08/19/22 12:35
3-Nitroaniline		Invalid Compound ID	KDZ4	08/22/22 09:51
4,6-Dinitro-2-methylphenol		Invalid Compound ID	KDZ4	08/19/22 12:36
Benzoic acid		Invalid Compound ID	KDZ4	08/19/22 12:35

Lab Sample ID: STD6 240-539537/7 ICIS Client Sample ID: _____Date Analyzed: 08/19/22 13:00 Lab File ID: 20819007.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.07	Poor chromatography	KDZ4	08/19/22 13:23
Caprolactam	7.67	Poor chromatography	KDZ4	08/19/22 13:23
Carbazole	10.28	Poor chromatography	KDZ4	08/19/22 13:25

Lab Sample ID: STD7 240-539537/8 IC Client Sample ID: _____Date Analyzed: 08/19/22 13:23 Lab File ID: 20819008.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.94	Poor chromatography	KDZ4	08/19/22 13:46
Benzoic acid	7.08	Poor chromatography	KDZ4	08/19/22 13:47
Caprolactam	7.67	Poor chromatography	KDZ4	08/19/22 13:47
Carbazole	10.28	Poor chromatography	KDZ4	08/19/22 14:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 539537Lab Sample ID: STD8 240-539537/9 IC Client Sample ID: _____Date Analyzed: 08/19/22 13:46 Lab File ID: 20819009.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	7.68	Poor chromatography	KDZ4	08/19/22 14:08
Carbazole	10.28	Poor chromatography	KDZ4	08/19/22 14:11

Lab Sample ID: STD9 240-539537/10 IC Client Sample ID: _____Date Analyzed: 08/19/22 14:09 Lab File ID: 20819010.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.94	Poor chromatography	KDZ4	08/22/22 09:45
Caprolactam	7.68	Poor chromatography	KDZ4	08/22/22 09:46
3-Nitroaniline	8.78	Invalid Compound ID	KDZ4	08/22/22 10:06
4-Nitroaniline		Invalid Compound ID	KDZ4	08/22/22 09:53
Benzidine		Invalid Compound ID	KDZ4	08/22/22 09:54
Anthracene	10.17	Poor chromatography	KDZ4	08/22/22 09:46
Carbazole	10.28	Poor chromatography	KDZ4	08/22/22 09:47

Lab Sample ID: ICV 240-539537/11 Client Sample ID: _____Date Analyzed: 08/19/22 14:32 Lab File ID: 20819011.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	7.67	Poor chromatography	KDZ4	08/22/22 09:57
Carbazole	10.28	Poor chromatography	KDZ4	08/22/22 10:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 541870Lab Sample ID: CCV 240-541870/2 CCVIS Client Sample ID: _____Date Analyzed: 09/08/22 13:06 Lab File ID: 20908002.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.92	Poor chromatography	KDZ4	09/08/22 13:28
Benzo[b]fluoranthene	14.01	Poor chromatography	KDZ4	09/08/22 13:29
Benzo[k]fluoranthene	14.05	Poor chromatography	KDZ4	09/08/22 13:29
Benzo[g,h,i]perylene	16.75	Poor chromatography	KDZ4	09/08/22 13:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 542054Lab Sample ID: CCV 240-542054/2 CCVIS Client Sample ID: _____Date Analyzed: 09/09/22 11:56 Lab File ID: 20909002.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.87	Poor chromatography	KDZ4	09/09/22 12:21
Benzo[g,h,i]perylene	16.61	Poor chromatography	KDZ4	09/09/22 12:22

Lab Sample ID: 500-221506-2 Client Sample ID: B-2 (2'-4')Date Analyzed: 09/09/22 14:07 Lab File ID: 20909008.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene		Invalid Compound ID	KDZ4	09/12/22 13:12
Benzo[b]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:12
Benzo[k]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:12
Fluorene		Invalid Compound ID	KDZ4	09/12/22 13:12
Pyrene		Invalid Compound ID	KDZ4	09/12/22 13:12

Lab Sample ID: 500-221506-4 Client Sample ID: B-4 (20'-22')Date Analyzed: 09/09/22 14:29 Lab File ID: 20909009.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene		Invalid Compound ID	KDZ4	09/12/22 13:12
Benzo[b]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:12
Benzo[k]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:12
Pyrene		Invalid Compound ID	KDZ4	09/12/22 13:12

Lab Sample ID: 500-221506-1 Client Sample ID: B-1 (6'-8')Date Analyzed: 09/09/22 14:51 Lab File ID: 20909010.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene		Invalid Compound ID	KDZ4	09/12/22 13:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Analysis Batch Number: 542054Lab Sample ID: 500-221506-3 Client Sample ID: B-3 (22'-23.5')Date Analyzed: 09/09/22 15:13 Lab File ID: 20909011.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene		Invalid Compound ID	KDZ4	09/12/22 13:13
Benzo[k]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:13
Pyrene		Invalid Compound ID	KDZ4	09/12/22 13:13

Lab Sample ID: 500-221506-6 Client Sample ID: B-6 (30'-32')Date Analyzed: 09/09/22 15:38 Lab File ID: 20909012.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene		Invalid Compound ID	KDZ4	09/12/22 13:14

Lab Sample ID: 500-221506-8 Client Sample ID: Dup-1Date Analyzed: 09/09/22 16:00 Lab File ID: 20909013.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene		Invalid Compound ID	KDZ4	09/12/22 13:14
Benzo[k]fluoranthene		Invalid Compound ID	KDZ4	09/12/22 13:14
Phenanthrene		Invalid Compound ID	KDZ4	09/12/22 13:14
Pyrene		Invalid Compound ID	KDZ4	09/12/22 13:14

Lab Sample ID: 500-221506-5 Client Sample ID: B-5 (8'-10')Date Analyzed: 09/09/22 16:22 Lab File ID: 20909014.D GC Column: RXI-5SILMS/II ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene		Invalid Compound ID	KDZ4	09/12/22 13:14
Phenanthrene		Invalid Compound ID	KDZ4	09/12/22 13:14

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 539023

Lab Sample ID: STD005 240-539023/4 IC Client Sample ID: _____

Date Analyzed: 08/16/22 10:18 Lab File ID: P4081604.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 5	5.15	Baseline Smoothing	WRR8	08/17/22 07:48

Lab Sample ID: STD01 240-539023/5 IC Client Sample ID: _____

Date Analyzed: 08/16/22 10:36 Lab File ID: P4081605.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1262		Unspecified		
PCB-1262 Peak 1	7.80	Baseline Smoothing	WRR8	08/17/22 07:53
PCB-1262 Peak 2	8.23	Baseline Smoothing	WRR8	08/17/22 07:53
PCB-1262 Peak 3	8.51	Baseline Smoothing	WRR8	08/17/22 07:53

Lab Sample ID: STD15 240-539023/9 IC Client Sample ID: _____

Date Analyzed: 08/16/22 11:46 Lab File ID: P4081609.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1262		Unspecified		
PCB-1262 Peak 1	7.01	Baseline Smoothing	WRR8	08/17/22 07:54
PCB-1262 Peak 2	7.41	Baseline Smoothing	WRR8	08/17/22 07:54
PCB-1262 Peak 3	7.65	Baseline Smoothing	WRR8	08/17/22 07:54
PCB-1262 Peak 4	7.95	Baseline Smoothing	WRR8	08/17/22 07:54
PCB-1262 Peak 5	8.25	Baseline Smoothing	WRR8	08/17/22 07:54

Lab Sample ID: STD005 240-539023/16 IC Client Sample ID: _____

Date Analyzed: 08/16/22 13:50 Lab File ID: P4081616.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.66	Split Peak	WRR8	08/17/22 07:57

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 539023

Lab Sample ID: STD01 240-539023/17 IC Client Sample ID: _____

Date Analyzed: 08/16/22 14:07 Lab File ID: P4081617.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.66	Split Peak	WRR8	08/17/22 07:57

Lab Sample ID: STD02 240-539023/18 IC Client Sample ID: _____

Date Analyzed: 08/16/22 14:25 Lab File ID: P4081618.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.64	Split Peak	WRR8	08/17/22 07:58

Lab Sample ID: STD05 240-539023/19 IC Client Sample ID: _____

Date Analyzed: 08/16/22 14:43 Lab File ID: P4081619.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.66	Baseline Smoothing	WRR8	08/17/22 07:58
PCB-1248 Peak 3	5.36	Baseline Smoothing	WRR8	08/17/22 07:58

Lab Sample ID: STD1 240-539023/20 IC Client Sample ID: _____

Date Analyzed: 08/16/22 15:00 Lab File ID: P4081620.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.65	Split Peak	WRR8	08/17/22 07:59

Lab Sample ID: STD15 240-539023/21 IC Client Sample ID: _____

Date Analyzed: 08/16/22 15:18 Lab File ID: P4081621.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.65	Baseline Smoothing	WRR8	08/17/22 08:00

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 539023

Lab Sample ID: STD005 240-539023/28 IC Client Sample ID: _____

Date Analyzed: 08/16/22 17:21 Lab File ID: P4081628.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 3	8.15	Baseline Smoothing	WRR8	08/17/22 08:02

Lab Sample ID: STD01 240-539023/29 IC Client Sample ID: _____

Date Analyzed: 08/16/22 17:39 Lab File ID: P4081629.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260		Unspecified		
PCB-1260 Peak 1	7.60	Baseline Smoothing	WRR8	08/17/22 08:02
PCB-1260 Peak 2	7.81	Baseline Smoothing	WRR8	08/17/22 08:02
PCB-1260 Peak 3	8.15	Baseline Smoothing	WRR8	08/17/22 08:02
PCB-1260 Peak 4	8.73	Baseline Smoothing	WRR8	08/17/22 08:02

Lab Sample ID: ICV 240-539023/34 Client Sample ID: _____

Date Analyzed: 08/16/22 19:06 Lab File ID: P4081634.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 2	3.34	Peak assignment corrected	WRR8	08/17/22 08:04
PCB-1221 Peak 3	3.40	Peak assignment corrected	WRR8	08/17/22 08:04

Lab Sample ID: ICV 240-539023/34 Client Sample ID: _____

Date Analyzed: 08/16/22 19:06 Lab File ID: P4081634.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 2	4.25	Peak assignment corrected	WRR8	08/17/22 08:04
PCB-1221 Peak 3	4.34	Peak assignment corrected	WRR8	08/17/22 08:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 539023

Lab Sample ID: ICV 240-539023/37 Client Sample ID: _____

Date Analyzed: 08/16/22 19:59 Lab File ID: P4081637.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 2	4.65	Split Peak	WRR8	08/17/22 08:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542067

Lab Sample ID: 500-221506-5 MS Client Sample ID: B-5 (8'-10') MS

Date Analyzed: 09/09/22 17:58 Lab File ID: P4090918.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542067

Lab Sample ID: 500-221506-5 MS Client Sample ID: B-5 (8'-10') MS

Date Analyzed: 09/09/22 17:58 Lab File ID: P4090918.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542067

Lab Sample ID: 500-221506-5 MSD Client Sample ID: B-5 (8'-10') MSD

Date Analyzed: 09/09/22 18:16 Lab File ID: P4090919.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542067

Lab Sample ID: 500-221506-5 MSD Client Sample ID: B-5 (8'-10') MSD

Date Analyzed: 09/09/22 18:16 Lab File ID: P4090919.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1221 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1232 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1248 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1254 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542067

Lab Sample ID: 500-221506-8 Client Sample ID: Dup-1

Date Analyzed: 09/09/22 18:51 Lab File ID: P4090921.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242		Unspecified		
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

Lab Sample ID: 500-221506-8 Client Sample ID: Dup-1

Date Analyzed: 09/09/22 18:51 Lab File ID: P4090921.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242		Unspecified		
PCB-1242 Peak 1		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 2		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 3		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 4		Invalid Compound ID	WRR8	09/10/22 07:42
PCB-1242 Peak 5		Invalid Compound ID	WRR8	09/10/22 07:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Analysis Batch Number: 542120

Lab Sample ID: 500-221506-1 Client Sample ID: B-1 (6'-8')

Date Analyzed: 09/12/22 11:05 Lab File ID: P4091217.D GC Column: CLP-1 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 2		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 3		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 4		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 5		Invalid Compound ID	WRR8	09/12/22 11:24

Lab Sample ID: 500-221506-1 Client Sample ID: B-1 (6'-8')

Date Analyzed: 09/12/22 11:05 Lab File ID: P4091217.D GC Column: CLP-2 (0.53mm ID: 0.53 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 2		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 3		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 4		Invalid Compound ID	WRR8	09/12/22 11:24
PCB-1016 Peak 5		Invalid Compound ID	WRR8	09/12/22 11:24

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
2ETTOL WK STD 00173	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	2ETTOL PT STD 00044	200 uL	2-Ethyltoluene	100 ug/mL
.2ETTOL PT STD 00044	07/07/22	04/07/22	METHANOL, Lot NA	1 mL	2ETHYLTOL STD 00008	1 mL	2-Ethyltoluene	1000 ug/mL
..2ETHYLTOL STD 00008	06/01/25		ABSOLUTE STD, Lot 060120		(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
2ETTOL WK STD 00179	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	2ETTOL PT STD 00045	200 uL	2-Ethyltoluene	100 ug/mL
.2ETTOL PT STD 00045	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	2ETHYLTOL STD 00008	1 mL	2-Ethyltoluene	1000 ug/mL
..2ETHYLTOL STD 00008	06/01/25		ABSOLUTE STD, Lot 060120		(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
8260 23DCP WK 00233	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 23DCP PT 00059	200 uL	2,3-Dichloro-1-propene	100 ug/mL
.8260 23DCP PT 00059	07/07/22	04/07/22	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN 00010	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
..2,3DICL1PRPEN 00010	12/16/23		ABSOLUTE STD, Lot 121620		(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
8260 23DCP WK 00239	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 23DCP PT 00060	200 uL	2,3-Dichloro-1-propene	100 ug/mL
.8260 23DCP PT 00060	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	2,3DCLPRPNSPK 00014	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
..2,3DCLPRPNSPK 00014	12/22/24		O2Si, Lot 433416		(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
8260 GAS SPK_00191	01/25/22	01/18/22	METHANOL, Lot 210693	2 mL	8260 GASSPKPT_00063	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00063	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	GASES SPK STK_00016	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00016	02/29/24		Restek, Lot A0168991		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 GAS SPK_00204	06/29/22	06/22/22	METHANOL, Lot 280559	2 mL	8260 GASSPKPT_00065	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00065	07/12/22	04/12/22	METHANOL, Lot NA	1 mL	GASES SPK STK_00017	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00017	02/29/24		Restek, Lot A0168991		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 GAS SPK_00207	08/04/22	07/28/22	METHANOL, Lot 280559	2 mL	8260 GASSPKPT_00066	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260 GASSPKPT_00066	10/19/22	07/19/22	METHANOL, Lot NA	1 mL	GASES SPK STK_00017	1 mL	Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
							Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
..GASES SPK STK_00017	02/29/24		Restek, Lot A0168991		(Purchased Reagent)		Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
							Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
8260 KET SPK_00154	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260KETSPKPT_00055	8 uL	2-Butanone (MEK)	50 ug/mL
							2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
							.8260KETSPKPT_00055	04/18/22
2-Hexanone	12500 ug/mL							
Acetone	12500 ug/mL							
methyl isobutyl ketone	12500 ug/mL							
..KET SPK STK_00015	08/31/23		Restek, Lot a0163783		(Purchased Reagent)			
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
							8260 KET SPK_00163	07/05/22
2-Hexanone	50 ug/mL							
Acetone	50 ug/mL							
methyl isobutyl ketone	50 ug/mL							
.8260KETSPKPT_00057	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	KET SPK STK_00016	1 mL		
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
							..KET SPK STK_00016	08/31/23
2-Hexanone	12500 ug/mL							
Acetone	12500 ug/mL							
methyl isobutyl ketone	12500 ug/mL							
8260 KET SPK_00165	08/02/22	07/19/22	METHANOL, Lot 210693	2 mL	8260KETSPKPT_00057	8 uL		
							2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
							.8260KETSPKPT_00057	09/28/22
2-Hexanone	12500 ug/mL							
Acetone	12500 ug/mL							
methyl isobutyl ketone	12500 ug/mL							
..KET SPK STK_00016	08/31/23		Restek, Lot A0167987		(Purchased Reagent)			
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00164	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	1,4DIOX-d8 IS 00018	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00051	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT 00049	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS 00018	11/30/24		Restek, Lot A0178063				1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00051	07/15/22	04/15/22	n/a, Lot NA	1 mL	8260A IS SK_00017	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00017	04/30/26		Restek, Lot A0171363				1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT 00049	07/15/22	04/15/22	n/a, Lot NA	1 mL	T-BUOH-d9 IS 00011	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS 00011	12/31/23		Restek, Lot A0166978				TBA-d9 (IS)	20000 ug/mL
8260 LOWIS1_00166	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	1,4DIOX-d8 IS 00019	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00052	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT 00050	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS 00019	03/31/25		Restek, Lot A0182617				1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00052	09/28/22	06/28/22	n/a, Lot NA	1 mL	8260A IS SK_00017	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00017	04/30/26		Restek, Lot A0171363				1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT 00050	09/28/22	06/28/22	n/a, Lot NA	1 mL	T-BUOH-d9 IS 00011	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS 00011	12/31/23		Restek, Lot A0166978				TBA-d9 (IS)	20000 ug/mL
8260 LOWIS1_00170	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	1,4DIOX-d8 IS 00020	1 mL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00054	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT 00052	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS 00020	06/30/25		Restek, Lot A0185889				1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00054	10/28/22	07/28/22	n/a, Lot NA	1 mL	8260A IS SK_00018	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00018	01/31/27		Restek, Lot A0180349				1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT 00052	10/28/22	07/28/22	n/a, Lot NA	1 mL	T-BUOH-d9 IS 00012	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS 00012	12/31/23		Restek, Lot A0166978				TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00186	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260/624 SSPT_00029	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260/624 SSPT_00029	04/18/22	01/18/22	na, Lot NA	5 mL	8260 SS PT_00063	5 mL	Toluene-d8 (Surr)	50 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00063	05/31/26		Restek, Lot A0172587			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 LOWSS1_00193	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624 SSPT_00033	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00033	08/02/22	05/02/22	na, Lot NA	5 mL	8260 SS PT_00063	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00063	05/31/26		Restek, Lot A0172587			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 LOWSS1_00198	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624 SSPT_00035	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00035	09/22/22	06/22/22	na, Lot NA	5 mL	8260 SS PT_00064	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00064	05/31/26		Restek, Lot A0172587			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 LOWSS1_00200	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260/624 SSPT_00037	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00037	10/28/22	07/28/22	na, Lot NA	5 mL	8260 SS PT_00064	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00064	05/31/26		Restek, Lot A0172587			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00155	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260MEGASPKPT_00062	40 uL	1,1,1-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00062	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	MEGA SPK STK_00019	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00019	06/30/23		Restek, Lot a0167172		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260 MEGA SPK_00166	07/12/22	06/28/22	METHANOL, Lot 280559	2 mL	8260MEGASPKPT_00064	40 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00064	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	MEGA SPK STK_00019	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00019	06/30/23		Restek, Lot a0167172		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260 MEGA SPK_00167	08/02/22	07/19/22	METHANOL, Lot 280559	2 mL	8260MEGASPKPT_00064	40 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00064	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	MEGA SPK STK_00019	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00019	06/30/23		Restek, Lot a0167172			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWB_00645	01/25/22	01/18/22	Water, Lot na	2 mL	8260/624ACRPT_00261	400 uL	Acrolein	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260/624ACRPT_00261	04/18/22	01/18/22	Water, Lot NA	1 mL	8260 ACROLEIN_00069	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00069	07/31/22		Restek, Lot A0168111		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624ACRWK_00666	05/21/22	05/14/22	Water, Lot na	2 mL	8260/624ACRPT_00271	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00271	08/10/22	05/10/22	Water, Lot NA	1 mL	8260 ACROLEIN_00071	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00071	02/28/23		Restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624ACRWK_00675	07/05/22	06/28/22	Water, Lot na	2 mL	8260/624ACRPT_00274	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00274	09/28/22	06/28/22	Water, Lot NA	1 mL	8260 ACROLEIN_00072	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00072	02/28/23		Restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624ACRWK_00681	08/05/22	07/29/22	Water, Lot na	2 mL	8260/624ACRPT_00277	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00277	10/29/22	07/29/22	Water, Lot NA	1 mL	8260 ACROLEIN_00073	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00073	08/31/23		Restek, Lot A0182162		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_01335	01/25/22	01/18/22	METHANOL, Lot 210693	2 mL	8260/624GASPT_00216	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00216	07/11/22	01/11/22	na, Lot na	1 mL	8260/624 GAS_00035	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00035	04/30/24		Restek, Lot A0171131		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01433	05/21/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00233	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00233	08/11/22	05/11/22	na, Lot na	1 mL	8260/624 GAS_00040	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00040	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01452	07/05/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00239	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00239	09/28/22	06/28/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01464	08/05/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00242	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00242	10/28/22	07/28/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01474	09/08/22	09/01/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00243	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00243	11/25/22	08/25/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01475	09/09/22	09/02/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00244	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00244	12/02/22	09/02/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_01476	09/15/22	09/08/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00244	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00244	12/02/22	09/02/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00041	01/31/25		Restek, Lot A0180996		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00569	01/28/22	01/14/22	METHANOL, Lot 210693	2 mL	8260/624KETPT_00094	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00094	03/10/22	12/10/21	na, Lot na	1 mL	8260/624 KET_00024	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00024	07/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00617	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00101	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00101	08/14/22	05/14/22	na, Lot na	1 mL	8260/624 KET_00025	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00025	07/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00629	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00103	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00103	09/22/22	06/22/22	na, Lot na	1 mL	8260/624 KET_00025	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00025	07/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00635	08/12/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00104	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00104	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 KET_00026	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00026	01/31/25		Restek, Lot A0180742		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00640	09/09/22	08/26/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00104	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00104	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 KET_00026	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00026	01/31/25		Restek, Lot A0180742		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_01267	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260/624MEGPT_00216	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260/624MEGPT_00216	04/04/22	01/04/22	na, Lot na	1 mL	8260/624 Mega_00036	1 mL	trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
							1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
Carbon disulfide	2500 ug/mL							
Carbon tetrachloride	2500 ug/mL							
Chlorobenzene	2500 ug/mL							
Chlorobromomethane	2500 ug/mL							
Chlorodibromomethane	2500 ug/mL							
Chloroform	2500 ug/mL							
cis-1,2-Dichloroethene	2500 ug/mL							
cis-1,3-Dichloropropene	2500 ug/mL							
Cyclohexane	2500 ug/mL							
Dibromomethane	2500 ug/mL							
Dichlorobromomethane	2500 ug/mL							
Ethyl ether	2500 ug/mL							
Ethyl methacrylate	2500 ug/mL							
Ethylbenzene	2500 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00036	10/31/22		Restek, Lot A0159680			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_01267	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260/624MEGPT_00216	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00216	04/04/22	01/04/22	na, Lot na	1 mL	8260/624 Mega_00036	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00036	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_01363	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00234	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropane	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00234	08/14/22	05/14/22	na, Lot na	1 mL	8260/624 Mega_00039	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00039	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_01363	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00234	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00234	08/14/22	05/14/22	na, Lot na	1 mL	8260/624 Mega_00039	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00039	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_01389	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00238	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00238	09/28/22	06/28/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00041	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_01389	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00238	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00238	09/28/22	06/28/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00041	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_01401	08/12/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00241	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00241	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00041	09/30/24		Restek, Lot A0183568			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropene	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_01401	08/12/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00241	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00241	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	Xylenes, Total	5000 ug/mL
.8260/624 Mega_00041	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_01413	09/08/22	08/25/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00242	80 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00242	11/11/22	08/11/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00041	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624MEGWK_01415	09/13/22	08/29/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00242	80 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							Benzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00242	11/11/22	08/11/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00041	09/30/24		Restek, Lot A0183568			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624STD2_00317	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260 MENAP PT_00042	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
.8260 MENAP PT_00042	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260PENTACLEPT_00039	80 uL	Pentachloroethane	100 ug/mL
..8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
.8260PENTACLEPT_00039	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	PENTACLE SPK_00008	1 mL	Pentachloroethane	2500 ug/mL
..PENTACLE SPK_00008	02/29/24		Restek, Lot A0146080		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
8260/624STD2_00328	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 MENAP PT_00043	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
.8260 MENAP PT_00043	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260PENTACLEPT_00041	80 uL	Pentachloroethane	100 ug/mL
..8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
.8260PENTACLEPT_00041	07/22/22	04/22/22	METHANOL, Lot NA	1 mL	8260 PENTACLE_00009	1 mL	Pentachloroethane	2500 ug/mL
..8260 PENTACLE_00009	02/28/26		Restek, Lot A0168804		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
8260/624STD2_00336	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 MENAP PT_00045	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
.8260 MENAP PT_00045	10/11/22	07/11/22	METHANOL, Lot NA	1 mL	8260PENTACLEPT_00043	80 uL	Pentachloroethane	100 ug/mL
..8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260PENTCLEPT_00043	10/11/22	07/11/22	METHANOL, Lot NA	1 mL	8260 PENTACLE_00009	1 mL	Pentachloroethane	2500 ug/mL
..8260 PENTACLE_00009	02/28/26		Restek, Lot A0168804		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
8260/624STD2_00338	09/10/22	08/27/22	METHANOL, Lot 288059	2 mL	8260 MENAP_PT_00045	80 uL	2-Methylnaphthalene	100 ug/mL
.8260 MENAP_PT_00045	10/11/22	07/11/22	METHANOL, Lot NA	1 mL	8260 MENAPH_00007	1 mL	2-Methylnaphthalene	2500 ug/mL
..8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
8260ADDS_2016_00203	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260LIST2/6PT_00040	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00044	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
.8260LIST2/6PT_00040	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260 LIST2/#6_00008	09/22/22		Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.8260LIST2/7PT_00044	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..8260 LIST2/#7_00009	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260ADDS 2016_00214	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260LIST2/6PT_00041	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
					Methacrylonitrile	1000 ug/mL		
					n-Butanol	2500 ug/mL		
					8260LIST2/7PT_00045	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
.8260LIST2/6PT_00041	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260 LIST2/#6_00008	09/22/22	Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL	
						1,3,5-Trichlorobenzene	2500 ug/mL	
						1-Chlorohexane	2500 ug/mL	
						2-Chloro-1,3-butadiene	2500 ug/mL	
						2-Nitropropane	5000 ug/mL	
						Benzyl chloride	2500 ug/mL	
						Isooctane	2500 ug/mL	
						Isopropyl alcohol	25000 ug/mL	
						Methacrylonitrile	25000 ug/mL	
						n-Butanol	62500 ug/mL	
.8260LIST2/7PT_00045	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..8260 LIST2/#7_00009	12/31/22	Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL	
						Ethyl acrylate	2500 ug/mL	
						Methyl methacrylate	5000 ug/mL	
						n-Butyl acetate	2500 ug/mL	
8260ADDS 2016_00221	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260LIST2/6PT_00042	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
					8260LIST2/7PT_00046	80 uL	n-Butanol	2500 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
.8260LIST2/6PT_00042	09/22/22	06/23/22	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260 LIST2/#6_00008	09/22/22		Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.8260LIST2/7PT_00046	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..8260 LIST2/#7_00009	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
8260CYCHXWK 00313	02/01/22	01/18/22	Water, Lot NA	2 mL	8260 CYCHX PT 00064	800 uL	Cyclohexanone	10000 ug/mL
.8260 CYCHX PT 00064	12/31/23		Restek, Lot A0167351		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
8260CYCHXWK 00324	05/27/22	05/13/22	Water, Lot NA	2 mL	8260 CYCHX PT 00066	800 uL	Cyclohexanone	10000 ug/mL
.8260 CYCHX PT 00066	08/31/24		Restek, Lot A0175475		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
8260CYCHXWK 00330	08/11/22	07/28/22	Water, Lot NA	2 mL	8260 CYCHX PT 00070	800 uL	Cyclohexanone	10000 ug/mL
.8260 CYCHX PT 00070	03/31/25		Restek, Lot A0182677		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
8260LOW IS/SS_00304	05/25/22	05/11/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00080	5 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00080	03/31/26		Restek, Lot A0170206			(Purchased Reagent)	1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00304	05/25/22	05/11/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00080	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00080	03/31/26		Restek, Lot A0170206			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00308	07/04/22	06/20/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00082	5 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00082	03/31/26		Restek, Lot A0170206			(Purchased Reagent)	1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00308	07/04/22	06/20/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00082	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00082	03/31/26		Restek, Lot A0170206			(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00310	07/31/22	07/17/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00084	5 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00084	04/30/27		Restek, Lot A0183986			(Purchased Reagent)	1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00310	07/31/22	07/17/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00084	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260 IS/SS SK_00084	04/30/27		Restek, Lot A0183986		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00311	08/14/22	07/31/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00084	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00084	04/30/27		Restek, Lot A0183986		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00313	09/11/22	08/28/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00085	5 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00085	04/30/27		Restek, Lot A0183986		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00313	09/11/22	08/28/22	METHANOL, Lot 258810	25 mL	8260 IS/SS SK_00085	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00085	04/30/27		Restek, Lot A0183986		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260POLR ADDS_00275	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260 ETOH PT 00025	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00054	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.8260 ETOH PT 00025	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 ETOH STD_00004	1 mL	Ethanol	100000 ug/mL
.8260 ETOH STD_00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
.8260POLRADDPT_00054	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260POLARADDS_00011	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.8260POLARADDS_00011	03/31/22		Restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-butyl ethyl ether	2500 ug/mL
8260POLR ADDS_00286	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 ETOH PT 00026	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00055	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.8260 ETOH PT 00026	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 ETOH STD 00004	1 mL	Ethanol	100000 ug/mL
..8260 ETOH STD 00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
.8260POLRADDPT_00055	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260POLARADDS_00012	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00012	06/30/23		Restek, Lot A0172903		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260POLR ADDS_00294	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 ETOH PT 00027	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00056	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.8260 ETOH PT 00027	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260 ETOH STD 00004	1 mL	Ethanol	100000 ug/mL
..8260 ETOH STD 00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
.8260POLRADDPT_00056	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260POLARADDS_00012	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00012	06/30/23		Restek, Lot A0172903		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260VA/2CEVE_00570	01/25/22	01/18/22	METHANOL, Lot 207705	2 mL	8260/624 VAPT 00101	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT 00088	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT 00101	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	8260/624 VA 00045	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA 00045	07/31/22		Restek, Lot A0168154		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT 00088	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	8260/624 CEVE 00019	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE 00019	03/31/23		Restek, Lot A0158872		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00591	05/21/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00106	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT 00093	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00106	08/14/22	05/14/22	METHANOL, Lot NA	1 mL	8260/624 VA_00046	1 mL	Vinyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8260/624 VA 00046	01/31/23		Restek, Lot A0174298			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
.8260/624CEVPT 00093	08/14/22	05/14/22	METHANOL, Lot NA	1 mL	8260/624 CEVE 00020	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE 00020	03/31/23		Restek, Lot A0158872			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00600	07/05/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00108	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT 00095	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT 00108	09/22/22	06/22/22	METHANOL, Lot NA	1 mL	8260/624 VA 00046	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA 00046	01/31/23		Restek, Lot A0174298			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
.8260/624CEVPT 00095	09/22/22	06/22/22	METHANOL, Lot NA	1 mL	8260/624 CEVE 00021	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE 00021	09/30/24		Restek, Lot A0176827			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00606	08/05/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00109	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT 00096	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT 00109	10/29/22	07/29/22	METHANOL, Lot NA	1 mL	8260/624 VA 00046	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA 00046	01/31/23		Restek, Lot A0174298			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
.8260/624CEVPT 00096	10/29/22	07/29/22	METHANOL, Lot NA	1 mL	8260/624 CEVE 00022	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE 00022	01/31/25		Restek, Lot A0180640			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00610	09/08/22	09/01/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00109	40 uL	Vinyl acetate	100 ug/mL
.8260/624 VAPT 00109	10/29/22	07/29/22	METHANOL, Lot NA	1 mL	8260/624 VA 00046	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA 00046	01/31/23		Restek, Lot A0174298			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
8260VA/2CEVE_00611	09/09/22	09/02/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00110	40 uL	Vinyl acetate	100 ug/mL
.8260/624 VAPT 00110	12/02/22	09/02/22	METHANOL, Lot NA	1 mL	8260/624 VA 00047	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA 00047	06/30/23		Restek, Lot A0179890			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
BFB STD WK_00293							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
.BFB WK PT 00062	03/28/22	12/28/21	1, Lot NA	1 mL	BFB WK PT 00062	25 uL	BFB	25 ug/mL
..BFB STD SK 00010	07/31/22		ultra scientific, Lot 0006476760		BFB STD SK 00010	1 mL	BFB	2000 ug/mL
						(Purchased Reagent)	BFB	2000 ug/mL
BFB STD WK_00307							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
.BFB WK PT 00064	08/05/22	05/05/22	1, Lot NA	1 mL	BFB WK PT 00064	25 uL	BFB	25 ug/mL
..BFB STD SK 00011	09/30/28		ultra scientific, Lot 0006629793		BFB STD SK 00011	1 mL	BFB	2000 ug/mL
						(Purchased Reagent)	BFB	2000 ug/mL
BFB STD WK_00314							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							Trimethylbenzene, Total		
							Xylenes, Total		
.BFB WK PT 00064	08/05/22	05/05/22	1, Lot NA	1 mL	BFB WK PT 00064	25 uL	BFB	25 ug/mL	
..BFB STD SK 00011	09/30/28		ultra scientific, Lot 0006629793		BFB STD SK 00011	1 mL	BFB	2000 ug/mL	
							(Purchased Reagent)	BFB	2000 ug/mL
BFB STD WK_00317							1,2-Dichloroethene, Total		
							1,3-Dichloropropene, Total		
							Tentatively Identified Compound		
							Trihalomethanes, Total		
							Trimethylbenzene, Total		
							Xylenes, Total		
.BFB WK PT 00065	09/30/22	06/30/22	1, Lot NA	1 mL	BFB WK PT 00065	25 uL	BFB	25 ug/mL	
..BFB STD SK 00011	09/30/28		ultra scientific, Lot 0006629793		BFB STD SK 00011	1 mL	BFB	2000 ug/mL	
							(Purchased Reagent)	BFB	2000 ug/mL
BFB STD WK_00320							1,2-Dichloroethene, Total		
							1,3-Dichloropropene, Total		
							Tentatively Identified Compound		
							Trihalomethanes, Total		
							Trimethylbenzene, Total		
							Xylenes, Total		
.BFB WK PT 00065	09/30/22	06/30/22	1, Lot NA	1 mL	BFB WK PT 00065	25 uL	BFB	25 ug/mL	
..BFB STD SK 00011	09/30/28		ultra scientific, Lot 0006629793		BFB STD SK 00011	1 mL	BFB	2000 ug/mL	
							(Purchased Reagent)	BFB	2000 ug/mL
BFB STD WK_00321							1,2-Dichloroethene, Total		
							1,3-Dichloropropene, Total		
							Tentatively Identified Compound		
							Trihalomethanes, Total		
							Trimethylbenzene, Total		
							Xylenes, Total		
.BFB WK PT 00065	09/30/22	06/30/22	1, Lot NA	1 mL	BFB WK PT 00065	25 uL	BFB	25 ug/mL	
..BFB STD SK 00011	09/30/28		ultra scientific, Lot 0006629793		BFB STD SK 00011	1 mL	BFB	2000 ug/mL	
							(Purchased Reagent)	BFB	2000 ug/mL
CPS#16 IS/SS_00117	01/25/22	01/11/22	1, Lot NA	5 mL	8260 IS/SS SK_00075	1.0686 uL	1,4-Dichlorobenzene-d4	53.43 ug/L	
							1,4-Dioxane-d8	1068.6 ug/L	
							Chlorobenzene-d5	53.43 ug/L	
							Fluorobenzene (IS)	53.43 ug/L	
							TBA-d9 (IS)	1068.6 ug/L	
.8260 IS/SS SK_00075	03/31/26		Restek, Lot A0170206				1,4-Dichlorobenzene-d4	250 ug/mL	
							1,4-Dioxane-d8	5000 ug/mL	
							Chlorobenzene-d5	250 ug/mL	
							Fluorobenzene (IS)	250 ug/mL	
							TBA-d9 (IS)	5000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CPS#16 IS/SS_00117	01/25/22	01/11/22	1, Lot NA	5 mL	8260 IS/SS SK_00075	1.0686 uL	1,2-Dichloroethane-d4 (Surr)	53.43 ug/L
							4-Bromofluorobenzene (Surr)	53.43 ug/L
							Dibromofluoromethane	53.43 ug/L
							Toluene-d8 (Surr)	53.43 ug/L
.8260 IS/SS SK_00075	03/31/26		Restek, Lot A0170206		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
CPS#16 IS/SS_00132	09/15/22	09/01/22	1, Lot NA	5 mL	8260 IS/SS SK_00079	1.0686 uL	1,4-Dichlorobenzene-d4	53.43 ug/L
							1,4-Dioxane-d8	1068.6 ug/L
							Chlorobenzene-d5	53.43 ug/L
							Fluorobenzene (IS)	53.43 ug/L
							TBA-d9 (IS)	1068.6 ug/L
.8260 IS/SS SK_00079	03/31/26		Restek, Lot A0170206		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
CPS#16 IS/SS_00132	09/15/22	09/01/22	1, Lot NA	5 mL	8260 IS/SS SK_00079	1.0686 uL	1,2-Dichloroethane-d4 (Surr)	53.43 ug/L
							4-Bromofluorobenzene (Surr)	53.43 ug/L
							Dibromofluoromethane	53.43 ug/L
							Toluene-d8 (Surr)	53.43 ug/L
							.8260 IS/SS SK_00079	03/31/26
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
INST16 IS_00032	02/01/22	01/18/22	1, Lot NA	5 mL	8260 IS 2014_00010	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
.8260 IS 2014_00010	01/31/26		Restek, Lot A0168626		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
LEVEL1 8260_00012	12/23/29	05/14/22	1, Lot NA	1 mL	8260/624STD_00006	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
.8260/624STD_00006	12/23/29	02/24/22	METHANOL, Lot na	2 mL	8260/624L1GAS_00003	100 uL	Vinyl chloride	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
					8260/624L1MEG_00003	100 uL	Benzene	100 ug/mL	
							Ethylbenzene	100 ug/mL	
							m-Xylene & p-Xylene	100 ug/mL	
							o-Xylene	100 ug/mL	
							Toluene	100 ug/mL	
							Trichloroethene	100 ug/mL	
..8260/624L1GAS_00003	07/29/30		Restek, Lot A092242				(Purchased Reagent)	Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00003	01/01/30		Restek, Lot A092262				(Purchased Reagent)	Benzene	2000 ug/mL
								Ethylbenzene	2000 ug/mL
								m-Xylene & p-Xylene	2000 ug/mL
								o-Xylene	2000 ug/mL
								Toluene	2000 ug/mL
								Trichloroethene	2000 ug/mL
LO8260/624STD_00509	01/25/22	01/18/22	METHANOL, Lot 177891	2 mL	8260/624GASWK_01335	100 uL	Bromomethane	5 ug/mL	
							Butadiene	5 ug/mL	
							Chloroethane	5 ug/mL	
							Chloromethane	5 ug/mL	
							Dichlorodifluoromethane	5 ug/mL	
							Dichlorofluoromethane	5 ug/mL	
							Trichlorofluoromethane	5 ug/mL	
							Vinyl chloride	5 ug/mL	
					8260/624KETWK_00570	100 uL	2-Butanone (MEK)	5 ug/mL	
							2-Hexanone	5 ug/mL	
							Acetone	5 ug/mL	
							methyl isobutyl ketone	5 ug/mL	
					8260/624MEGWK_01267	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL	
							1,1,1-Trichloroethane	5 ug/mL	
							1,1,2,2-Tetrachloroethane	5 ug/mL	
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL	
							1,1,2-Trichloroethane	5 ug/mL	
							1,1-Dichloroethane	5 ug/mL	
							1,1-Dichloroethene	5 ug/mL	
							1,1-Dichloropropene	5 ug/mL	
							1,2,3-Trichlorobenzene	5 ug/mL	
							1,2,3-Trichloropropane	5 ug/mL	
							1,2,4-Trichlorobenzene	5 ug/mL	
							1,2,4-Trimethylbenzene	5 ug/mL	
							1,2-Dibromo-3-Chloropropane	5 ug/mL	
							1,2-Dichlorobenzene	5 ug/mL	
							1,2-Dichloroethane	5 ug/mL	
							1,2-Dichloropropane	5 ug/mL	
							1,3,5-Trimethylbenzene	5 ug/mL	
							1,3-Dichlorobenzene	5 ug/mL	
							1,3-Dichloropropane	5 ug/mL	
							1,4-Dichlorobenzene	5 ug/mL	
							1,4-Dioxane	100 ug/mL	
							2,2-Dichloropropane	5 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.8260/624GASWK_01335	01/25/22	01/18/22	METHANOL, Lot 210693	2 mL	8260VA/2CEVE_00570	100 uL	Trichloroethene	5 ug/mL	
							Vinyl acetate	5 ug/mL	
							2-Chloroethyl vinyl ether	5 ug/mL	
							Bromomethane	100 ug/mL	
							Butadiene	100 ug/mL	
							Chloroethane	100 ug/mL	
							Chloromethane	100 ug/mL	
							Dichlorodifluoromethane	100 ug/mL	
							Dichlorofluoromethane	100 ug/mL	
.8260/624GASPT_00216	07/11/22	01/11/22	na, Lot na	1 mL	8260/624 GAS_00035	1 mL	Bromomethane	2500 ug/mL	
							Butadiene	2500 ug/mL	
							Chloroethane	2500 ug/mL	
							Chloromethane	2500 ug/mL	
							Dichlorodifluoromethane	2500 ug/mL	
							Dichlorofluoromethane	2500 ug/mL	
							Trichlorofluoromethane	2500 ug/mL	
							Vinyl chloride	2500 ug/mL	
							...8260/624 GAS_00035	04/30/24	
Butadiene	2500 ug/mL								
Chloroethane	2500 ug/mL								
Chloromethane	2500 ug/mL								
Dichlorodifluoromethane	2500 ug/mL								
Dichlorofluoromethane	2500 ug/mL								
Trichlorofluoromethane	2500 ug/mL								
Vinyl chloride	2500 ug/mL								
.8260/624KETWK_00570	02/01/22	01/18/22	METHANOL, Lot 210693	2 mL	8260/624KETPT_00095	16 uL			
							2-Hexanone	100 ug/mL	
							Acetone	100 ug/mL	
							methyl isobutyl ketone	100 ug/mL	
							..8260/624KETPT_00095	04/18/22	01/18/22
2-Hexanone	12500 ug/mL								
Acetone	12500 ug/mL								
methyl isobutyl ketone	12500 ug/mL								
...8260/624 KET_00024	07/31/24		Restek, Lot A0174287						
							2-Hexanone	12500 ug/mL	
							Acetone	12500 ug/mL	
							methyl isobutyl ketone	12500 ug/mL	
							.8260/624MEGWK_01267	02/01/22	01/18/22
1,1,1-Trichloroethane	100 ug/mL								
1,1,2,2-Tetrachloroethane	100 ug/mL								
1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL								
1,1,2-Trichloroethane	100 ug/mL								
1,1-Dichloroethane	100 ug/mL								
1,1-Dichloroethene	100 ug/mL								
1,1-Dichloropropene	100 ug/mL								

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00216	04/04/22	01/04/22	na, Lot na	1 mL	8260/624 Mega_00036	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00036	10/31/22		Restek, Lot A0159680			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00570	01/25/22	01/18/22	METHANOL, Lot 207705	2 mL	8260/624 VAPT_00101	40 uL	Vinyl acetate	100 ug/mL
..8260/624 VAPT_00101	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	8260/624CEVPT_00088	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
...8260/624 VA_00045	07/31/22		Restek, Lot A0168154		8260/624 VA_00045	1 mL	Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00088	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	(Purchased Reagent)		Vinyl acetate	5000 ug/mL
...8260/624 CEVE_00019	03/31/23		Restek, Lot A0158872		8260/624 CEVE_00019	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
					(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LO8260/624STD_00531	05/21/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624GASWK_01433	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00617	100 uL	2-Butanone (MEK)	5 ug/mL
							2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_01363	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00591	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_01433	05/21/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00233	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00233	08/11/22	05/11/22	na, Lot na	1 mL	8260/624 GAS_00040	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00040	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00617	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00101	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00101	08/14/22	05/14/22	na, Lot na	1 mL	8260/624 KET_00025	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00025	07/31/24		Restek, Lot A0174287			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_01363	05/28/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00234	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00234	08/14/22	05/14/22	na, Lot na	1 mL	8260/624 Mega_00039	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...8260/624 Mega_00039	10/31/22		Restek, Lot A0159680			(Purchased Reagent)	3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
trans-1,4-Dichloro-2-butene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
							1,1,1,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00591	05/21/22	05/14/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT_00106	40 uL	Vinyl acetate	100 ug/mL
..8260/624 VAPT_00106	08/14/22	05/14/22	METHANOL, Lot NA	1 mL	8260/624CEVPT_00093	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
...8260/624 VA_00046	01/31/23		Restek, Lot A0174298		8260/624 VA_00046	1 mL	Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00093	08/14/22	05/14/22	METHANOL, Lot NA	1 mL	(Purchased Reagent)		Vinyl acetate	5000 ug/mL
...8260/624 CEVE_00020	03/31/23		Restek, Lot A0158872		8260/624 CEVE_00020	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
					(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LO8260/624STD_00540	07/05/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624GASWK_01452	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00629	100 uL	2-Butanone (MEK)	5 ug/mL
							2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_01389	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropane	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00600	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_01452	07/05/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00239	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00239	09/28/22	06/28/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00629	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00103	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00103	09/22/22	06/22/22	na, Lot na	1 mL	8260/624 KET_00025	1 mL	2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00025	07/31/24		Restek, Lot A0174287			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_01389	07/12/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00238	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00238	09/28/22	06/28/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00041	09/30/24		Restek, Lot A0183568			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00600	07/05/22	06/28/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT_00108	40 uL	Vinyl acetate	100 ug/mL
..8260/624 VAPT_00108	09/22/22	06/22/22	METHANOL, Lot NA	1 mL	8260/624CEVPT_00095	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
...8260/624 VA_00046	01/31/23		Restek, Lot A0174298		8260/624 VA_00046	1 mL	Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00095	09/22/22	06/22/22	METHANOL, Lot NA	1 mL	(Purchased Reagent)		Vinyl acetate	5000 ug/mL
...8260/624 CEVE_00021	09/30/24		Restek, Lot A0176827		8260/624 CEVE_00021	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
					(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LO8260/624STD_00548	08/05/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624GASWK_01464	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00635	100 uL	2-Butanone (MEK)	5 ug/mL
							2-Hexanone	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_01401	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00606	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_01464	08/05/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624GASPT_00242	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00242	10/28/22	07/28/22	na, Lot na	1 mL	8260/624 GAS_00041	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00041	01/31/25		Restek, Lot A0180996			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00635	08/12/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624KETPT_00104	16 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00104	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 KET_00026	1 mL	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624 KET_00026	01/31/25		Restek, Lot A0180742			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_01401	08/12/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624MEGPT_00241	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00241	10/29/22	07/29/22	na, Lot na	1 mL	8260/624 Mega_00041	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropene	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropene	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00041	09/30/24		Restek, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00606	08/05/22	07/29/22	METHANOL, Lot 288059	2 mL	8260/624 VAPT 00109	40 uL	Vinyl acetate	100 ug/mL
..8260/624 VAPT 00109	10/29/22	07/29/22	METHANOL, Lot NA	1 mL	8260/624CEVPT 00096	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
...8260/624 VA 00046	01/31/23		Restek, Lot A0174298		(Purchased Reagent)	1 mL	Vinyl acetate	5000 ug/mL
..8260/624CEVPT 00096	10/29/22	07/29/22	METHANOL, Lot NA	1 mL	8260/624 CEVE 00022	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE 00022	01/31/25		Restek, Lot A0180640		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LOW8260ACR_00302	01/25/22	01/18/22	Water, Lot NA	2 mL	8260/624ACRWB_00645	100 uL	Acrolein	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260/624ACRWK_00645	01/25/22	01/18/22	Water, Lot na	2 mL	8260/624ACRPT_00261	400 uL	Acrolein	4000 ug/mL
..8260/624ACRPT_00261	04/18/22	01/18/22	Water, Lot NA	1 mL	8260 ACROLEIN_00069	1 mL	Acrolein	20000 ug/mL
...8260 ACROLEIN_00069	07/31/22		Restek, Lot A0168111		(Purchased Reagent)		Acrolein	20000 ug/mL
LOW8260ACR_00316	05/21/22	05/14/22	Water, Lot NA	2 mL	8260/624ACRWK_00666	100 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00666	05/21/22	05/14/22	Water, Lot na	2 mL	8260/624ACRPT_00271	400 uL	Acrolein	4000 ug/mL
..8260/624ACRPT_00271	08/10/22	05/10/22	Water, Lot NA	1 mL	8260 ACROLEIN_00071	1 mL	Acrolein	20000 ug/mL
...8260 ACROLEIN_00071	02/28/23		Restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
LOW8260ACR_00321	07/05/22	06/28/22	Water, Lot NA	2 mL	8260/624ACRWK_00675	100 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00675	07/05/22	06/28/22	Water, Lot na	2 mL	8260/624ACRPT_00274	400 uL	Acrolein	4000 ug/mL
..8260/624ACRPT_00274	09/28/22	06/28/22	Water, Lot NA	1 mL	8260 ACROLEIN_00072	1 mL	Acrolein	20000 ug/mL
...8260 ACROLEIN_00072	02/28/23		Restek, Lot A0175809		(Purchased Reagent)		Acrolein	20000 ug/mL
LOW8260ACR_00326	08/05/22	07/29/22	Water, Lot NA	2 mL	8260/624ACRWK_00681	100 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00681	08/05/22	07/29/22	Water, Lot na	2 mL	8260/624ACRPT_00277	400 uL	Acrolein	4000 ug/mL
..8260/624ACRPT_00277	10/29/22	07/29/22	Water, Lot NA	1 mL	8260 ACROLEIN_00073	1 mL	Acrolein	20000 ug/mL
...8260 ACROLEIN_00073	08/31/23		Restek, Lot A0182162		(Purchased Reagent)		Acrolein	20000 ug/mL
LOWAPIX_00027	02/01/22	01/18/22	MEOH, Lot 230446	2 mL	8260/624STD2_00317	100 uL	1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Pentachloroethane	5 ug/mL
					8260ADDS_2016_00203	100 uL	1,2,3-Trimethylbenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1-Chlorohexane	5 ug/mL
							2-Chloro-1,3-butadiene	5 ug/mL
							2-Nitropropane	10 ug/mL
							Benzyl chloride	5 ug/mL
							Isooctane	5 ug/mL
							Isopropyl alcohol	50 ug/mL
							Methacrylonitrile	50 ug/mL
							n-Butanol	125 ug/mL
							Ethyl acetate	10 ug/mL
							Ethyl acrylate	5 ug/mL
							Methyl methacrylate	10 ug/mL
							n-Butyl acetate	5 ug/mL
					8260POLR_ADDS_00275	100 uL	Ethanol	200 ug/mL
							Acetonitrile	50 ug/mL
							Isopropyl ether	5 ug/mL
							Propionitrile	50 ug/mL
							Tert-amyl methyl ether	5 ug/mL
							Tert-butyl ethyl ether	5 ug/mL
.8260/624STD2_00317	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260 MENAP_PT_00042	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
..8260 MENAP_PT_00042	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260PENTCLEPT_00039	80 uL	Pentachloroethane	100 ug/mL
...8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		8260 MENAPH_00007	1 mL	1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
					(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..8260PENTCLEPT_00039	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	PENTACLE_SPK_00008	1 mL	Pentachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PENTACLE SPK 00008	02/29/24		Restek, Lot A0146080		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
.8260ADDS 2016_00203	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260LIST2/6PT_00040	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00044	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
..8260LIST2/6PT_00040	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
...8260 LIST2/#6_00008	09/22/22		Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260LIST2/7PT_00044	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
...8260 LIST2/#7_00009	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.8260POLR ADDS_00275	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	8260 ETOH PT_00025	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00054	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260 ETOH PT 00025	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260 ETOH STD 00004	1 mL	Tert-butyl ethyl ether	100 ug/mL
..8260 ETOH STD 00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
..8260POLRADDPT_00054	03/21/22	12/21/21	METHANOL, Lot NA	1 mL	8260POLARADDS_00011	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
...8260POLARADDS_00011	03/31/22		Restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
LOWAPIX_00038	05/26/22	05/12/22	MEOH, Lot 288059	2 mL	2ETTOL WK STD 00173	100 uL	2-Ethyltoluene	5 ug/mL
					8260 23DCP WK 00233	100 uL	2,3-Dichloro-1-propene	5 ug/mL
					8260/624STD2_00328	100 uL	1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Pentachloroethane	5 ug/mL
					8260ADDS 2016_00214	100 uL	1,2,3-Trimethylbenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1-Chlorohexane	5 ug/mL
							2-Chloro-1,3-butadiene	5 ug/mL
							2-Nitropropane	10 ug/mL
							Benzyl chloride	5 ug/mL
							Isooctane	5 ug/mL
							Isopropyl alcohol	50 ug/mL
							Methacrylonitrile	50 ug/mL
							n-Butanol	125 ug/mL
							Ethyl acetate	10 ug/mL
							Ethyl acrylate	5 ug/mL
							Methyl methacrylate	10 ug/mL
							n-Butyl acetate	5 ug/mL
					8260POLR ADDS_00286	100 uL	Ethanol	200 ug/mL
							Acetonitrile	50 ug/mL
							Isopropyl ether	5 ug/mL
							Propionitrile	50 ug/mL
							Tert-amyl methyl ether	5 ug/mL
							Tert-butyl ethyl ether	5 ug/mL
.2ETTOL WK STD 00173	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	2ETTOL PT STD 00044	200 uL	2-Ethyltoluene	100 ug/mL
..2ETTOL PT STD 00044	07/07/22	04/07/22	METHANOL, Lot NA	1 mL	2ETHYLTOL STD 00008	1 mL	2-Ethyltoluene	1000 ug/mL
...2ETHYLTOL STD 00008	06/01/25		ABSOLUTE STD, Lot 060120		(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
.8260 23DCP WK 00233	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 23DCP PT 00059	200 uL	2,3-Dichloro-1-propene	100 ug/mL
..8260 23DCP PT 00059	07/07/22	04/07/22	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN_00010	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
...2,3DICL1PRPEN 00010	12/16/23		ABSOLUTE STD, Lot 121620		(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
.8260/624STD2_00328	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 MENAP PT_00043	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					8260PENTCLEPT_00041	80 uL	Pentachloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8260 MENAP PT_00043	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 MENAPH_00007	1 mL	1-Methylnaphthalene 2-Methylnaphthalene	2500 ug/mL 2500 ug/mL
...8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		1-Methylnaphthalene 2-Methylnaphthalene	2500 ug/mL 2500 ug/mL
..8260PENTACLEPT_00041	07/22/22	04/22/22	METHANOL, Lot NA	1 mL	8260 PENTACLE 00009	1 mL	Pentachloroethane	2500 ug/mL
...8260 PENTACLE 00009	02/28/26		Restek, Lot A0168804		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
.8260ADDS 2016_00214	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260LIST2/6PT_00041	80 uL	1,2,3-Trimethylbenzene 1,3,5-Trichlorobenzene 1-Chlorohexane 2-Chloro-1,3-butadiene 2-Nitropropane Benzyl chloride Isooctane Isopropyl alcohol Methacrylonitrile n-Butanol	100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL 200 ug/mL 100 ug/mL 100 ug/mL 1000 ug/mL 1000 ug/mL 2500 ug/mL
					8260LIST2/7PT_00045	80 uL	Ethyl acetate Ethyl acrylate Methyl methacrylate n-Butyl acetate	200 ug/mL 100 ug/mL 200 ug/mL 100 ug/mL
..8260LIST2/6PT_00041	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene 1,3,5-Trichlorobenzene 1-Chlorohexane 2-Chloro-1,3-butadiene 2-Nitropropane Benzyl chloride Isooctane Isopropyl alcohol Methacrylonitrile n-Butanol	2500 ug/mL 2500 ug/mL 2500 ug/mL 2500 ug/mL 5000 ug/mL 2500 ug/mL 2500 ug/mL 25000 ug/mL 25000 ug/mL 62500 ug/mL
...8260 LIST2/#6_00008	09/22/22		Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene 1,3,5-Trichlorobenzene 1-Chlorohexane 2-Chloro-1,3-butadiene 2-Nitropropane Benzyl chloride Isooctane Isopropyl alcohol Methacrylonitrile n-Butanol	2500 ug/mL 2500 ug/mL 2500 ug/mL 2500 ug/mL 5000 ug/mL 2500 ug/mL 2500 ug/mL 25000 ug/mL 25000 ug/mL 62500 ug/mL
..8260LIST2/7PT_00045	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate Ethyl acrylate Methyl methacrylate n-Butyl acetate	5000 ug/mL 2500 ug/mL 5000 ug/mL 2500 ug/mL
...8260 LIST2/#7_00009	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate Ethyl acrylate Methyl methacrylate n-Butyl acetate	5000 ug/mL 2500 ug/mL 5000 ug/mL 2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260POLR ADDS_00286	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	8260 ETOH PT 00026	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00055	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
						Tert-butyl ethyl ether	100 ug/mL	
..8260 ETOH PT 00026	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260 ETOH STD 00004	1 mL	Ethanol	100000 ug/mL
...8260 ETOH STD 00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
..8260POLRADDPT_00055	06/22/22	03/22/22	METHANOL, Lot NA	1 mL	8260POLARADDS_00012	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
...8260POLARADDS_00012	06/30/23		Restek, Lot A0172903		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
LOWAPIX_00042	08/11/22	07/28/22	MEOH, Lot 288059	2 mL	2ETTOL WK STD_00179	100 uL	2-Ethyltoluene	5 ug/mL
					8260 23DCP WK_00239	100 uL	2,3-Dichloro-1-propene	5 ug/mL
					8260/624STD2_00336	100 uL	1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Pentachloroethane	5 ug/mL
					8260ADDS 2016_00221	100 uL	1,2,3-Trimethylbenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1-Chlorohexane	5 ug/mL
							2-Chloro-1,3-butadiene	5 ug/mL
							2-Nitropropane	10 ug/mL
							Benzyl chloride	5 ug/mL
							Isooctane	5 ug/mL
							Isopropyl alcohol	50 ug/mL
							Methacrylonitrile	50 ug/mL
							n-Butanol	125 ug/mL
							Ethyl acetate	10 ug/mL
							Ethyl acrylate	5 ug/mL
							Methyl methacrylate	10 ug/mL
							n-Butyl acetate	5 ug/mL
							8260POLR ADDS_00294	100 uL
				Acetonitrile	50 ug/mL			
				Isopropyl ether	5 ug/mL			
				Propionitrile	50 ug/mL			
				Tert-amyl methyl ether	5 ug/mL			
				Tert-butyl ethyl ether	5 ug/mL			
.2ETTOL WK STD_00179	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	2ETTOL PT STD_00045	200 uL	2-Ethyltoluene	100 ug/mL
..2ETTOL PT STD_00045	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	2ETHYLTOL STD_00008	1 mL	2-Ethyltoluene	1000 ug/mL
...2ETHYLTOL STD_00008	06/01/25		ABSOLUTE STD, Lot 060120		(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
.8260 23DCP WK_00239	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 23DCP PT_00060	200 uL	2,3-Dichloro-1-propene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8260 23DCP PT_00060	09/28/22	06/28/22	METHANOL, Lot NA	1 mL	2,3DCLPRPNSPK_00014	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
...2,3DCLPRPNSPK_00014	12/22/24		O2Si, Lot 433416		(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
.8260/624STD2_00336	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 MENAP PT_00045	80 uL	1-Methylnaphthalene	100 ug/mL
					8260PENTACLEPT_00043	80 uL	2-Methylnaphthalene	100 ug/mL
..8260 MENAP PT_00045	10/11/22	07/11/22	METHANOL, Lot NA	1 mL	8260 MENAPH_00007	1 mL	Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	2500 ug/mL
...8260 MENAPH_00007	09/30/24		Restek, Lot A0153266		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..8260PENTACLEPT_00043	10/11/22	07/11/22	METHANOL, Lot NA	1 mL	8260 PENTACLE_00009	1 mL	1-Methylnaphthalene	2500 ug/mL
...8260 PENTACLE_00009	02/28/26		Restek, Lot A0168804		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
.8260ADDS 2016_00221	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260LIST2/6PT_00042	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00046	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
..8260LIST2/6PT_00042	09/22/22	06/23/22	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00008	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
...8260 LIST2/#6_00008	09/22/22		Restek, Lot A0170418		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260LIST2/7PT_00046	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00009	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...8260 LIST2/#7_00009	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		n-Butyl acetate	2500 ug/mL
							Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.8260POLR ADDS_00294	08/11/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 ETOH PT 00027	80 uL	Ethanol	4000 ug/mL
					8260POLRADDPT_00056	80 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
..8260 ETOH PT 00027	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260 ETOH STD 00004	1 mL	Ethanol	100000 ug/mL
...8260 ETOH STD 00004	10/31/23		Restek, Lot A0165711		(Purchased Reagent)		Ethanol	100000 ug/mL
..8260POLRADDPT_00056	09/23/22	06/23/22	METHANOL, Lot NA	1 mL	8260POLARADDS_00012	1 mL	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
...8260POLARADDS_00012	06/30/23		Restek, Lot A0172903		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
LOWCYCHXWK 00206	02/01/22	01/18/22	Water, Lot NA	2 mL	8260CYCHXWK 00313	100 uL	Cyclohexanone	500 ug/mL
.8260CYCHXWK 00313	02/01/22	01/18/22	Water, Lot NA	2 mL	8260 CYCHX PT 00064	800 uL	Cyclohexanone	10000 ug/mL
..8260 CYCHX PT 00064	12/31/23		Restek, Lot A0167351		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
LOWCYCHXWK 00216	05/27/22	05/13/22	Water, Lot NA	2 mL	8260CYCHXWK 00324	100 uL	Cyclohexanone	500 ug/mL
.8260CYCHXWK 00324	05/27/22	05/13/22	Water, Lot NA	2 mL	8260 CYCHX PT 00066	800 uL	Cyclohexanone	10000 ug/mL
..8260 CYCHX PT 00066	08/31/24		Restek, Lot A0175475		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
LOWCYCHXWK 00219	08/11/22	07/28/22	Water, Lot NA	2 mL	8260CYCHXWK 00330	100 uL	Cyclohexanone	500 ug/mL
.8260CYCHXWK 00330	08/11/22	07/28/22	Water, Lot NA	2 mL	8260 CYCHX PT 00070	800 uL	Cyclohexanone	10000 ug/mL
..8260 CYCHX PT 00070	03/31/25		Restek, Lot A0182677		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
M21JSTKHG 002 00001	10/21/22		SPEX CertiPrep, Lot 25-88HGT		(Purchased Reagent)		Mercury	1000 ug/mL
M22GCRIC_00001	02/28/23	07/13/22	acidic water, Lot 215994-217118	1000 mL	M21ISTKIC_00009	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M21ISTKIC_00009	02/28/23		CPI International, Lot 10096346-7		(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Selenium	10 ug/mL
							Silver	5 ug/mL
M22GSPKIC_00001	11/04/22	07/18/22	Nitric Acid Water, Lot 217118	500 mL	M21FSTKIC_00001	4.5 mL	Selenium	10 ug/mL
					M21ISTKIC_00004	2.5 mL	Tl	10 ug/mL
					M21ISTKIC_00031	4 mL	Lead	10 ug/mL
					M21KSTKIC_00007	3 mL	Arsenic	10 ug/mL
					M22CSTKIC_00004	50 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M22CSTKIC_00005	50 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL
							Ni	50 ug/mL
							Selenium	10 ug/mL
					M22CSTKIC_00006	50 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL
Silver	5 ug/mL							
Sn	100 ug/mL							
Ti	100 ug/mL							
.M21FSTKIC_00001	11/04/22	CPI International, Lot 1063158-21	(Purchased Reagent)	Selenium	1000 ug/mL			
.M21ISTKIC_00004	02/13/23	CPI International, Lot 1025512-56	(Purchased Reagent)	Tl	1000 ug/mL			
.M21ISTKIC_00031	01/22/23	CPI International, Lot 1046594-62	(Purchased Reagent)	Lead	1000 ug/mL			
.M21KSTKIC_00007	05/16/23	CPI International, Lot 1103713-62	(Purchased Reagent)	Arsenic	1000 ug/mL			
.M22CSTKIC_00004	09/14/23	CPI International, Lot 1231592	(Purchased Reagent)	Al	2000 ug/mL			
				Barium	2000 ug/mL			
				Ca	10000 ug/mL			
				K	10000 ug/mL			
				Mg	10000 ug/mL			
				Na	10000 ug/mL			
.M22CSTKIC_00005	09/14/23	CPI International, Lot 1231593	(Purchased Reagent)	Arsenic	40 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M22CSTKIC_00006	09/14/23		CPI International, Lot 1231594		(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
M22GSTKHG_001_00001	01/31/24		Environmental Express, Lot 2213850-100		(Purchased Reagent)		Mercury	1000 ug/mL
M22HCCVIC_00001	03/13/23	08/17/22	acidic water, Lot 215994-217118	1000 mL	M21KSTKIC_00003	0.5 mL	Silver	0.5 ug/mL
					M22ESTKMS_00001	5 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
.M21KSTKIC_00003	05/16/23		CPI International, Lot 1106123-34		(Purchased Reagent)		Silver	1000 ug/mL
.M22ESTKMS_00001	11/05/23		CPI International, Lot 1250836		(Purchased Reagent)		Arsenic	100 ug/mL
							Barium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Lead	100 ug/mL
							Selenium	100 ug/mL
M22HICVIC_00001	12/31/22	08/17/22	acidic water, Lot 215994-217118	1000 mL	M22CSTKIC_00003	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M22CSTKIC_00007	8 mL	Silver	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration									
					Reagent ID	Volume Added											
.M22CSTKIC_00003	09/14/23		CPI International, Lot 1231589			(Purchased Reagent)	Arsenic	50 ug/mL									
							Barium	50 ug/mL									
							Cadmium	50 ug/mL									
							Chromium	50 ug/mL									
							Lead	50 ug/mL									
.M22CSTKIC_00007	12/31/22		High Purity Standardsl, Lot 2136306-250			(Purchased Reagent)	Selenium	50 ug/mL									
							Silver	50 ug/mL									
M22HINTIC_00003	11/04/22	08/31/22	acidic water, Lot 215994-217118	1000 mL	M21FSTKIC_00001	5 mL	Selenium	5 ug/mL									
					M21ISTKIC_00015	2 mL	Chromium	2 ug/mL									
					M21ISTKIC_00019	5 mL	Barium	5 ug/mL									
					M21ISTKIC_00031	5 mL	Lead	5 ug/mL									
					M22ASTKIC_00008	5 mL	Cadmium	5 ug/mL									
.M21FSTKIC_00001	11/04/22		CPI International, Lot 1063158-21			(Purchased Reagent)	Selenium	1000 ug/mL									
.M21ISTKIC_00015	01/22/23		CPI International, Lot 1011874-77			(Purchased Reagent)	Chromium	1000 ug/mL									
.M21ISTKIC_00019	01/22/23		CPI International, Lot 994634-135			(Purchased Reagent)	Barium	1000 ug/mL									
.M21ISTKIC_00031	01/22/23		CPI International, Lot 1046594-62			(Purchased Reagent)	Lead	1000 ug/mL									
.M22ASTKIC_00008	06/06/23		CPI International, Lot 1199704-9			(Purchased Reagent)	Cadmium	1000 ug/mL									
M22HISAIC_00001	03/16/23	08/17/22	acidic water, Lot 215994-217118	1000 mL		M22CSTKIC_00001	100 mL	Al	500 ug/mL								
								Ca	500 ug/mL								
								Fe	200 ug/mL								
								Mg	500 ug/mL								
.M22CSTKIC_00001	05/16/23		CPI International, Lot 1148900-1			(Purchased Reagent)	Al	5000 ug/mL									
							Ca	5000 ug/mL									
							Fe	2000 ug/mL									
							Mg	5000 ug/mL									
M22IISBIC_00001	05/17/23	09/01/22	acidic water, Lot 215994-217118	1000 mL		M22ASTKIC_00001	10 mL	Arsenic	0.1 ug/mL								
								Barium	0.5 ug/mL								
								Be	0.5 ug/mL								
								Cadmium	1 ug/mL								
								Chromium	0.5 ug/mL								
								Co	0.5 ug/mL								
								Cu	0.5 ug/mL								
								Lead	0.05 ug/mL								
								Mn	0.5 ug/mL								
								Ni	1 ug/mL								
								Sb	0.6 ug/mL								
								Selenium	0.05 ug/mL								
								Silver	0.2 ug/mL								
								Tl	0.1 ug/mL								
								V	0.5 ug/mL								
								Zn	1 ug/mL								
								M22GSTKIC_00001							100 mL	Al	500 ug/mL
																Ca	500 ug/mL
																Fe	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.M22ASTKIC_00001	05/17/23		CPI International, Lot 1209664-1			(Purchased Reagent)	Mg	500 ug/mL
							Arsenic	10 ug/mL
							Barium	50 ug/mL
							Be	50 ug/mL
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL
							Selenium	5 ug/mL
							Silver	20 ug/mL
.M22GSTKIC_00001	11/26/23		CPI International, Lot 1207637-1			(Purchased Reagent)	Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
STD 2 SPK 00134	02/01/22	01/18/22	METHANOL, Lot 207705	2 mL	MENAP SPK PT 00033	40 uL	2-Methylnaphthalene	50 ug/mL
.MENAP SPK PT 00033	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	MENAPH SPK 00009	1 mL	2-Methylnaphthalene	2500 ug/mL
..MENAPH SPK 00009	12/31/23		Restek, Lot A0144306		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
STD 2 SPK 00138	05/26/22	05/12/22	METHANOL, Lot 288059	2 mL	MENAP SPK PT 00034	40 uL	2-Methylnaphthalene	50 ug/mL
.MENAP SPK PT 00034	08/12/22	05/12/22	METHANOL, Lot NA	1 mL	MENAPH SPK 00009	1 mL	2-Methylnaphthalene	2500 ug/mL
..MENAPH SPK 00009	12/31/23		Restek, Lot A0144306		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
STD 2 SPK 00140	08/05/22	07/22/22	METHANOL, Lot 288059	2 mL	MENAP SPK PT 00034	40 uL	2-Methylnaphthalene	50 ug/mL
.MENAP SPK PT 00034	08/12/22	05/12/22	METHANOL, Lot NA	1 mL	MENAPH SPK 00009	1 mL	2-Methylnaphthalene	2500 ug/mL
..MENAPH SPK 00009	12/31/23		Restek, Lot A0144306		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
VA/2CEVE SPK 00179	01/25/22	01/18/22	METHANOL, Lot 210693	2 mL	8260 VASPKPT 00072	20 uL	Vinyl acetate	50 ug/mL
.8260 VASPKPT 00072	04/18/22	01/18/22	METHANOL, Lot NA	1 mL	VA SPK STK 00036	1 mL	Vinyl acetate	5000 ug/mL
..VA SPK STK 00036	09/30/22		Restek, Lot A0169715		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VA/2CEVE SPK 00192	06/29/22	06/22/22	METHANOL, Lot 288059	2 mL	8260 VASPKPT 00074	20 uL	Vinyl acetate	50 ug/mL
.8260 VASPKPT 00074	08/13/22	05/13/22	METHANOL, Lot NA	1 mL	VA SPK STK 00036	1 mL	Vinyl acetate	5000 ug/mL
..VA SPK STK 00036	09/30/22		Restek, Lot A0169715		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VA/2CEVE SPK 00195	08/04/22	07/28/22	METHANOL, Lot 288059	2 mL	8260 VASPKPT 00074	20 uL	Vinyl acetate	50 ug/mL
.8260 VASPKPT 00074	08/13/22	05/13/22	METHANOL, Lot NA	1 mL	VA SPK STK 00036	1 mL	Vinyl acetate	5000 ug/mL
..VA SPK STK 00036	09/30/22		Restek, Lot A0169715		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ex10PPMSPK_00058	10/13/22	04/13/22	MEOH, Lot 21H317314	1000 mL	ex1016/1260st_00023	10 mL	PCB-1016	10 ug/mL
.ex1016/1260st_00023	09/30/26		Restek, Lot A0161458		(Purchased Reagent)		PCB-1260	10 ug/mL
							PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
ex2/.2SURRW_00168	02/15/23	08/15/22	MEOH, Lot 0000273166	2000 mL	exPESTSURRstd_00032	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
.exPESTSURRstd_00032	03/31/28		Restek, Lot A0179404		(Purchased Reagent)		Tetrachloro-m-xylene	0.2 ug/mL
							DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
exBENZALDEHYD_00080	11/30/22	06/30/22	MEOH, Lot 0000273166	500 mL	exLIST1_S11_00019	10 mL	Atrazine	40 ug/mL
.exLIST1_S11_00019	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
exBNASPIKE_00122	02/26/23	08/26/22	ACETONE, Lot 0000285502	500 mL	exLIST1_S1_00028	10 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Methylphenol	10 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Methylphenol	10 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis (2-chloroethoxy)methane	20 ug/mL
							Bis (2-chloroethyl) ether	20 ug/mL
							Bis (2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz (a,h) anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Diphenylamine	17.1 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Phenol	20 ug/mL		
							Pyrene	20 ug/mL		
							Pyridine	40 ug/mL		
							EXLIST1_S10_00020	10 mL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL		
							3,3'-Dichlorobenzidine	40 ug/mL		
							exLIST1_S9_00025	10 mL	Benzydine	40 ug/mL
.exLIST1_S1_00028	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL		
							1,2,4-Trichlorobenzene	1000 ug/mL		
							1,2-Dichlorobenzene	1000 ug/mL		
							1,2-Diphenylhydrazine	1000 ug/mL		
							1,3-Dichlorobenzene	1000 ug/mL		
							1,3-Dinitrobenzene	1000 ug/mL		
							1,4-Dichlorobenzene	1000 ug/mL		
							1,4-Dioxane	1000 ug/mL		
							1-Methylnaphthalene	1000 ug/mL		
							2,2'-oxybis[1-chloropropane]	1000 ug/mL		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL		
							2,4,5-Trichlorophenol	1000 ug/mL		
							2,4,6-Trichlorophenol	1000 ug/mL		
							2,4-Dichlorophenol	1000 ug/mL		
							2,4-Dimethylphenol	1000 ug/mL		
							2,4-Dinitrophenol	2000 ug/mL		
							2,4-Dinitrotoluene	1000 ug/mL		
							2,6-Dichlorophenol	1000 ug/mL		
							2,6-Dinitrotoluene	1000 ug/mL		
							2-Chloronaphthalene	1000 ug/mL		
							2-Chlorophenol	1000 ug/mL		
							2-Methylnaphthalene	1000 ug/mL		
							2-Methylphenol	1000 ug/mL		
							2-Nitroaniline	1000 ug/mL		
							2-Nitrophenol	1000 ug/mL		
							3 & 4 Methylphenol	1000 ug/mL		
							3-Methylphenol	500 ug/mL		
							3-Nitroaniline	1000 ug/mL		
							4,6-Dinitro-2-methylphenol	2000 ug/mL		
							4-Bromophenyl phenyl ether	1000 ug/mL		
							4-Chloro-3-methylphenol	1000 ug/mL		
							4-Chloroaniline	1000 ug/mL		
							4-Chlorophenyl phenyl ether	1000 ug/mL		
							4-Methylphenol	500 ug/mL		
							4-Nitroaniline	1000 ug/mL		
							4-Nitrophenol	2000 ug/mL		
							Acenaphthene	1000 ug/mL		
							Acenaphthylene	1000 ug/mL		
							Acetophenone	1000 ug/mL		
							Aniline	1000 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	855 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.EXLIST1_S10_00020	12/31/22		Restek, Lot A0173787			(Purchased Reagent)	Benzoic acid	2000 ug/mL
.exLIST1_S9_00025	06/30/23		Restek, Lot A0179477			(Purchased Reagent)	Indene	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
exBNASURR W_00103	01/14/23	07/14/22	MEOH, Lot 0000273166	2000 mL	exLIST1_SURR_00009	8 mL	2,4,6-Tribromophenol (Surr)	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.exLIST1_SURR_00009	09/30/25		Restek, Lot A0164540			(Purchased Reagent)	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SG1221ICV@.5 00010	12/01/22	06/01/22	hexane, Lot 5341787	10 mL	SGPCBIS STOCK_00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1221ICV@.5 00010	12/01/22	06/01/22	hexane, Lot 5341787	10 mL	SG1221ICV@100_00014	0.05 mL	PCB-1221	0.5 ug/mL
.SG1221ICV@100_00014	06/01/23	06/01/22	HEXANE, Lot 5341787	10 mL	SG 1221 ICV 00017	1 mL	PCB-1221	100 ug/mL
..SG 1221 ICV 00017	09/30/23		restek, Lot a0128546			(Purchased Reagent)	PCB-1221	1000 ug/mL
SG1232ICV@.5 00010	01/01/23	08/01/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK_00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1232ICV@.5 00010	01/01/23	08/01/22	HEXANE, Lot 5341787	10 mL	SG1232ICV@100_00012	0.05 mL	PCB-1232	0.5 ug/mL
.SG1232ICV@100_00012	02/07/23	02/07/22	HEXANE, Lot 5341787	10 mL	SG 1232 ICV_00013	1 mL	PCB-1232	100 ug/mL
..SG 1232 ICV 00013	03/31/26		agilent, Lot CS-0560			(Purchased Reagent)	PCB-1232	1000 ug/mL
SG1242ICV@.5 00009	12/01/22	06/01/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK_00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1242ICV@.5 00009	12/01/22	06/01/22	HEXANE, Lot 5341787	10 mL	SG1242ICV@100_00014	0.05 mL	PCB-1242	0.5 ug/mL
.SG1242ICV@100_00014	02/07/23	02/07/22	HEXANE, Lot 5341787	10 mL	SG 1242 ICV 00012	1 mL	PCB-1242	100 ug/mL
..SG 1242 ICV 00012	07/31/25		ULTRA SCIENTIFIC, Lot CR-2838			(Purchased Reagent)	PCB-1242	1000 ug/mL
SG1248@.05ppm_00034	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG1248@10ppm_00019	0.25 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
					SGPCBIS STOCK_00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295			(Purchased Reagent)	PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248@0.1PPM_00038	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG1248@10ppm_00019	0.5 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
					SGPCBIS STOCK_00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295			(Purchased Reagent)	PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248@0.2ppm_00033	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG1248@10ppm_00019	1 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
					SGPCBIS STOCK_00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295			(Purchased Reagent)	PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248@0.5ppm_00058	12/22/22	06/22/22	HEXANE, Lot 5341787	100 mL	SG1248@10ppm_00019	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
					SGPCBIS STOCK_00020	0.5 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SG1248_00013	10/31/27		Restek, Lot A0174295		(Purchased Reagent)		PCB-1248 Peak 5	10 ug/mL
							PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248@0.5ppm_00058	12/22/22	06/22/22	HEXANE, Lot 5341787	100 mL	SG1248@10ppm_00019	5 mL	PCB-1248	0.5 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295		(Purchased Reagent)		PCB-1248	1000 ug/mL
SG1248@1.0ppm_00044	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG1248@10ppm_00019	5 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248@1.5ppm_00013	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG1248@10ppm_00019	7.5 mL	PCB-1248 Peak 1	1.5 ug/mL
							PCB-1248 Peak 2	1.5 ug/mL
							PCB-1248 Peak 3	1.5 ug/mL
							PCB-1248 Peak 4	1.5 ug/mL
							PCB-1248 Peak 5	1.5 ug/mL
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG1248@10ppm_00019	06/22/23	06/22/22	Hexane, Lot 5341787	100 mL	SG1248_00013	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00013	10/31/27		Restek, Lot A0174295		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1248ICV@.5 00010	12/01/22	06/01/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK 00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1248ICV@.5 00010	12/01/22	06/01/22	HEXANE, Lot 5341787	10 mL	SG1248ICV@100 00015	0.05 mL	PCB-1248	0.5 ug/mL
.SG1248ICV@100 00015	06/01/23	06/01/22	HEXANE, Lot 5341787	10 mL	SG 1248 ICV 00015	1 mL	PCB-1248	100 ug/mL
..SG 1248 ICV 00015	05/31/27		restek, Lot a0168748		(Purchased Reagent)		PCB-1248	1000 ug/mL
SG1262ICV@.5 00013	12/01/22	06/01/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK 00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1268ICV@0.5 00016	02/28/23	08/15/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK 00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1660@.05PPM_00047	12/24/22	06/24/22	HEXANE, Lot 5341787	100 mL	SG1016/1260_00030	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCBIS STOCK 00020	0.5 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	0.125 mL	Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	2 ug/mL 2 ug/mL
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127		(Purchased Reagent)		DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL
SG1660@0.2ppm_00037	12/24/22	06/24/22	HEXANE, Lot 5341787	50 mL	SG1016/1260_00030	1 mL	PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL 0.2 ug/mL
					SGPCBIS STOCk_00020	250 uL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	0.25 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	0.01 ug/mL 0.01 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL 10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458		(Purchased Reagent)		PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL
.SGPCBIS STOCk_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	2 ug/mL 2 ug/mL
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127		(Purchased Reagent)		DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL
SG1660@0.5PPM_00116	12/24/22	06/24/22	HEXANE, Lot 5341787	100 mL	SG1016/1260_00030	5 mL	PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4	0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCBIS STOCK_00020	0.5 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	1.25 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458			(Purchased Reagent)	PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD_00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127			(Purchased Reagent)	DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00116	12/24/22	06/24/22	HEXANE, Lot 5341787	100 mL	SG1016/1260_00030	5 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016	10 ug/mL
							PCB-1260	10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458			(Purchased Reagent)	PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
SG1660@1.0PPM_00050	12/24/22	06/24/22	HEXANE, Lot 5341787	50 mL	SG1016/1260_00030	5 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCBIS STOCK_00020	250 uL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	1.25 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458			(Purchased Reagent)	PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD_00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127			(Purchased Reagent)	DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.5PPM_00018	12/24/22	06/24/22	HEXANE, Lot 5341787	50 mL	SG1016/1260_00030	7.5 mL	PCB-1016 Peak 1	1.5 ug/mL
							PCB-1016 Peak 2	1.5 ug/mL
							PCB-1016 Peak 3	1.5 ug/mL
							PCB-1016 Peak 4	1.5 ug/mL
							PCB-1016 Peak 5	1.5 ug/mL
							PCB-1260 Peak 1	1.5 ug/mL
							PCB-1260 Peak 2	1.5 ug/mL
							PCB-1260 Peak 3	1.5 ug/mL
							PCB-1260 Peak 4	1.5 ug/mL
							PCB-1260 Peak 5	1.5 ug/mL
					SGPCBIS STOCK_00020	250 uL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	2 mL	DCB Decachlorobiphenyl	0.08 ug/mL
							Tetrachloro-m-xylene	0.08 ug/mL
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660ICV@.5_00018	01/12/23	07/12/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK_00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG1660ICV@.5_00018	01/12/23	07/12/22	HEXANE, Lot 5341787	10 mL	SG1660ICV@100_00026	0.05 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
.SG1660ICV@100_00026	07/12/23	07/12/22	HEXANE, Lot 5341787	10 mL	SG 1660 ICV_00021	1 mL	PCB-1016	100 ug/mL
							PCB-1260	100 ug/mL
..SG 1660 ICV_00021	06/30/26		restek, Lot a0159083		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
SG1660STD@0.1_00034	12/24/22	06/24/22	HEXANE, Lot 5341787	50 mL	SG1016/1260_00030	0.5 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCBIS STOCK_00020	250 uL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SGPCGSURRSTK_00014	0.125 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.SG1016/1260_00030	03/16/23	03/16/22	HEXANE, Lot 5341787	100 mL	SG1016/1260MX_00015	1 mL	PCB-1016 Peak 1	10 ug/mL	
							PCB-1016 Peak 2	10 ug/mL	
							PCB-1016 Peak 3	10 ug/mL	
							PCB-1016 Peak 4	10 ug/mL	
							PCB-1016 Peak 5	10 ug/mL	
							PCB-1260 Peak 1	10 ug/mL	
							PCB-1260 Peak 2	10 ug/mL	
							PCB-1260 Peak 3	10 ug/mL	
							PCB-1260 Peak 4	10 ug/mL	
..SG1016/1260MX_00015	09/30/26		Restek, Lot A0161458				(Purchased Reagent)	PCB-1016 Peak 1	1000 ug/mL
								PCB-1016 Peak 2	1000 ug/mL
								PCB-1016 Peak 3	1000 ug/mL
								PCB-1016 Peak 4	1000 ug/mL
								PCB-1016 Peak 5	1000 ug/mL
								PCB-1260 Peak 1	1000 ug/mL
								PCB-1260 Peak 2	1000 ug/mL
								PCB-1260 Peak 3	1000 ug/mL
								PCB-1260 Peak 4	1000 ug/mL
.SGPCBIS STOCk 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL	
..ISTD 00007	08/31/23		Restek, Lot A0160736				(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
.SGPCGSURRSTK_00014	02/15/23	02/15/22	HEXANE, Lot 5118437	100 mL	SGPESTSURR_00013	1 mL	DCB Decachlorobiphenyl	2 ug/mL	
..SGPESTSURR_00013	01/26/26		Restek, Lot A0154127				(Purchased Reagent)	Tetrachloro-m-xylene	2 ug/mL
								DCB Decachlorobiphenyl	200 ug/mL
SG2154@0.05PP_00029	12/23/22	06/23/22	HEXANE, Lot 5341794	50 mL	SG2154@10ppm_00021	0.25 mL	PCB-1221 Peak 1	0.05 ug/mL	
							PCB-1221 Peak 2	0.05 ug/mL	
							PCB-1221 Peak 3	0.05 ug/mL	
							PCB-1254 Peak 1	0.05 ug/mL	
							PCB-1254 Peak 2	0.05 ug/mL	
							PCB-1254 Peak 3	0.05 ug/mL	
							PCB-1254 Peak 4	0.05 ug/mL	
							PCB-1254 Peak 5	0.05 ug/mL	
							SGPCBIS STOCk 00020		
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL	
							PCB-1221 Peak 2	10 ug/mL	
							PCB-1221 Peak 3	10 ug/mL	
							PCB-1254 Peak 1	10 ug/mL	
							PCB-1254 Peak 2	10 ug/mL	
							PCB-1254 Peak 3	10 ug/mL	
							PCB-1254 Peak 4	10 ug/mL	
							PCB-1254 Peak 5	10 ug/mL	
							..SG1221/1254_00008	03/31/25	
								PCB-1221 Peak 2	1000 ug/mL
								PCB-1221 Peak 3	1000 ug/mL
								PCB-1254 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154@0.2PPM_00031	12/23/22	06/23/22	HEXANE, Lot 5341794	50 mL	SG2154@10ppm_00021	1 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154@0.5PPM_00066	12/23/22	06/23/22	HEXANE, Lot 5341794	100 mL	SG2154@10ppm_00021	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
					SGPCBIS STOCK 00020	0.5 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154@0.5PPM_00066	12/23/22	06/23/22	HEXANE, Lot 5341794	100 mL	SG2154@10ppm_00021	5 mL	PCB-1221	0.5 ug/mL
							PCB-1254	0.5 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SG1221/1254_00008	1 mL	PCB-1221	10 ug/mL
							PCB-1254	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555		(Purchased Reagent)		PCB-1221	1000 ug/mL
							PCB-1254	1000 ug/mL
SG2154@1.0PPM_00047	12/23/22	06/23/22	HEXANE, Lot 5341794	50 mL	SG2154@10ppm_00021	5 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SGPCBIS STOCK_00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154@1.5PPM_00013	12/23/22	06/23/22	HEXANE, Lot 5341794	50 mL	SG2154@10ppm_00021	7.5 mL	PCB-1221 Peak 1	1.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	1.5 ug/mL
							PCB-1221 Peak 3	1.5 ug/mL
							PCB-1254 Peak 1	1.5 ug/mL
							PCB-1254 Peak 2	1.5 ug/mL
							PCB-1254 Peak 3	1.5 ug/mL
							PCB-1254 Peak 4	1.5 ug/mL
							PCB-1254 Peak 5	1.5 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
					SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555			(Purchased Reagent)	PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154@0.1PPM_00030	12/23/22	06/23/22	HEXANE, Lot 531794	50 mL	SG2154@10ppm_00021	0.5 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SG2154@10ppm_00021	06/23/23	06/23/22	HEXANE, Lot 5341794	100 mL	SG1221/1254_00008	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SG1221/1254_00008	03/31/25		restek, Lot a0115555			(Purchased Reagent)	PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154ICV@.5_00011	01/29/23	07/29/22	HEXANE, Lot 5341787	10 mL	SGPCBIS STOCK_00020	0.05 mL	1-Bromo-2-nitrobenzene	0.05 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG2154ICV@.5_00011	01/29/23	07/29/22	HEXANE, Lot 5341787	10 mL	SG1254ICV@100_00015	0.05 mL	PCB-1254	0.5 ug/mL
.SG1254ICV@100_00015	07/29/23	07/29/22	HEXANE, Lot 5341787	10 mL	SG 1254 ICV 00009	1 mL	PCB-1254	100 ug/mL
..SG 1254 ICV 00009	04/30/25		Agilent, Lot CR-1152		(Purchased Reagent)		PCB-1254	1000 ug/mL
SG3262@.05PPM_00028	12/21/22	06/21/22	HEXANE, Lot 5341787	50 mL	SG32/6210PPM_00014	0.25 mL	PCB-1232 Peak 1	50 ug/L
							PCB-1232 Peak 2	50 ug/L
							PCB-1232 Peak 3	50 ug/L
							PCB-1232 Peak 4	50 ug/L
							PCB-1232 Peak 5	50 ug/L
							PCB-1262 Peak 1	50 ug/L
							PCB-1262 Peak 2	50 ug/L
							PCB-1262 Peak 3	50 ug/L
							PCB-1262 Peak 4	50 ug/L
							PCB-1262 Peak 5	50 ug/L
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restek, Lot A0147561		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG3262@.2PPM_00026	12/21/22	06/21/22	HEXANE, Lot 5341787	50 mL	SG32/6210PPM_00014	1 mL	PCB-1232 Peak 1	200 ug/L
							PCB-1232 Peak 2	200 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 3	200 ug/L
							PCB-1232 Peak 4	200 ug/L
							PCB-1232 Peak 5	200 ug/L
							PCB-1262 Peak 1	200 ug/L
							PCB-1262 Peak 2	200 ug/L
							PCB-1262 Peak 3	200 ug/L
							PCB-1262 Peak 4	200 ug/L
							PCB-1262 Peak 5	200 ug/L
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restek, Lot A0147561			(Purchased Reagent)	PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD_00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG3262@0.1PPM_00025	12/21/22	06/21/22	HEXANE, Lot 5341787	50 mL	SG32/6210PPM_00014	0.5 mL	PCB-1232 Peak 1	100 ug/L
							PCB-1232 Peak 2	100 ug/L
							PCB-1232 Peak 3	100 ug/L
							PCB-1232 Peak 4	100 ug/L
							PCB-1232 Peak 5	100 ug/L
							PCB-1262 Peak 1	100 ug/L
							PCB-1262 Peak 2	100 ug/L
							PCB-1262 Peak 3	100 ug/L
							PCB-1262 Peak 4	100 ug/L
							PCB-1262 Peak 5	100 ug/L
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restelk, Lot A0147561			(Purchased Reagent)	PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD_00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG3262@0.5PPM_00053	12/21/22	06/21/22	HEXANE, Lot 5341787	100 mL	SG32/6210PPM_00014	5 mL	PCB-1232 Peak 1	500 ug/L
							PCB-1232 Peak 2	500 ug/L
							PCB-1232 Peak 3	500 ug/L
							PCB-1232 Peak 4	500 ug/L
							PCB-1232 Peak 5	500 ug/L
							PCB-1262 Peak 1	500 ug/L
							PCB-1262 Peak 2	500 ug/L
							PCB-1262 Peak 3	500 ug/L
							PCB-1262 Peak 4	500 ug/L
							PCB-1262 Peak 5	500 ug/L
					SGPCBIS STOCK_00020	0.5 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restelk, Lot A0147561			(Purchased Reagent)	PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SGPCBIS STOCk_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	PCB-1262 Peak 5	1000 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	10 ug/mL
SG3262@0.5PPM_00053	12/21/22	06/21/22	HEXANE, Lot 5341787	100 mL	SG32/6210PPM_00014	5 mL	PCB-1232	500 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1262	500 ug/L
..SG32/62 STK_00008	06/30/25		Restelk, Lot A0147561		(Purchased Reagent)		PCB-1232	10 ug/mL
							PCB-1262	1000 ug/mL
SG3262@1.0PPM_00038	12/21/22	06/21/22	HEXANE, Lot 5341787	50 mL	SG32/6210PPM_00014	5 mL	PCB-1232 Peak 1	1000 ug/L
							PCB-1232 Peak 2	1000 ug/L
							PCB-1232 Peak 3	1000 ug/L
							PCB-1232 Peak 4	1000 ug/L
							PCB-1232 Peak 5	1000 ug/L
							PCB-1262 Peak 1	1000 ug/L
							PCB-1262 Peak 2	1000 ug/L
							PCB-1262 Peak 3	1000 ug/L
							PCB-1262 Peak 4	1000 ug/L
							PCB-1262 Peak 5	1000 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SGPCBIS STOCk 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
					SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restelk, Lot A0147561		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
.SGPCBIS STOCk 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG3262@1.5PPM_00014	12/21/22	06/21/22	HEXANE, Lot 5341787	50 mL	SG32/6210PPM_00014	7.5 mL	PCB-1232 Peak 1	1500 ug/L
							PCB-1232 Peak 2	1500 ug/L
							PCB-1232 Peak 3	1500 ug/L
							PCB-1232 Peak 4	1500 ug/L
							PCB-1232 Peak 5	1500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 1	1500 ug/L
							PCB-1262 Peak 2	1500 ug/L
							PCB-1262 Peak 3	1500 ug/L
							PCB-1262 Peak 4	1500 ug/L
							PCB-1262 Peak 5	1500 ug/L
					SGPCBIS STOCk 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG32/6210PPM_00014	02/09/23	02/09/22	HEXANE, Lot 5341787	100 mL	SG32/62 STK_00008	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
							PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SG32/62 STK_00008	06/30/25		Restelk, Lot A0147561			(Purchased Reagent)	PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
.SGPCBIS STOCk 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736			(Purchased Reagent)	1-Bromo-2-nitrobenzene	1000 ug/mL
SG42/68@1.0PP_00042	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG42/6810PPM_00013	5 mL	PCB-1242 Peak 1	1000 ug/L
							PCB-1242 Peak 2	1000 ug/L
							PCB-1242 Peak 3	1000 ug/L
							PCB-1242 Peak 4	1000 ug/L
							PCB-1242 Peak 5	1000 ug/L
							PCB-1268 Peak 1	1000 ug/L
							PCB-1268 Peak 2	1000 ug/L
							PCB-1268 Peak 3	1000 ug/L
							PCB-1268 Peak 4	1000 ug/L
							PCB-1268 Peak 5	1000 ug/L
					SGPCBIS STOCk 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG4268@.05PPM_00023	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG42/6810PPM_00013	0.25 mL	PCB-1242 Peak 1	50 ug/L
							PCB-1242 Peak 2	50 ug/L
							PCB-1242 Peak 3	50 ug/L
							PCB-1242 Peak 4	50 ug/L
							PCB-1242 Peak 5	50 ug/L
							PCB-1268 Peak 1	50 ug/L
							PCB-1268 Peak 2	50 ug/L
							PCB-1268 Peak 3	50 ug/L
							PCB-1268 Peak 4	50 ug/L
							PCB-1268 Peak 5	50 ug/L
					SGPCBIS STOCK 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
.SGPCBIS STOCK 00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD 00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG4268@.1PPM_00024	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG42/6810PPM_00013	0.5 mL	PCB-1242 Peak 1	100 ug/L
							PCB-1242 Peak 2	100 ug/L
							PCB-1242 Peak 3	100 ug/L
							PCB-1242 Peak 4	100 ug/L
							PCB-1242 Peak 5	100 ug/L
							PCB-1268 Peak 1	100 ug/L
							PCB-1268 Peak 2	100 ug/L
							PCB-1268 Peak 3	100 ug/L
							PCB-1268 Peak 4	100 ug/L
							PCB-1268 Peak 5	100 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	1-Bromo-2-nitrobenzene	50 ug/L
							PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137				(Purchased Reagent)	
							PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
							..ISTD 00007	1000 ug/mL
SG4268@.2PPM_00023	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG42/6810PPM_00013	1 mL	PCB-1242 Peak 1	200 ug/L
							PCB-1242 Peak 2	200 ug/L
							PCB-1242 Peak 3	200 ug/L
							PCB-1242 Peak 4	200 ug/L
							PCB-1242 Peak 5	200 ug/L
							PCB-1268 Peak 1	200 ug/L
							PCB-1268 Peak 2	200 ug/L
							PCB-1268 Peak 3	200 ug/L
							PCB-1268 Peak 4	200 ug/L
							PCB-1268 Peak 5	200 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	1-Bromo-2-nitrobenzene	50 ug/L
							PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
.SGPCBIS STOCK_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG4268@0.5PPM_00054	12/22/22	06/22/22	HEXANE, Lot 5341787	100 mL	SG42/6810PPM_00013	5 mL	PCB-1242 Peak 1	500 ug/L
							PCB-1242 Peak 2	500 ug/L
							PCB-1242 Peak 3	500 ug/L
							PCB-1242 Peak 4	500 ug/L
							PCB-1242 Peak 5	500 ug/L
							PCB-1268 Peak 1	500 ug/L
							PCB-1268 Peak 2	500 ug/L
							PCB-1268 Peak 3	500 ug/L
							PCB-1268 Peak 4	500 ug/L
							PCB-1268 Peak 5	500 ug/L
					SGPCBIS STOCK_00020	0.5 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
.SGPCBIS STOCk_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SG4268@0.5PPM_00054	12/22/22	06/22/22	HEXANE, Lot 5341787	100 mL	SG42/6810PPM_00013	5 mL	PCB-1242	500 ug/L
							PCB-1268	500 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	PCB-1242	10000 ug/L
							PCB-1268	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242	1000 ug/mL
							PCB-1268	1000 ug/mL
SG4268@1.5PPM_00014	12/22/22	06/22/22	HEXANE, Lot 5341787	50 mL	SG42/6810PPM_00013	7.5 mL	PCB-1242 Peak 1	1500 ug/L
							PCB-1242 Peak 2	1500 ug/L
							PCB-1242 Peak 3	1500 ug/L
							PCB-1242 Peak 4	1500 ug/L
							PCB-1242 Peak 5	1500 ug/L
							PCB-1268 Peak 1	1500 ug/L
							PCB-1268 Peak 2	1500 ug/L
							PCB-1268 Peak 3	1500 ug/L
							PCB-1268 Peak 4	1500 ug/L
							PCB-1268 Peak 5	1500 ug/L
					SGPCBIS STOCk 00020	0.25 mL	1-Bromo-2-nitrobenzene	50 ug/L
.SG42/6810PPM_00013	02/14/23	02/14/22	HEXANE, Lot 5341787	100 mL	SG 42/68 STK_00007	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG 42/68 STK_00007	02/28/25		RESTEK, Lot A0143137		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
.SGPCBIS STOCk_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SGPCBISTD_00033	01/21/23	07/21/22	HEXANE, Lot 5341787	100 mL	SGPCBIS STOCk_00020	10 mL	1-Bromo-2-nitrobenzene	1 ug/mL
.SGPCBIS STOCk_00020	05/13/23	05/13/22	HEXANE, Lot 5341787	50 mL	ISTD_00007	0.5 mL	1-Bromo-2-nitrobenzene	10 ug/mL
..ISTD 00007	08/31/23		Restek, Lot A0160736		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
SMDFTPPW_00024							4,4'-DDD			
							4,4'-DDE			
							Aramite, Total			
							Diallate			
							Isosafrole			
							Methyl Phenols, Total			
							Tentatively Identified Compound			
							SMDFTPPR_00018	1 mL	4,4'-DDT	25 ug/mL
.SMDFTPPR_00018	03/31/25	Restek, Lot A0182667			(Purchased Reagent)	4,4'-DDT	1000 ug/mL			
						Benzidine	1000 ug/mL			
						DFTPP	1000 ug/mL			
						Pentachlorophenol	1000 ug/mL			
SMIS80PPMW_00025	03/31/23	03/28/22	MECL2, Lot 0000283044	40 mL	SMIS R_00015	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL		
							Acenaphthene-d10	80 ug/mL		
							Chrysene-d12	80 ug/mL		
							Naphthalene-d8	80 ug/mL		
							Perylene-d12	80 ug/mL		
							Phenanthrene-d10	80 ug/mL		
							.SMIS R_00015	12/31/25	Restek, Lot A0167198	
Acenaphthene-d10	2000 ug/mL									
Chrysene-d12	2000 ug/mL									
Naphthalene-d8	2000 ug/mL									
Perylene-d12	2000 ug/mL									
Phenanthrene-d10	2000 ug/mL									
SMLIST1 L1+ W_00013	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL		
							Acenaphthene-d10	4 ug/mL		
							Chrysene-d12	4 ug/mL		
							Naphthalene-d8	4 ug/mL		
							Perylene-d12	4 ug/mL		
							Phenanthrene-d10	4 ug/mL		
							SMLIST1PAH+ST_00013	2 uL	1,1'-Biphenyl	0.1 ug/mL
									1-Methylnaphthalene	0.1 ug/mL
									2-Chloronaphthalene	0.1 ug/mL
									2-Methylnaphthalene	0.1 ug/mL
				Acenaphthene	0.1 ug/mL					
				Acenaphthylene	0.1 ug/mL					
				Anthracene	0.1 ug/mL					
				Benzo[a]anthracene	0.1 ug/mL					
				Benzo[a]pyrene	0.1 ug/mL					
				Benzo[b]fluoranthene	0.1 ug/mL					
				Benzo[g,h,i]perylene	0.1 ug/mL					
				Benzo[k]fluoranthene	0.1 ug/mL					
				Chrysene	0.1 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz (a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							Pyridine	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1PAH+ST_00013	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 PAH_00013	1 mL	1,1'-Biphenyl	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz (a,h) anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2-Fluorobiphenyl (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 PAH_00013	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L2 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,2'-oxybis[1-chloropropane]	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz (a,h) anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Diphenylamine	0.425 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl) ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzydine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)		Terphenyl-d14 (Surr)	100 ug/mL
								1,1'-Biphenyl	1000 ug/mL
								1,2,4,5-Tetrachlorobenzene	1000 ug/mL
								1,2,4-Trichlorobenzene	1000 ug/mL
								1,2-Dichlorobenzene	1000 ug/mL
								1,3-Dichlorobenzene	1000 ug/mL
								1,3-Dinitrobenzene	1000 ug/mL
								1,4-Dichlorobenzene	1000 ug/mL
								1,4-Dioxane	1000 ug/mL
								1-Methylnaphthalene	1000 ug/mL
								2,2'-oxybis[1-chloropropane]	1000 ug/mL
								2,3,4,6-Tetrachlorophenol	1000 ug/mL
								2,4,5-Trichlorophenol	1000 ug/mL
								2,4,6-Trichlorophenol	1000 ug/mL
								2,4-Dichlorophenol	1000 ug/mL
								2,4-Dimethylphenol	1000 ug/mL
								2,4-Dinitrophenol	2000 ug/mL
								2,4-Dinitrotoluene	1000 ug/mL
								2,6-Dichlorophenol	1000 ug/mL
								2,6-Dinitrotoluene	1000 ug/mL
								2-Chloronaphthalene	1000 ug/mL
								2-Chlorophenol	1000 ug/mL
								2-Methylnaphthalene	1000 ug/mL
								2-Methylphenol	1000 ug/mL
								2-Nitroaniline	1000 ug/mL
								2-Nitrophenol	1000 ug/mL
								3 & 4 Methylphenol	1000 ug/mL
								3-Nitroaniline	1000 ug/mL
								4,6-Dinitro-2-methylphenol	2000 ug/mL
								4-Bromophenyl phenyl ether	1000 ug/mL
								4-Chloro-3-methylphenol	1000 ug/mL
								4-Chloroaniline	1000 ug/mL
								4-Chlorophenyl phenyl ether	1000 ug/mL
								4-Nitroaniline	1000 ug/mL
								4-Nitrophenol	2000 ug/mL
								Acenaphthene	1000 ug/mL
								Acenaphthylene	1000 ug/mL
								Acetophenone	1000 ug/mL
								Aniline	1000 ug/mL
								Anthracene	1000 ug/mL
		Azobenzene	1000 ug/mL						
		Benzo[a]anthracene	1000 ug/mL						
		Benzo[a]pyrene	1000 ug/mL						
		Benzo[b]fluoranthene	1000 ug/mL						
		Benzo[g,h,i]perylene	1000 ug/mL						
		Benzo[k]fluoranthene	1000 ug/mL						
		Benzyl alcohol	1000 ug/mL						
		Bis(2-chloroethoxy)methane	1000 ug/mL						

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244			(Purchased Reagent)	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807			(Purchased Reagent)	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis (2-chloroethoxy)methane	1 ug/mL
							Bis (2-chloroethyl) ether	1 ug/mL
							Bis (2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz (a,h) anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
4-Nitrophenol	200 ug/mL							
Acenaphthene	100 ug/mL							
Acenaphthylene	100 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
							1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
		4-Nitroaniline	1000 ug/mL					
		4-Nitrophenol	2000 ug/mL					
		Acenaphthene	1000 ug/mL					
		Acenaphthylene	1000 ug/mL					
		Acetophenone	1000 ug/mL					
		Aniline	1000 ug/mL					
		Anthracene	1000 ug/mL					
		Azobenzene	1000 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787			(Purchased Reagent)	Benzoic acid	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244			(Purchased Reagent)	Indene	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	Atrazine	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	Benzaldehyde	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121			(Purchased Reagent)	Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807			(Purchased Reagent)	2,4,6-Tribromophenol (Surr)	5000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807			(Purchased Reagent)	2-Fluorobiphenyl (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 I4 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
Acenaphthylene	2 ug/mL							
Acetophenone	2 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis (2-chloroethoxy)methane	2 ug/mL
							Bis (2-chloroethyl) ether	2 ug/mL
							Bis (2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz (a,h) anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis (2-chloroethoxy)methane	100 ug/mL
							Bis (2-chloroethyl) ether	100 ug/mL
							Bis (2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz (a,h) anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							Pyrene	100 ug/mL	
							Pyridine	200 ug/mL	
						SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
								Indene	200 ug/mL
						SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
								Benzaldehyde	200 ug/mL
								Caprolactam	200 ug/mL
						SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
								Benzydine	200 ug/mL
						SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
								2-Fluorobiphenyl (Surr)	100 ug/mL
								2-Fluorophenol (Surr)	100 ug/mL
								Nitrobenzene-d5 (Surr)	100 ug/mL
								Phenol-d5 (Surr)	100 ug/mL
		Terphenyl-d14 (Surr)	100 ug/mL						
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL	
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL	
							1,2,4-Trichlorobenzene	1000 ug/mL	
							1,2-Dichlorobenzene	1000 ug/mL	
							1,3-Dichlorobenzene	1000 ug/mL	
							1,3-Dinitrobenzene	1000 ug/mL	
							1,4-Dichlorobenzene	1000 ug/mL	
							1,4-Dioxane	1000 ug/mL	
							1-Methylnaphthalene	1000 ug/mL	
							2,2'-oxybis[1-chloropropane]	1000 ug/mL	
							2,3,4,6-Tetrachlorophenol	1000 ug/mL	
							2,4,5-Trichlorophenol	1000 ug/mL	
							2,4,6-Trichlorophenol	1000 ug/mL	
							2,4-Dichlorophenol	1000 ug/mL	
							2,4-Dimethylphenol	1000 ug/mL	
							2,4-Dinitrophenol	2000 ug/mL	
							2,4-Dinitrotoluene	1000 ug/mL	
							2,6-Dichlorophenol	1000 ug/mL	
							2,6-Dinitrotoluene	1000 ug/mL	
							2-Chloronaphthalene	1000 ug/mL	
							2-Chlorophenol	1000 ug/mL	
							2-Methylnaphthalene	1000 ug/mL	
							2-Methylphenol	1000 ug/mL	
							2-Nitroaniline	1000 ug/mL	
							2-Nitrophenol	1000 ug/mL	
							3 & 4 Methylphenol	1000 ug/mL	
							3-Nitroaniline	1000 ug/mL	
							4,6-Dinitro-2-methylphenol	2000 ug/mL	
							4-Bromophenyl phenyl ether	1000 ug/mL	
							4-Chloro-3-methylphenol	1000 ug/mL	
							4-Chloroaniline	1000 ug/mL	
							4-Chlorophenyl phenyl ether	1000 ug/mL	
							4-Nitroaniline	1000 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
Pentachlorophenol	2000 ug/mL							
Phenanthrene	1000 ug/mL							
Phenol	1000 ug/mL							
Pyrene	1000 ug/mL							
Pyridine	2000 ug/mL							
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis (2-chloroethoxy)methane	5 ug/mL
							Bis (2-chloroethyl) ether	5 ug/mL
							Bis (2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz (a,h) anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Diphenylamine	4.25 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis (2-chloroethoxy)methane	10 ug/mL
							Bis (2-chloroethyl) ether	10 ug/mL
							Bis (2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz (a,h) anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl) ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzydine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 w_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,2'-oxybis[1-chloropropane]	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dichlorophenol	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Diphenylamine	12.75 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							n-Decane	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							N-Nitrosodiphenylamine	15 ug/mL
							n-Octadecane	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	20 ug/mL
							Diphenylamine	17 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00016	09/30/26		Restek, Lot A0176256		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz (a,h) anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Indene	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		Atrazine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
							2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	2 mL	SMIS80PPMW_00026	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00019	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,2'-oxybis[1-chloropropane]	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dichlorophenol	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz (a,h) anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Diphenylamine	21.25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							n-Decane	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							N-Nitrosodiphenylamine	25 ug/mL
							n-Octadecane	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	50 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							Atrazine	50 ug/mL
							Benzaldehyde	50 ug/mL
							Caprolactam	50 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00026	04/30/23	04/22/22	MECL2, Lot 0000283044	40 mL	SMIS R_00016	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMIS R_00016	09/30/26		Restek, Lot A0176256			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00019	11/30/22	07/07/22	MECL2, Lot 21I2262004	10 mL	SMLIST1 S1_00014	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
4-Nitrophenol	200 ug/mL							
Acenaphthene	100 ug/mL							
Acenaphthylene	100 ug/mL							
Acetophenone	100 ug/mL							
Aniline	100 ug/mL							
Anthracene	100 ug/mL							
Azobenzene	100 ug/mL							
Benzo[a]anthracene	100 ug/mL							
Benzo[a]pyrene	100 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis (2-chloroethoxy)methane	100 ug/mL
							Bis (2-chloroethyl) ether	100 ug/mL
							Bis (2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz (a,h) anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Diphenylamine	85 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	200 ug/mL
					SMLIST1 S10_00008	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00011	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00009	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
					SMLIST1 SURR_00017	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00014	06/30/23		Restek, Lot A0179662			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SMLIST1 S10_00008	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00011	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00009	07/31/23		Restek, Lot A0181121		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00017	05/30/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00019	09/30/22	03/28/22	MECL2, Lot 0000283044	2 mL	SMIS80PPMW_00025	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SMIS80PPMW_00025	03/31/23	03/28/22	MECL2, Lot 0000283044	40 mL	SMIS R_00015	1.6 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00015	12/31/25		Restek, Lot A0167198			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMLIST1 SS W_00019	09/30/22	03/28/22	MECL2, Lot 0000283044	2 mL	SMLIST1 SS ST_00018	200 uL	1-Methylnaphthalene	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Chrysene	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Naphthalene	10 ug/mL
							Phenanthrene	10 ug/mL
							Pyrene	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00018	09/30/22	09/09/21	MECL2, Lot 0000274561	10 mL	SMLIST1 SS S1_00012	1 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SURR_00016	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00012	09/30/22		Restek, Lot A0169665			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SURR_00016	09/30/23		Restek, Lot A0141581			(Purchased Reagent)	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Reagent

ex1016/1260st_00023



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0161458

Description : Aroclor® 1016/1260 Mix
Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 25°C nominal

Handling: This product contains PCBs.


5121817
ID: ex1016/1260st_00023
Exp:09/30/26 Pkg:15MB Qty:1016/1260
Aroclor 1016/1260 Standard

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1016	1,003.5 µg/mL	+/-	5.8479	µg/mL	Gravimetric
	CAS # 12674-11-2 (Lot 04)		+/-	31.7973	µg/mL	Unstressed
	Purity ---%		+/-	41.5420	µg/mL	Stressed
2	Aroclor 1260	1,008.5 µg/mL	+/-	5.8771	µg/mL	Gravimetric
	CAS # 11096-82-5 (Lot 07)		+/-	31.9557	µg/mL	Unstressed
	Purity ---%		+/-	41.7489	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:
10m x .25mm x .2um
Rtx-CLP II (cat.# 11373)

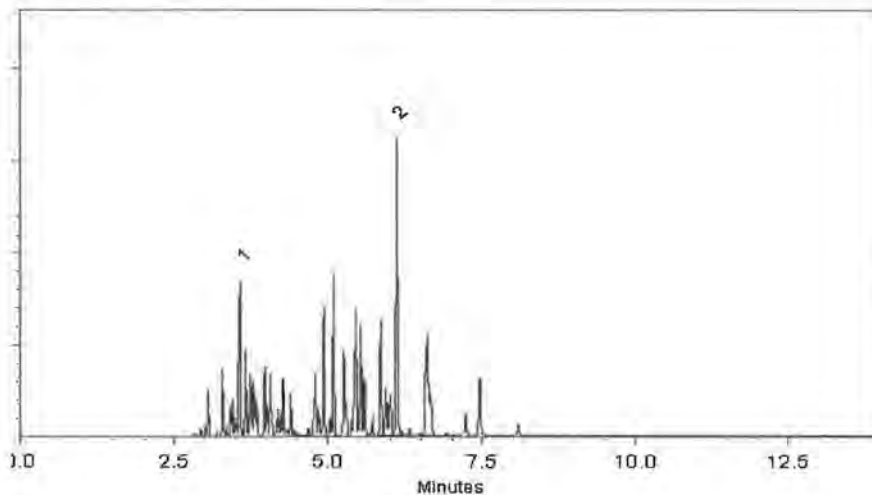
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kyle Struble
Kylie Struble - Operations Technician I

Date Mixed: 04-Jun-2020 **Balance:** 1128360905

Jennifer A Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Jun-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

ex10PPMSPK_00058

**LABORATORY STANDARDS DOCUMENTATION FORM
FOR TESTAMERICA LABORATORIES, INC.**

Standard No. _____



5669675
ID: ex10PPMSPK_00058
Exp: 10/13/22 Pppl: 5MB Cr: 04/13/22
Aroclor 1016/1260 Spike

Standard Name _____

Date Created _____

Extractionist Initials _____

Extractionist Comments _____

◆ **Please return copy of chromatogram and recovery results** ◆

Date Analyzed 4/17/22

Passed? Yes No

Returned copy of chromatogram and recovery page to Extractions? Yes No

Analyst Initials CSH

Analyst Comments _____

Preliminary Report

Eurofins Canton

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Canton\ChromData\A2HP10\20220413-117682.b\P10041410.D

Lims ID: 1016 spike

Inj. Date: 14-Apr-2022 11:00:13

Worklist ID: 240-0117682-010

Instrument: A2HP10

Method: PCB10 IS

Detector 1: GC ECD1A

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3540C
6 PCB-1016	1.00	0.9546	95.5	47-120
6 PCB-1016-1	1.00	0.9811	98.1	47-120
6 PCB-1016-2	1.00	1.10	110.0	47-120
6 PCB-1016-3	1.00	0.7413	74.1	47-120
6 PCB-1016-4	1.00	0.9900	99.0	47-120
6 PCB-1016-5	1.00	0.9610	96.1	47-120
10 PCB-1260	1.00	1.04	104.0	46-120
10 PCB-1260-1	1.00	1.02	101.8	46-120
10 PCB-1260-2	1.00	1.00	100.5	46-120
10 PCB-1260-3	1.00	1.05	105.4	46-120
10 PCB-1260-4	1.00	1.02	101.7	46-120
10 PCB-1260-5	1.00	1.11	110.9	46-120

Detector 2: GC ecd2b

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3540C
6 PCB-1016	1.00	1.04	103.6	47-120
6 PCB-1016-1	1.00	0.9706	97.1	47-120
6 PCB-1016-2	1.00	0.9885	98.8	47-120
6 PCB-1016-3	1.00	1.06	105.6	47-120
6 PCB-1016-4	1.00	1.06	106.3	47-120
6 PCB-1016-5	1.00	1.10	110.0	47-120
10 PCB-1260	1.00	1.06	106.5	46-120
10 PCB-1260-1	1.00	1.02	101.8	46-120
10 PCB-1260-2	1.00	1.06	105.6	46-120
10 PCB-1260-3	1.00	1.09	108.7	46-120
10 PCB-1260-4	1.00	1.07	107.2	46-120
10 PCB-1260-5	1.00	1.09	109.0	46-120

Samples for Limit Group: 1, Lims Prep Method: 3540C

240-164872-D-1-E

240-164899-H-1-B

240-164902-H-1-B

240-164901-C-1-B

Reagent

exBENZALDEHYD_00080

**LABORATORY STANDARDS DOCUMENTATION FOR
FOR TESTAMERICA LABORATORIES, INC.**

Standard No. _____  5799321 _____

Standard Name _____ ID: exBENZALDEHYD_00080
Exp: 11/30/22 Prod: BMB Cr: 05/30/22
Benzaldehyde BNA Spike _____

Date Created 6-30-22

Extractionist Initials BB

Extractionist Comments Please confirm new spike

◆ Please return copy of chromatogram and recovery results ◆

Date Analyzed 7/5/22

Passed? Yes
No

Returned copy of chromatogram and recovery page to Extractions? Yes
No

Analyst Initials MU

Analyst Comments _____

WI-NC-020A_101207

Preliminary Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220705-120048.b\20705113.D

Injection Date: 05-Jul-2022 14:26:58

Instrument ID: A4AG3

Operator ID:

Lims ID: benzspk080

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

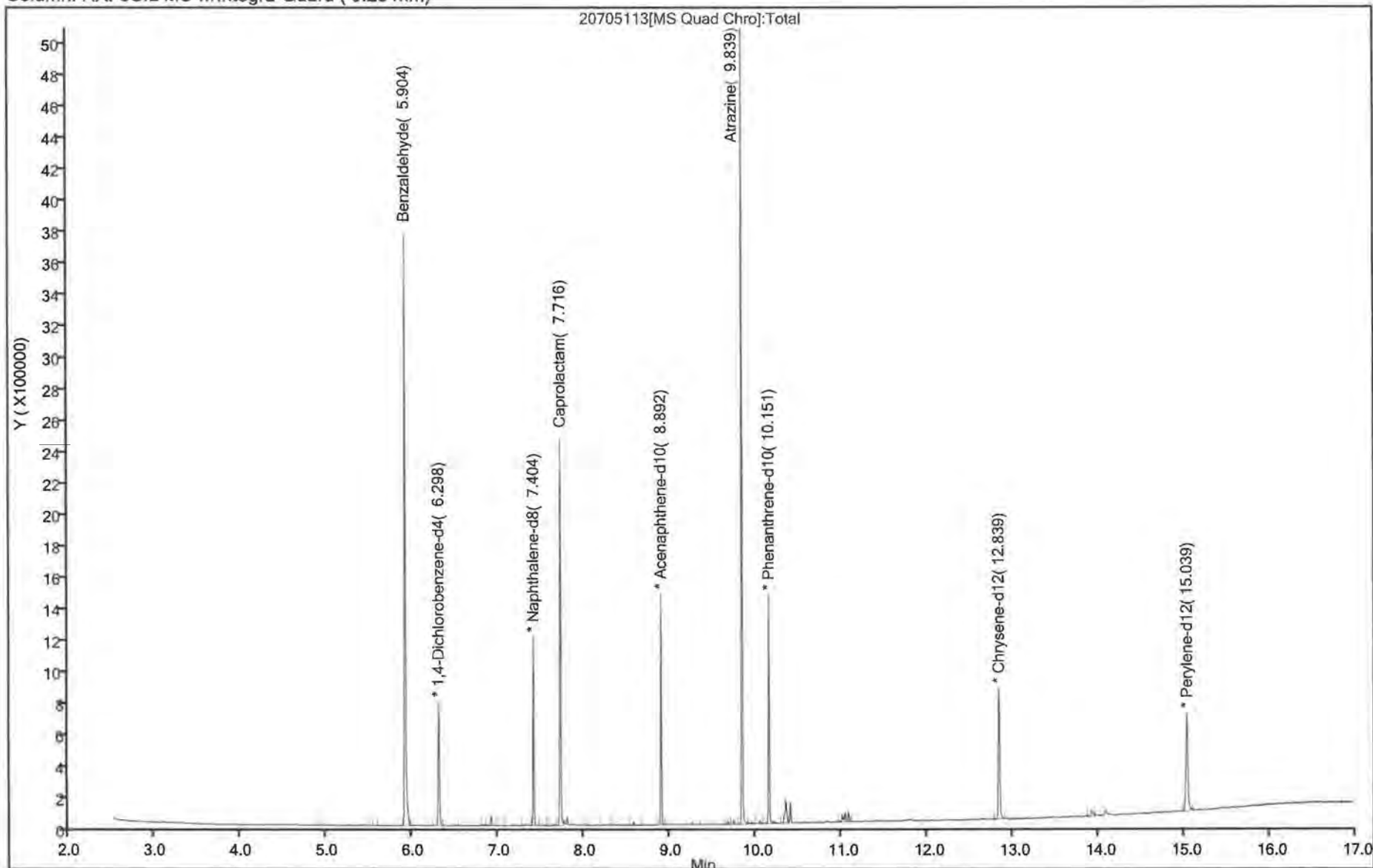
Dil. Factor: 2.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270C ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Preliminary Report

Eurofins Canton

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Canton\ChromData\A4AG3\20220705-120048.b\20705113.D

Lims ID: benzspk080

Inj. Date: 05-Jul-2022 14:26:58

Worklist ID: 240-0120048-013

Instrument: A4AG3

Method: 8270 AG3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
30 Benzaldehyde	20.0	21.9	109.7	42-120
78 Caprolactam	20.0	20.9	104.6	67-120
140 Atrazine	20.0	19.8	98.8	71-125

Samples for Limit Group: 1, Lims Prep Method: 3510C

240-168888-G-1-A

240-168220-C-5-B

240-168999-A-8-F

240-169040-D-1-C

240-168822-A-1-H

240-168822-A-2-D

Reagent

exBNASURR W_00103

**LABORATORY STANDARDS DOCUMENTATION FORM
FOR TESTAMERICA LABORATORIES, INC.**

Standard No. _____



5904368

Standard Name _____

ID: exBNASURR W_00103

Exp: 01/14/23 Pptd: BMB Ctl: 07/14/22

BNA Surrogates

Date Created 7-14-22

Extractionist Initials BB

Extractionist Comments Please confirm
new surrogate

◆ Please return copy of chromatogram and recovery results ◆

Date Analyzed _____

Passed? Yes

No

Returned copy of chromatogram and recovery page to Extractions? Yes

No

Analyst Initials _____

Analyst Comments _____

WI-NC-020A_101207

Report Date: 19-Jul-2022 12:49:24

Chrom Revision: 2.3 20-Jun-2022 20:10:40

Preliminary Report

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4HP9\20220719-120462.b\20719009.D
Injection Date: 19-Jul-2022 12:24:30
Instrument ID: A4HP9

Client ID: LC5chk

Operator ID:
Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 2.0000

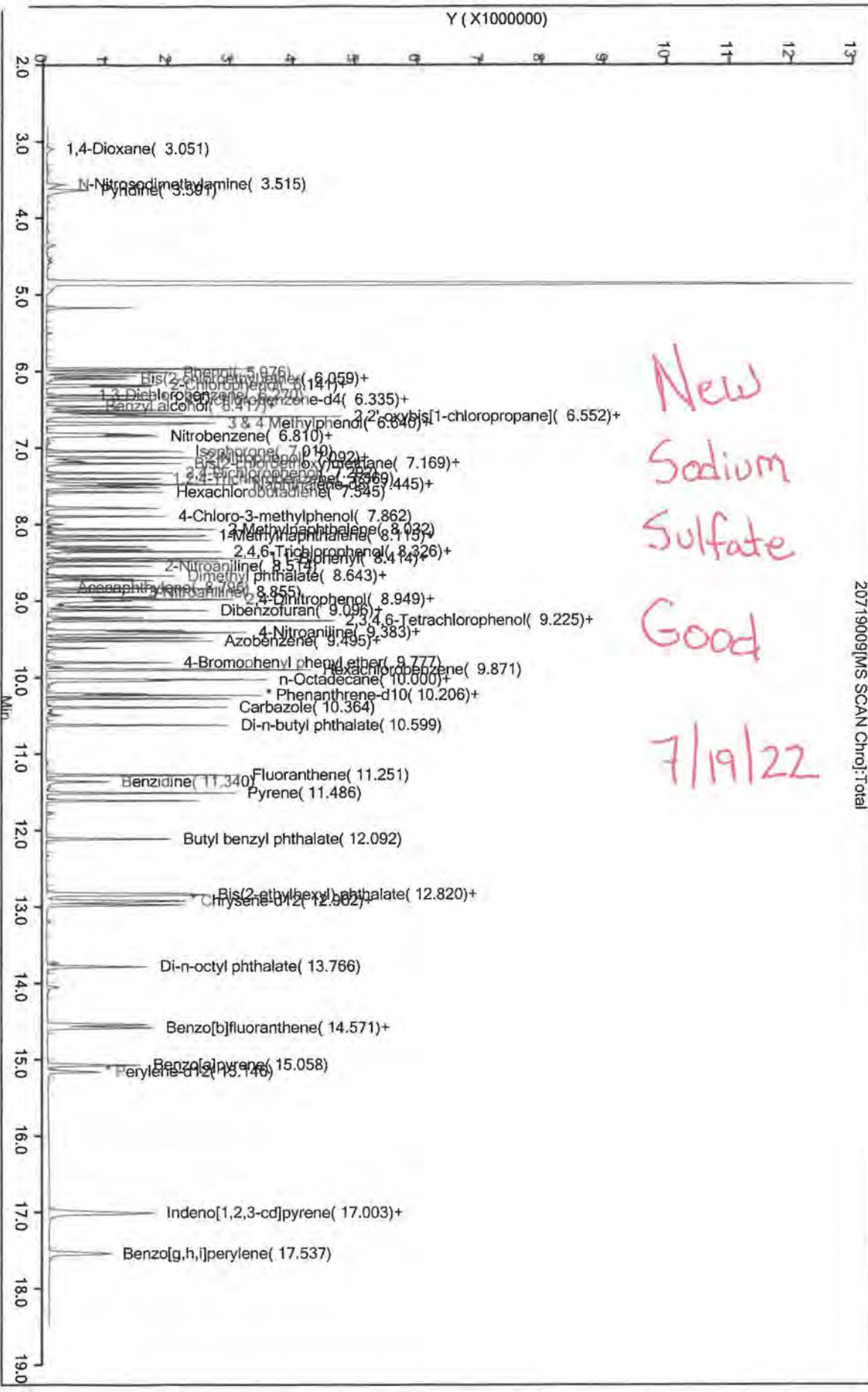
ALS Bottle#: 9

Method: 8270_9

Limit Group: MSS 8270C ICAL

Column: 5% phenyl (0.18 mm)

20719009\MS SCAN Chromj>Total



New
Sodium
Sulfate
Good
7/19/22

Preliminary Report

Eurofins Canton

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Canton\ChromData\A4HP9\20220719-120462.b\20719009.D

Lims ID: LCSchk

Inj. Date: 19-Jul-2022 12:24:30

Worklist ID: 240-0120462-009

Instrument: A4HP9

Method: 8270_9

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
25 1,4-Dioxane	10.0	3.42	34.2	10-120
26 N-Nitrosodimethylamine	10.0	6.75	67.5	10-120
27 Pyridine	20.0	8.17	40.8	10-120
43 Phenol	10.0	7.57	75.7	10-120
44 Aniline	10.0	5.18	51.8	26-120
69 Bis(2-chloroethyl)ether	10.0	7.19	71.9	40-120
46 2-Chlorophenol	10.0	7.20	72.0	46-120
243 n-Decane	10.0	5.52	55.2	34-120
47 1,3-Dichlorobenzene	10.0	6.15	61.5	40-120
48 1,4-Dichlorobenzene	10.0	6.27	62.7	40-120
49 Benzyl alcohol	10.0	6.95	69.5	10-120
50 1,2-Dichlorobenzene	10.0	6.29	62.9	41-120
51 2-Methylphenol	10.0	7.68	76.8	45-120
53 2,2'-oxybis[1-chloropro	10.0	8.89	88.9	41-120
52 Indene	20.0	12.6	62.8	40-120
21 3 & 4 Methylphenol	10.0	7.90	79.0	40-120
57 N-Nitrosodi-n-propylami	10.0	7.24	72.4	49-120
58 Acetophenone	10.0	6.95	69.5	47-120
61 Hexachloroethane	10.0	6.23	62.3	39-120
62 Nitrobenzene	10.0	6.85	68.5	47-120
64 Isophorone	10.0	7.48	74.8	51-120
66 2-Nitrophenol	10.0	7.57	75.7	51-120
65 2,4-Dimethylphenol	10.0	6.01	60.1	44-120
71 Benzoic acid	20.0	12.8	63.9	10-120
70 Bis(2-chloroethoxy)meth	10.0	6.85	68.5	49-120
73 2,4-Dichlorophenol	10.0	7.51	75.1	53-120
74 1,2,4-Trichlorobenzene	10.0	6.11	61.1	44-120
75 Naphthalene	10.0	6.46	64.6	46-120
76 4-Chloroaniline	10.0	5.43	54.3	10-126
77 2,6-Dichlorophenol	10.0	7.20	72.0	51-120
79 Hexachlorobutadiene	10.0	5.85	58.5	41-120
86 4-Chloro-3-methylphenol	10.0	8.07	80.7	52-120
87 2-Methylnaphthalene	10.0	6.10	61.0	49-120
88 1-Methylnaphthalene	10.0	6.45	64.5	49-120
89 Hexachlorocyclopentadie	10.0	4.34	43.4	15-120
91 1,2,4,5-Tetrachlorobenz	10.0	5.92	59.2	49-120
92 2,4,6-Trichlorophenol	10.0	6.99	69.9	51-120
93 2,4,5-Trichlorophenol	10.0	6.72	67.2	52-123
98 1,1'-Biphenyl	10.0	5.90	59.0	48-120
100 2-Chloronaphthalene	10.0	6.33	63.3	51-120
102 2-Nitroaniline	10.0	7.65	76.5	57-121

Preliminary Report

Sample Path: \\chromfs\Canton\ChromData\A4HP9\20220719-120462.b\20719009.D

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C
105 Dimethyl phthalate	10.0	7.12	71.2	49-125
106 1,3-Dinitrobenzene	10.0	7.53	75.3	60-127
107 2,6-Dinitrotoluene	10.0	7.15	71.5	54-132
109 Acenaphthylene	10.0	6.13	61.3	50-120
110 3-Nitroaniline	10.0	6.94	69.4	47-123
111 2,4-Dinitrophenol	20.0	12.1	60.3	11-139
112 Acenaphthene	10.0	6.16	61.6	54-120
113 4-Nitrophenol	20.0	15.6	78.0	10-120
114 2,4-Dinitrotoluene	10.0	7.35	73.5	58-125
116 Dibenzofuran	10.0	6.83	68.3	54-120
119 2,3,4,6-Tetrachlorophen	10.0	6.45	64.5	42-125
247 Hexadecane	10.0	8.07	80.7	0-0
121 Diethyl phthalate	10.0	6.52	65.2	55-120
123 4-Chlorophenyl phenyl e	10.0	6.83	68.3	55-120
125 4-Nitroaniline	10.0	7.18	71.8	56-127
126 Fluorene	10.0	6.92	69.2	55-120
128 4,6-Dinitro-2-methylphe	20.0	16.2	81.2	49-130
131 N-Nitrosodiphenylamine	10.0	8.24	82.4	56-125
130 Diphenylamine	8.55	7.01	82.0	55-125
132 1,2-Diphenylhydrazine	10.0	8.40	84.0	53-123
133 Azobenzene	10.0	8.39	83.9	53-123
139 4-Bromophenyl phenyl et	10.0	7.78	77.8	58-125
141 Hexachlorobenzene	10.0	6.73	67.3	55-120
244 n-Octadecane	10.0	10.2	101.7	53-132
143 Pentachlorophenol	20.0	13.4	66.9	19-132
148 Phenanthrene	10.0	7.19	71.9	55-120
149 Anthracene	10.0	7.48	74.8	58-121
151 Carbazole	10.0	8.10	81.0	60-130
154 Di-n-butyl phthalate	10.0	8.46	84.6	59-130
159 Fluoranthene	10.0	7.48	74.8	58-128
160 Benzidine	20.0	13.9	69.5	10-145
161 Pyrene	10.0	8.15	81.5	59-120
168 Butyl benzyl phthalate	10.0	8.06	80.6	58-124
173 Bis(2-ethylhexyl) phtha	10.0	7.90	79.0	60-126
175 3,3'-Dichlorobenzidine	20.0	22.6	112.9	51-154
177 Benzo[a]anthracene	10.0	7.55	75.5	61-120
178 Chrysene	10.0	7.21	72.1	57-120
180 Di-n-octyl phthalate	10.0	7.55	75.5	57-126
182 Benzo[b]fluoranthene	10.0	7.24	72.4	57-130
183 Benzo[k]fluoranthene	10.0	7.51	75.1	53-137
184 Benzo[a]pyrene	10.0	7.25	72.5	56-131
188 Indeno[1,2,3-cd]pyrene	10.0	7.84	78.4	59-122
189 Dibenz(a,h)anthracene	10.0	7.85	78.5	58-120
190 Benzo[g,h,i]perylene	10.0	7.95	79.5	58-120

Reagent

exLIST1_S1_00028

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0179662

Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. **Ship:** Ambient
Photosensitive. Sonicate.

5647953
 ID: exLIST1_S1_00028
 Exp: 06/30/23 Pp: 9MB Opn: 03/18/22
 8270 List 1/Std #1 MegaMl

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane	1,003.2 µg/mL (Lot SHBM9675)	+/-	5.8327	µg/mL	Gravimetric
	CAS # 123-91-1		+/-	11.9923	µg/mL	Unstressed
	Purity 99%		+/-	19.0856	µg/mL	Stressed
2	N-Nitrosodimethylamine	1,008.7 µg/mL (Lot 210512JLM)	+/-	5.8645	µg/mL	Gravimetric
	CAS # 62-75-9		+/-	12.0577	µg/mL	Unstressed
	Purity 99%		+/-	19.1896	µg/mL	Stressed
3	Pyridine	2,012.7 µg/mL (Lot SHBL0433)	+/-	11.7018	µg/mL	Gravimetric
	CAS # 110-86-1		+/-	24.0595	µg/mL	Unstressed
	Purity 99%		+/-	38.2904	µg/mL	Stressed
4	Phenol	1,004.1 µg/mL (Lot MKCK1120)	+/-	5.8377	µg/mL	Gravimetric
	CAS # 108-95-2		+/-	12.0027	µg/mL	Unstressed
	Purity 99%		+/-	19.1021	µg/mL	Stressed
5	Aniline	1,004.5 µg/mL (Lot X22F726)	+/-	5.8404	µg/mL	Gravimetric
	CAS # 62-53-3		+/-	12.0083	µg/mL	Unstressed
	Purity 99%		+/-	19.1110	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,006.9 µg/mL (Lot SHBL6942)	+/-	5.8544	µg/mL	Gravimetric
	CAS # 111-44-4		+/-	12.0369	µg/mL	Unstressed
	Purity 99%		+/-	19.1566	µg/mL	Stressed
7	n-Decane (C10)	1,006.1 µg/mL (Lot SHBM1113)	+/-	5.8497	µg/mL	Gravimetric
	CAS # 124-18-5		+/-	12.0274	µg/mL	Unstressed
	Purity 99%		+/-	19.1414	µg/mL	Stressed

8	2-Chlorophenol		1,004.3	µg/mL	+/-	5.8389	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot STBH7290)			+/-	12.0051	µg/mL	Unstressed
	Purity 99%				+/-	19.1059	µg/mL	Stressed
9	1,3-Dichlorobenzene		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
10	1,4-Dichlorobenzene		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
11	Benzyl alcohol		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBK5943)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
12	1,2-Dichlorobenzene		1,006.9	µg/mL	+/-	5.8544	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	12.0369	µg/mL	Unstressed
	Purity 99%				+/-	19.1566	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,006.6	µg/mL	+/-	5.8525	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBH6379)			+/-	12.0330	µg/mL	Unstressed
	Purity 99%				+/-	19.1503	µg/mL	Stressed
14	2,2'-oxybis(1-chloropropane)		1,006.5	µg/mL	+/-	5.8517	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 11885400)			+/-	12.0314	µg/mL	Unstressed
	Purity 99%				+/-	19.1477	µg/mL	Stressed
15	Acetophenone		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot STBH8205)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
16	3-Methylphenol (m-cresol)		502.0	µg/mL	+/-	2.9254	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot STBJ0710)			+/-	6.0042	µg/mL	Unstressed
	Purity 99%				+/-	9.5525	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		503.9	µg/mL	+/-	2.9367	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot SHBN1151)			+/-	6.0273	µg/mL	Unstressed
	Purity 99%				+/-	9.5893	µg/mL	Stressed
18	N-Nitroso-di-n-propylamine		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot 2D5VJ)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
19	Hexachloroethane		1,008.6	µg/mL	+/-	5.8641	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot QTORH)			+/-	12.0569	µg/mL	Unstressed
	Purity 99%				+/-	19.1883	µg/mL	Stressed
20	Nitrobenzene		1,001.5	µg/mL	+/-	5.8230	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 10224044)			+/-	11.9724	µg/mL	Unstressed
	Purity 99%				+/-	19.0539	µg/mL	Stressed
21	Isophorone		1,005.6	µg/mL	+/-	5.8466	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot MKCC9506)			+/-	12.0210	µg/mL	Unstressed
	Purity 99%				+/-	19.1312	µg/mL	Stressed
22	2-Nitrophenol		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCCB2407)			+/-	12.0306	µg/mL	Unstressed
	Purity 99%				+/-	19.1465	µg/mL	Stressed
23	2,4-Dimethylphenol		1,007.9	µg/mL	+/-	5.8598	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot B2L4B)			+/-	12.0481	µg/mL	Unstressed
	Purity 99%				+/-	19.1744	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 Purity 99%	(Lot 11955500)	1,008.2	µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol CAS # 120-83-2 Purity 99%	(Lot BCBZ6787)	1,001.5	µg/mL	+/- 5.8230 +/- 11.9724 +/- 19.0539	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBM0526)	1,008.2	µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKCH0219)	1,006.8	µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol CAS # 87-65-0 Purity 99%	(Lot MKCK2863)	1,001.3	µg/mL	+/- 5.8218 +/- 11.9700 +/- 19.0501	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline CAS # 106-47-8 Purity 99%	(Lot BCBJ1580V)	1,005.7	µg/mL	+/- 5.8470 +/- 12.0218 +/- 19.1325	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot X05J)	1,005.3	µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	4-Chloro-3-methylphenol CAS # 59-50-7 Purity 99%	(Lot BCCD4461)	1,004.7	µg/mL	+/- 5.8416 +/- 12.0106 +/- 19.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBK0259)	1,004.8	µg/mL	+/- 5.8420 +/- 12.0114 +/- 19.1160	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 5234.00-3)	1,003.4	µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3 Purity 99%	(Lot MKCG5992)	1,004.0	µg/mL	+/- 5.8373 +/- 12.0019 +/- 19.1008	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 99%	(Lot 0012020)	1,006.9	µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2 Purity 99%	(Lot STBJ5914)	1,006.5	µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4 Purity 98%	(Lot FHN01)	1,005.4	µg/mL	+/- 5.8456 +/- 12.0188 +/- 19.1277	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene CAS # 91-58-7 Purity 99%	(Lot TWYRD)	1,007.5	µg/mL	+/- 5.8579 +/- 12.0441 +/- 19.1680	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl CAS # 92-52-4 Purity 99%	(Lot MKCJ6240)	1,001.7	µg/mL	+/- 5.8242 +/- 11.9748 +/- 19.0577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Nitroaniline CAS # 88-74-4 Purity 99%	(Lot MKCJ8895)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene CAS # 208-96-8 Purity 98%	(Lot P06V)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene CAS # 99-65-0 Purity 99%	(Lot 1-DXX-24-1)	1,002.9 µg/mL	+/- 5.8311 +/- 11.9891 +/- 19.0805	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate CAS # 131-11-3 Purity 99%	(Lot 10117699)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99%	(Lot BCBB8606)	1,004.3 µg/mL	+/- 5.8389 +/- 12.0051 +/- 19.1059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	3-Nitroaniline CAS # 99-09-2 Purity 99%	(Lot MKCH5457)	1,006.1 µg/mL	+/- 5.8497 +/- 12.0274 +/- 19.1414	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	Acenaphthene CAS # 83-32-9 Purity 99%	(Lot MKCN0610)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,4-Dinitrophenol CAS # 51-28-5 Purity 99%	(Lot STBK2447-DR)	2,011.9 µg/mL	+/- 11.6976 +/- 24.0508 +/- 38.2764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Dibenzofuran CAS # 132-64-9 Purity 99%	(Lot MKCN1772)	1,005.0 µg/mL	+/- 5.8432 +/- 12.0138 +/- 19.1198	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	4-Nitrophenol CAS # 100-02-7 Purity 99%	(Lot MKCF6111)	2,017.1 µg/mL	+/- 11.7278 +/- 24.1129 +/- 38.3754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	2,4-Dinitrotoluene CAS # 121-14-2 Purity 99%	(Lot MKAA0690V)	1,008.9 µg/mL	+/- 5.8660 +/- 12.0609 +/- 19.1947	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol CAS # 58-90-2 Purity 99%	(Lot PR-30126)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene CAS # 86-73-7 Purity 99%	(Lot 094650L18G)	1,005.3 µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	(Lot SHBM4146)	1,004.7 µg/mL	+/- 5.8414 +/- 12.0102 +/- 19.1141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diethylphthalate CAS # 84-66-2 Purity 99%	(Lot BCCD3396)	1,003.7 µg/mL	+/- 5.8358 +/- 11.9987 +/- 19.0957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	4-Chlorophenyl phenyl ether CAS # 7005-72-3 Purity 99%	(Lot MKCN1186)	1,004.9 µg/mL	+/- 5.8428 +/- 12.0130 +/- 19.1186	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Nitroaniline CAS # 100-01-6 Purity 99%	(Lot RP210713)	1,009.2 µg/mL	+/- 5.8676 +/- 12.0640 +/- 19.1997	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1 Purity 99%	(Lot RP211130)	2,013.0 µg/mL	+/- 11.7038 +/- 24.0635 +/- 38.2967	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Diphenylamine CAS # 122-39-4 Purity 99%	(Lot MKCH1042)	853.1 µg/mL	+/- 4.9598 +/- 10.1976 +/- 16.2293	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Azobenzene CAS # 103-33-3 Purity 99%	(Lot BCCC9136)	1,004.7 µg/mL	+/- 5.8412 +/- 12.0098 +/- 19.1135	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3 Purity 99%	(Lot STBB9729V)	1,007.8 µg/mL	+/- 5.8594 +/- 12.0473 +/- 19.1731	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1 Purity 99%	(Lot 12549300)	1,007.1 µg/mL	+/- 5.8556 +/- 12.0393 +/- 19.1604	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 210706RSR)	2,008.2 µg/mL	+/- 11.6758 +/- 24.0061 +/- 38.2054	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	1,006.0 µg/mL	+/- 5.8491 +/- 12.0260 +/- 19.1392	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Phenanthrene CAS # 85-01-8 Purity 99%	(Lot MKCL7390)	1,002.7 µg/mL	+/- 5.8296 +/- 11.9859 +/- 19.0754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKCN0922)	1,008.1 µg/mL	+/- 5.8610 +/- 12.0505 +/- 19.1782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8 Purity 99%	(Lot 12549400)	1,007.7 µg/mL	+/- 5.8587 +/- 12.0457 +/- 19.1706	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2 Purity 99%	(Lot MKCL9573)	1,008.4 µg/mL	+/- 5.8629 +/- 12.0545 +/- 19.1845	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0 Purity 99%	(Lot MKCQ4728)	1,002.8 µg/mL	+/- 5.8304 +/- 11.9875 +/- 19.0780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCCB9880)	1,006.9 µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7 Purity 99%	(Lot MKCM1987)	1,006.8 µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3 Purity 96%	(Lot RP210125)	1,002.5 µg/mL	+/- 5.8286 +/- 11.9839 +/- 19.0722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Chrysene CAS # 218-01-9 Purity 99%	(Lot STBK3173)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Bis(2-ethylhexyl)phthalate CAS # 117-81-7 Purity 99%	(Lot MKCJ1159)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Di-n-octyl phthalate CAS # 117-84-0 Purity 99%	(Lot 11651800)	1,003.9 µg/mL	+/- 5.8370 +/- 12.0011 +/- 19.0995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Benzo(b)fluoranthene CAS # 205-99-2 Purity 99%	(Lot 012021)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(k)fluoranthene CAS # 207-08-9 Purity 99%	(Lot 012019K)	1,007.5 µg/mL	+/- 5.8575 +/- 12.0433 +/- 19.1668	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
77	Benzo(a)pyrene CAS # 50-32-8 Purity 99%	(Lot Z8BKF)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
78	Indeno(1,2,3-cd)pyrene CAS # 193-39-5 Purity 99%	(Lot 1-RAK-33-4)	1,006.5 µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
79	Dibenz(a,h)anthracene CAS # 53-70-3 Purity 99%	(Lot ER032211-01)	1,006.1 µg/mL	+/- 5.8494 +/- 12.0266 +/- 19.1401	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
80	Benzo(g,h,i)perylene CAS # 191-24-2 Purity 98%	(Lot AVUAD)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 µg/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 µg/mL.

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.

N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

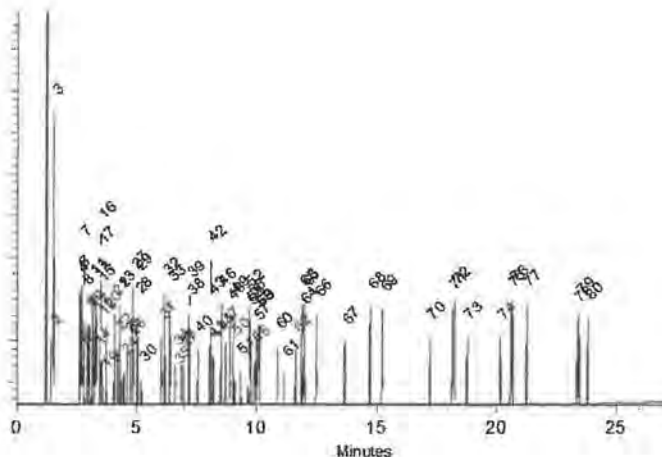
250°C

Det. Temp:

340°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 16-Déc-2021 Balance: 1128360905

John Lidgett - AD Chemist

Date Passed: 31-Jan-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

EXLIST1_S10_00020



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0173787

Description : 8270 List 1 / Std #10
8270 List 1 / Std #10 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient



5515384
ID: EXLIST1_S10_00020
Exp: 12/31/22 Prod: BMB Opr: 10/11/21
8270 List 1/Standard #10

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	Indene	2,011.6 µg/mL (Lot DMKCB7043-1211)	+/- 11.6957 µg/mL Gravimetric
	CAS # 95-13-6		+/- 112.7892 µg/mL Unstressed
	Purity 98%		+/- 115.4283 µg/mL Stressed
2	Benzoic acid	2,018.2 µg/mL (Lot MKCG6487)	+/- 11.7340 µg/mL Gravimetric
	CAS # 65-85-0		+/- 113.1585 µg/mL Unstressed
	Purity 99%		+/- 115.8062 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

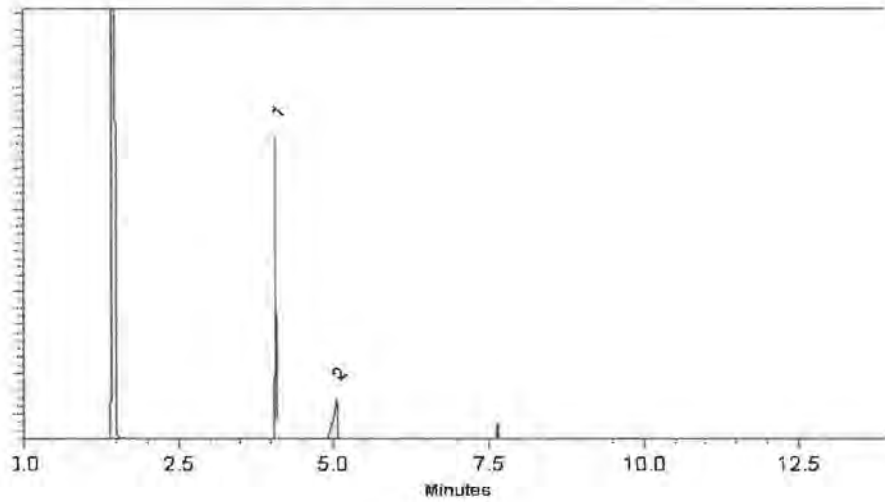
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 24-Jun-2021 Balance: 1128360905

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 28-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

exLIST1_S11_00019



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0172244

Description : 8270 List 1 / Std #11
8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient



CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Benzaldehyde	2,015.7 µg/mL	+/-	11.7193	µg/mL	Gravimetric
	CAS # 100-52-7 (Lot RD210106)		+/-	40.2434	µg/mL	Unstressed
	Purity 99%		+/-	90.3286	µg/mL	Stressed
2	epsilon-Caprolactam	2,008.5 µg/mL	+/-	11.6776	µg/mL	Gravimetric
	CAS # 105-60-2 (Lot I16X016)		+/-	40.1003	µg/mL	Unstressed
	Purity 99%		+/-	90.0074	µg/mL	Stressed
3	Atrazine	2,008.5 µg/mL	+/-	11.6776	µg/mL	Gravimetric
	CAS # 1912-24-9 (Lot P18FG)		+/-	40.1003	µg/mL	Unstressed
	Purity 99%		+/-	90.0074	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
10m x 0.25mm x 0.25µm
Itr-5 (cat.#10223)

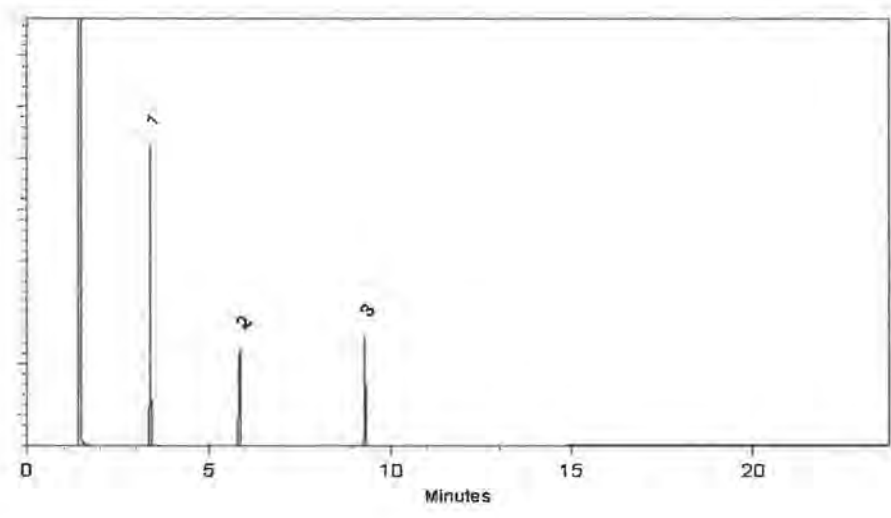
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 11-May-2021 **Balance:** 1128360905

Marline Cowan
Marline Cowan - Operations Tech I

Date Passed: 12-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

exLIST1_S9_00025

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 Bellefonte, PA 16823-8812
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 Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 **Lot No.:** A0179477

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient



5647958
 ID: ext. IST1_S9_00025
 Exp: 06/30/23 Prd: BMB Opn: 03/18/22
 8270 List 1/Std #9

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Benzidine	2,004.5 µg/mL (Lot 210907JLM)	+/-	11.6813	µg/mL	Gravimetric
	CAS # 92-87-5		+/-	23.9750	µg/mL	Unstressed
	Purity 99%		+/-	38.1433	µg/mL	Stressed
2	3,3'-Dichlorobenzidine	2,018.8 µg/mL (Lot 211116RSR)	+/-	11.7643	µg/mL	Gravimetric
	CAS # 91-94-1		+/-	24.1455	µg/mL	Unstressed
	Purity 99%		+/-	38.4144	µg/mL	Stressed

Solvent: Methylene chloride
 CAS # 75-09-2
 Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

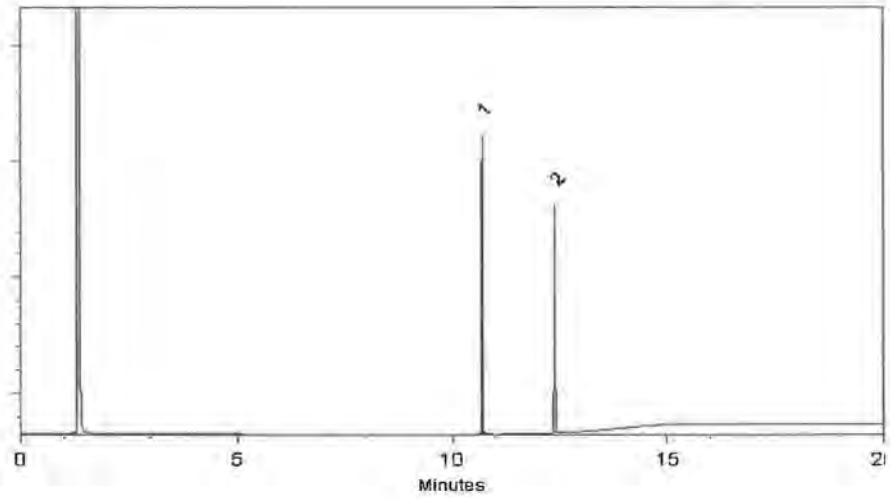
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 13-Dec-2021

Balance: 1122030677

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Dec-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

exLIST1_SURR_00009



CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0164540

Description : 8270 Surrogate Standard
8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

5412233
ID: exLIST1_SURR_00009
Exp: 09/30/25 Pkg: 2MB Opn: 08/03/21
8270 Surrogate Standard

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBJ2508)	5,038.3 µg/mL	+/- 29.2933	µg/mL	Gravimetric
			+/- 147.0355	µg/mL	Unstressed
			+/- 178.4219	µg/mL	Stressed
2	Phenol-d5 CAS # 4165-62-2 Purity 99% (Lot CD-105)	5,035.0 µg/mL	+/- 29.2739	µg/mL	Gravimetric
			+/- 146.9382	µg/mL	Unstressed
			+/- 178.3038	µg/mL	Stressed
3	Nitrobenzene-d5 CAS # 4165-60-0 Purity 99% (Lot PR-29940B)	5,045.0 µg/mL	+/- 29.3321	µg/mL	Gravimetric
			+/- 147.2300	µg/mL	Unstressed
			+/- 178.6579	µg/mL	Stressed
4	2-Fluorobiphenyl CAS # 321-60-8 Purity 99% (Lot 00017945)	5,043.3 µg/mL	+/- 29.3224	µg/mL	Gravimetric
			+/- 147.1814	µg/mL	Unstressed
			+/- 178.5989	µg/mL	Stressed
5	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	5,036.7 µg/mL	+/- 29.2836	µg/mL	Gravimetric
			+/- 146.9868	µg/mL	Unstressed
			+/- 178.3628	µg/mL	Stressed
6	p-Terphenyl-d14 CAS # 1718-51-0 Purity 99% (Lot PR-27278)	5,048.3 µg/mL	+/- 29.3514	µg/mL	Gravimetric
			+/- 147.3273	µg/mL	Unstressed
			+/- 178.7760	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

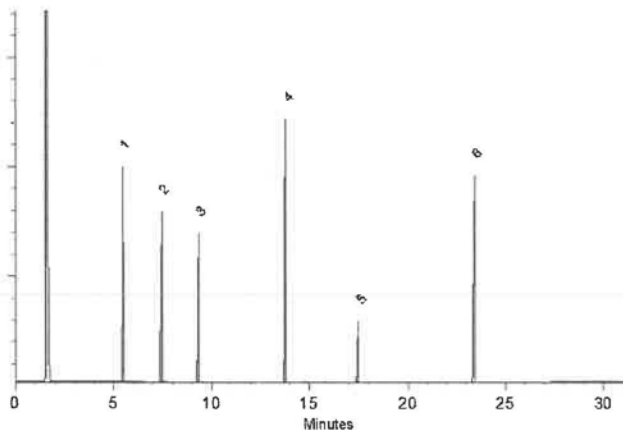
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cory Meyer
Cory Meyer - Operations Tech I

Date Mixed: 18-Sep-2020

Balance: B345965662

Justine Albertson
Justine Albertson - Operations Tech-ARM QC

Date Passed: 22-Sep-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

exPESTSURRstd_00032



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0179404

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient



5647892
ID: exPESTSURRstd_00032
Exp: 03/31/28 Pp4.0MB Ogn: 03/18/22
Pesticide Surrogate Mix

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/-	1.1840	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.3622	µg/mL	Unstressed
	Purity 98%		+/-	8.3106	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	200.8 µg/mL	+/-	1.1845	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/-	6.3653	µg/mL	Unstressed
	Purity 99%		+/-	8.3146	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

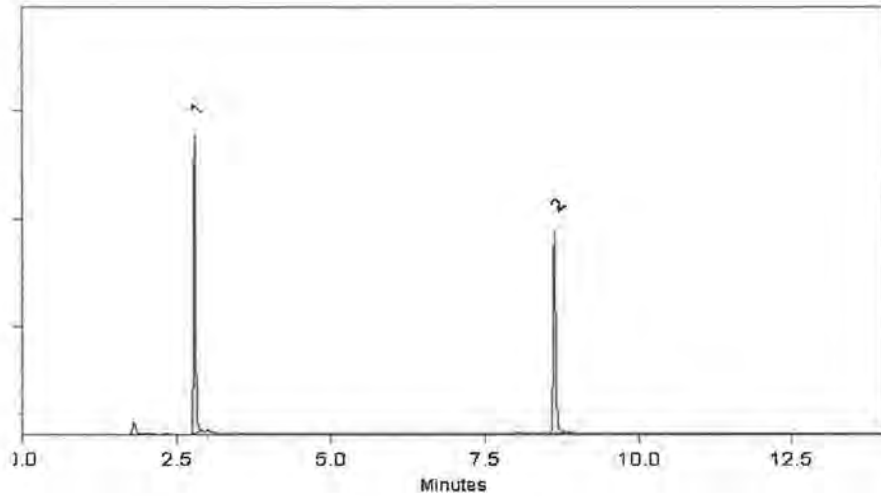
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi
Matt Fragassi - Mix Technician

Date Mixed: 09-Dec-2021 **Balance:** 1127510105

Clara Windle
Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

ISTD_00007



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32279 Lot No.: A0160736

Description : 1-Bromo-2-nitrobenzene Standard
1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2023 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	1-Bromo-2-nitrobenzene CAS # 577-19-5 Purity 99% (Lot 643872/1)	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric +/- 56.4187 µg/mL Unstressed +/- 57.7382 µg/mL Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Reagent

SG 1221 ICV_00017



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007.SEC Lot No.: A0128546

Description : Aroclor® 1221 Standard
Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2023 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221 CAS # 11104-28-2.SEC (Lot W-126-07) Purity ----%	1,000.0 µg/mL	+/- 10.0737	µg/mL	Gravimetric
			+/- 32.7345	µg/mL	Unstressed
			+/- 42.2047	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

*Reviewed 12/20/19
LW*



4568146
ID: SG 1221 ICV_00017
Exp: 09/30/23 Pripd LSH
Aroclor 1221 ICV @1000ppm

Reagent

SG 1232 ICV_00013



Certificate of Analysis

Aroclor 1232 Solution

Product Number: EPA-1302

Page: 1 of 1

Lot Number: CS-0560

Lot Issue Date: 12-Feb-2018

Expiration Date: 31-Mar-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	1004 ± 5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Received 3/23/21

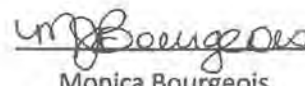

 5195577
 ID: SG 1232 ICV_00013
 Exp: 03/31/26 Prod. LSH
 Aroclor 1232 ICV @ 1000pp

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
Registered
TUV USA, Inc.


 John Russo
 President


 Monica Bourgeois
 Director of QA/RA

Reagent

SG 1248 ICV_00015



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010.SEC **Lot No.:** A0168748

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248 CAS # 12672-29-6.SEC (Lot F-110-01) Purity —%	1,000.0 µg/mL	+/- 10.0737	µg/mL	Gravimetric
			+/- 32.7345	µg/mL	Unstressed
			+/- 42.2047	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



5384159
ID: SG 1248 ICV_00015
Exp: 05/31/27 Prep: LSH
Aroclor 1248 ICV @ 1000pp

RECEIVED 7/15/21
LW

Reagent

SG 1254 ICV_00009

Certificate of Analysis

Aroclor 1254 Solution

Product Number EPA-1352

Page: 1 of 1

Lot Number: CR-1152

Lot Issue Date: 22-Mar-2017


Expiration Date: 30-Apr-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	1000 ± 5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

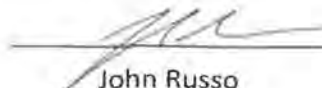

4983344
ID: SG 1254 ICV_90009
Exp: 04/30/25 Pp'd LSH
Aroclor 1254 ICV @ 1000pp

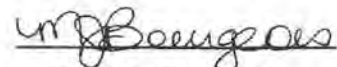
RECEIVED 10/20/20

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
Registered
TUV USA, Inc.


John Russo
President


Monica Bourgeois
Director of QA/RA

Reagent

SG 1660 ICV_00021



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039.SEC **Lot No.:** A0159083

Description : Aroclor® 1016/1260 Mix
Aroclor® 1016/1260 Mix 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)				
1	Aroclor 1016	1,002.7 µg/mL	+/-	5.9555	µg/mL	Gravimetric	
	CAS # 12674-11-2 *		(Lot NTO1016)	+/-	31.7918	µg/mL	Unstressed
	Purity ---%		+/-	41.5234	µg/mL	Stressed	
2	Aroclor 1260	1,003.3 µg/mL	+/-	5.9595	µg/mL	Gravimetric	
	CAS # 11096-82-5.SEC		(Lot NT01023)	+/-	31.8129	µg/mL	Unstressed
	Purity ---%		+/-	41.5510	µg/mL	Stressed	

Solvent: Hexane
CAS # 110-54-3
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.


5080993
ID: SG 1680 ICV_00021
Exp. 06/30/26 Pipet: LSH
Aroclor 1016/1260 sec

Received 12/15/20
ur

Reagent

SG1221/1254_00008



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569745 Lot No.: A0144354

Description : PCB-1221/1254 Standard
PCB-1221/1254 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : March 31, 2025 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1221	996.0 µg/mL	+/-	7.0625	µg/mL	Gravimetric
	CAS # 11104-28-2 (Lot 8041300)		+/-	31.8151	µg/mL	Unstressed
	Purity ----%		+/-	41.4273	µg/mL	Stressed
2	Aroclor 1254	1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 11097-69-1 (Lot 124-191-B)		+/-	31.8340	µg/mL	Unstressed
	Purity ----%		+/-	41.5787	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Received 6/6/19
cot

Reagent

SG1221ICV@.5_00010

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060734.D
 Lims ID: icv 1221
 Client ID:
 Sample Type: ICV
 Inject. Date: 08-Jun-2022 00:20:02 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0119244-034
 Operator ID: Instrument ID: A2HP2
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\PCB2 IS.m
 Limit Group: GC 8082A IS
 Last Update: 08-Jun-2022 09:41:55 Calib Date: 08-Jun-2022 00:03:25
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060733.D
 Column 1: Det: GC ECD1A
 Column 2: Det: GC ecd2b
 Process Host: CTX1629
 Start Cal Date: 07-Jun-2022 15:59:12
 End Cal Date: 08-Jun-2022 00:03:25

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
4 PCB-1221	0.5000	0.4539	-9.0	20.0	90.8	
4 PCB-1221-1	0.5000	0.4607	-7.9	20.0	92.1	
4 PCB-1221-2	0.5000	0.4554	-8.9	20.0	91.1	
4 PCB-1221-3	0.5000	0.4455	-10.9	20.0	89.1	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
4 PCB-1221	0.5000	0.4333	-13.0	20.0	86.7	
4 PCB-1221-1	0.5000	0.4251	-15.0	20.0	85.0	
4 PCB-1221-2	0.5000	0.4339	-13.2	20.0	86.8	
4 PCB-1221-3	0.5000	0.4409	-11.8	20.0	88.2	

Reagent

SG1221ICV@100_00014

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060734.D
 Lims ID: icv 1221
 Client ID:
 Sample Type: ICV
 Inject. Date: 08-Jun-2022 00:20:02 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0119244-034
 Operator ID: Instrument ID: A2HP2
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\PCB2 IS.m
 Limit Group: GC 8082A IS
 Last Update: 08-Jun-2022 09:41:55 Calib Date: 08-Jun-2022 00:03:25
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060733.D
 Column 1: Det: GC ECD1A
 Column 2: Det: GC ecd2b
 Process Host: CTX1629
 Start Cal Date: 07-Jun-2022 15:59:12
 End Cal Date: 08-Jun-2022 00:03:25

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
4 PCB-1221	0.5000	0.4539	-9.0	20.0	90.8	
4 PCB-1221-1	0.5000	0.4607	-7.9	20.0	92.1	
4 PCB-1221-2	0.5000	0.4554	-8.9	20.0	91.1	
4 PCB-1221-3	0.5000	0.4455	-10.9	20.0	89.1	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
4 PCB-1221	0.5000	0.4333	-13.0	20.0	86.7	
4 PCB-1221-1	0.5000	0.4251	-15.0	20.0	85.0	
4 PCB-1221-2	0.5000	0.4339	-13.2	20.0	86.8	
4 PCB-1221-3	0.5000	0.4409	-11.8	20.0	88.2	

Reagent

SG1242ICV@.5_00009

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060736.D
 Lims ID: icv 1242
 Client ID:
 Sample Type: ICV
 Inject. Date: 08-Jun-2022 00:53:12 ALS Bottle#: 36 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0119244-036
 Operator ID: Instrument ID: A2HP2
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\PCB2 IS.m
 Limit Group: GC 8082A IS
 Last Update: 08-Jun-2022 09:41:55 Calib Date: 08-Jun-2022 00:03:25
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060733.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1629
 Start Cal Date: 07-Jun-2022 15:59:12
 End Cal Date: 08-Jun-2022 00:03:25

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
7 PCB-1242	0.5000	0.5766	15.0	20.0	115.3	
7 PCB-1242-1	0.5000	0.5539	10.8	20.0	110.8	
7 PCB-1242-2	0.5000	0.5775	15.5	20.0	115.5	
7 PCB-1242-3	0.5000	0.5765	15.3	20.0	115.3	
7 PCB-1242-4	0.5000	0.5947	18.9	20.0	118.9	
7 PCB-1242-5	0.5000	0.5805	16.1	20.0	116.1	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
7 PCB-1242	0.5000	0.5621	12.0	20.0	112.4	
7 PCB-1242-1	0.5000	0.5424	8.5	20.0	108.5	
7 PCB-1242-2	0.5000	0.5497	9.9	20.0	109.9	
7 PCB-1242-3	0.5000	0.5679	13.6	20.0	113.6	
7 PCB-1242-4	0.5000	0.5864	17.3	20.0	117.3	
7 PCB-1242-5	0.5000	0.5640	12.8	20.0	112.8	

Reagent

SG1248@.05ppm_00034

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062311.D
 Lims ID: new 1248 .05
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 10:58:07 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-011
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Cal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.0500		0.0513		2.5	20	103
7 PCB-1248-1	0.015631	0.0		0.015225	-2.6	20	97
7 PCB-1248-2	0.041896	-0.006		0.035303	-15.7	20	84
7 PCB-1248-3	0.045145	0.001		0.050691	12.3	20	112
7 PCB-1248-4	0.034320	0.001		0.038349	11.7	20	112
7 PCB-1248-5	0.023163	0.0		0.024777	7.0	20	107

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.0500		0.0557		11.3	20	111
7 PCB-1248-1	0.018113	0.0		0.018798	3.8	20	104
7 PCB-1248-2	0.045294	-0.001		0.046605	2.9	20	103
7 PCB-1248-3	0.038893	0.0		0.051481	*32.4	20	132
7 PCB-1248-4	0.046277	0.001		0.051613	11.5	20	112
7 PCB-1248-5	0.027342	0.001		0.029013	6.1	20	106

Reagent

SG1248@0.1PPM_00038

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062312.D
 Lims ID: new 1248 0.1
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 11:14:57 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-012
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.1000		0.0974		-2.6	20	97
7 PCB-1248-1	0.015631	-0.001		0.014512	-7.2	20	93
7 PCB-1248-2	0.041896	-0.008		0.034553	-17.5	20	82
7 PCB-1248-3	0.045145	0.0		0.047107	4.3	20	104
7 PCB-1248-4	0.034320	0.0		0.036054	5.1	20	105
7 PCB-1248-5	0.023163	0.0		0.023663	2.2	20	102

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.1000		0.0998		-0.2	20	100
7 PCB-1248-1	0.018113	-0.002		0.017111	-5.5	20	94
7 PCB-1248-2	0.045294	-0.001		0.042110	-7.0	20	93
7 PCB-1248-3	0.038893	0.0		0.041724	7.3	20	107
7 PCB-1248-4	0.046277	0.001		0.052244	12.9	20	113
7 PCB-1248-5	0.027342	0.0		0.024951	-8.7	20	91

Reagent

SG1248@0.2ppm_00033

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062313.D
 Lims ID: new 1248 0.2
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 11:31:54 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-013
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.2000		0.1845		-7.8	20	92
7 PCB-1248-1	0.015631	0.0		0.014301	-8.5	20	91
7 PCB-1248-2	0.041896	-0.005		0.033475	*-20.1	20	80
7 PCB-1248-3	0.045145	0.0		0.044088	-2.3	20	98
7 PCB-1248-4	0.034320	0.0		0.033282	-3.0	20	97
7 PCB-1248-5	0.023163	0.0		0.022032	-4.9	20	95

Start Cal Date: 06-Jun-2022 15:12:44

End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.2000		0.1844		-7.8	20	92
7 PCB-1248-1	0.018113	-0.001		0.015532	-14.2	20	86
7 PCB-1248-2	0.045294	-0.001		0.039922	-11.9	20	88
7 PCB-1248-3	0.038893	0.001		0.037401	-3.8	20	96
7 PCB-1248-4	0.046277	0.001		0.048274	4.3	20	104
7 PCB-1248-5	0.027342	0.001		0.023652	-13.5	20	87

Reagent

SG1248@0.5ppm_00058

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062314.D
 Lims ID: new 1248 0.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 11:48:43 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-014
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.5000		0.4453		-10.9	20	89
7 PCB-1248-1	0.015631	-0.002		0.012762	-18.4	20	82
7 PCB-1248-2	0.041896	-0.006		0.032114	*-23.3	20	77
7 PCB-1248-3	0.045145	0.0		0.041547	-8.0	20	92
7 PCB-1248-4	0.034320	0.0		0.032581	-5.1	20	95
7 PCB-1248-5	0.023163	0.0		0.023164	0.007	20	100

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	0.5000		0.4122		-17.6	20	82
7 PCB-1248-1	0.018113	-0.001		0.013437	*-25.8	20	74
7 PCB-1248-2	0.045294	0.0		0.037378	-17.5	20	83
7 PCB-1248-3	0.038893	0.0		0.033136	-14.8	20	85
7 PCB-1248-4	0.046277	0.001		0.043151	-6.8	20	93
7 PCB-1248-5	0.027342	0.001		0.021078	*-22.9	20	77

Reagent

SG1248@1.0ppm_00044

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062315.D
 Lims ID: new 1248 1.0
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 12:05:33 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-015
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	1.00		0.8409		-15.9	20	84
7 PCB-1248-1	0.015631	-0.001		0.012228	*-21.8	20	78
7 PCB-1248-2	0.041896	-0.007		0.031056	*-25.9	20	74
7 PCB-1248-3	0.045145	-0.001		0.039580	-12.3	20	88
7 PCB-1248-4	0.034320	0.0		0.031035	-9.6	20	90
7 PCB-1248-5	0.023163	0.0		0.020849	-10	20	90

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	1.00		0.7953		*-20.5	20	80
7 PCB-1248-1	0.018113	-0.001		0.012676	*-30.0	20	70
7 PCB-1248-2	0.045294	-0.001		0.036885	-18.6	20	81
7 PCB-1248-3	0.038893	0.0		0.031733	-18.4	20	82
7 PCB-1248-4	0.046277	0.001		0.041282	-10.8	20	89
7 PCB-1248-5	0.027342	0.001		0.020628	*-24.6	20	75

Reagent

SG1248@1.5ppm_00013

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\P19062316.D
 Lims ID: new 1248 1.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Jun-2022 12:22:24 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119734-016
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub4
 Method: \\chromfs\Canton\ChromData\A2HP19\20220623-119734.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 13:07:31 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1625
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	1.50		1.24		-17.2	20	83
7 PCB-1248-1	0.015631	-0.001		0.011843	*-24.2	20	76
7 PCB-1248-2	0.041896	-0.003		0.031616	*-24.5	20	75
7 PCB-1248-3	0.045145	0.0		0.038572	-14.6	20	85
7 PCB-1248-4	0.034320	0.0		0.030418	-11.4	20	89
7 PCB-1248-5	0.023163	-0.001		0.020548	-11.3	20	89

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
7 PCB-1248	1.50		1.16		*-22.4	20	78
7 PCB-1248-1	0.018113	-0.001		0.012095	*-33.2	20	67
7 PCB-1248-2	0.045294	-0.002		0.036105	*-20.3	20	80
7 PCB-1248-3	0.038893	0.001		0.030727	*-21.0	20	79
7 PCB-1248-4	0.046277	0.001		0.040817	-11.8	20	88
7 PCB-1248-5	0.027342	0.001		0.020365	*-25.5	20	74

Reagent

SG1248_00013



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0174295

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248 CAS # 12672-29-6 Purity —%	1,000.0 µg/mL (Lot 11079400)	+/- 5.9397	µg/mL	Gravimetric
			+/- 31.7072	µg/mL	Unstressed
			+/- 41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Received 4/14/22

Reagent

SG1248ICV@.5_00010

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP10\20220531-118991.b\P10053142.D
 Lims ID: icv 1248
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Jun-2022 09:32:11 ALS Bottle#: 42 Worklist Smp#: 42
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: A2HP10
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP10\20220531-118991.b\PCB10 IS.m
 Limit Group: GC 8082A IS
 Last Update: 01-Jun-2022 09:55:23 Calib Date: 31-May-2022 18:49:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP10\20220531-118991.b\P10053133.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1611
 Start Cal Date: 31-May-2022 10:48:36
 End Cal Date: 31-May-2022 18:49:58

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
7 PCB-1248	0.5000	0.5144	3.0	20.0	102.9	
7 PCB-1248-1	0.5000	0.4409	-11.8	20.0	88.2	
7 PCB-1248-2	0.5000	0.5233	4.7	20.0	104.7	
7 PCB-1248-3	0.5000	0.5476	9.5	20.0	109.5	
7 PCB-1248-4	0.5000	0.5222	4.4	20.0	104.4	
7 PCB-1248-5	0.5000	0.5382	7.6	20.0	107.6	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
7 PCB-1248	0.5000	0.5777	16.0	20.0	115.5	
7 PCB-1248-1	0.5000	0.4930	-1.4	20.0	98.6	
7 PCB-1248-2	0.5000	0.5918	18.4	20.0	118.4	
7 PCB-1248-3	0.5000	0.5854	17.1	20.0	117.1	
7 PCB-1248-4	0.5000	0.6199	* 24.0	20.0	124.0	
7 PCB-1248-5	0.5000	0.5984	19.7	20.0	119.7	

Reagent

SG1262ICV@.5_00013

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060740.D
 Lims ID: icv 1262
 Client ID:
 Sample Type: ICV
 Inject. Date: 08-Jun-2022 01:59:43 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0119244-040
 Operator ID: Instrument ID: A2HP2
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\PCB2 IS.m
 Limit Group: GC 8082A IS
 Last Update: 08-Jun-2022 09:44:31 Calib Date: 08-Jun-2022 00:03:25
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP2\20220607-119244.b\P2060733.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1629
 Start Cal Date: 07-Jun-2022 15:59:12
 End Cal Date: 08-Jun-2022 00:03:25

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
11 PCB-1262	0.5000	0.5364	7.0	20.0	107.3	
11 PCB-1262-1	0.5000	0.5271	5.4	20.0	105.4	
11 PCB-1262-2	0.5000	0.5393	7.9	20.0	107.9	
11 PCB-1262-3	0.5000	0.5381	7.6	20.0	107.6	
11 PCB-1262-4	0.5000	0.5452	9.0	20.0	109.0	
11 PCB-1262-5	0.5000	0.5323	6.5	20.0	106.5	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
11 PCB-1262	0.5000	0.5091	2.0	20.0	101.8	
11 PCB-1262-1	0.5000	0.5005	0.1	20.0	100.1	
11 PCB-1262-2	0.5000	0.5093	1.9	20.0	101.9	
11 PCB-1262-3	0.5000	0.5055	1.1	20.0	101.1	
11 PCB-1262-4	0.5000	0.5166	3.3	20.0	103.3	
11 PCB-1262-5	0.5000	0.5138	2.8	20.0	102.8	

Reagent

SG1268ICV@0.5_00016

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP10\20220815-121295.b\P10081539.D
 Lims ID: icv 1268
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Aug-2022 22:17:49 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121295-039
 Operator ID: Instrument ID: A2HP10
 Sublist:
 Method: \\chromfs\Canton\ChromData\A2HP10\20220815-121295.b\PCB10 IS.m
 Limit Group: GC 608 PCB IS
 Last Update: 16-Aug-2022 09:03:05 Calib Date: 15-Aug-2022 20:38:48
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP10\20220815-121295.b\P10081533.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1672
 Start Cal Date: 15-Aug-2022 12:38:22
 End Cal Date: 15-Aug-2022 20:38:48

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
11 PCB-1268	0.5000	0.4846	-3.0	20.0	96.9	
11 PCB-1268-1	0.5000	0.4884	-2.3	20.0	97.7	
11 PCB-1268-2	0.5000	0.4942	-1.2	20.0	98.8	
11 PCB-1268-3	0.5000	0.4818	-3.6	20.0	96.4	
11 PCB-1268-4	0.5000	0.4766	-4.7	20.0	95.3	
11 PCB-1268-5	0.5000	0.4820	-3.6	20.0	96.4	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
11 PCB-1268	0.5000	0.5002	0.0	20.0	100.0	
11 PCB-1268-1	0.5000	0.5007	0.1	20.0	100.1	
11 PCB-1268-2	0.5000	0.5049	1.0	20.0	101.0	
11 PCB-1268-3	0.5000	0.4951	-1.0	20.0	99.0	
11 PCB-1268-4	0.5000	0.5033	0.7	20.0	100.7	
11 PCB-1268-5	0.5000	0.4968	-0.6	20.0	99.4	

Reagent

SG1660@.05PPM_00047

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062415.D
 Lims ID: 1660 0.05
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 16:43:42 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-015
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:44:51 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.002500	0.0	0.002959	1.180128	18.4	20	118
6 PCB-1016	0.0500		0.0681		*36.2	20	136
6 PCB-1016-1	0.016520	0.001		0.023686	*43.4	20	143
6 PCB-1016-2	0.028606	0.0		0.040677	*42.2	20	142
6 PCB-1016-3	0.062911	0.002		0.083282	*32.4	20	132
6 PCB-1016-4	0.028636	0.001		0.037916	*32.4	20	132
6 PCB-1016-5	0.018886	0.005		0.024667	*30.6	20	131
10 PCB-1260	0.0500		0.0670		*34.0	20	134
10 PCB-1260-1	0.038510	0.004		0.052281	*35.8	20	136
10 PCB-1260-2	0.069597	0.005		0.095615	*37.4	20	137
10 PCB-1260-3	0.068497	0.006		0.090999	*32.8	20	133
10 PCB-1260-4	0.104234	0.005		0.139591	*33.9	20	134
10 PCB-1260-5	0.049116	0.005		0.064007	*30.3	20	130
\$ 12 DCB Decachlorobiphenyl	0.960180	0.003		1.285503	*33.9	20	134
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062415.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.002500	0.0	0.003205	1.037576	*28.2	20	128
6 PCB-1016	0.0500		0.0682		*36.4	20	136
6 PCB-1016-1	0.015101	0.0		0.022016	*45.8	20	146
6 PCB-1016-2	0.027498	0.001		0.038411	*39.7	20	140
6 PCB-1016-3	0.063113	0.0		0.080504	*27.6	20	128
6 PCB-1016-4	0.026631	0.001		0.035473	*33.2	20	133
6 PCB-1016-5	0.014536	0.001		0.019724	*35.7	20	136
10 PCB-1260	0.0500		0.0644		*28.8	20	129
10 PCB-1260-1	0.041658	0.002		0.054718	*31.3	20	131
10 PCB-1260-2	0.050243	0.003		0.065914	*31.2	20	131
10 PCB-1260-3	0.073228	0.002		0.093709	*28.0	20	128
10 PCB-1260-4	0.105935	0.003		0.132453	*25.0	20	125
10 PCB-1260-5	0.075131	0.002		0.096536	*28.5	20	128
\$ 12 DCB Decachlorobiphenyl	0.002500	0.001	0.003255	1.229401	*30.2	20	130
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG1660@0.2ppm_00037

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062416.D
 Lims ID: 1660 0.1
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 17:01:33 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-016
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:45:39 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.005000	0.004	0.005790	1.100918	15.8	20	116
6 PCB-1016	0.1000		0.1247		*24.7	20	125
6 PCB-1016-1	0.016520	0.004		0.020900	*26.5	20	127
6 PCB-1016-2	0.028606	0.004		0.036829	*28.7	20	129
6 PCB-1016-3	0.062911	0.005		0.076704	*21.9	20	122
6 PCB-1016-4	0.028636	0.005		0.035090	*22.5	20	123
6 PCB-1016-5	0.018886	0.005		0.023372	*23.8	20	124
10 PCB-1260	0.1000		0.1244		*24.4	20	124
10 PCB-1260-1	0.038510	0.005		0.047039	*22.1	20	122
10 PCB-1260-2	0.069597	0.004		0.088271	*26.8	20	127
10 PCB-1260-3	0.068497	0.006		0.084739	*23.7	20	124
10 PCB-1260-4	0.104234	0.007		0.132411	*27.0	20	127
10 PCB-1260-5	0.049116	0.005		0.060124	*22.4	20	122
\$ 12 DCB Decachlorobiphenyl	0.960180	0.003		1.178774	*22.8	20	123
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062416.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.005000	0.002	0.005676	0.978370	13.5	20	114
6 PCB-1016	0.1000		0.1247		*24.7	20	125
6 PCB-1016-1	0.015101	0.002		0.019091	*26.4	20	126
6 PCB-1016-2	0.027498	0.002		0.035130	*27.8	20	128
6 PCB-1016-3	0.063113	0.002		0.075534	19.7	20	120
6 PCB-1016-4	0.026631	0.003		0.032899	*23.5	20	124
6 PCB-1016-5	0.014536	0.003		0.018297	*25.9	20	126
10 PCB-1260	0.1000		0.1202		*20.2	20	120
10 PCB-1260-1	0.041658	0.003		0.050392	*21.0	20	121
10 PCB-1260-2	0.050243	0.003		0.060923	*21.3	20	121
10 PCB-1260-3	0.073228	0.004		0.087103	18.9	20	119
10 PCB-1260-4	0.105935	0.004		0.125919	18.9	20	119
10 PCB-1260-5	0.075131	0.003		0.091017	*21.1	20	121
\$ 12 DCB Decachlorobiphenyl	0.005000	0.001	0.005947	1.149880	18.9	20	119
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG1660@0.5PPM_00116

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062418.D
 Lims ID: 1660 0.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 17:37:30 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-018
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:50:26 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0250	0.002	0.0284	1.035459	13.5	20	114
6 PCB-1016	0.5000		0.5515		10.3	20	110
6 PCB-1016-1	0.016520	0.003		0.017733	7.3	20	107
6 PCB-1016-2	0.028606	0.001		0.031573	10.4	20	110
6 PCB-1016-3	0.062911	0.004		0.070424	11.9	20	112
6 PCB-1016-4	0.028636	0.002		0.031595	10.3	20	110
6 PCB-1016-5	0.018886	0.003		0.021055	11.5	20	111
10 PCB-1260	0.5000		0.5569		11.4	20	111
10 PCB-1260-1	0.038510	0.003		0.042592	10.6	20	111
10 PCB-1260-2	0.069597	0.002		0.078383	12.6	20	113
10 PCB-1260-3	0.068497	0.002		0.076028	11.0	20	111
10 PCB-1260-4	0.104234	0.002		0.115490	10.8	20	111
10 PCB-1260-5	0.049116	0.002		0.054963	11.9	20	112
\$ 12 DCB Decachlorobiphenyl	0.960180	0.002		1.055051	9.9	20	110
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\IP11062418.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0250	0.001	0.0272	0.996706	8.8	20	109
6 PCB-1016	0.5000		0.5623		12.5	20	112
6 PCB-1016-1	0.015101	0.001		0.016608	10	20	110
6 PCB-1016-2	0.027498	0.001		0.030856	12.2	20	112
6 PCB-1016-3	0.063113	0.001		0.072368	14.7	20	115
6 PCB-1016-4	0.026631	0.002		0.030067	12.9	20	113
6 PCB-1016-5	0.014536	0.001		0.016366	12.6	20	113
10 PCB-1260	0.5000		0.5777		15.5	20	116
10 PCB-1260-1	0.041658	0.001		0.047924	15.0	20	115
10 PCB-1260-2	0.050243	0.002		0.058029	15.5	20	115
10 PCB-1260-3	0.073228	0.002		0.084097	14.8	20	115
10 PCB-1260-4	0.105935	0.002		0.123034	16.1	20	116
10 PCB-1260-5	0.075131	0.002		0.087286	16.2	20	116
\$ 12 DCB Decachlorobiphenyl	0.0250	0.001	0.0278	1.097645	11.1	20	111
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG1660@1.0PPM_00050

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062419.D
 Lims ID: 1660 1.0
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 17:55:10 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-019
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:50:57 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0500	0.003	0.0540	0.979630	7.9	20	108
6 PCB-1016	1.00		1.06		5.6	20	106
6 PCB-1016-1	0.016520	0.003		0.017028	3.1	20	103
6 PCB-1016-2	0.028606	0.003		0.029846	4.3	20	104
6 PCB-1016-3	0.062911	0.005		0.067746	7.7	20	108
6 PCB-1016-4	0.028636	0.003		0.030267	5.7	20	106
6 PCB-1016-5	0.018886	0.004		0.020232	7.1	20	107
10 PCB-1260	1.00		1.08		8.3	20	108
10 PCB-1260-1	0.038510	0.002		0.041124	6.8	20	107
10 PCB-1260-2	0.069597	0.0		0.076166	9.4	20	109
10 PCB-1260-3	0.068497	0.001		0.073853	7.8	20	108
10 PCB-1260-4	0.104234	0.002		0.113699	9.1	20	109
10 PCB-1260-5	0.049116	0.001		0.053152	8.2	20	108
\$ 12 DCB Decachlorobiphenyl	0.960180	0.002		1.007568	4.9	20	105
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062419.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0500	0.002	0.0542	0.999830	8.4	20	108
6 PCB-1016	1.00		1.09		9.2	20	109
6 PCB-1016-1	0.015101	0.002		0.015793	4.6	20	105
6 PCB-1016-2	0.027498	0.002		0.029525	7.4	20	107
6 PCB-1016-3	0.063113	0.002		0.071409	13.1	20	113
6 PCB-1016-4	0.026631	0.002		0.029684	11.5	20	111
6 PCB-1016-5	0.014536	0.002		0.015903	9.4	20	109
10 PCB-1260	1.00		1.15		15.4	20	115
10 PCB-1260-1	0.041658	0.001		0.047280	13.5	20	113
10 PCB-1260-2	0.050243	0.002		0.057302	14.0	20	114
10 PCB-1260-3	0.073228	0.002		0.083810	14.5	20	114
10 PCB-1260-4	0.105935	0.002		0.124066	17.1	20	117
10 PCB-1260-5	0.075131	0.001		0.088733	18.1	20	118
\$ 12 DCB Decachlorobiphenyl	0.0500	0.001	0.0552	1.093443	10.3	20	110
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG1660@1.5PPM_00018

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\11062420.D
 Lims ID: 1660 1.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 18:12:47 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-020
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:51:46 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Cal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\11061633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0800	0.0	0.0869	0.983692	8.6	20	109
6 PCB-1016	1.50		1.55		3.6	20	104
6 PCB-1016-1	0.016520	0.0		0.017172	3.9	20	104
6 PCB-1016-2	0.028606	-0.001		0.028969	1.3	20	101
6 PCB-1016-3	0.062911	0.0		0.066400	5.5	20	106
6 PCB-1016-4	0.028636	-0.001		0.029631	3.5	20	103
6 PCB-1016-5	0.018886	0.0		0.019569	3.6	20	104
10 PCB-1260	1.50		1.61		7.3	20	107
10 PCB-1260-1	0.038510	-0.001		0.040060	4.0	20	104
10 PCB-1260-2	0.069597	-0.002		0.074842	7.5	20	108
10 PCB-1260-3	0.068497	-0.001		0.073017	6.6	20	107
10 PCB-1260-4	0.104234	-0.001		0.113945	9.3	20	109
10 PCB-1260-5	0.049116	-0.002		0.053662	9.3	20	109
\$ 12 DCB Decachlorobiphenyl	0.960180	0.001		1.021847	6.4	20	106
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20

End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\11062420.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.0800	-0.001	0.0884	1.022253	10.5	20	110
6 PCB-1016	1.50		1.63		8.6	20	109
6 PCB-1016-1	0.015101	0.0		0.015959	5.7	20	106
6 PCB-1016-2	0.027498	0.001		0.029087	5.8	20	106
6 PCB-1016-3	0.063113	0.0		0.070473	11.7	20	112
6 PCB-1016-4	0.026631	0.0		0.029145	9.4	20	109
6 PCB-1016-5	0.014536	0.0		0.016074	10.6	20	111
10 PCB-1260	1.50		1.75		16.7	20	117
10 PCB-1260-1	0.041658	0.0		0.047568	14.2	20	114
10 PCB-1260-2	0.050243	-0.001		0.057508	14.5	20	114
10 PCB-1260-3	0.073228	0.001		0.084480	15.4	20	115
10 PCB-1260-4	0.105935	0.001		0.126835	19.7	20	120
10 PCB-1260-5	0.075131	0.0		0.090114	19.9	20	120
\$ 12 DCB Decachlorobiphenyl	0.0800	0.0	0.0909	1.127610	13.6	20	114
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG1660ICV@.5_00018

Preliminary Report

Eurofins Canton
ICV, ICal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP12\20220711-120226.b\I12071143.D
 Lims ID: icv 1660
 Client ID:
 Sample Type: ICV
 Inject. Date: 12-Jul-2022 11:55:17 ALS Bottle#: 43 Worklist Smp#: 43
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: A2HP12
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP12\20220711-120226.b\PCB12IS.m
 Limit Group: GC 8082 IS
 Last Update: 12-Jul-2022 12:35:48 Calib Date: 11-Jul-2022 23:46:35
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP12\20220711-120226.b\I12071133.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1635
 Start Cal Date: 11-Jul-2022 16:06:13
 End Cal Date: 11-Jul-2022 23:46:35

Detector 1: GC ECD1A

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
6 PCB-1016	0.5000	0.4969	-1.0	20.0	99.4	
6 PCB-1016-1	0.5000	0.5125	2.5	20.0	102.5	
6 PCB-1016-2	0.5000	0.5208	4.2	20.0	104.2	
6 PCB-1016-3	0.5000	0.3900	*-22.0	20.0	78.0	
6 PCB-1016-4	0.5000	0.5125	2.5	20.0	102.5	
6 PCB-1016-5	0.5000	0.5488	9.8	20.0	109.8	
10 PCB-1260	0.5000	0.4620	-8.0	20.0	92.4	
10 PCB-1260-1	0.5000	0.4819	-3.6	20.0	96.4	
10 PCB-1260-2	0.5000	0.4505	-9.9	20.0	90.1	
10 PCB-1260-3	0.5000	0.4355	-12.9	20.0	87.1	
10 PCB-1260-4	0.5000	0.4498	-10.0	20.0	90.0	
10 PCB-1260-5	0.5000	0.4923	-1.5	20.0	98.5	

Detector 2: GC ecd2b

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP12\20220711-120226.b\P12071143.D

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
6 PCB-1016	0.5000	0.5199	4.0	20.0	104.0	
6 PCB-1016-1	0.5000	0.5574	11.5	20.0	111.5	
6 PCB-1016-2	0.5000	0.5218	4.4	20.0	104.4	
6 PCB-1016-3	0.5000	0.5045	0.9	20.0	100.9	
6 PCB-1016-4	0.5000	0.5107	2.1	20.0	102.1	
6 PCB-1016-5	0.5000	0.5050	1.0	20.0	101.0	
10 PCB-1260	0.5000	0.4853	-3.0	20.0	97.1	
10 PCB-1260-1	0.5000	0.4739	-5.2	20.0	94.8	
10 PCB-1260-2	0.5000	0.4784	-4.3	20.0	95.7	
10 PCB-1260-3	0.5000	0.4688	-6.2	20.0	93.8	
10 PCB-1260-4	0.5000	0.5061	1.2	20.0	101.2	
10 PCB-1260-5	0.5000	0.4992	-0.2	20.0	99.8	

Reagent

SG1660STD@0.1_00034

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062416.D
 Lims ID: 1660 0.1
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 17:01:33 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-016
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub1
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:45:39 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.005000	0.004	0.005790	1.100918	15.8	20	116
6 PCB-1016	0.1000		0.1247		*24.7	20	125
6 PCB-1016-1	0.016520	0.004		0.020900	*26.5	20	127
6 PCB-1016-2	0.028606	0.004		0.036829	*28.7	20	129
6 PCB-1016-3	0.062911	0.005		0.076704	*21.9	20	122
6 PCB-1016-4	0.028636	0.005		0.035090	*22.5	20	123
6 PCB-1016-5	0.018886	0.005		0.023372	*23.8	20	124
10 PCB-1260	0.1000		0.1244		*24.4	20	124
10 PCB-1260-1	0.038510	0.005		0.047039	*22.1	20	122
10 PCB-1260-2	0.069597	0.004		0.088271	*26.8	20	127
10 PCB-1260-3	0.068497	0.006		0.084739	*23.7	20	124
10 PCB-1260-4	0.104234	0.007		0.132411	*27.0	20	127
10 PCB-1260-5	0.049116	0.005		0.060124	*22.4	20	122
\$ 12 DCB Decachlorobiphenyl	0.960180	0.003		1.178774	*22.8	20	123
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
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Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\11062416.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
\$ 2 Tetrachloro-m-xylene	0.005000	0.002	0.005676	0.978370	13.5	20	114
6 PCB-1016	0.1000		0.1247		*24.7	20	125
6 PCB-1016-1	0.015101	0.002		0.019091	*26.4	20	126
6 PCB-1016-2	0.027498	0.002		0.035130	*27.8	20	128
6 PCB-1016-3	0.063113	0.002		0.075534	19.7	20	120
6 PCB-1016-4	0.026631	0.003		0.032899	*23.5	20	124
6 PCB-1016-5	0.014536	0.003		0.018297	*25.9	20	126
10 PCB-1260	0.1000		0.1202		*20.2	20	120
10 PCB-1260-1	0.041658	0.003		0.050392	*21.0	20	121
10 PCB-1260-2	0.050243	0.003		0.060923	*21.3	20	121
10 PCB-1260-3	0.073228	0.004		0.087103	18.9	20	119
10 PCB-1260-4	0.105935	0.004		0.125919	18.9	20	119
10 PCB-1260-5	0.075131	0.003		0.091017	*21.1	20	121
\$ 12 DCB Decachlorobiphenyl	0.005000	0.001	0.005947	1.149880	18.9	20	119
16 1260 Res 1	*ND						
13 1260 Res 2	*ND						
15 1260 Res 3	*ND						

(I) Fails an Initial Calibration Test

Reagent

SG2154@0.05PP_00029

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062409.D
 Lims ID: 2154 0.05
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 14:57:11 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-009
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub6
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082 IS
 Last Update: 27-Jun-2022 09:33:36 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.0500		0.0678		*35.5	15	136
3 PCB-1221-1	0.011020	0.008		0.013974	*26.8	15	127
3 PCB-1221-2	0.006971	0.008		0.008914	*27.9	15	128
3 PCB-1221-3	0.026684	0.008		0.040521	*51.9	15	152
8 PCB-1254	0.0500		0.0595		*19.0	15	119
8 PCB-1254-1	0.030055	0.007		0.035079	*16.7	15	117
8 PCB-1254-2	0.042453	0.005		0.050145	*18.1	15	118
8 PCB-1254-3	0.060658	0.006		0.070975	*17.0	15	117
8 PCB-1254-4	0.049860	0.009		0.061562	*23.5	15	123
8 PCB-1254-5	0.063866	0.008		0.076297	*19.5	15	119

Start Cal Date: 16-Jun-2022 17:19:20

End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.0500		0.0641		*28.3	15	128
3 PCB-1221-1	0.010368	0.0		0.013052	*25.9	15	126
3 PCB-1221-2	0.006959	0.0		0.009241	*32.8	15	133
3 PCB-1221-3	0.025296	0.001		0.031919	*26.2	15	126

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062409.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
8 PCB-1254	0.0500		0.0559		11.8	15	112
8 PCB-1254-1	0.036580	0.003		0.040038	9.5	15	109
8 PCB-1254-2	0.042495	0.003		0.046757	10.0	15	110
8 PCB-1254-3	0.068291	0.003		0.076282	11.7	15	112
8 PCB-1254-4	0.048983	0.004		0.056269	14.9	15	115
8 PCB-1254-5	0.067526	0.003		0.076331	13.0	15	113

Reagent

SG2154@0.2PPM_00031

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062411.D
 Lims ID: 2154 0.2
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 15:32:46 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-011
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub6
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:35:14 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.2000		0.2091		4.6	20	105
3 PCB-1221-1	0.011020	0.003		0.011487	4.2	20	104
3 PCB-1221-2	0.006971	0.003		0.007277	4.4	20	104
3 PCB-1221-3	0.026684	0.003		0.028025	5.0	20	105
8 PCB-1254	0.2000		0.2109		5.4	20	105
8 PCB-1254-1	0.030055	0.004		0.031084	3.4	20	103
8 PCB-1254-2	0.042453	0.002		0.044195	4.1	20	104
8 PCB-1254-3	0.060658	0.003		0.063624	4.9	20	105
8 PCB-1254-4	0.049860	0.004		0.055135	10.6	20	111
8 PCB-1254-5	0.063866	0.004		0.066550	4.2	20	104

Start Cal Date: 16-Jun-2022 17:19:20

End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.2000		0.2102		5.1	20	105
3 PCB-1221-1	0.010368	0.0		0.011061	6.7	20	107
3 PCB-1221-2	0.006959	0.001		0.007296	4.8	20	105
3 PCB-1221-3	0.025296	0.001		0.026244	3.7	20	104

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062411.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
8 PCB-1254	0.2000		0.2012		0.6	20	101
8 PCB-1254-1	0.036580	0.001		0.037076	1.4	20	101
8 PCB-1254-2	0.042495	0.002		0.042958	1.1	20	101
8 PCB-1254-3	0.068291	0.002		0.068993	1.0	20	101
8 PCB-1254-4	0.048983	0.002		0.048781	-0.4	20	100
8 PCB-1254-5	0.067526	0.002		0.067462	-0.09	20	100

Reagent

SG2154@0.5PPM_00066

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\11062412.D
 Lims ID: 2154 0.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 15:50:32 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-012
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub6
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:36:07 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.5000		0.4974		-0.5	20	99
3 PCB-1221-1	0.011020	0.0		0.010983	-0.3	20	100
3 PCB-1221-2	0.006971	0.0		0.006958	-0.2	20	100
3 PCB-1221-3	0.026684	0.0		0.026405	-1.0	20	99
8 PCB-1254	0.5000		0.5122		2.4	20	102
8 PCB-1254-1	0.030055	0.0		0.030027	-0.09	20	100
8 PCB-1254-2	0.042453	-0.001		0.042658	0.5	20	100
8 PCB-1254-3	0.060658	-0.001		0.061878	2.0	20	102
8 PCB-1254-4	0.049860	0.001		0.053685	7.7	20	108
8 PCB-1254-5	0.063866	0.001		0.065252	2.2	20	102

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	0.5000		0.4959		-0.8	20	99
3 PCB-1221-1	0.010368	-0.002		0.010443	0.7	20	101
3 PCB-1221-2	0.006959	-0.001		0.006817	-2.0	20	98
3 PCB-1221-3	0.025296	-0.002		0.025004	-1.2	20	99

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062412.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
8 PCB-1254	0.5000		0.5028		0.6	20	101
8 PCB-1254-1	0.036580	-0.001		0.036352	-0.6	20	99
8 PCB-1254-2	0.042495	-0.001		0.042537	0.1	20	100
8 PCB-1254-3	0.068291	-0.001		0.069453	1.7	20	102
8 PCB-1254-4	0.048983	-0.001		0.049694	1.5	20	101
8 PCB-1254-5	0.067526	-0.001		0.067666	0.2	20	100

Reagent

SG2154@1.0PPM_00047

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062413.D
 Lims ID: 2154 1.0
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 16:08:14 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-013
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub6
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:36:47 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	1.00		0.9118		-8.8	20	91
3 PCB-1221-1	0.011020	0.001		0.010136	-8.0	20	92
3 PCB-1221-2	0.006971	0.002		0.006348	-8.9	20	91
3 PCB-1221-3	0.026684	0.002		0.024148	-9.5	20	90
8 PCB-1254	1.00		0.9337		-6.6	20	93
8 PCB-1254-1	0.030055	0.001		0.027860	-7.3	20	93
8 PCB-1254-2	0.042453	0.0		0.039711	-6.5	20	94
8 PCB-1254-3	0.060658	-0.001		0.058026	-4.3	20	96
8 PCB-1254-4	0.049860	-0.001		0.044521	-10.7	20	89
8 PCB-1254-5	0.063866	0.0		0.061087	-4.4	20	96

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	1.00		0.9171		-8.3	20	92
3 PCB-1221-1	0.010368	-0.001		0.009774	-5.7	20	94
3 PCB-1221-2	0.006959	0.0		0.006224	-10.6	20	89
3 PCB-1221-3	0.025296	0.0		0.023125	-8.6	20	91

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\11062413.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
8 PCB-1254	1.00		0.9761		-2.4	20	98
8 PCB-1254-1	0.036580	0.0		0.034741	-5.0	20	95
8 PCB-1254-2	0.042495	0.0		0.041025	-3.5	20	97
8 PCB-1254-3	0.068291	0.0		0.067517	-1.1	20	99
8 PCB-1254-4	0.048983	0.0		0.048618	-0.7	20	99
8 PCB-1254-5	0.067526	-0.001		0.066457	-1.6	20	98

Reagent

SG2154@1.5PPM_00013

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062414.D
 Lims ID: 2154 1.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Jun-2022 16:25:57 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119766-014
 Operator ID: Instrument ID: A2HP11
 Sublist: chrom-PCB11 IS*sub6
 Method: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\PCB11 IS.m
 Limit Group: GC 8082A IS
 Last Update: 27-Jun-2022 09:37:22 Calib Date: 17-Jun-2022 01:15:17
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP11\20220616-119550.b\P11061633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1682
 Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	1.50		1.33		-11.4	20	89
3 PCB-1221-1	0.011020	0.002		0.009884	-10.3	20	90
3 PCB-1221-2	0.006971	0.002		0.006144	-11.9	20	88
3 PCB-1221-3	0.026684	0.002		0.023469	-12.0	20	88
8 PCB-1254	1.50		1.38		-8.2	20	92
8 PCB-1254-1	0.030055	0.0		0.027251	-9.3	20	91
8 PCB-1254-2	0.042453	-0.001		0.038994	-8.1	20	92
8 PCB-1254-3	0.060658	-0.002		0.056977	-6.1	20	94
8 PCB-1254-4	0.049860	-0.001		0.044022	-11.7	20	88
8 PCB-1254-5	0.063866	-0.001		0.060287	-5.6	20	94

Start Cal Date: 16-Jun-2022 17:19:20
 End Cal Date: 17-Jun-2022 01:15:17

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
3 PCB-1221	1.50		1.12		*-25.6	20	74
3 PCB-1221-1	0.010368	0.0		0.004825	*-53.5	20	47
3 PCB-1221-2	0.006959	0.0		0.006063	-12.9	20	87
3 PCB-1221-3	0.025296	0.0		0.022640	-10.5	20	90

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP11\20220624-119766.b\P11062414.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
8 PCB-1254	1.50		1.46		-2.4	20	98
8 PCB-1254-1	0.036580	0.0		0.034715	-5.1	20	95
8 PCB-1254-2	0.042495	-0.001		0.040973	-3.6	20	96
8 PCB-1254-3	0.068291	0.0		0.067198	-1.6	20	98
8 PCB-1254-4	0.048983	0.0		0.048958	-0.05	20	100
8 PCB-1254-5	0.067526	0.0		0.066352	-1.7	20	98

Reagent

SG32/62 STK_00008



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569746 **Lot No.:** A0147561

Description : PCB-1232/1262 Standard
PCB-1232/1262 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1232	1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot 15665-01)		+/-	31.7706	µg/mL	Unstressed
	Purity ---%		+/-	41.4958	µg/mL	Stressed
2	Aroclor 1262	1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 37324-23-5 (Lot 5428400)		+/-	31.7706	µg/mL	Unstressed
	Purity ---%		+/-	41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%


5170911
ID: SG32/62 STK_00008
Exp: 06/30/25 Prod: LSH
Aroclors 1232/1262 @1000

Reagent

SG3262@.05PPM_00028

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062113.D
 Lims ID: new 1232/1262 .05
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 13:13:44 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-013
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:20:09 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.0500		0.0523		4.6	20	105
4 PCB-1232-1	0.022725	0.002		0.024756	8.9	20	109
4 PCB-1232-2	0.016863	0.004		0.017874	6.0	20	106
4 PCB-1232-3	0.035742	-0.005		0.033822	-5.4	20	95
4 PCB-1232-4	0.016733	0.0		0.017713	5.9	20	106
4 PCB-1232-5	0.010137	0.002		0.010887	7.4	20	107
9 PCB-1262	0.0500		0.0544		8.7	20	109
9 PCB-1262-1	0.041689	0.0		0.044873	7.6	20	108
9 PCB-1262-2	0.079465	0.0		0.092675	16.6	20	117
9 PCB-1262-3	0.077348	-0.001		0.083497	8.0	20	108
9 PCB-1262-4	0.161704	-0.001		0.168100	4.0	20	104
9 PCB-1262-5	0.065823	-0.001		0.070690	7.4	20	107

Start Cal Date: 06-Jun-2022 15:12:44

End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.0500		0.0550		10	20	110
4 PCB-1232-1	0.024539	0.002		0.026218	6.8	20	107
4 PCB-1232-2	0.020431	0.0		0.022031	7.8	20	108
4 PCB-1232-3	0.038800	0.0		0.045217	16.5	20	117
4 PCB-1232-4	0.017936	0.0		0.017957	0.1	20	100
4 PCB-1232-5	0.009026	0.002		0.010693	18.5	20	118

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\19062113.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	0.0500		0.0516		3.1	20	103
9 PCB-1262-1	0.051720	0.0		0.051650	-0.1	20	100
9 PCB-1262-2	0.054747	0.0		0.059211	8.2	20	108
9 PCB-1262-3	0.083764	0.0		0.087033	3.9	20	104
9 PCB-1262-4	0.161862	0.0		0.166084	2.6	20	103
9 PCB-1262-5	0.121103	-0.001		0.122562	1.2	20	101

Reagent

SG3262@.2PPM_00026

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062115.D
 Lims ID: new 1232/1262 0.2
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 13:47:23 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-015
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:21:18 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.2000		0.1854		-7.3	20	93
4 PCB-1232-1	0.022725	0.003		0.022265	-2.0	20	98
4 PCB-1232-2	0.016863	0.002		0.016612	-1.5	20	99
4 PCB-1232-3	0.035742	-0.006		0.030551	-14.5	20	85
4 PCB-1232-4	0.016733	0.001		0.014768	-11.7	20	88
4 PCB-1232-5	0.010137	0.002		0.009462	-6.7	20	93
9 PCB-1262	0.2000		0.1870		-6.5	20	93
9 PCB-1262-1	0.041689	0.0		0.037971	-8.9	20	91
9 PCB-1262-2	0.079465	0.0		0.076676	-3.5	20	96
9 PCB-1262-3	0.077348	0.001		0.072928	-5.7	20	94
9 PCB-1262-4	0.161704	0.0		0.151543	-6.3	20	94
9 PCB-1262-5	0.065823	0.0		0.060443	-8.2	20	92

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.2000		0.1900		-5.0	20	95
4 PCB-1232-1	0.024539	0.002		0.023274	-5.2	20	95
4 PCB-1232-2	0.020431	0.001		0.019920	-2.5	20	97
4 PCB-1232-3	0.038800	-0.001		0.036506	-5.9	20	94
4 PCB-1232-4	0.017936	0.0		0.016301	-9.1	20	91
4 PCB-1232-5	0.009026	0.0		0.008809	-2.4	20	98

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062115.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	0.2000		0.1781		-10.9	20	89
9 PCB-1262-1	0.051720	0.0		0.043840	-15.2	20	85
9 PCB-1262-2	0.054747	0.001		0.049425	-9.7	20	90
9 PCB-1262-3	0.083764	0.001		0.075142	-10.3	20	90
9 PCB-1262-4	0.161862	0.0		0.146912	-9.2	20	91
9 PCB-1262-5	0.121103	0.0		0.108693	-10.2	20	90

Reagent

SG3262@0.1PPM_00025

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062114.D
 Lims ID: new 1232/1262 0.1
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 13:30:33 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-014
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:20:51 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.1000		0.0994		-0.6	20	99
4 PCB-1232-1	0.022725	0.002		0.024040	5.8	20	106
4 PCB-1232-2	0.016863	0.001		0.017427	3.3	20	103
4 PCB-1232-3	0.035742	-0.007		0.032573	-8.9	20	91
4 PCB-1232-4	0.016733	0.0		0.015956	-4.6	20	95
4 PCB-1232-5	0.010137	0.001		0.010297	1.6	20	102
9 PCB-1262	0.1000		0.1043		4.3	20	104
9 PCB-1262-1	0.041689	0.001		0.042148	1.1	20	101
9 PCB-1262-2	0.079465	0.0		0.086981	9.5	20	109
9 PCB-1262-3	0.077348	0.001		0.079963	3.4	20	103
9 PCB-1262-4	0.161704	0.001		0.165931	2.6	20	103
9 PCB-1262-5	0.065823	0.0		0.068948	4.7	20	105

Start Cal Date: 06-Jun-2022 15:12:44

End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.1000		0.1044		4.4	20	104
4 PCB-1232-1	0.024539	0.002		0.025619	4.4	20	104
4 PCB-1232-2	0.020431	0.0		0.023032	12.7	20	113
4 PCB-1232-3	0.038800	-0.001		0.040289	3.8	20	104
4 PCB-1232-4	0.017936	0.0		0.016414	-8.5	20	92
4 PCB-1232-5	0.009026	0.001		0.009902	9.7	20	110

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062114.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	0.1000		0.1002		0.2	20	100
9 PCB-1262-1	0.051720	0.0		0.049629	-4.0	20	96
9 PCB-1262-2	0.054747	0.0		0.056414	3.0	20	103
9 PCB-1262-3	0.083764	0.0		0.085129	1.6	20	102
9 PCB-1262-4	0.161862	0.001		0.163461	1	20	101
9 PCB-1262-5	0.121103	0.001		0.120365	-0.6	20	99

Reagent

SG3262@0.5PPM_00053

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062116.D
 Lims ID: new 1232/1262 0.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 14:04:14 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-016
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:21:53 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Cal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.5000		0.4452		-11.0	20	89
4 PCB-1232-1	0.022725	0.001		0.020687	-9.0	20	91
4 PCB-1232-2	0.016863	0.001		0.015164	-10.1	20	90
4 PCB-1232-3	0.035742	-0.007		0.029040	-18.8	20	81
4 PCB-1232-4	0.016733	0.0		0.014834	-11.3	20	89
4 PCB-1232-5	0.010137	0.001		0.009565	-5.6	20	94
9 PCB-1262	0.5000		0.4377		-12.5	20	88
9 PCB-1262-1	0.041689	0.0		0.035364	-15.2	20	85
9 PCB-1262-2	0.079465	0.0		0.063330	*-20.3	20	80
9 PCB-1262-3	0.077348	0.0		0.066726	-13.7	20	86
9 PCB-1262-4	0.161704	0.0		0.151859	-6.1	20	94
9 PCB-1262-5	0.065823	0.001		0.061191	-7.0	20	93

Start Cal Date: 06-Jun-2022 15:12:44

End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	0.5000		0.4453		-10.9	20	89
4 PCB-1232-1	0.024539	0.001		0.021108	-14.0	20	86
4 PCB-1232-2	0.020431	0.001		0.017385	-14.9	20	85
4 PCB-1232-3	0.038800	0.0		0.036602	-5.7	20	94
4 PCB-1232-4	0.017936	0.001		0.016740	-6.7	20	93
4 PCB-1232-5	0.009026	0.001		0.007809	-13.5	20	87

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\19062116.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	0.5000		0.4479		-10.4	20	90
9 PCB-1262-1	0.051720	0.0		0.043166	-16.5	20	83
9 PCB-1262-2	0.054747	0.001		0.048532	-11.4	20	89
9 PCB-1262-3	0.083764	0.0		0.075697	-9.6	20	90
9 PCB-1262-4	0.161862	-0.001		0.151939	-6.1	20	94
9 PCB-1262-5	0.121103	-0.001		0.110876	-8.4	20	92

Reagent

SG3262@1.0PPM_00038

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062117.D
 Lims ID: new 1232/1262 1.0
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 14:21:12 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-017
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:22:45 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	1.00		0.8407		-15.9	20	84
4 PCB-1232-1	0.022725	0.003		0.019352	-14.8	20	85
4 PCB-1232-2	0.016863	0.002		0.014157	-16.0	20	84
4 PCB-1232-3	0.035742	-0.006		0.028419	*-20.5	20	80
4 PCB-1232-4	0.016733	0.0		0.013830	-17.3	20	83
4 PCB-1232-5	0.010137	0.0		0.009032	-10.9	20	89
9 PCB-1262	1.00		0.8645		-13.5	20	86
9 PCB-1262-1	0.041689	0.001		0.034068	-18.3	20	82
9 PCB-1262-2	0.079465	0.0		0.067899	-14.6	20	85
9 PCB-1262-3	0.077348	0.001		0.067640	-12.6	20	87
9 PCB-1262-4	0.161704	0.0		0.145915	-9.8	20	90
9 PCB-1262-5	0.065823	0.0		0.057546	-12.6	20	87

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	1.00		0.8005		-19.9	20	80
4 PCB-1232-1	0.024539	0.002		0.019561	*-20.3	20	80
4 PCB-1232-2	0.020431	0.0		0.015935	*-22.0	20	78
4 PCB-1232-3	0.038800	0.0		0.033203	-14.4	20	86
4 PCB-1232-4	0.017936	0.001		0.014204	*-20.8	20	79
4 PCB-1232-5	0.009026	0.001		0.007021	*-22.2	20	78

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062117.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	1.00		0.8449		-15.5	20	84
9 PCB-1262-1	0.051720	0.001		0.040325	*-22.0	20	78
9 PCB-1262-2	0.054747	0.0		0.045509	-16.9	20	83
9 PCB-1262-3	0.083764	0.0		0.071377	-14.8	20	85
9 PCB-1262-4	0.161862	0.0		0.144066	-11.0	20	89
9 PCB-1262-5	0.121103	0.0		0.105553	-12.8	20	87

Reagent

SG3262@1.5PPM_00014

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062118.D
 Lims ID: new 1232/1262 1.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2022 14:38:01 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119647-018
 Operator ID: Instrument ID: A2HP19
 Sublist: chrom-PCB19 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\PCB19 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 08:23:34 Calib Date: 06-Jun-2022 23:20:58
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP19\20220606-119202.b\P19060633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	1.50		1.23		-17.8	20	82
4 PCB-1232-1	0.022725	0.001		0.018744	-17.5	20	82
4 PCB-1232-2	0.016863	0.001		0.013852	-17.9	20	82
4 PCB-1232-3	0.035742	-0.005		0.028365	*-20.6	20	79
4 PCB-1232-4	0.016733	0.0		0.013388	-20.0	20	80
4 PCB-1232-5	0.010137	0.0		0.008796	-13.2	20	87
9 PCB-1262	1.50		1.27		-15.1	20	85
9 PCB-1262-1	0.041689	0.0		0.033393	-19.9	20	80
9 PCB-1262-2	0.079465	0.0		0.066212	-16.7	20	83
9 PCB-1262-3	0.077348	0.0		0.066562	-13.9	20	86
9 PCB-1262-4	0.161704	0.0		0.143872	-11.0	20	89
9 PCB-1262-5	0.065823	0.0		0.056508	-14.2	20	86

Start Cal Date: 06-Jun-2022 15:12:44
 End Cal Date: 06-Jun-2022 23:20:58

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
4 PCB-1232	1.50		1.16		*-22.5	20	78
4 PCB-1232-1	0.024539	0.0		0.018874	*-23.1	20	77
4 PCB-1232-2	0.020431	0.0		0.015432	*-24.5	20	76
4 PCB-1232-3	0.038800	-0.001		0.032579	-16.0	20	84
4 PCB-1232-4	0.017936	0.0		0.013751	*-23.3	20	77
4 PCB-1232-5	0.009026	0.0		0.006739	*-25.3	20	75

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP19\20220621-119647.b\P19062118.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
9 PCB-1262	1.50		1.24		-17.1	20	83
9 PCB-1262-1	0.051720	0.0		0.039181	*-24.2	20	76
9 PCB-1262-2	0.054747	0.0		0.044547	-18.6	20	81
9 PCB-1262-3	0.083764	0.0		0.070253	-16.1	20	84
9 PCB-1262-4	0.161862	0.001		0.141871	-12.4	20	88
9 PCB-1262-5	0.121103	0.0		0.103781	-14.3	20	86

Reagent

SG42/68@1.0PP_00042

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\13062217.D
 Lims ID: new 1242/1268 1.0
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 11:09:57 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-017
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 09:58:05 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Cal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1617
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	1.00		0.8649		-13.5	20	86
5 PCB-1242-1	0.014712	0.002		0.012297	-16.4	20	84
5 PCB-1242-2	0.024708	0.004		0.021649	-12.4	20	88
5 PCB-1242-3	0.057065	-0.001		0.047135	-17.4	20	83
5 PCB-1242-4	0.025413	0.001		0.022645	-10.9	20	89
5 PCB-1242-5	0.008920	0.0		0.007989	-10.4	20	90
11 PCB-1268	1.00		0.9649		-3.5	20	96
11 PCB-1268-1	0.156684	0.0		0.149231	-4.8	20	95
11 PCB-1268-2	0.144796	0.001		0.139308	-3.8	20	96
11 PCB-1268-3	0.130679	0.001		0.125200	-4.2	20	96
11 PCB-1268-4	0.054253	0.0		0.052464	-3.3	20	97
11 PCB-1268-5	0.423152	-0.001		0.416734	-1.5	20	98

Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	1.00		1.07		6.9	20	107
5 PCB-1242-1	0.013059	0.002		0.012521	-4.1	20	96
5 PCB-1242-2	0.023298	0.004		0.023054	-1.0	20	99
5 PCB-1242-3	0.052253	0.003		0.055521	6.3	20	106
5 PCB-1242-4	0.020447	0.001		0.023967	17.2	20	117
5 PCB-1242-5	0.008345	0.001		0.009691	16.1	20	116

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062217.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	1.00		0.9687		-3.1	20	97
11 PCB-1268-1	0.161996	0.001		0.158642	-2.1	20	98
11 PCB-1268-2	0.162963	0.002		0.158692	-2.6	20	97
11 PCB-1268-3	0.144071	0.001		0.138629	-3.8	20	96
11 PCB-1268-4	0.059812	0.001		0.057238	-4.3	20	96
11 PCB-1268-5	0.457417	0.001		0.444171	-2.9	20	97

Reagent

SG4268@.05PPM_00023

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062213.D
 Lims ID: New 1242/1268 .05
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 10:03:44 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-013
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 22-Jun-2022 11:55:11 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\P13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1634
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.0500		0.0497		-0.5	20	99
5 PCB-1242-1	0.014712	0.003		0.016611	12.9	20	113
5 PCB-1242-2	0.024708	0.002		0.025483	3.1	20	103
5 PCB-1242-3	0.057065	-0.003		0.051998	-8.9	20	91
5 PCB-1242-4	0.025413	0.002		0.024863	-2.2	20	98
5 PCB-1242-5	0.008920	0.001		0.008233	-7.7	20	92
11 PCB-1268	0.0500		0.0515		2.9	20	103
11 PCB-1268-1	0.156684	-0.001		0.162689	3.8	20	104
11 PCB-1268-2	0.144796	0.001		0.146267	1.0	20	101
11 PCB-1268-3	0.130679	0.0		0.135089	3.4	20	103
11 PCB-1268-4	0.054253	0.0		0.057531	6.0	20	106
11 PCB-1268-5	0.423152	-0.001		0.424229	0.3	20	100

Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.0500		0.0624		*24.8	20	125
5 PCB-1242-1	0.013059	0.003		0.015663	19.9	20	120
5 PCB-1242-2	0.023298	0.002		0.032987	*41.6	20	142
5 PCB-1242-3	0.052253	0.001		0.061974	18.6	20	119
5 PCB-1242-4	0.020447	0.0		0.025638	*25.4	20	125
5 PCB-1242-5	0.008345	0.002		0.009875	18.3	20	118

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062213.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	0.0500		0.0535		7.0	20	107
11 PCB-1268-1	0.161996	0.0		0.168392	3.9	20	104
11 PCB-1268-2	0.162963	0.001		0.161733	-0.8	20	99
11 PCB-1268-3	0.144071	0.001		0.173040	*20.1	20	120
11 PCB-1268-4	0.059812	0.001		0.069634	16.4	20	116
11 PCB-1268-5	0.457417	-0.001		0.434703	-5.0	20	95

Reagent

SG4268@.1PPM_00024

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062214.D
 Lims ID: new 1242/1268 0.1
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 10:20:16 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-014
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 09:46:22 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\P13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1617
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.1000		0.0989		-1.1	20	99
5 PCB-1242-1	0.014712	0.001		0.014882	1.2	20	101
5 PCB-1242-2	0.024708	0.002		0.025064	1.4	20	101
5 PCB-1242-3	0.057065	-0.004		0.048242	-15.5	20	85
5 PCB-1242-4	0.025413	0.001		0.026597	4.7	20	105
5 PCB-1242-5	0.008920	0.001		0.009171	2.8	20	103
11 PCB-1268	0.1000		0.0993		-0.7	20	99
11 PCB-1268-1	0.156684	-0.001		0.153084	-2.3	20	98
11 PCB-1268-2	0.144796	0.0		0.143897	-0.6	20	99
11 PCB-1268-3	0.130679	-0.001		0.128192	-1.9	20	98
11 PCB-1268-4	0.054253	-0.001		0.055754	2.8	20	103
11 PCB-1268-5	0.423152	-0.001		0.417443	-1.3	20	99

Start Cal Date: 01-Jun-2022 09:27:50

End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.1000		0.1225		*22.5	20	123
5 PCB-1242-1	0.013059	0.002		0.015698	*20.2	20	120
5 PCB-1242-2	0.023298	0.002		0.031779	*36.4	20	136
5 PCB-1242-3	0.052253	0.0		0.060480	15.7	20	116
5 PCB-1242-4	0.020447	0.001		0.025308	*23.8	20	124
5 PCB-1242-5	0.008345	0.001		0.009729	16.6	20	117

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062214.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	0.1000		0.0991		-0.9	20	99
11 PCB-1268-1	0.161996	-0.001		0.165704	2.3	20	102
11 PCB-1268-2	0.162963	0.0		0.161928	-0.6	20	99
11 PCB-1268-3	0.144071	0.0		0.142346	-1.2	20	99
11 PCB-1268-4	0.059812	0.0		0.060129	0.5	20	101
11 PCB-1268-5	0.457417	-0.001		0.431435	-5.7	20	94

Reagent

SG4268@.2PPM_00023

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062215.D
 Lims ID: new 1242/1268 0.2
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 10:36:47 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-015
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 09:49:38 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\P13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1617
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.2000		0.1932		-3.4	20	97
5 PCB-1242-1	0.014712	0.002		0.014360	-2.4	20	98
5 PCB-1242-2	0.024708	0.003		0.024957	1.0	20	101
5 PCB-1242-3	0.057065	-0.002		0.048609	-14.8	20	85
5 PCB-1242-4	0.025413	0.0		0.025405	-0.03	20	100
5 PCB-1242-5	0.008920	0.001		0.008845	-0.8	20	99
11 PCB-1268	0.2000		0.2005		0.3	20	100
11 PCB-1268-1	0.156684	-0.002		0.154445	-1.4	20	99
11 PCB-1268-2	0.144796	0.0		0.145949	0.8	20	101
11 PCB-1268-3	0.130679	0.0		0.129032	-1.3	20	99
11 PCB-1268-4	0.054253	0.0		0.055600	2.5	20	102
11 PCB-1268-5	0.423152	0.0		0.426047	0.7	20	101

Start Cal Date: 01-Jun-2022 09:27:50

End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.2000		0.2787		*39.3	20	139
5 PCB-1242-1	0.013059	0.002		0.014944	14.4	20	114
5 PCB-1242-2	0.023298	0.002		0.031128	*33.6	20	134
5 PCB-1242-3	0.052253	0.002		0.066145	*26.6	20	127
5 PCB-1242-4	0.020447	0.001		0.032262	*57.8	20	158
5 PCB-1242-5	0.008345	0.001		0.013709	*64.3	20	164

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\13062215.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	0.2000		0.2005		0.2	20	100
11 PCB-1268-1	0.161996	0.0		0.167961	3.7	20	104
11 PCB-1268-2	0.162963	0.0		0.163083	0.07	20	100
11 PCB-1268-3	0.144071	0.0		0.142968	-0.8	20	99
11 PCB-1268-4	0.059812	0.0		0.060552	1.2	20	101
11 PCB-1268-5	0.457417	-0.001		0.443629	-3.0	20	97

Reagent

SG4268@0.5PPM_00054

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062216.D
 Lims ID: new 1242/1268 0.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 10:53:19 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-016
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 09:51:49 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\P13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1617
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.5000		0.4435		-11.3	20	89
5 PCB-1242-1	0.014712	0.003		0.012966	-11.9	20	88
5 PCB-1242-2	0.024708	0.003		0.022404	-9.3	20	91
5 PCB-1242-3	0.057065	-0.002		0.046201	-19.0	20	81
5 PCB-1242-4	0.025413	0.001		0.023601	-7.1	20	93
5 PCB-1242-5	0.008920	0.0		0.008109	-9.1	20	91
11 PCB-1268	0.5000		0.4859		-2.8	20	97
11 PCB-1268-1	0.156684	-0.001		0.150083	-4.2	20	96
11 PCB-1268-2	0.144796	0.0		0.141586	-2.2	20	98
11 PCB-1268-3	0.130679	0.001		0.125894	-3.7	20	96
11 PCB-1268-4	0.054253	0.0		0.053001	-2.3	20	98
11 PCB-1268-5	0.423152	0.0		0.415927	-1.7	20	98

Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	0.5000		0.5907		18.1	20	118
5 PCB-1242-1	0.013059	0.003		0.013500	3.4	20	103
5 PCB-1242-2	0.023298	0.002		0.026320	13.0	20	113
5 PCB-1242-3	0.052253	0.002		0.059624	14.1	20	114
5 PCB-1242-4	0.020447	0.001		0.026773	*30.9	20	131
5 PCB-1242-5	0.008345	0.001		0.010792	*29.3	20	129

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\13062216.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	0.5000		0.4865		-2.7	20	97
11 PCB-1268-1	0.161996	0.001		0.162055	0.04	20	100
11 PCB-1268-2	0.162963	0.002		0.156891	-3.7	20	96
11 PCB-1268-3	0.144071	0.002		0.139647	-3.1	20	97
11 PCB-1268-4	0.059812	0.001		0.058489	-2.2	20	98
11 PCB-1268-5	0.457417	0.0		0.436871	-4.5	20	96

Reagent

SG4268@1.5PPM_00014

Preliminary Report

Eurofins Canton
CCV, Cal Verification Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062218.D
 Lims ID: new 1242/12678 1.5
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2022 11:26:26 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0119689-018
 Operator ID: Instrument ID: A2HP13
 Sublist: chrom-PCB13 IS*sub2
 Method: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\PCB13 IS.m
 Limit Group: GC 8082A IS
 Last Update: 23-Jun-2022 10:00:23 Calib Date: 01-Jun-2022 17:27:32
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP13\20220601-119043.b\P13060133.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ecd2b
 Process Host: CTX1617
 Start Cal Date: 01-Jun-2022 09:27:50
 End Cal Date: 01-Jun-2022 17:27:32

Detector 1: GC ECD1A

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	1.50		1.28		-14.5	20	86
5 PCB-1242-1	0.014712	0.002		0.012199	-17.1	20	83
5 PCB-1242-2	0.024708	0.002		0.020899	-15.4	20	85
5 PCB-1242-3	0.057065	-0.001		0.046905	-17.8	20	82
5 PCB-1242-4	0.025413	0.001		0.022627	-11.0	20	89
5 PCB-1242-5	0.008920	-0.001		0.007919	-11.2	20	89
11 PCB-1268	1.50		1.48		-1.4	20	99
11 PCB-1268-1	0.156684	-0.001		0.151320	-3.4	20	97
11 PCB-1268-2	0.144796	0.001		0.143818	-0.7	20	99
11 PCB-1268-3	0.130679	0.0		0.127203	-2.7	20	97
11 PCB-1268-4	0.054253	0.0		0.053731	-1	20	99
11 PCB-1268-5	0.423152	-0.001		0.427077	0.9	20	101

Start Cal Date: 01-Jun-2022 09:27:50

End Cal Date: 01-Jun-2022 17:27:32

Detector 2: GC ecd2b

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
5 PCB-1242	1.50		1.54		2.9	20	103
5 PCB-1242-1	0.013059	0.002		0.012128	-7.1	20	93
5 PCB-1242-2	0.023298	0.001		0.021854	-6.2	20	94
5 PCB-1242-3	0.052253	0.0		0.054208	3.7	20	104
5 PCB-1242-4	0.020447	0.0		0.023045	12.7	20	113
5 PCB-1242-5	0.008345	0.001		0.009307	11.5	20	112

Preliminary Report

Data File: \\chromfs\Canton\ChromData\A2HP13\20220622-119689.b\P13062218.D

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	%D	Max. %D	%Rec
11 PCB-1268	1.50		1.47		-1.8	20	98
11 PCB-1268-1	0.161996	0.0		0.165072	1.9	20	102
11 PCB-1268-2	0.162963	0.001		0.157383	-3.4	20	97
11 PCB-1268-3	0.144071	0.0		0.140088	-2.8	20	97
11 PCB-1268-4	0.059812	0.0		0.057588	-3.7	20	96
11 PCB-1268-5	0.457417	0.0		0.453805	-0.8	20	99

Reagent

















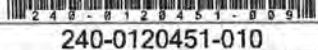
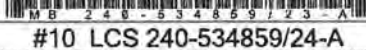
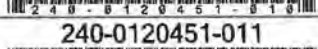
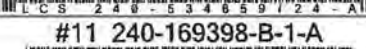
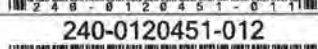
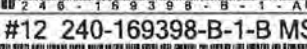
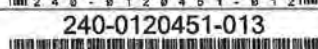
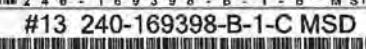

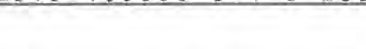
SGPCBISTD_00033













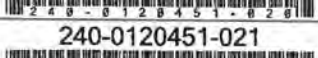
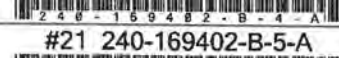
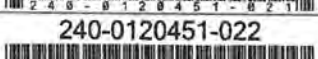
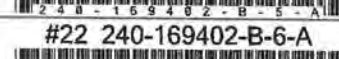
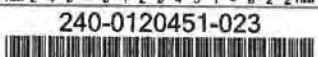
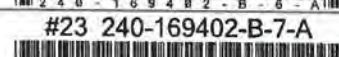

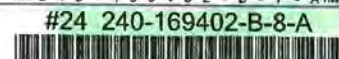
















Eurofins Environment Testing America
Worklist Report

front

Worklist Name: 071922
Instrument Name: A2HP13
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Canton\ChromData\A2HP13\20220719-120451.b
Upload Directory: \\Corptalsapp17\240-NC-RawData\Organics\GC\A2HP13
Run Reagent: SGPCBISTD_00032
Batch #s: 535187
Worklist Number: 120451
Chrom Method: PCB13 IS
Units: uL
Amount Added: 5.000, Units: uL

Page 453 of 3221









Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
240-0120451-001 	# 1 RB HEX Lot # 279996 TALS# 5341787 		RB	sv	1.000	mL	1.000
240-0120451-002 	# 2 MRL 	SG1660@0.5PPM_00046	MRL	sv	1.000	mL	1.000
240-0120451-003 	# 3 CCV AR1660 	SG 1260 res_00002 SG1660@0.5PPM_00115	CCVIS	sv	1.000	mL	1.000
240-0120451-004 	# 4 CCV AR1232/1262 	<i>pass flk</i> SG3262@0.5PPM_00051	CCV	sv	1.000	mL	1.000
240-0120451-005 	# 5 CCV AR1242/1268 	<i>pass flk</i> SG4268@0.5PPM_00052	CCV	sv	1.000	mL	1.000
240-0120451-006 	# 6 CCV AR1248 	<i>pass flk</i> SG1248@0.5ppm_00056	CCV	sv	1.000	mL	1.000
240-0120451-007 	# 7 CCV AR1221/1254 	<i>pass flk</i> SG2154@0.5PPM_00062	CCV	sv	1.000	mL	1.000
240-0120451-008 	# 8 RTC DDD/DDT/DDE 	PBCRTC_00050	RTC	sv	1.000	mL	1.000
240-0120451-009 	# 9 MB 240-534859/23-A 	✓	MB	sv	1.000	mL	1.000
240-0120451-010 	#10 LCS 240-534859/24-A 	✓	LCS	sv	1.000	mL	1.000
240-0120451-011 	#11 240-169398-B-1-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-012 	#12 240-169398-B-1-B MS 	✓	MS	sv	1.000	mL	1.000
240-0120451-013 	#13 240-169398-B-1-C MSD 	✓	MSD	sv	1.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
240-0120451-014 	#14 240-169203-A-30-I  Hbx	✓	Client	sv	1.000	mL	1.000
240-0120451-015 	#15 240-169203-A-32-I 	✓	Client	sv	1.000	mL	10.00
240-0120451-016 	#16 240-169401-E-1-K  Hbx	✓	Client	sv	1.000	mL	1.000
240-0120451-017 	#17 240-169402-B-1-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-018 	#18 240-169402-B-2-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-019 	#19 240-169402-B-3-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-020 	#20 240-169402-B-4-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-021 	#21 240-169402-B-5-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-022 	#22 240-169402-B-6-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-023 	#23 240-169402-B-7-A  TBA	✓	Client	sv	1.000	mL	1.000
240-0120451-024 	#24 240-169402-B-8-A 	✓	Client	sv	1.000	mL	1.000
240-0120451-025 	#25 240-169266-I-2-C  Hbx	min	Client	sv	1.000	mL	1.000
240-0120451-026 	#26 MB 240-534859/23-A  Hbx		MB	sv	1.000	mL	1.000
240-0120451-027 	#27 LCS 240-534859/24-A  1		LCS	sv	1.000	mL	1.000
240-0120451-028 	#28 ccvis 	SG1660@0.5PPM_00115	CCVIS	sv	1.000	mL	1.000
240-0120451-029 	#29 240-169266-G-3-C  Hbx	pass file	Client	sv	1.000	mL	1.000
240-0120451-030 	#30 240-169266-G-4-C 	mix	Client	sv	1.000	mL	1.000
240-0120451-031 	#31 240-169266-G-5-C 	✓	Client	sv	1.000	mL	1.000

ISF ↑ TBA (2) SK

Re-extrad

DCB R -20.7

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
240-0120451-032 	#32 240-169266-H-11-C  +ba	✓ mia	Client	sv	1.000	mL	1.000
240-0120451-033 	#33 240-169266-H-12-C 	✓	Client	sv	1.000	mL	1.000
240-0120451-034 	#34 240-169266-G-13-C 	ISF ↑ +ba	Client	sv	1.000	mL	1.000
240-0120451-035 	#35 240-169266-H-14-C  +ba	✓	Client	sv	1.000	mL	1.000

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 240-534859

Analyst: Cook, Thomas E

Batch Open: 7/15/2022 12:35:00PM

Method Code: 240-3540C-240

Batch End: 7/16/2022 4:35:00AM

Soxhlet Extraction

Input Sample Lab ID (Analytical Method)	SDG (Job #)	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
240-169398-B-1 (8082A)	N/A (240-169398-1)	10.30 g	10 mL	7/19/22	9_Days	2	st	240-169398-B-1-A
240-169398-B-1-MS (8082A)	N/A (240-169398-1)	10.04 g	10 mL	7/19/22	9_Days	2		240-169398-B-1-B-MS
240-169398-B-1-MSD (8082A)	N/A (240-169398-1)	10.07 g	10 mL	7/19/22	9_Days	2		240-169398-B-1-C-MSD
240-169203-A-30-A (8082A)	N/A (240-169203-1)	1.00 g	10 mL	7/14/22	9_Days	2	light matrix fba/st	240-169203-A-30-1
240-169203-A-32-A (8082A)	N/A (240-169203-1)	5.17 g	10 mL	7/14/22	9_Days	2	light matrix x10	240-169203-A-32-1
240-169401-E-1-A (8082A)	NOPV 006 - Ohio (240-169401-1)	1.31 g	10 mL	7/19/22	9_Days	2	light matrix fba/st	240-169401-E-1-K
240-169402-B-1 (8082A)	N/A (240-169402-1)	9.92 g	10 mL	7/19/22	9_Days	2		240-169402-B-1-A
240-169402-B-2 (8082A)	N/A (240-169402-1)	10.01 g	10 mL	7/19/22	9_Days	2		240-169402-B-2-A
240-169402-B-3 (8082A)	N/A (240-169402-1)	9.98 g	10 mL	7/19/22	9_Days	2	fba/st	240-169402-B-3-A
240-169402-B-4 (8082A)	N/A (240-169402-1)	9.82 g	10 mL	7/19/22	9_Days	2	fba/st	240-169402-B-4-A
240-169402-B-5 (8082A)	N/A (240-169402-1)	9.77 g	10 mL	7/19/22	9_Days	2		240-169402-B-5-A
240-169402-B-6 (8082A)	N/A (240-169402-1)	10.21 g	10 mL	7/19/22	9_Days	2	st	240-169402-B-6-A
240-169402-B-7 (8082A)	N/A (240-169402-1)	9.96 g	10 mL	7/19/22	9_Days	2	fba/st	240-169402-B-7-A
240-169402-B-8 (8082A)	N/A (240-169402-1)	10.28 g	10 mL	7/19/22	9_Days	2	st	240-169402-B-8-A
240-169266-I-2 (8082A)	N/A (240-169266-1)	10.19 g	10 mL	7/15/22	9_Days	2	fba/st	240-169266-I-2-C

Page 456 of 3221

F

F

B3M 7/18/22
RR

R

B3M
7/18/22
P10

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 240-534859

Analyst: Cook, Thomas E

Batch Open: 7/15/2022 12:35:00PM

Method Code: 240-3540C-240

Batch End: 7/16/2022 4:35:00AM

16	240-169266-G-3 (8082A)	N/A (240-169266-1)	9.95 g	10 mL	7/15/22	9_Days	2	toa/st		10
17	240-169266-G-4 (8082A)	N/A (240-169266-1)	9.87 g	10 mL	7/15/22	9_Days	2	L		L
18	240-169266-G-5 (8082A)	N/A (240-169266-1)	10.17 g	10 mL	7/15/22	9_Days	2	L		L
19	240-169266-H-11 (8082A)	N/A (240-169266-1)	10.01 g	10 mL	7/15/22	9_Days	2	toa/st		10
20	240-169266-H-12 (8082A)	N/A (240-169266-1)	10.01 g	10 mL	7/15/22	9_Days	2	st		L
21	240-169266-G-13 (8082A)	N/A (240-169266-1)	9.94 g	10 mL	7/15/22	9_Days	2	L toa/st		L
22	240-169266-H-14 (8082A)	N/A (240-169266-1)	9.93 g	10 mL	7/15/22	9_Days	2	toa/st		L
23	MB~240-534859/23 N/A	N/A	10 g	10 mL	N/A	N/A	N/A			
24	LCS~240-534859/24 N/A	N/A	10 g	10 mL	N/A	N/A	N/A			

Page 457 of 3221

Reagent

SGPESTSURR_00013

Rev'd 4/13/20



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0154127
Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene	199.9 µg/mL	+/-	1.1794	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.3374	µg/mL	Unstressed
	Purity 98%		+/-	8.2781	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	200.4 µg/mL	+/-	1.1822	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/-	6.3526	µg/mL	Unstressed
	Purity 99%		+/-	8.2980	µg/mL	Stressed

Solvent: Acetone
 CAS # 67-64-1
 Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

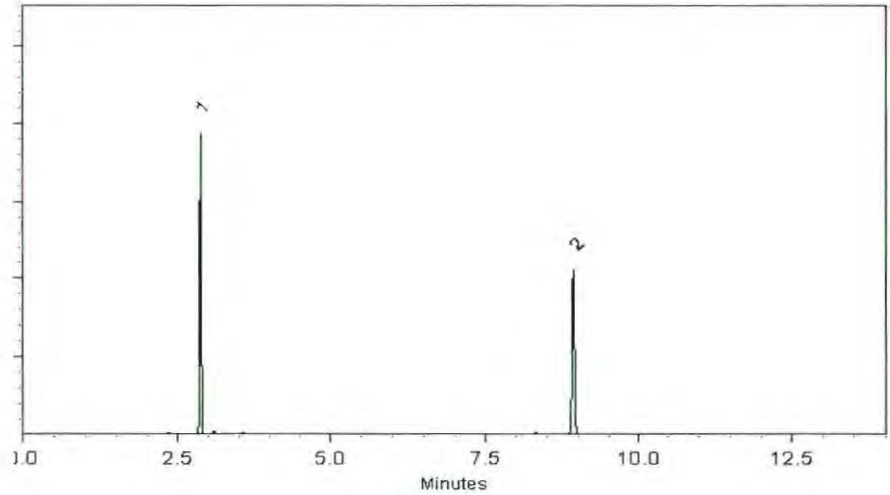
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Mage

Date Mixed: 21-Oct-2019 **Balance:** 1128353505

Feng-Yun Lo
Feng-Yun Lo, QC Analyst

Date Passed: 25-Oct-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMDFTPPR_00018



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 Lot No.: A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : March 31, 2025 Storage: 10°C or colder

Handling: Contains carcinogen/reproductive toxin. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897	µg/mL	Gravimetric	
			+/- 45.7132	µg/mL	Unstressed	
			+/- 66.0037	µg/mL	Stressed	
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074	µg/mL	Gravimetric	
			+/- 45.8508	µg/mL	Unstressed	
			+/- 66.2023	µg/mL	Stressed	
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric	
			+/- 45.9318	µg/mL	Unstressed	
			+/- 66.3193	µg/mL	Stressed	
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132	µg/mL	Gravimetric	
			+/- 45.8954	µg/mL	Unstressed	
			+/- 66.2667	µg/mL	Stressed	

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

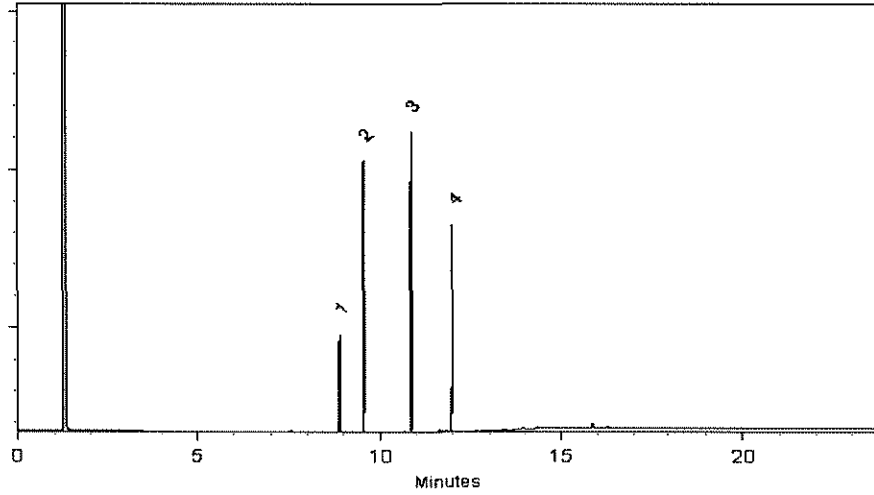
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662


Marlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

SMIS R_00015

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0167198
Description : 8270 Internal Standard
8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2025 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	1,4-Dichlorobenzene-d4	2,003.5 µg/mL	+/-	11.6482	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/-	90.2366	µg/mL	Unstressed
	Purity 99%		+/-	100.1286	µg/mL	Stressed
2	Naphthalene-d8	2,011.1 µg/mL	+/-	11.6927	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot M-1452)		+/-	90.5811	µg/mL	Unstressed
	Purity 99%		+/-	100.5110	µg/mL	Stressed
3	Acenaphthene-d10	2,003.9 µg/mL	+/-	11.6506	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-30913)		+/-	90.2546	µg/mL	Unstressed
	Purity 99%		+/-	100.1486	µg/mL	Stressed
4	Phenanthrene-d10	2,019.2 µg/mL	+/-	11.7395	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-29119)		+/-	90.9437	µg/mL	Unstressed
	Purity 99%		+/-	100.9133	µg/mL	Stressed
5	Chrysene-d12	2,015.4 µg/mL	+/-	11.7174	µg/mL	Gravimetric
	CAS # 1719-03-5 (Lot PR-31391)		+/-	90.7726	µg/mL	Unstressed
	Purity 99%		+/-	100.7234	µg/mL	Stressed
6	Perylene-d12	2,013.9 µg/mL	+/-	11.7090	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-30020)		+/-	90.7073	µg/mL	Unstressed
	Purity 99%		+/-	100.6509	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

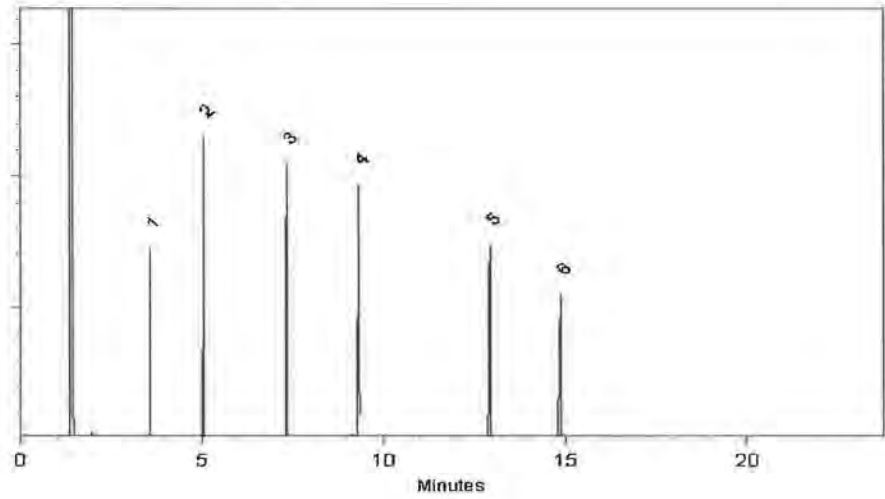
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 14-Dec-2020 **Balance:** B442140311

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 31-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

SMIS R_00016



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 Lot No.: A0176256

Description : 8270 Internal Standard
8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : September 30, 2026 Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dichlorobenzene-d4	2,005.0 µg/mL	+/-	11.6570	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/-	90.3041	µg/mL	Unstressed
	Purity 99%		+/-	100.2036	µg/mL	Stressed
2	Naphthalene-d8	2,000.6 µg/mL	+/-	11.6314	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot M-1452)		+/-	90.1060	µg/mL	Unstressed
	Purity 99%		+/-	99.9837	µg/mL	Stressed
3	Acenaphthene-d10	2,005.8 µg/mL	+/-	11.6616	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-30913)		+/-	90.3402	µg/mL	Unstressed
	Purity 99%		+/-	100.2436	µg/mL	Stressed
4	Phenanthrene-d10	2,003.4 µg/mL	+/-	11.6479	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-29119)		+/-	90.2343	µg/mL	Unstressed
	Purity 99%		+/-	100.1261	µg/mL	Stressed
5	Chrysene-d12	2,003.3 µg/mL	+/-	11.6474	µg/mL	Gravimetric
	CAS # 1719-03-5 (Lot PR-30486)		+/-	90.2298	µg/mL	Unstressed
	Purity 99%		+/-	100.1211	µg/mL	Stressed
6	Perylene-d12	2,002.3 µg/mL	+/-	11.6415	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-30020)		+/-	90.1848	µg/mL	Unstressed
	Purity 99%		+/-	100.0712	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

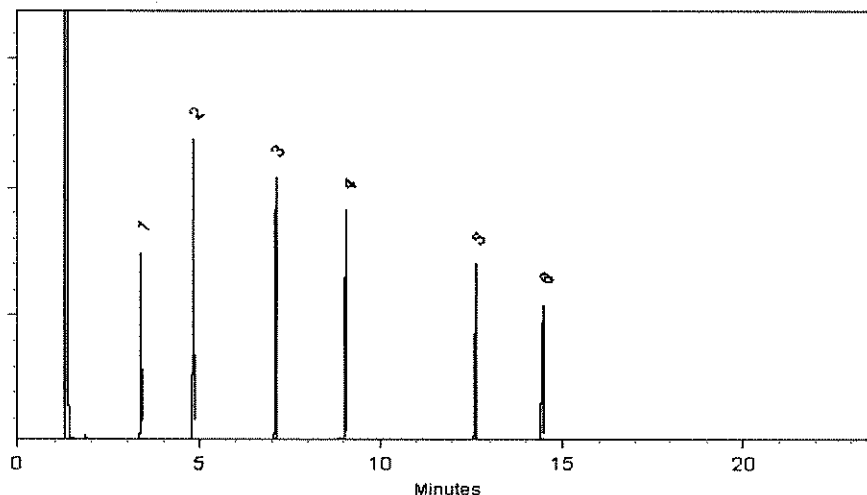
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 09-Sep-2021 **Balance:** 1128353505

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 13-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

SMLIST1 PAH_00013



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0179662

Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. **Ship:** Ambient
Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane	1,003.2 µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBM9675)		+/-	11.9923	µg/mL	Unstressed
	Purity 99%		+/-	19.0856	µg/mL	Stressed
2	N-Nitrosodimethylamine	1,008.7 µg/mL	+/-	5.8645	µg/mL	Gravimetric
	CAS # 62-75-9 (Lot 210512JLM)		+/-	12.0577	µg/mL	Unstressed
	Purity 99%		+/-	19.1896	µg/mL	Stressed
3	Pyridine	2,012.7 µg/mL	+/-	11.7018	µg/mL	Gravimetric
	CAS # 110-86-1 (Lot SHBL0433)		+/-	24.0595	µg/mL	Unstressed
	Purity 99%		+/-	38.2904	µg/mL	Stressed
4	Phenol	1,004.1 µg/mL	+/-	5.8377	µg/mL	Gravimetric
	CAS # 108-95-2 (Lot MKCK1120)		+/-	12.0027	µg/mL	Unstressed
	Purity 99%		+/-	19.1021	µg/mL	Stressed
5	Aniline	1,004.5 µg/mL	+/-	5.8404	µg/mL	Gravimetric
	CAS # 62-53-3 (Lot X22F726)		+/-	12.0083	µg/mL	Unstressed
	Purity 99%		+/-	19.1110	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,006.9 µg/mL	+/-	5.8544	µg/mL	Gravimetric
	CAS # 111-44-4 (Lot SHBL6942)		+/-	12.0369	µg/mL	Unstressed
	Purity 99%		+/-	19.1566	µg/mL	Stressed
7	n-Decane (C10)	1,006.1 µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 124-18-5 (Lot SHBM1113)		+/-	12.0274	µg/mL	Unstressed
	Purity 99%		+/-	19.1414	µg/mL	Stressed

8	2-Chlorophenol		1,004.3	µg/mL	+/-	5.8389	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot STBH7290)			+/-	12.0051	µg/mL	Unstressed
	Purity 99%				+/-	19.1059	µg/mL	Stressed
9	1,3-Dichlorobenzene		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
10	1,4-Dichlorobenzene		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
11	Benzyl alcohol		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBK5943)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
12	1,2-Dichlorobenzene		1,006.9	µg/mL	+/-	5.8544	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	12.0369	µg/mL	Unstressed
	Purity 99%				+/-	19.1566	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,006.6	µg/mL	+/-	5.8525	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBH6379)			+/-	12.0330	µg/mL	Unstressed
	Purity 99%				+/-	19.1503	µg/mL	Stressed
14	2,2'-oxybis(1-chloropropane)		1,006.5	µg/mL	+/-	5.8517	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 11885400)			+/-	12.0314	µg/mL	Unstressed
	Purity 99%				+/-	19.1477	µg/mL	Stressed
15	Acetophenone		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot STBH8205)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
16	3-Methylphenol (m-cresol)		502.0	µg/mL	+/-	2.9254	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot STBJ0710)			+/-	6.0042	µg/mL	Unstressed
	Purity 99%				+/-	9.5525	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		503.9	µg/mL	+/-	2.9367	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot SHBN1151)			+/-	6.0273	µg/mL	Unstressed
	Purity 99%				+/-	9.5893	µg/mL	Stressed
18	N-Nitroso-di-n-propylamine		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot 2D5VJ)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
19	Hexachloroethane		1,008.6	µg/mL	+/-	5.8641	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot QTORH)			+/-	12.0569	µg/mL	Unstressed
	Purity 99%				+/-	19.1883	µg/mL	Stressed
20	Nitrobenzene		1,001.5	µg/mL	+/-	5.8230	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 10224044)			+/-	11.9724	µg/mL	Unstressed
	Purity 99%				+/-	19.0539	µg/mL	Stressed
21	Isophorone		1,005.6	µg/mL	+/-	5.8466	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot MKCC9506)			+/-	12.0210	µg/mL	Unstressed
	Purity 99%				+/-	19.1312	µg/mL	Stressed
22	2-Nitrophenol		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCCB2407)			+/-	12.0306	µg/mL	Unstressed
	Purity 99%				+/-	19.1465	µg/mL	Stressed
23	2,4-Dimethylphenol		1,007.9	µg/mL	+/-	5.8598	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot B2L4B)			+/-	12.0481	µg/mL	Unstressed
	Purity 99%				+/-	19.1744	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 Purity 99%	(Lot 11955500)	1,008.2 µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol CAS # 120-83-2 Purity 99%	(Lot BCBZ6787)	1,001.5 µg/mL	+/- 5.8230 +/- 11.9724 +/- 19.0539	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBM0526)	1,008.2 µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKCH0219)	1,006.8 µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol CAS # 87-65-0 Purity 99%	(Lot MKCK2863)	1,001.3 µg/mL	+/- 5.8218 +/- 11.9700 +/- 19.0501	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline CAS # 106-47-8 Purity 99%	(Lot BCBJ1580V)	1,005.7 µg/mL	+/- 5.8470 +/- 12.0218 +/- 19.1325	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot X05J)	1,005.3 µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	4-Chloro-3-methylphenol CAS # 59-50-7 Purity 99%	(Lot BCCD4461)	1,004.7 µg/mL	+/- 5.8416 +/- 12.0106 +/- 19.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBK0259)	1,004.8 µg/mL	+/- 5.8420 +/- 12.0114 +/- 19.1160	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 5234.00-3)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3 Purity 99%	(Lot MKCG5992)	1,004.0 µg/mL	+/- 5.8373 +/- 12.0019 +/- 19.1008	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 99%	(Lot 0012020)	1,006.9 µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2 Purity 99%	(Lot STBJ5914)	1,006.5 µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4 Purity 98%	(Lot FHN01)	1,005.4 µg/mL	+/- 5.8456 +/- 12.0188 +/- 19.1277	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene CAS # 91-58-7 Purity 99%	(Lot TWYRD)	1,007.5 µg/mL	+/- 5.8579 +/- 12.0441 +/- 19.1680	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl CAS # 92-52-4 Purity 99%	(Lot MKCJ6240)	1,001.7 µg/mL	+/- 5.8242 +/- 11.9748 +/- 19.0577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Nitroaniline CAS # 88-74-4 Purity 99%	(Lot MKCJ8895)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene CAS # 208-96-8 Purity 98%	(Lot P06V)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene CAS # 99-65-0 Purity 99%	(Lot 1-DXX-24-1)	1,002.9 µg/mL	+/- 5.8311 +/- 11.9891 +/- 19.0805	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate CAS # 131-11-3 Purity 99%	(Lot 10117699)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99%	(Lot BCBB8606)	1,004.3 µg/mL	+/- 5.8389 +/- 12.0051 +/- 19.1059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	3-Nitroaniline CAS # 99-09-2 Purity 99%	(Lot MKCH5457)	1,006.1 µg/mL	+/- 5.8497 +/- 12.0274 +/- 19.1414	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	Acenaphthene CAS # 83-32-9 Purity 99%	(Lot MKCN0610)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,4-Dinitrophenol CAS # 51-28-5 Purity 99%	(Lot STBK2447-DR)	2,011.9 µg/mL	+/- 11.6976 +/- 24.0508 +/- 38.2764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Dibenzofuran CAS # 132-64-9 Purity 99%	(Lot MKCNI772)	1,005.0 µg/mL	+/- 5.8432 +/- 12.0138 +/- 19.1198	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	4-Nitrophenol CAS # 100-02-7 Purity 99%	(Lot MKCF6111)	2,017.1 µg/mL	+/- 11.7278 +/- 24.1129 +/- 38.3754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	2,4-Dinitrotoluene CAS # 121-14-2 Purity 99%	(Lot MKAA0690V)	1,008.9 µg/mL	+/- 5.8660 +/- 12.0609 +/- 19.1947	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol CAS # 58-90-2 Purity 99%	(Lot PR-30126)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene CAS # 86-73-7 Purity 99%	(Lot 094650L18G)	1,005.3 µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	(Lot SHBM4146)	1,004.7 µg/mL	+/- 5.8414 +/- 12.0102 +/- 19.1141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diethylphthalate CAS # 84-66-2 Purity 99%	(Lot BCCD3396)	1,003.7 µg/mL	+/- 5.8358 +/- 11.9987 +/- 19.0957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	4-Chlorophenyl phenyl ether CAS # 7005-72-3 Purity 99%	(Lot MKCN1186)	1,004.9 µg/mL	+/- 5.8428 +/- 12.0130 +/- 19.1186	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Nitroaniline CAS # 100-01-6 Purity 99%	(Lot RP210713)	1,009.2 µg/mL	+/- 5.8676 +/- 12.0640 +/- 19.1997	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1 Purity 99%	(Lot RP211130)	2,013.0 µg/mL	+/- 11.7038 +/- 24.0635 +/- 38.2967	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Diphenylamine CAS # 122-39-4 Purity 99%	(Lot MKCH1042)	853.1 µg/mL	+/- 4.9598 +/- 10.1976 +/- 16.2293	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Azobenzene CAS # 103-33-3 Purity 99%	(Lot BCCC9136)	1,004.7 µg/mL	+/- 5.8412 +/- 12.0098 +/- 19.1135	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3 Purity 99%	(Lot STBB9729V)	1,007.8 µg/mL	+/- 5.8594 +/- 12.0473 +/- 19.1731	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1 Purity 99%	(Lot 12549300)	1,007.1 µg/mL	+/- 5.8556 +/- 12.0393 +/- 19.1604	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 210706RSR)	2,008.2 µg/mL	+/- 11.6758 +/- 24.0061 +/- 38.2054	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	1,006.0 µg/mL	+/- 5.8491 +/- 12.0260 +/- 19.1392	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Phenanthrene CAS # 85-01-8 Purity 99%	(Lot MKCL7390)	1,002.7 µg/mL	+/- 5.8296 +/- 11.9859 +/- 19.0754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKCN0922)	1,008.1 µg/mL	+/- 5.8610 +/- 12.0505 +/- 19.1782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8 Purity 99%	(Lot 12549400)	1,007.7 µg/mL	+/- 5.8587 +/- 12.0457 +/- 19.1706	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2 Purity 99%	(Lot MKCL9573)	1,008.4 µg/mL	+/- 5.8629 +/- 12.0545 +/- 19.1845	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0 Purity 99%	(Lot MKCQ4728)	1,002.8 µg/mL	+/- 5.8304 +/- 11.9875 +/- 19.0780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCCB9880)	1,006.9 µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7 Purity 99%	(Lot MKCM1987)	1,006.8 µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3 Purity 96%	(Lot RP210125)	1,002.5 µg/mL	+/- 5.8286 +/- 11.9839 +/- 19.0722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Chrysene CAS # 218-01-9 Purity 99%	(Lot STBK3173)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Bis(2-ethylhexyl)phthalate CAS # 117-81-7 Purity 99%	(Lot MKCJ1159)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Di-n-octyl phthalate CAS # 117-84-0 Purity 99%	(Lot 11651800)	1,003.9 µg/mL	+/- 5.8370 +/- 12.0011 +/- 19.0995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Benzo(b)fluoranthene CAS # 205-99-2 Purity 99%	(Lot 012021)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(k)fluoranthene CAS # 207-08-9 Purity 99%	(Lot 012019K)	1,007.5 µg/mL	+/- 5.8575 +/- 12.0433 +/- 19.1668	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
77	Benzo(a)pyrene CAS # 50-32-8 Purity 99%	(Lot Z8BKF)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
78	Indeno(1,2,3-cd)pyrene CAS # 193-39-5 Purity 99%	(Lot 1-RAK-33-4)	1,006.5 µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
79	Dibenz(a,h)anthracene CAS # 53-70-3 Purity 99%	(Lot ER032211-01)	1,006.1 µg/mL	+/- 5.8494 +/- 12.0266 +/- 19.1401	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
80	Benzo(g,h,i)perylene CAS # 191-24-2 Purity 98%	(Lot AVUAD)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%					

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.

N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

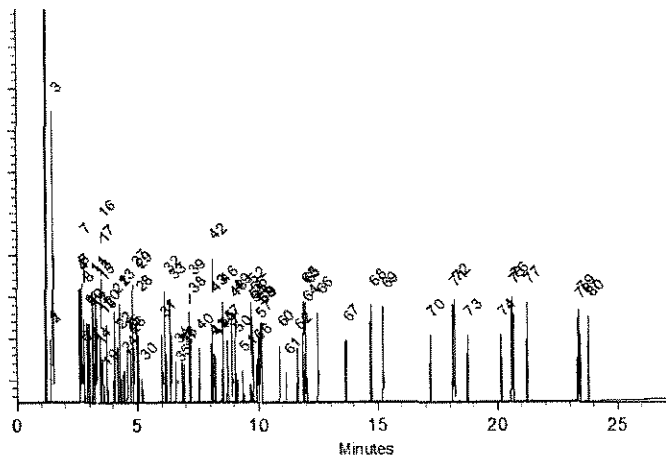
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 16-Dec-2021 Balance: 1128360905


John Lidgett - AD Chemist

Date Passed: 31-Jan-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 S1_00014



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0179662

Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. **Ship:** Ambient
Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane	1,003.2 µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBM9675)		+/-	11.9923	µg/mL	Unstressed
	Purity 99%		+/-	19.0856	µg/mL	Stressed
2	N-Nitrosodimethylamine	1,008.7 µg/mL	+/-	5.8645	µg/mL	Gravimetric
	CAS # 62-75-9 (Lot 210512JLM)		+/-	12.0577	µg/mL	Unstressed
	Purity 99%		+/-	19.1896	µg/mL	Stressed
3	Pyridine	2,012.7 µg/mL	+/-	11.7018	µg/mL	Gravimetric
	CAS # 110-86-1 (Lot SHBL0433)		+/-	24.0595	µg/mL	Unstressed
	Purity 99%		+/-	38.2904	µg/mL	Stressed
4	Phenol	1,004.1 µg/mL	+/-	5.8377	µg/mL	Gravimetric
	CAS # 108-95-2 (Lot MKCK1120)		+/-	12.0027	µg/mL	Unstressed
	Purity 99%		+/-	19.1021	µg/mL	Stressed
5	Aniline	1,004.5 µg/mL	+/-	5.8404	µg/mL	Gravimetric
	CAS # 62-53-3 (Lot X22F726)		+/-	12.0083	µg/mL	Unstressed
	Purity 99%		+/-	19.1110	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,006.9 µg/mL	+/-	5.8544	µg/mL	Gravimetric
	CAS # 111-44-4 (Lot SHBL6942)		+/-	12.0369	µg/mL	Unstressed
	Purity 99%		+/-	19.1566	µg/mL	Stressed
7	n-Decane (C10)	1,006.1 µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 124-18-5 (Lot SHBM1113)		+/-	12.0274	µg/mL	Unstressed
	Purity 99%		+/-	19.1414	µg/mL	Stressed

8	2-Chlorophenol		1,004.3	µg/mL	+/-	5.8389	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot STBH7290)			+/-	12.0051	µg/mL	Unstressed
	Purity 99%				+/-	19.1059	µg/mL	Stressed
9	1,3-Dichlorobenzene		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
10	1,4-Dichlorobenzene		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
11	Benzyl alcohol		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBK5943)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
12	1,2-Dichlorobenzene		1,006.9	µg/mL	+/-	5.8544	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	12.0369	µg/mL	Unstressed
	Purity 99%				+/-	19.1566	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,006.6	µg/mL	+/-	5.8525	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBH6379)			+/-	12.0330	µg/mL	Unstressed
	Purity 99%				+/-	19.1503	µg/mL	Stressed
14	2,2'-oxybis(1-chloropropane)		1,006.5	µg/mL	+/-	5.8517	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 11885400)			+/-	12.0314	µg/mL	Unstressed
	Purity 99%				+/-	19.1477	µg/mL	Stressed
15	Acetophenone		1,005.0	µg/mL	+/-	5.8432	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot STBH8205)			+/-	12.0138	µg/mL	Unstressed
	Purity 99%				+/-	19.1198	µg/mL	Stressed
16	3-Methylphenol (m-cresol)		502.0	µg/mL	+/-	2.9254	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot STBJ0710)			+/-	6.0042	µg/mL	Unstressed
	Purity 99%				+/-	9.5525	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		503.9	µg/mL	+/-	2.9367	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot SHBN1151)			+/-	6.0273	µg/mL	Unstressed
	Purity 99%				+/-	9.5893	µg/mL	Stressed
18	N-Nitroso-di-n-propylamine		1,007.8	µg/mL	+/-	5.8594	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot 2D5VJ)			+/-	12.0473	µg/mL	Unstressed
	Purity 99%				+/-	19.1731	µg/mL	Stressed
19	Hexachloroethane		1,008.6	µg/mL	+/-	5.8641	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot QTORH)			+/-	12.0569	µg/mL	Unstressed
	Purity 99%				+/-	19.1883	µg/mL	Stressed
20	Nitrobenzene		1,001.5	µg/mL	+/-	5.8230	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 10224044)			+/-	11.9724	µg/mL	Unstressed
	Purity 99%				+/-	19.0539	µg/mL	Stressed
21	Isophorone		1,005.6	µg/mL	+/-	5.8466	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot MKCC9506)			+/-	12.0210	µg/mL	Unstressed
	Purity 99%				+/-	19.1312	µg/mL	Stressed
22	2-Nitrophenol		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCCB2407)			+/-	12.0306	µg/mL	Unstressed
	Purity 99%				+/-	19.1465	µg/mL	Stressed
23	2,4-Dimethylphenol		1,007.9	µg/mL	+/-	5.8598	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot B2L4B)			+/-	12.0481	µg/mL	Unstressed
	Purity 99%				+/-	19.1744	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 Purity 99%	(Lot 11955500)	1,008.2 µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol CAS # 120-83-2 Purity 99%	(Lot BCBZ6787)	1,001.5 µg/mL	+/- 5.8230 +/- 11.9724 +/- 19.0539	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBM0526)	1,008.2 µg/mL	+/- 5.8618 +/- 12.0521 +/- 19.1807	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKCH0219)	1,006.8 µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol CAS # 87-65-0 Purity 99%	(Lot MKCK2863)	1,001.3 µg/mL	+/- 5.8218 +/- 11.9700 +/- 19.0501	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline CAS # 106-47-8 Purity 99%	(Lot BCBJ1580V)	1,005.7 µg/mL	+/- 5.8470 +/- 12.0218 +/- 19.1325	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot X05J)	1,005.3 µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	4-Chloro-3-methylphenol CAS # 59-50-7 Purity 99%	(Lot BCCD4461)	1,004.7 µg/mL	+/- 5.8416 +/- 12.0106 +/- 19.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBK0259)	1,004.8 µg/mL	+/- 5.8420 +/- 12.0114 +/- 19.1160	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 5234.00-3)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3 Purity 99%	(Lot MKCG5992)	1,004.0 µg/mL	+/- 5.8373 +/- 12.0019 +/- 19.1008	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 99%	(Lot 0012020)	1,006.9 µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2 Purity 99%	(Lot STBJ5914)	1,006.5 µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4 Purity 98%	(Lot FHN01)	1,005.4 µg/mL	+/- 5.8456 +/- 12.0188 +/- 19.1277	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene CAS # 91-58-7 Purity 99%	(Lot TWYRD)	1,007.5 µg/mL	+/- 5.8579 +/- 12.0441 +/- 19.1680	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl CAS # 92-52-4 Purity 99%	(Lot MKCJ6240)	1,001.7 µg/mL	+/- 5.8242 +/- 11.9748 +/- 19.0577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Nitroaniline CAS # 88-74-4 Purity 99%	(Lot MKCJ8895)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene CAS # 208-96-8 Purity 98%	(Lot P06V)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene CAS # 99-65-0 Purity 99%	(Lot 1-DXX-24-1)	1,002.9 µg/mL	+/- 5.8311 +/- 11.9891 +/- 19.0805	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate CAS # 131-11-3 Purity 99%	(Lot 10117699)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99%	(Lot BCBB8606)	1,004.3 µg/mL	+/- 5.8389 +/- 12.0051 +/- 19.1059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	3-Nitroaniline CAS # 99-09-2 Purity 99%	(Lot MKCH5457)	1,006.1 µg/mL	+/- 5.8497 +/- 12.0274 +/- 19.1414	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	Acenaphthene CAS # 83-32-9 Purity 99%	(Lot MKCN0610)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,4-Dinitrophenol CAS # 51-28-5 Purity 99%	(Lot STBK2447-DR)	2,011.9 µg/mL	+/- 11.6976 +/- 24.0508 +/- 38.2764	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Dibenzofuran CAS # 132-64-9 Purity 99%	(Lot MKCNI772)	1,005.0 µg/mL	+/- 5.8432 +/- 12.0138 +/- 19.1198	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	4-Nitrophenol CAS # 100-02-7 Purity 99%	(Lot MKCF6111)	2,017.1 µg/mL	+/- 11.7278 +/- 24.1129 +/- 38.3754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	2,4-Dinitrotoluene CAS # 121-14-2 Purity 99%	(Lot MKAA0690V)	1,008.9 µg/mL	+/- 5.8660 +/- 12.0609 +/- 19.1947	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol CAS # 58-90-2 Purity 99%	(Lot PR-30126)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene CAS # 86-73-7 Purity 99%	(Lot 094650L18G)	1,005.3 µg/mL	+/- 5.8451 +/- 12.0178 +/- 19.1262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	(Lot SHBM4146)	1,004.7 µg/mL	+/- 5.8414 +/- 12.0102 +/- 19.1141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diethylphthalate CAS # 84-66-2 Purity 99%	(Lot BCCD3396)	1,003.7 µg/mL	+/- 5.8358 +/- 11.9987 +/- 19.0957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	4-Chlorophenyl phenyl ether CAS # 7005-72-3 Purity 99%	(Lot MKCN1186)	1,004.9 µg/mL	+/- 5.8428 +/- 12.0130 +/- 19.1186	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Nitroaniline CAS # 100-01-6 Purity 99%	(Lot RP210713)	1,009.2 µg/mL	+/- 5.8676 +/- 12.0640 +/- 19.1997	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1 Purity 99%	(Lot RP211130)	2,013.0 µg/mL	+/- 11.7038 +/- 24.0635 +/- 38.2967	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Diphenylamine CAS # 122-39-4 Purity 99%	(Lot MKCH1042)	853.1 µg/mL	+/- 4.9598 +/- 10.1976 +/- 16.2293	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Azobenzene CAS # 103-33-3 Purity 99%	(Lot BCCC9136)	1,004.7 µg/mL	+/- 5.8412 +/- 12.0098 +/- 19.1135	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3 Purity 99%	(Lot STBB9729V)	1,007.8 µg/mL	+/- 5.8594 +/- 12.0473 +/- 19.1731	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1 Purity 99%	(Lot 12549300)	1,007.1 µg/mL	+/- 5.8556 +/- 12.0393 +/- 19.1604	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 210706RSR)	2,008.2 µg/mL	+/- 11.6758 +/- 24.0061 +/- 38.2054	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	1,006.0 µg/mL	+/- 5.8491 +/- 12.0260 +/- 19.1392	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Phenanthrene CAS # 85-01-8 Purity 99%	(Lot MKCL7390)	1,002.7 µg/mL	+/- 5.8296 +/- 11.9859 +/- 19.0754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKCN0922)	1,008.1 µg/mL	+/- 5.8610 +/- 12.0505 +/- 19.1782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8 Purity 99%	(Lot 12549400)	1,007.7 µg/mL	+/- 5.8587 +/- 12.0457 +/- 19.1706	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2 Purity 99%	(Lot MKCL9573)	1,008.4 µg/mL	+/- 5.8629 +/- 12.0545 +/- 19.1845	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0 Purity 99%	(Lot MKCQ4728)	1,002.8 µg/mL	+/- 5.8304 +/- 11.9875 +/- 19.0780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCCB9880)	1,006.9 µg/mL	+/- 5.8540 +/- 12.0361 +/- 19.1553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7 Purity 99%	(Lot MKCM1987)	1,006.8 µg/mL	+/- 5.8536 +/- 12.0353 +/- 19.1541	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3 Purity 96%	(Lot RP210125)	1,002.5 µg/mL	+/- 5.8286 +/- 11.9839 +/- 19.0722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Chrysene CAS # 218-01-9 Purity 99%	(Lot STBK3173)	1,006.0 µg/mL	+/- 5.8490 +/- 12.0258 +/- 19.1389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Bis(2-ethylhexyl)phthalate CAS # 117-81-7 Purity 99%	(Lot MKCJ1159)	1,009.1 µg/mL	+/- 5.8668 +/- 12.0624 +/- 19.1972	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Di-n-octyl phthalate CAS # 117-84-0 Purity 99%	(Lot 11651800)	1,003.9 µg/mL	+/- 5.8370 +/- 12.0011 +/- 19.0995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Benzo(b)fluoranthene CAS # 205-99-2 Purity 99%	(Lot 012021)	1,004.6 µg/mL	+/- 5.8408 +/- 12.0091 +/- 19.1122	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(k)fluoranthene CAS # 207-08-9 Purity 99%	(Lot 012019K)	1,007.5 µg/mL	+/- 5.8575 +/- 12.0433 +/- 19.1668	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
77	Benzo(a)pyrene CAS # 50-32-8 Purity 99%	(Lot Z8BKF)	1,003.4 µg/mL	+/- 5.8339 +/- 11.9947 +/- 19.0894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
78	Indeno(1,2,3-cd)pyrene CAS # 193-39-5 Purity 99%	(Lot 1-RAK-33-4)	1,006.5 µg/mL	+/- 5.8517 +/- 12.0314 +/- 19.1477	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
79	Dibenz(a,h)anthracene CAS # 53-70-3 Purity 99%	(Lot ER032211-01)	1,006.1 µg/mL	+/- 5.8494 +/- 12.0266 +/- 19.1401	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
80	Benzo(g,h,i)perylene CAS # 191-24-2 Purity 98%	(Lot AVUAD)	1,003.7 µg/mL	+/- 5.8357 +/- 11.9985 +/- 19.0954	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%					

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.

N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

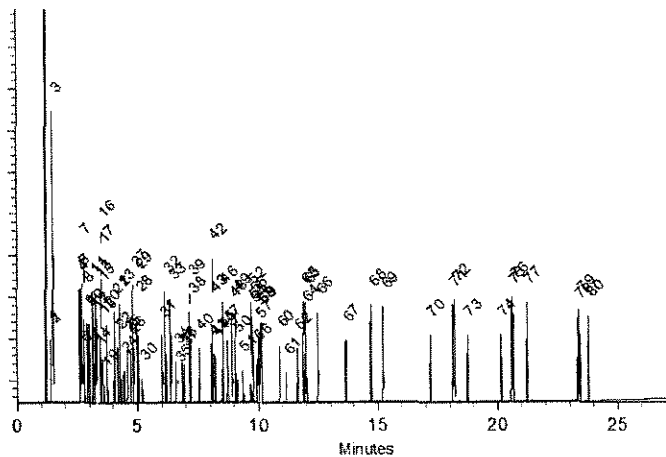
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 16-Dec-2021 Balance: 1128360905


John Lidgett - AD Chemist

Date Passed: 31-Jan-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 S10_00008



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0173787

Description : 8270 List 1 / Std #10
8270 List 1 / Std #10 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Indene	2,011.6 µg/mL (Lot DMKCB7043-1211)	+/-	11.6957	µg/mL	Gravimetric
	CAS # 95-13-6		+/-	112.7892	µg/mL	Unstressed
	Purity 98%		+/-	115.4283	µg/mL	Stressed
2	Benzoic acid	2,018.2 µg/mL (Lot MKCG6487)	+/-	11.7340	µg/mL	Gravimetric
	CAS # 65-85-0		+/-	113.1585	µg/mL	Unstressed
	Purity 99%		+/-	115.8062	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

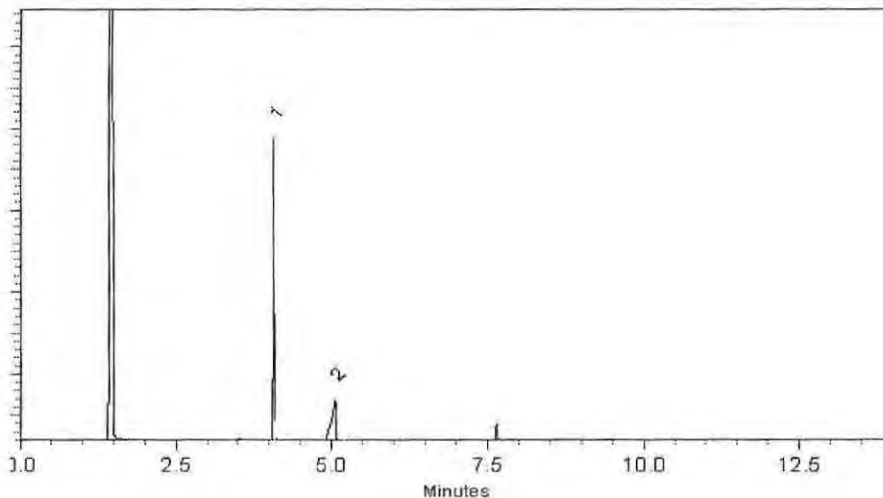
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 24-Jun-2021 Balance: 1128360905

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 28-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 S11_00011



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0172244

Description : 8270 List 1 / Std #11
8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Benzaldehyde	2,015.7 µg/mL (Lot RD210106)	+/-	11.7193	µg/mL	Gravimetric
	CAS # 100-52-7		+/-	40.2434	µg/mL	Unstressed
	Purity 99%		+/-	90.3286	µg/mL	Stressed
2	epsilon-Caprolactam	2,008.5 µg/mL (Lot I16X016)	+/-	11.6776	µg/mL	Gravimetric
	CAS # 105-60-2		+/-	40.1003	µg/mL	Unstressed
	Purity 99%		+/-	90.0074	µg/mL	Stressed
3	Atrazine	2,008.5 µg/mL (Lot PI8FG)	+/-	11.6776	µg/mL	Gravimetric
	CAS # 1912-24-9		+/-	40.1003	µg/mL	Unstressed
	Purity 99%		+/-	90.0074	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

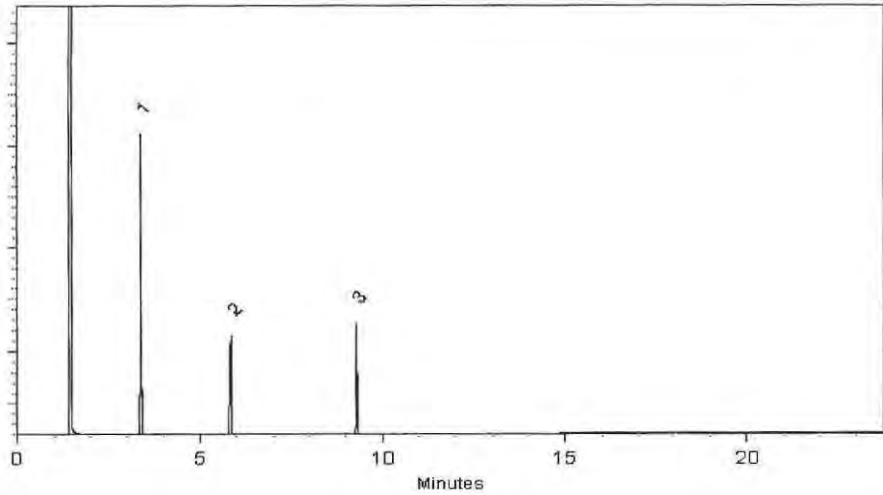
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 11-May-2021 **Balance:** 1128360905

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 12-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 S9_00009



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 Lot No.: A0181121

Description : 8270 List 1 / Std #9
8270 List 1 / Std #9 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL Pkg Amt: > 5 mL

Expiration Date : July 31, 2023 Storage: 10°C or colder

Handling: Contains carcinogen/reproductive toxin. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Benzidine	2,010.0 µg/mL (Lot 211228JLM)	+/-	11.6863	µg/mL	Gravimetric
	CAS # 92-87-5		+/-	24.0277	µg/mL	Unstressed
	Purity 99%		+/-	38.2397	µg/mL	Stressed
2	3,3'-Dichlorobenzidine	2,000.0 µg/mL (Lot 220202JLM)	+/-	11.6281	µg/mL	Gravimetric
	CAS # 91-94-1		+/-	23.9079	µg/mL	Unstressed
	Purity 98%		+/-	38.0491	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

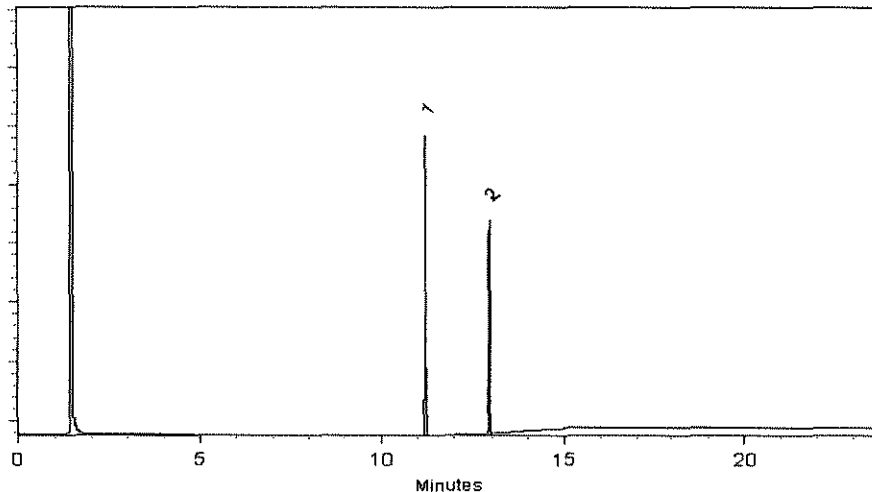
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

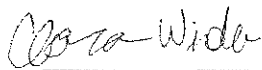
Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 27-Jan-2022 Balance: 1122030677


Clara Windle - Operations Technician I

Date Passed: 17-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 SS S1_00012



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995.SEC **Lot No.:** A0169665
Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul
Container Size : 10 mL **Pkg Amt:** > 5 mL
Expiration Date : September 30, 2022 **Storage:** 0°C or colder
Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane	1,000.8 µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 123-91-1.SEC (Lot KLE2K)		+/-	11.9702	µg/mL	Unstressed
	Purity 99%		+/-	19.0440	µg/mL	Stressed
2	N-Nitrosodimethylamine	1,003.6 µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 62-75-9.SEC (Lot 71L89)		+/-	12.0037	µg/mL	Unstressed
	Purity 99%		+/-	19.0973	µg/mL	Stressed
3	Pyridine	2,001.0 µg/mL	+/-	11.6340	µg/mL	Gravimetric
	CAS # 110-86-1.SEC (Lot QN8DK)		+/-	23.9201	µg/mL	Unstressed
	Purity 99%		+/-	38.0684	µg/mL	Stressed
4	Phenol	1,003.0 µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 108-95-2.SEC (Lot EDPYN)		+/-	11.9965	µg/mL	Unstressed
	Purity 99%		+/-	19.0859	µg/mL	Stressed
5	Aniline	1,005.2 µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 62-53-3.SEC (Lot ZCD3N)		+/-	12.0228	µg/mL	Unstressed
	Purity 99%		+/-	19.1278	µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,005.4 µg/mL	+/-	5.8590	µg/mL	Gravimetric
	CAS # 111-44-4.SEC (Lot FA010143)		+/-	12.0252	µg/mL	Unstressed
	Purity 99%		+/-	19.1316	µg/mL	Stressed
7	n-Decane (C10)	1,004.2 µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS # 124-18-5.SEC (Lot UCVNN)		+/-	12.0108	µg/mL	Unstressed
	Purity 99%		+/-	19.1087	µg/mL	Stressed

8	2-Chlorophenol CAS # 95-57-8.SEC Purity 99%	(Lot GJ01)	1,000.2 µg/mL	+/- 5.8287 +/- 11.9630 +/- 19.0326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot ZA2ZI)	1,003.0 µg/mL	+/- 5.8450 +/- 11.9965 +/- 19.0859	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot J5GVD)	1,001.4 µg/mL	+/- 5.8357 +/- 11.9773 +/- 19.0555	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benzyl alcohol CAS # 100-51-6.SEC Purity 99%	(Lot QZBUO)	1,001.6 µg/mL	+/- 5.8368 +/- 11.9797 +/- 19.0593	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot R6QDM)	1,001.6 µg/mL	+/- 5.8368 +/- 11.9797 +/- 19.0593	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	2-Methylphenol (o-cresol) CAS # 95-48-7.SEC Purity 99%	(Lot NC7HL)	1,006.6 µg/mL	+/- 5.8660 +/- 12.0395 +/- 19.1544	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	2,2'-oxybis(1-chloropropane) CAS # 108-60-1.SEC Purity 99%	(Lot 2-KMW-57-8)	1,003.6 µg/mL	+/- 5.8485 +/- 12.0037 +/- 19.0973	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Acetophenone CAS # 98-86-2.SEC Purity 99%	(Lot NSGT1)	1,000.4 µg/mL	+/- 5.8299 +/- 11.9654 +/- 19.0364	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	3-Methylphenol (m-cresol) CAS # 108-39-4.SEC Purity 99%	(Lot 6LHTM)	500.4 µg/mL	+/- 2.9161 +/- 5.9851 +/- 9.5220	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	4-Methylphenol (p-cresol) CAS # 106-44-5.SEC Purity 99%	(Lot 65S2E)	502.2 µg/mL	+/- 2.9266 +/- 6.0066 +/- 9.5563	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	N-Nitroso-di-n-propylamine CAS # 621-64-7.SEC Purity 99%	(Lot 9566100)	1,002.0 µg/mL	+/- 5.8392 +/- 11.9845 +/- 19.0669	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Hexachloroethane CAS # 67-72-1.SEC Purity 99%	(Lot 10173016)	1,005.2 µg/mL	+/- 5.8578 +/- 12.0228 +/- 19.1278	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Nitrobenzene CAS # 98-95-3.SEC Purity 99%	(Lot FLYIG)	1,000.0 µg/mL	+/- 5.8275 +/- 11.9606 +/- 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Isophorone CAS # 78-59-1.SEC Purity 98%	(Lot XHGJI)	999.6 µg/mL	+/- 5.8252 +/- 11.9558 +/- 19.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2-Nitrophenol CAS # 88-75-5.SEC Purity 99%	(Lot GXJ7J)	1,003.2 µg/mL	+/- 5.8462 +/- 11.9989 +/- 19.0897	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	2,4-Dimethylphenol CAS # 105-67-9.SEC Purity 99%	(Lot MKBL3650V)	1,000.6 µg/mL	+/- 5.8310 +/- 11.9678 +/- 19.0402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 * Purity 99%	(Lot 9890600)	1,000.8	µg/mL	+/-	5.8322 11.9702 19.0440	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol CAS # 120-83-2.SEC Purity 99%	(Lot FHM01)	1,002.2	µg/mL	+/-	5.8403 11.9869 19.0707	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot IGLFA)	1,001.6	µg/mL	+/-	5.8368 11.9797 19.0593	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot AM5NG)	1,000.0	µg/mL	+/-	5.8275 11.9606 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol CAS # 87-65-0.SEC Purity 99%	(Lot SIDBB)	1,000.6	µg/mL	+/-	5.8310 11.9678 19.0402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline CAS # 106-47-8.SEC Purity 99%	(Lot 10171860)	1,003.4	µg/mL	+/-	5.8473 12.0013 19.0935	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 97%	(Lot 11135200)	999.9	µg/mL	+/-	5.8268 11.9591 19.0265	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	4-Chloro-3-methylphenol CAS # 59-50-7.SEC Purity 99%	(Lot FDO02)	1,001.0	µg/mL	+/-	5.8333 11.9726 19.0478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2-Methylnaphthalene CAS # 91-57-6.SEC Purity 99%	(Lot 76023-1)	1,000.4	µg/mL	+/-	5.8299 11.9654 19.0364	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene CAS # 90-12-0.SEC Purity 98%	(Lot OEE3F)	999.8	µg/mL	+/-	5.8263 11.9582 19.0249	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3.SEC Purity 99%	(Lot AF02)	1,004.8	µg/mL	+/-	5.8555 12.0180 19.1202	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4.SEC Purity 99%	(Lot 9707900)	1,000.0	µg/mL	+/-	5.8275 11.9606 19.0288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2.SEC Purity 99%	(Lot UUMYM)	1,002.6	µg/mL	+/-	5.8427 11.9917 19.0783	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4.SEC Purity 97%	(Lot MKBQ9937V)	1,005.3	µg/mL	+/-	5.8585 12.0241 19.1298	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene CAS # 91-58-7.SEC Purity 99%	(Lot 9711100)	1,005.0	µg/mL	+/-	5.8567 12.0204 19.1240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl CAS # 92-52-4.SEC Purity 99%	(Lot 330QE)	1,000.2	µg/mL	+/-	5.8287 11.9630 19.0326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Nitroaniline		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
41	Acenaphthylene		1,000.7	µg/mL	+/-	5.8316	µg/mL	Gravimetric
	CAS # 208-96-8.SEC	(Lot 0012014)			+/-	11.9690	µg/mL	Unstressed
	Purity 96%				+/-	19.0422	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 99-65-0.SEC	(Lot 3XXLB)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
43	Dimethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 131-11-3.SEC	(Lot 483WC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 606-20-2.SEC	(Lot GE01)			+/-	12.0228	µg/mL	Unstressed
	Purity 99%				+/-	19.1278	µg/mL	Stressed
45	3-Nitroaniline		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 99-09-2.SEC	(Lot FGN03)			+/-	11.9893	µg/mL	Unstressed
	Purity 99%				+/-	19.0745	µg/mL	Stressed
46	Acenaphthene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 83-32-9.SEC	(Lot BWZJE)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
47	2,4-Dinitrophenol		2,005.3	µg/mL	+/-	11.6588	µg/mL	Gravimetric
	CAS # 51-28-5.SEC	(Lot YTR6B)			+/-	23.9712	µg/mL	Unstressed
	Purity 98%				+/-	38.1498	µg/mL	Stressed
48	Dibenzofuran		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 132-64-9.SEC	(Lot 27ZGC)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
49	4-Nitrophenol		2,005.6	µg/mL	+/-	11.6607	µg/mL	Gravimetric
	CAS # 100-02-7.SEC	(Lot H75QG)			+/-	23.9751	µg/mL	Unstressed
	Purity 99%				+/-	38.1560	µg/mL	Stressed
50	2,4-Dinitrotoluene		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 121-14-2.SEC	(Lot SHRSA)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 58-90-2.SEC	(Lot LRAC4175)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
52	Fluorene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 86-73-7.SEC	(Lot 10342200)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
53	n-Hexadecane (C16)		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 544-76-3.SEC	(Lot A0328141)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
54	Diethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 84-66-2.SEC	(Lot UMBJC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
55	4-Chlorophenyl phenyl ether		1,000.4	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC	(Lot P31G)			+/-	11.9652	µg/mL	Unstressed
	Purity 98%				+/-	19.0361	µg/mL	Stressed

56	4-Nitroaniline		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS #	100-01-6.SEC	(Lot 5ITRC)		+/-	11.9845	µg/mL	Unstressed
	Purity	99%			+/-	19.0669	µg/mL	Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.4	µg/mL	+/-	11.6828	µg/mL	Gravimetric
	CAS #	534-52-1.SEC	(Lot DR11288300)		+/-	24.0205	µg/mL	Unstressed
	Purity	99%			+/-	38.2283	µg/mL	Stressed
58	Diphenylamine		851.0	µg/mL	+/-	4.9592	µg/mL	Gravimetric
	CAS #	122-39-4.SEC	(Lot 10164691)		+/-	10.1785	µg/mL	Unstressed
	Purity	99%			+/-	16.1935	µg/mL	Stressed
59	Azobenzene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS #	103-33-3.SEC	(Lot JUWAG)		+/-	11.9654	µg/mL	Unstressed
	Purity	99%			+/-	19.0364	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS #	101-55-3.SEC	(Lot 84C6D)		+/-	11.9773	µg/mL	Unstressed
	Purity	99%			+/-	19.0555	µg/mL	Stressed
61	Hexachlorobenzene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS #	118-74-1.SEC	(Lot G137934)		+/-	11.9726	µg/mL	Unstressed
	Purity	99%			+/-	19.0478	µg/mL	Stressed
62	Pentachlorophenol		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS #	87-86-5.SEC	(Lot 8636800)		+/-	23.9320	µg/mL	Unstressed
	Purity	99%			+/-	38.0875	µg/mL	Stressed
63	n-Octadecane (C18)		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS #	593-45-3.SEC	(Lot G14U045)		+/-	12.0180	µg/mL	Unstressed
	Purity	99%			+/-	19.1202	µg/mL	Stressed
64	Phenanthrene		1,004.3	µg/mL	+/-	5.8526	µg/mL	Gravimetric
	CAS #	85-01-8.SEC	(Lot 8637000)		+/-	12.0121	µg/mL	Unstressed
	Purity	98%			+/-	19.1107	µg/mL	Stressed
65	Anthracene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS #	120-12-7.SEC	(Lot WDFNJ)		+/-	11.9965	µg/mL	Unstressed
	Purity	99%			+/-	19.0859	µg/mL	Stressed
66	Carbazole		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS #	86-74-8.SEC	(Lot 7MR7O)		+/-	12.0180	µg/mL	Unstressed
	Purity	99%			+/-	19.1202	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS #	84-74-2.SEC	(Lot 42FSG)		+/-	11.9773	µg/mL	Unstressed
	Purity	99%			+/-	19.0555	µg/mL	Stressed
68	Fluoranthene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS #	206-44-0.SEC	(Lot FREGF)		+/-	11.9989	µg/mL	Unstressed
	Purity	99%			+/-	19.0897	µg/mL	Stressed
69	Pyrene		1,004.2	µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS #	129-00-0.SEC	(Lot ROVJC)		+/-	12.0108	µg/mL	Unstressed
	Purity	99%			+/-	19.1087	µg/mL	Stressed
70	Benzyl butyl phthalate		1,006.9	µg/mL	+/-	5.8675	µg/mL	Gravimetric
	CAS #	85-68-7.SEC	(Lot GX3GL)		+/-	12.0426	µg/mL	Unstressed
	Purity	98%			+/-	19.1592	µg/mL	Stressed
71	Benz(a)anthracene		1,002.3	µg/mL	+/-	5.8412	µg/mL	Gravimetric
	CAS #	56-55-3.SEC	(Lot MTENF)		+/-	11.9886	µg/mL	Unstressed
	Purity	98%			+/-	19.0734	µg/mL	Stressed

72	chrysene			1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS #	218-01-9.SEC	(Lot NICZC)			+/-	12.0084	µg/mL	Unstressed
	Purity	99%				+/-	19.1049	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate			1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS #	117-81-7.SEC	(Lot MT8AG)			+/-	11.9821	µg/mL	Unstressed
	Purity	99%				+/-	19.0631	µg/mL	Stressed
74	Di-n-octyl phthalate			1,003.4	µg/mL	+/-	5.8473	µg/mL	Gravimetric
	CAS #	117-84-0.SEC	(Lot O8DLD)			+/-	12.0013	µg/mL	Unstressed
	Purity	99%				+/-	19.0935	µg/mL	Stressed
75	Benzo(b)fluoranthene			1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS #	205-99-2.SEC	(Lot I4OWH)			+/-	12.0037	µg/mL	Unstressed
	Purity	99%				+/-	19.0973	µg/mL	Stressed
76	Benzo(k)fluoranthene			1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS #	207-08-9.SEC	(Lot 11288200)			+/-	12.0084	µg/mL	Unstressed
	Purity	99%				+/-	19.1049	µg/mL	Stressed
77	Benzo(a)pyrene			1,004.6	µg/mL	+/-	5.8543	µg/mL	Gravimetric
	CAS #	50-32-8.SEC	(Lot SLCD4874)			+/-	12.0156	µg/mL	Unstressed
	Purity	99%				+/-	19.1164	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene			1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS #	193-39-5.SEC	(Lot 022015)			+/-	11.9678	µg/mL	Unstressed
	Purity	99%				+/-	19.0402	µg/mL	Stressed
79	Dibenz(a,h)anthracene			1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS #	53-70-3.SEC	(Lot 0012011)			+/-	11.9654	µg/mL	Unstressed
	Purity	99%				+/-	19.0364	µg/mL	Stressed
80	Benzo(g,h,i)perylene			1,005.3	µg/mL	+/-	5.8585	µg/mL	Gravimetric
	CAS #	191-24-2.SEC	(Lot 0022012)			+/-	12.0241	µg/mL	Unstressed
	Purity	96%				+/-	19.1299	µg/mL	Stressed
Solvent:	Methylene chloride								
	CAS #	75-09-2							
	Purity	99%							

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL. N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine. N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

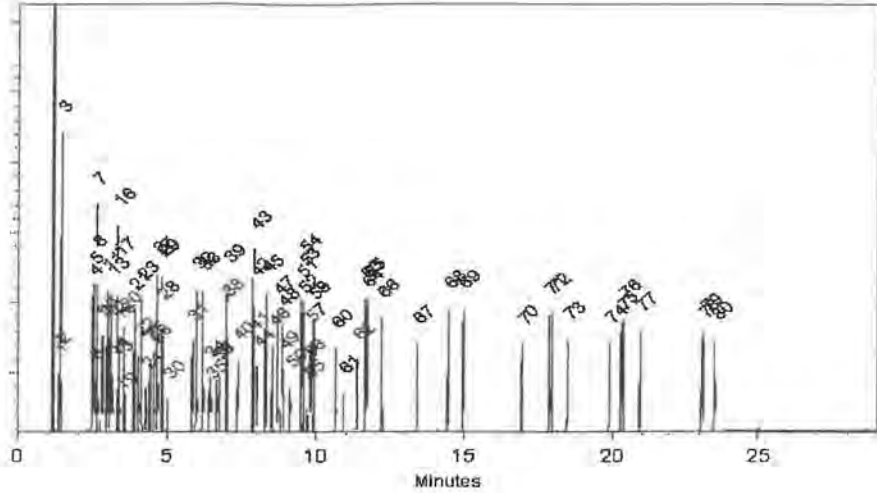
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

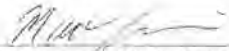
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 02-Mar-2021 Balance: 1128342314


Marlene Cowan - Operations Tech I

Date Passed: 11-Mar-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

SMLIST1 SURR_00016



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0141581

Description : 8270 Surrogate Standard
8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2023 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	5,002.0 µg/mL	+/- 29.0821	µg/mL	Gravimetric	
			+/- 145.9751	µg/mL	Unstressed	
			+/- 177.1352	µg/mL	Stressed	
2	Phenol-d5 CAS # 4165-62-2 Purity 99% (Lot CD-105)	5,000.6 µg/mL	+/- 29.0739	µg/mL	Gravimetric	
			+/- 145.9343	µg/mL	Unstressed	
			+/- 177.0856	µg/mL	Stressed	
3	Nitrobenzene-d5 CAS # 4165-60-0 Purity 99% (Lot PR-29603)	5,006.0 µg/mL	+/- 29.1053	µg/mL	Gravimetric	
			+/- 146.0919	µg/mL	Unstressed	
			+/- 177.2768	µg/mL	Stressed	
4	2-Fluorobiphenyl CAS # 321-60-8 Purity 99% (Lot M09E045)	5,000.8 µg/mL	+/- 29.0751	µg/mL	Gravimetric	
			+/- 145.9401	µg/mL	Unstressed	
			+/- 177.0927	µg/mL	Stressed	
5	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot 29699MJV)	5,000.8 µg/mL	+/- 29.0751	µg/mL	Gravimetric	
			+/- 145.9401	µg/mL	Unstressed	
			+/- 177.0927	µg/mL	Stressed	
6	p-Terphenyl-d14 CAS # 1718-51-0 Purity 99% (Lot PR-21037)	5,001.0 µg/mL	+/- 29.0762	µg/mL	Gravimetric	
			+/- 145.9459	µg/mL	Unstressed	
			+/- 177.0998	µg/mL	Stressed	

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

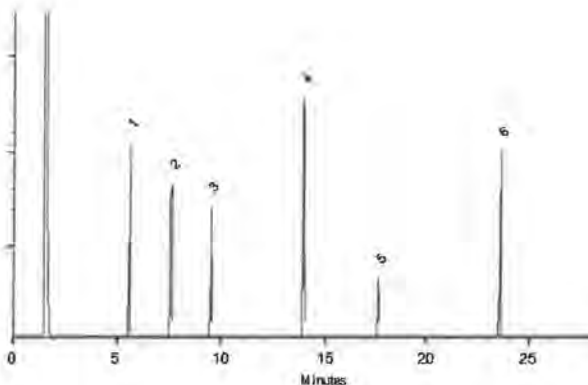
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


F. Joseph Tallon - Mix Technician

Date Mixed: 14-Sep-2018

Balance: B442140311


Justine Albertson - Operations Tech-AMM GC

Date Passed: 18-Sep-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 SURR_00017



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0172807

Description : 8270 Surrogate Standard
8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Fluorophenol	5,004.6 µg/mL	+/-	29.0972	µg/mL	Gravimetric
	CAS # 367-12-4 (Lot STBJ2508)		+/-	146.0510	µg/mL	Unstressed
	Purity 99%		+/-	177.2273	µg/mL	Stressed
2	Phenol-d5	5,011.4 µg/mL	+/-	29.1367	µg/mL	Gravimetric
	CAS # 4165-62-2 (Lot CD-105)		+/-	146.2494	µg/mL	Unstressed
	Purity 99%		+/-	177.4681	µg/mL	Stressed
3	Nitrobenzene-d5	5,003.0 µg/mL	+/-	29.0879	µg/mL	Gravimetric
	CAS # 4165-60-0 (Lot PR-29940B)		+/-	146.0043	µg/mL	Unstressed
	Purity 99%		+/-	177.1706	µg/mL	Stressed
4	2-Fluorobiphenyl	5,010.2 µg/mL	+/-	29.1297	µg/mL	Gravimetric
	CAS # 321-60-8 (Lot 00019169)		+/-	146.2144	µg/mL	Unstressed
	Purity 99%		+/-	177.4256	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,003.9 µg/mL	+/-	29.0931	µg/mL	Gravimetric
	CAS # 118-79-6 (Lot MKCJ7664)		+/-	146.0306	µg/mL	Unstressed
	Purity 99%		+/-	177.2025	µg/mL	Stressed
6	p-Terphenyl-d14	5,013.8 µg/mL	+/-	29.1507	µg/mL	Gravimetric
	CAS # 1718-51-0 (Lot PR-30504)		+/-	146.3195	µg/mL	Unstressed
	Purity 99%		+/-	177.5531	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

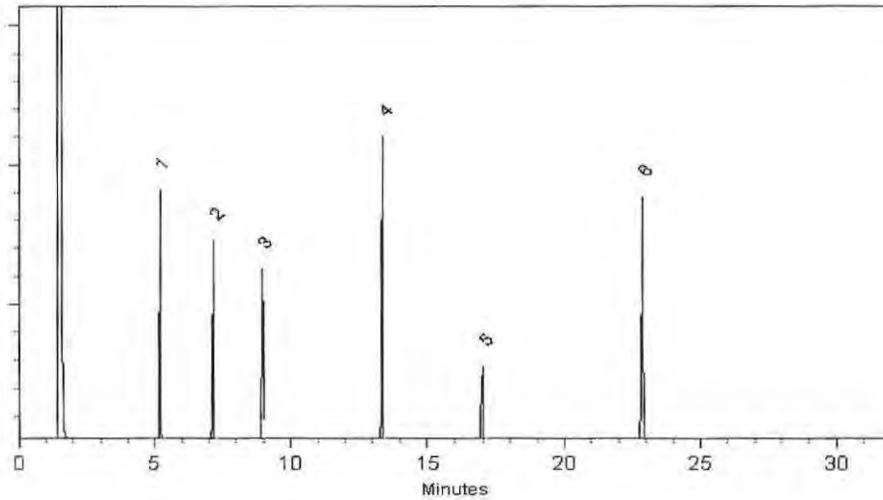
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 27-May-2021 **Balance:** 1128360905

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 28-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
B-1 (6'-8')	500-221506-1	107	111	93	96
B-2 (2'-4')	500-221506-2	111	113	93	96
B-3 (22'-23.5')	500-221506-3	110	113	92	97
B-4 (20'-22')	500-221506-4	105	103	93	97
B-5 (8'-10')	500-221506-5	107	112	92	96
B-6 (30'-32')	500-221506-6	107	105	94	98
Dup-1	500-221506-8	111	112	94	95
	MB 500-673135/6	110	108	96	95
	LCS 500-673135/4	101	98	95	92
B-5 (8'-10') MS	500-221506-5 MS	100	104	97	94
B-5 (8'-10') MSD	500-221506-5 MSD	102	100	96	93

DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
 75-126
 70-134
 75-124
 75-131

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Medium
 GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
B-1 (6'-8') DL	500-221506-1 DL	102	101	96	109
	MB 500-673569/7	100	100	97	109
	LCS 500-673569/5	96	95	98	106

DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
 75-120
 75-126
 75-120
 72-124

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
Trip Blank	500-221506-7	90	103	92	104
	MB 500-673843/6	92	105	91	102
	LCS 500-673843/8	94	102	90	105

DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-120
75-126
75-120
72-124

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 16S0905.D
 Lab ID: LCS 500-673135/4 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Acetone	0.0500	0.0517	103	40-150	
Benzene	0.0500	0.0500	100	70-125	
Bromoform	0.0500	0.0541	108	68-136	
Bromomethane	0.0500	0.0474	95	70-130	
2-Butanone (MEK)	0.0500	0.0508	102	47-138	
Carbon disulfide	0.0500	0.0479	96	70-129	
Carbon tetrachloride	0.0500	0.0562	112	75-125	
Chlorobenzene	0.0500	0.0548	110	50-150	
Chlorodibromomethane	0.0500	0.0532	106	69-125	
Chloroethane	0.0500	0.0509	102	75-125	
Chloroform	0.0500	0.0532	106	57-135	
Chloromethane	0.0500	0.0503	101	70-125	
cis-1,2-Dichloroethene	0.0500	0.0517	103	70-125	
cis-1,3-Dichloropropene	0.0500	0.0461	92	70-125	
Cyclohexane	0.0500	0.0514	103	70-125	
Dichlorobromomethane	0.0500	0.0513	103	67-129	
1,1-Dichloroethane	0.0500	0.0527	105	70-125	
1,2-Dichloroethane	0.0500	0.0552	110	70-130	
1,1-Dichloroethene	0.0500	0.0499	100	70-120	
1,2-Dichloropropane	0.0500	0.0508	102	70-125	
1,4-Dioxane	1.00	0.851	85	70-137	
Ethylbenzene	0.0500	0.0533	107	61-136	
Ethylene Dibromide	0.0500	0.0501	100	70-125	
2-Hexanone	0.0500	0.0405	81	48-146	
Isopropylbenzene	0.0500	0.0496	99	70-125	
Methyl acetate	0.100	0.0981	98	70-125	
Methylcyclohexane	0.0500	0.0485	97	70-125	
Methylene Chloride	0.0500	0.0484	97	70-126	
methyl isobutyl ketone	0.0500	0.0392	78	50-148	
Methyl tert-butyl ether	0.0500	0.0454	91	50-140	
m-Xylene & p-Xylene	0.0500	0.0533	107	53-147	
o-Xylene	0.0500	0.0527	105	75-125	
Styrene	0.0500	0.0522	104	70-125	
Tetrachloroethene	0.0500	0.0566	113	70-124	
Toluene	0.0500	0.0514	103	70-125	
trans-1,2-Dichloroethene	0.0500	0.0525	105	70-125	
trans-1,3-Dichloropropene	0.0500	0.0457	91	70-125	
1,1,1-Trichloroethane	0.0500	0.0547	109	70-128	
1,1,2-Trichloroethane	0.0500	0.0498	100	70-125	
Trichloroethene	0.0500	0.0537	107	70-125	
Trichlorofluoromethane	0.0500	0.0535	107	70-134	
1,2,4-Trimethylbenzene	0.0500	0.0513	103	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 16S0905.D
 Lab ID: LCS 500-673135/4 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trimethylbenzene	0.0500	0.0507	101	75-122	
Vinyl acetate	0.0500	0.0460	92	40-153	
Vinyl chloride	0.0500	0.0507	101	70-125	
Xylenes, Total	0.100	0.106	106	53-147	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Medium Lab File ID: 29S0908.D
 Lab ID: LCS 500-673569/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Acetone	0.0500	0.0568	114	40-143	
Benzene	0.0500	0.0453	91	70-120	
Bromoform	0.0500	0.0499	100	56-132	
Bromomethane	0.0500	0.0404	81	40-152	
2-Butanone (MEK)	0.0500	0.0551	110	46-144	
Carbon disulfide	0.0500	0.0413	83	66-120	
Carbon tetrachloride	0.0500	0.0489	98	59-133	
Chlorobenzene	0.0500	0.0467	93	70-120	
Chlorodibromomethane	0.0500	0.0483	97	68-125	
Chloroethane	0.0500	0.0313	63	48-136	
Chloroform	0.0500	0.0422	84	70-120	
Chloromethane	0.0500	0.0606	121	56-152	
cis-1,2-Dichloroethene	0.0500	0.0440	88	70-125	
cis-1,3-Dichloropropene	0.0500	0.0462	92	64-127	
Cyclohexane	0.0500	0.0480	96	69-142	
Dichlorobromomethane	0.0500	0.0468	94	69-120	
1,1-Dichloroethane	0.0500	0.0423	85	70-125	
1,2-Dichloroethane	0.0500	0.0457	91	68-127	
1,1-Dichloroethene	0.0500	0.0413	83	67-122	
1,2-Dichloropropane	0.0500	0.0485	97	67-130	
1,4-Dioxane	1.00	0.902	90	70-129	
Ethylbenzene	0.0500	0.0471	94	70-123	
Ethylene Dibromide	0.0500	0.0466	93	70-125	
2-Hexanone	0.0500	0.0476	95	54-146	
Isopropylbenzene	0.0500	0.0483	97	70-126	
Methyl acetate	0.100	0.0891	89	56-150	
Methylcyclohexane	0.0500	0.0483	97	70-120	
Methylene Chloride	0.0500	0.0412	82	69-125	
methyl isobutyl ketone	0.0500	0.0472	94	55-139	
Methyl tert-butyl ether	0.0500	0.0411	82	55-123	
m-Xylene & p-Xylene	0.0500	0.0489	98	70-125	
o-Xylene	0.0500	0.0472	94	70-120	
Styrene	0.0500	0.0475	95	70-120	
Tetrachloroethene	0.0500	0.0545	109	70-128	
Toluene	0.0500	0.0454	91	70-125	
trans-1,2-Dichloroethene	0.0500	0.0422	84	70-125	
trans-1,3-Dichloropropene	0.0500	0.0463	93	62-128	
1,1,1-Trichloroethane	0.0500	0.0462	92	70-125	
1,1,2-Trichloroethane	0.0500	0.0450	90	71-130	
Trichloroethene	0.0500	0.0521	104	70-125	
Trichlorofluoromethane	0.0500	0.0475	95	55-128	
1,2,4-Trimethylbenzene	0.0500	0.0461	92	70-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Medium Lab File ID: 29S0908.D

Lab ID: LCS 500-673569/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trimethylbenzene	0.0500	0.0467	93	70-123	
Vinyl acetate	0.0500	0.0393	79	43-133	
Vinyl chloride	0.0500	0.0578	116	64-126	
Xylenes, Total	0.100	0.0961	96	70-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 1910909a.d

Lab ID: LCS 500-673843/8 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	50.0	48.6	97	40-143	
Benzene	50.0	43.7	87	70-120	
Bromoform	50.0	36.7	73	56-132	
Bromomethane	50.0	35.4	71	40-152	
2-Butanone (MEK)	50.0	47.9	96	46-144	
Carbon disulfide	50.0	39.4	79	66-120	
Carbon tetrachloride	50.0	46.9	94	59-133	
Chlorobenzene	50.0	43.7	87	70-120	
Chlorodibromomethane	50.0	39.6	79	68-125	
Chloroethane	50.0	50.2	100	48-136	
Chloroform	50.0	46.7	93	70-120	
Chloromethane	50.0	46.0	92	56-152	
cis-1,2-Dichloroethene	50.0	43.2	86	70-125	
cis-1,3-Dichloropropene	50.0	42.6	85	64-127	
Cyclohexane	50.0	48.2	96	69-142	
Dichlorobromomethane	50.0	43.3	87	69-120	
1,1-Dichloroethane	50.0	46.3	93	70-125	
1,2-Dichloroethane	50.0	48.8	98	68-127	
1,1-Dichloroethene	50.0	42.1	84	67-122	
1,2-Dichloropropane	50.0	46.3	93	67-130	
1,4-Dioxane	1000	1080	108	70-129	
Ethylbenzene	50.0	42.4	85	70-123	
Ethylene Dibromide	50.0	40.9	82	70-125	
2-Hexanone	50.0	44.0	88	54-146	
Isopropylbenzene	50.0	45.2	90	70-126	
Methyl acetate	100	93.3	93	56-150	
Methylcyclohexane	50.0	44.5	89	70-120	
Methylene Chloride	50.0	40.5	81	69-125	
methyl isobutyl ketone	50.0	43.5	87	55-139	
Methyl tert-butyl ether	50.0	45.8	92	55-123	
m-Xylene & p-Xylene	50.0	43.0	86	70-125	
o-Xylene	50.0	42.7	85	70-120	
Styrene	50.0	42.5	85	70-120	
Tetrachloroethene	50.0	43.8	88	70-128	
Toluene	50.0	44.0	88	70-125	
trans-1,2-Dichloroethene	50.0	43.2	86	70-125	
trans-1,3-Dichloropropene	50.0	42.9	86	62-128	
1,1,1-Trichloroethane	50.0	46.4	93	70-125	
1,1,2-Trichloroethane	50.0	43.6	87	71-130	
Trichloroethene	50.0	46.6	93	70-125	
Trichlorofluoromethane	50.0	50.2	100	55-128	
1,2,4-Trimethylbenzene	50.0	44.8	90	70-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 1910909a.d
 Lab ID: LCS 500-673843/8 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trimethylbenzene	50.0	45.6	91	70-123	
Vinyl acetate	50.0	33.2	66	43-133	
Vinyl chloride	50.0	41.7	83	64-126	
Xylenes, Total	100	85.7	86	70-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: 500-221506-a-5-b ms.D

Lab ID: 500-221506-5 MS

Client ID: B-5 (8'-10') MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Acetone	0.0504	<0.021	0.0591	117	40-150	
Benzene	0.0504	<0.0021	0.0428	85	70-125	
Bromoform	0.0504	<0.0021	0.0492	98	68-136	
Bromomethane	0.0504	<0.0052	0.0440	87	70-130	
2-Butanone (MEK)	0.0504	<0.0052	0.0555	110	47-138	
Carbon disulfide	0.0504	<0.0052	0.0414	82	70-129	
Carbon tetrachloride	0.0504	<0.0021	0.0490	97	75-125	
Chlorobenzene	0.0504	<0.0021	0.0402	80	50-150	
Chlorodibromomethane	0.0504	<0.0021	0.0469	93	69-125	
Chloroethane	0.0504	<0.0052	0.0482	96	75-125	
Chloroform	0.0504	<0.0021	0.0467	93	57-135	
Chloromethane	0.0504	<0.0052	0.0492	97	70-125	
cis-1,2-Dichloroethene	0.0504	<0.0021	0.0441	87	70-125	
cis-1,3-Dichloropropene	0.0504	<0.0021	0.0381	76	70-125	
Cyclohexane	0.0504	<0.0021	0.0452	90	70-125	
Dichlorobromomethane	0.0504	<0.0021	0.0441	87	67-129	
1,1-Dichloroethane	0.0504	<0.0021	0.0475	94	70-125	
1,2-Dichloroethane	0.0504	<0.0052	0.0492	98	70-130	
1,1-Dichloroethene	0.0504	<0.0021	0.0452	90	70-120	
1,2-Dichloropropane	0.0504	<0.0021	0.0453	90	70-125	
1,4-Dioxane	1.01	<0.10	1.98	197	70-137	F1
Ethylbenzene	0.0504	<0.0021	0.0379	75	61-136	
Ethylene Dibromide	0.0504	<0.0021	0.0437	87	70-125	
2-Hexanone	0.0504	<0.0052	0.0473	94	48-146	
Isopropylbenzene	0.0504	<0.0021	0.0342	68	70-125	F1
Methyl acetate	0.101	<0.026	0.113	112	70-125	
Methylcyclohexane	0.0504	<0.0021	0.0405	80	70-125	
Methylene Chloride	0.0504	<0.0052	0.0429	85	70-126	
methyl isobutyl ketone	0.0504	<0.0052	0.0451	90	50-148	
Methyl tert-butyl ether	0.0504	<0.0021	0.0441	88	50-140	
m-Xylene & p-Xylene	0.0504	<0.0041	0.0375	74	53-147	
o-Xylene	0.0504	<0.0021	0.0371	73	75-125	F1
Styrene	0.0504	<0.0021	0.0367	73	70-125	
Tetrachloroethene	0.0504	<0.0021	0.0423	84	70-124	
Toluene	0.0504	<0.0021	0.0410	81	70-125	
trans-1,2-Dichloroethene	0.0504	<0.0021	0.0447	89	70-125	
trans-1,3-Dichloropropene	0.0504	<0.0021	0.0389	77	70-125	
1,1,1-Trichloroethane	0.0504	<0.0021	0.0473	94	70-128	
1,1,2-Trichloroethane	0.0504	<0.0021	0.0473	94	70-125	
Trichloroethene	0.0504	<0.0021	0.0434	86	70-125	
Trichlorofluoromethane	0.0504	<0.0052	0.0499	99	70-134	
1,2,4-Trimethylbenzene	0.0504	<0.0021	0.0321	64	75-125	F1

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 500-221506-a-5-b ms.D

Lab ID: 500-221506-5 MS Client ID: B-5 (8'-10') MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trimethylbenzene	0.0504	<0.0021	0.0327	65	75-122	F1
Vinyl acetate	0.0504	<0.0052	0.0214	42	40-153	
Vinyl chloride	0.0504	<0.0021	0.0474	94	70-125	
Xylenes, Total	0.101	<0.0041	0.0746	74	53-147	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Low

Lab File ID: 500-221506-a-5-c msd.D

Lab ID: 500-221506-5 MSD

Client ID: B-5 (8'-10') MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acetone	0.0512	0.0464	91	24	30	40-150	
Benzene	0.0512	0.0463	90	8	30	70-125	
Bromoform	0.0512	0.0500	98	2	30	68-136	
Bromomethane	0.0512	0.0444	87	1	30	70-130	
2-Butanone (MEK)	0.0512	0.0348	68	46	30	47-138	F2
Carbon disulfide	0.0512	0.0463	90	11	30	70-129	
Carbon tetrachloride	0.0512	0.0541	106	10	30	75-125	
Chlorobenzene	0.0512	0.0450	88	11	30	50-150	
Chlorodibromomethane	0.0512	0.0494	96	5	30	69-125	
Chloroethane	0.0512	0.0457	89	5	30	75-125	
Chloroform	0.0512	0.0508	99	8	30	57-135	
Chloromethane	0.0512	0.0474	92	4	30	70-125	
cis-1,2-Dichloroethene	0.0512	0.0486	95	10	30	70-125	
cis-1,3-Dichloropropene	0.0512	0.0411	80	7	30	70-125	
Cyclohexane	0.0512	0.0515	100	13	30	70-125	
Dichlorobromomethane	0.0512	0.0474	92	7	30	67-129	
1,1-Dichloroethane	0.0512	0.0522	102	9	30	70-125	
1,2-Dichloroethane	0.0512	0.0522	102	6	30	70-130	
1,1-Dichloroethene	0.0512	0.0510	100	12	30	70-120	
1,2-Dichloropropane	0.0512	0.0465	91	3	30	70-125	
1,4-Dioxane	1.02	1.68	164	17	30	70-137	F1
Ethylbenzene	0.0512	0.0434	85	14	30	61-136	
Ethylene Dibromide	0.0512	0.0457	89	4	30	70-125	
2-Hexanone	0.0512	0.0377	74	23	30	48-146	
Isopropylbenzene	0.0512	0.0395	77	14	30	70-125	
Methyl acetate	0.102	0.0984	96	13	30	70-125	
Methylcyclohexane	0.0512	0.0458	89	12	30	70-125	
Methylene Chloride	0.0512	0.0459	90	7	30	70-126	
methyl isobutyl ketone	0.0512	0.0387	76	15	30	50-148	
Methyl tert-butyl ether	0.0512	0.0454	89	3	30	50-140	
m-Xylene & p-Xylene	0.0512	0.0426	83	13	30	53-147	
o-Xylene	0.0512	0.0417	81	12	30	75-125	
Styrene	0.0512	0.0413	81	12	30	70-125	
Tetrachloroethene	0.0512	0.0486	95	14	30	70-124	
Toluene	0.0512	0.0450	88	9	30	70-125	
trans-1,2-Dichloroethene	0.0512	0.0506	99	12	30	70-125	
trans-1,3-Dichloropropene	0.0512	0.0404	79	4	30	70-125	
1,1,1-Trichloroethane	0.0512	0.0531	104	11	30	70-128	
1,1,2-Trichloroethane	0.0512	0.0485	95	3	30	70-125	
Trichloroethene	0.0512	0.0480	94	10	30	70-125	
Trichlorofluoromethane	0.0512	0.0518	101	4	30	70-134	
1,2,4-Trimethylbenzene	0.0512	0.0389	76	19	30	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 500-221506-a-5-c msd.D
 Lab ID: 500-221506-5 MSD Client ID: B-5 (8'-10') MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,3,5-Trimethylbenzene	0.0512	0.0389	76	17	30	75-122	
Vinyl acetate	0.0512	0.0352	69	49	30	40-153	F2
Vinyl chloride	0.0512	0.0488	95	3	30	70-125	
Xylenes, Total	0.102	0.0842	82	12	30	53-147	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 16M0905.D Lab Sample ID: MB 500-673135/6
 Matrix: Solid Heated Purge: (Y/N) Y
 Instrument ID: CMS16 Date Analyzed: 09/05/2022 13:24
 GC Column: DB624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-673135/4	16S0905.D	09/05/2022 12:33
B-1 (6'-8')	500-221506-1	500-221506-a-1-a.D	09/05/2022 13:50
B-2 (2'-4')	500-221506-2	500-221506-a-2-a.D	09/05/2022 14:16
B-3 (22'-23.5')	500-221506-3	500-221506-a-3-a.D	09/05/2022 14:42
B-4 (20'-22')	500-221506-4	500-221506-a-4-a.D	09/05/2022 15:08
B-5 (8'-10')	500-221506-5	500-221506-a-5-a.D	09/05/2022 15:34
B-6 (30'-32')	500-221506-6	500-221506-a-6-a.D	09/05/2022 16:00
Dup-1	500-221506-8	500-221506-a-8-a.D	09/05/2022 16:26
B-5 (8'-10') MS	500-221506-5 MS	500-221506-a-5-b ms.D	09/05/2022 16:52
B-5 (8'-10') MSD	500-221506-5 MSD	500-221506-a-5-c msd.D	09/05/2022 17:18

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 29M0908.D Lab Sample ID: MB 500-673569/7
 Matrix: Solid Heated Purge: (Y/N) N
 Instrument ID: CMS29 Date Analyzed: 09/08/2022 10:26
 GC Column: DB624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-673569/5	29S0908.D	09/08/2022 09:39
B-1 (6'-8') DL	500-221506-1 DL	500-221506- c-1-a.D	09/08/2022 15:11

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 19m0909.d Lab Sample ID: MB 500-673843/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CMS19 Date Analyzed: 09/09/2022 13:19
 GC Column: DB624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-673843/8	1910909a.d	09/09/2022 12:30
Trip Blank	500-221506-7	500-221506- B-7.d	09/09/2022 13:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 16b0118.D BFB Injection Date: 01/18/2022
 Instrument ID: CMS16 BFB Injection Time: 11:12
 Analysis Batch No.: 638287

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.1
75	30.0 - 60.0 % of mass 95	49.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	1.1 (1.4) 1
174	Greater than 50% of mass 95	82.8
175	5.0 - 9.0 % of mass 174	7.2 (8.7) 1
176	95.0 - 101.0 % of mass 174	80.1 (96.9) 1
177	5.0 - 9.0 % of mass 176	5.7 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 500-638287/3	16b0118a.D	01/18/2022	11:58
	STD2 500-638287/4	STD20118.D	01/18/2022	12:24
	STD3 500-638287/5	STD30118.D	01/18/2022	12:50
	STD4 500-638287/6	STD40118.D	01/18/2022	13:15
	STD5 500-638287/7	STD50118.D	01/18/2022	13:41
	STD6 500-638287/8	STD60118.D	01/18/2022	14:07
	STD7 500-638287/9	STD70118.D	01/18/2022	14:32
	STD1AP 500-638287/11	STD1AP0118.D	01/18/2022	15:24
	STD2AP 500-638287/12	STD2AP0118.D	01/18/2022	15:50
	STD3AP 500-638287/13	STD3AP0118.D	01/18/2022	16:15
	STD4AP 500-638287/14	STD4AP0118.D	01/18/2022	16:41
	STD5AP 500-638287/15	STD5AP0118.D	01/18/2022	17:07
	STD6AP 500-638287/16	STD6AP0118.D	01/18/2022	17:32
	STD7AP 500-638287/17	STD7AP0118.D	01/18/2022	17:58
	ICV 500-638287/22	ICV 2.D	01/18/2022	20:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 16b0119.D BFB Injection Date: 01/19/2022
 Instrument ID: CMS16 BFB Injection Time: 08:31
 Analysis Batch No.: 638461

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	55.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	6.9	(7.8) 1
176	95.0 - 101.0 % of mass 174	89.1	(100.8) 1
177	5.0 - 9.0 % of mass 176	4.5	(5.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 500-638461/3	ICV 1.D	01/19/2022	9:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 16B0905.D BFB Injection Date: 09/05/2022
 Instrument ID: CMS16 BFB Injection Time: 11:01
 Analysis Batch No.: 673135

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.7	
173	Less than 2.0 % of mass 174	1.1	(1.3) 1
174	Greater than 50% of mass 95	84.0	
175	5.0 - 9.0 % of mass 174	5.1	(6.1) 1
176	95.0 - 101.0 % of mass 174	80.1	(95.4) 1
177	5.0 - 9.0 % of mass 176	4.3	(5.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 500-673135/2	16C0905.D	09/05/2022	11:41
	CCV 500-673135/3	16D0905.D	09/05/2022	12:07
	LCS 500-673135/4	16S0905.D	09/05/2022	12:33
	MB 500-673135/6	16M0905.D	09/05/2022	13:24
B-1 (6'-8')	500-221506-1	500-221506-a-	09/05/2022	13:50
B-2 (2'-4')	500-221506-2	500-221506-a-	09/05/2022	14:16
B-3 (22'-23.5')	500-221506-3	500-221506-a-	09/05/2022	14:42
B-4 (20'-22')	500-221506-4	500-221506-a-	09/05/2022	15:08
B-5 (8'-10')	500-221506-5	500-221506-a-	09/05/2022	15:34
B-6 (30'-32')	500-221506-6	500-221506-a-	09/05/2022	16:00
Dup-1	500-221506-8	500-221506-a-	09/05/2022	16:26
B-5 (8'-10') MS	500-221506-5 MS	500-221506-a-	09/05/2022	16:52
B-5 (8'-10') MSD	500-221506-5 MSD	500-221506-a-	09/05/2022	17:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 19b0729.d BFB Injection Date: 07/29/2022
 Instrument ID: CMS19 BFB Injection Time: 09:10
 Analysis Batch No.: 667600

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	Greater than 50% of mass 95	93.3	
175	5.0 - 9.0 % of mass 174	6.8	(7.3) 1
176	95.0 - 101.0 % of mass 174	89.2	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD07 500-667600/9	STD07.d	07/29/2022	12:19
	STD08 500-667600/10	STD08.d	07/29/2022	12:43
	STD09 500-667600/11	STD09.d	07/29/2022	13:07
	STD010 500-667600/12	STD010.d	07/29/2022	13:32
	STD03AP 500-667600/14	STD03AP.d	07/29/2022	14:20
	STD01 500-667600/27	STD01a.d	07/29/2022	15:09
	STD02 500-667600/28	STD02a.d	07/29/2022	15:33
	STD03 500-667600/29	STD03a.d	07/29/2022	15:57
	STD04 500-667600/30	STD04a.d	07/29/2022	16:21
	STD05 500-667600/31	STD05a.d	07/29/2022	16:46
	STD06 500-667600/32	STD06a.d	07/29/2022	17:10
	STD04AP 500-667600/15	STD04AP.d	07/29/2022	17:34
	STD05AP 500-667600/16	STD05AP.d	07/29/2022	17:59
	STD06AP 500-667600/17	STD06AP.d	07/29/2022	18:23
	STD07AP 500-667600/18	STD07AP.d	07/29/2022	18:48
	STD08AP 500-667600/19	STD08AP.d	07/29/2022	19:13
	STD09AP 500-667600/20	STD09AP.d	07/29/2022	19:37
	STD010AP 500-667600/21	STD010AP.d	07/29/2022	20:02
	ICV 500-667600/23	ICV1.d	07/29/2022	20:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 19c0801.d BFB Injection Date: 08/01/2022
 Instrument ID: CMS19 BFB Injection Time: 07:38
 Analysis Batch No.: 667824

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	1.3	(1.4) 1
174	Greater than 50% of mass 95	93.5	
175	5.0 - 9.0 % of mass 174	7.5	(8.0) 1
176	95.0 - 101.0 % of mass 174	92.2	(98.6) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 500-667824/4	icv2.d	08/01/2022	9:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 19C0909.d BFB Injection Date: 09/09/2022
 Instrument ID: CMS19 BFB Injection Time: 10:15
 Analysis Batch No.: 673843

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.8
75	30.0 - 60.0 % of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	1.0 (1.1) 1
174	Greater than 50% of mass 95	85.4
175	5.0 - 9.0 % of mass 174	6.2 (7.2) 1
176	95.0 - 101.0 % of mass 174	82.5 (96.5) 1
177	5.0 - 9.0 % of mass 176	6.0 (7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 500-673843/3	19x0909.d	09/09/2022	11:17
	CCVIS 500-673843/7	19b0909a.d	09/09/2022	12:06
	LCS 500-673843/8	19l0909a.d	09/09/2022	12:30
	MB 500-673843/6	19m0909.d	09/09/2022	13:19
Trip Blank	500-221506-7	500-221506-B-	09/09/2022	13:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 29B0514.D BFB Injection Date: 05/14/2022
 Instrument ID: CMS29 BFB Injection Time: 08:53
 Analysis Batch No.: 656646

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.4
75	30.0 - 60.0 % of mass 95	49.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	1.5 (1.3) 1
174	Greater than 50% of mass 95	113.7
175	5.0 - 9.0 % of mass 174	8.8 (7.8) 1
176	95.0 - 101.0 % of mass 174	110.7 (97.3) 1
177	5.0 - 9.0 % of mass 176	7.7 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-656646/3	STD010514.D	05/14/2022	9:34
	STD02 500-656646/4	STD020514.D	05/14/2022	9:57
	STD03 500-656646/5	STD030514.D	05/14/2022	10:21
	STD04 500-656646/6	STD040514.D	05/14/2022	10:44
	STD05 500-656646/7	STD050514.D	05/14/2022	11:08
	STD06 500-656646/8	STD060514.D	05/14/2022	11:32
	STD07 500-656646/9	STD070514.D	05/14/2022	11:55
	STD08 500-656646/10	STD080514.D	05/14/2022	12:19
	STD09 500-656646/11	STD090514.D	05/14/2022	12:42
	STD010 500-656646/12	STD0100514.D	05/14/2022	13:06
	STD03AP 500-656646/14	STD03AP0514.D	05/14/2022	13:53
	STD04AP 500-656646/15	STD04AP0514.D	05/14/2022	14:16
	STD05AP 500-656646/16	STD05AP0514.D	05/14/2022	14:40
	STD06AP 500-656646/17	STD06AP0514.D	05/14/2022	15:04
	STD07AP 500-656646/18	STD07AP0514.D	05/14/2022	15:27
	STD08AP 500-656646/19	STD08AP0514.D	05/14/2022	15:51
	STD09AP 500-656646/20	STD09AP0514.D	05/14/2022	16:14
	STD010AP 500-656646/21	STD010AP0514.	05/14/2022	16:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 29B0516.D BFB Injection Date: 05/16/2022
 Instrument ID: CMS29 BFB Injection Time: 08:47
 Analysis Batch No.: 656798

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.8	(0.7) 1
174	Greater than 50% of mass 95	117.1	
175	5.0 - 9.0 % of mass 174	8.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	111.4	(95.1) 1
177	5.0 - 9.0 % of mass 176	7.3	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 500-656798/7	icv20516.D	05/16/2022	11:28

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 29B0628A.D BFB Injection Date: 06/28/2022
 Instrument ID: CMS29 BFB Injection Time: 08:10
 Analysis Batch No.: 663160

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	59.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.7	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	Greater than 50% of mass 95	97.1	
175	5.0 - 9.0 % of mass 174	8.6	(8.8) 1
176	95.0 - 101.0 % of mass 174	95.4	(98.3) 1
177	5.0 - 9.0 % of mass 176	7.8	(8.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-663160/2	std010628.D	06/28/2022	8:45
	STD02 500-663160/3	std020628.D	06/28/2022	9:09
	STD03 500-663160/4	std030628.D	06/28/2022	9:32
	STD04 500-663160/5	std040628.D	06/28/2022	9:56
	STD05 500-663160/6	std050628.D	06/28/2022	10:19
	STD06 500-663160/7	std060628.D	06/28/2022	10:43
	STD07 500-663160/8	std070628.D	06/28/2022	11:06
	STD08 500-663160/9	std080628.D	06/28/2022	11:30
	STD09 500-663160/10	std090628.D	06/28/2022	11:53
	STD010 500-663160/11	std0100628.D	06/28/2022	12:17
	ICV 500-663160/14	icv10628A.D	06/28/2022	14:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 29B0908.D BFB Injection Date: 09/08/2022
 Instrument ID: CMS29 BFB Injection Time: 07:50
 Analysis Batch No.: 673569

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.3
75	30.0 - 60.0 % of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	1.5 (1.6) 1
174	Greater than 50% of mass 95	95.6
175	5.0 - 9.0 % of mass 174	7.3 (7.7) 1
176	95.0 - 101.0 % of mass 174	94.5 (98.8) 1
177	5.0 - 9.0 % of mass 176	6.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-673569/2	29C0908.D	09/08/2022	8:29
	CCV 500-673569/3	29D0908.D	09/08/2022	8:52
	LCS 500-673569/5	29S0908.D	09/08/2022	9:39
	MB 500-673569/7	29M0908.D	09/08/2022	10:26
B-1 (6'-8') DL	500-221506-1 DL	500-221506-c-	09/08/2022	15:11

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD4 500-638287/6 Date Analyzed: 01/18/2022 13:15
 Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD40118.D Heated Purge: (Y/N) Y
 Calibration ID: 43274

	TBA _d 9		FB		DXE		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	221110	3.46	661329	5.79	19668	6.50	
UPPER LIMIT	442220	3.96	1322658	6.29	39336	7.00	
LOWER LIMIT	110555	2.96	330665	5.29	9834	6.00	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-638287/22		209373	3.46	524419	5.79	15290	6.51
ICV 500-638461/3		194565	3.46	553078	5.79	13584	6.50
CCV 500-673135/2		300427	3.43	903878	5.77	24167	6.48
CCV 500-673135/3		177051	3.43	727876	5.77	17662	6.49
LCS 500-673135/4		203716	3.43	784422	5.77	21481	6.49
MB 500-673135/6		230729	3.43	678524	5.77	18771	6.49
500-221506-1	B-1 (6'-8')	119666	3.43	702870	5.77	4247*3	6.49
500-221506-2	B-2 (2'-4')	137179	3.44	688481	5.77	6932*3	6.48
500-221506-3	B-3 (22'-23.5')	176353	3.43	692985	5.77	10333	6.49
500-221506-4	B-4 (20'-22')	181527	3.43	691615	5.77	13510	6.49
500-221506-5	B-5 (8'-10')	177260	3.43	662952	5.77	9846	6.49
500-221506-6	B-6 (30'-32')	177305	3.43	681670	5.77	11541	6.49
500-221506-8	Dup-1	187258	3.43	669709	5.77	8608*3	6.49
500-221506-5 MS	B-5 (8'-10') MS	242492	3.43	788206	5.77	17101	6.49
500-221506-5 MSD	B-5 (8'-10') MSD	235552	3.43	788540	5.77	19310	6.49

TBA_d9 = TBA-d₉ (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d₈

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD4 500-638287/6 Date Analyzed: 01/18/2022 13:15
 Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD40118.D Heated Purge: (Y/N) Y
 Calibration ID: 43274

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	487105	9.33	294305	11.84		
UPPER LIMIT	974210	9.83	588610	12.34		
LOWER LIMIT	243553	8.83	147153	11.34		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-638287/22		374165	9.33	222196	11.84	
ICV 500-638461/3		404601	9.33	248008	11.84	
CCV 500-673135/2		681216	9.31	438641	11.82	
CCV 500-673135/3		560847	9.31	312445	11.82	
LCS 500-673135/4		592897	9.31	385474	11.82	
MB 500-673135/6		544383	9.31	308365	11.82	
500-221506-1	B-1 (6'-8')	554460	9.31	316364	11.82	
500-221506-2	B-2 (2'-4')	553499	9.31	313174	11.82	
500-221506-3	B-3 (22'-23.5')	562751	9.31	317271	11.82	
500-221506-4	B-4 (20'-22')	549054	9.31	302739	11.82	
500-221506-5	B-5 (8'-10')	537349	9.31	296265	11.82	
500-221506-6	B-6 (30'-32')	536119	9.31	296525	11.82	
500-221506-8	Dup-1	537262	9.31	307315	11.82	
500-221506-5 MS	B-5 (8'-10') MS	585896	9.30	360922	11.82	
500-221506-5 MSD	B-5 (8'-10') MSD	589258	9.31	368448	11.82	

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-667600/9 Date Analyzed: 07/29/2022 12:19
 Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD07.d Heated Purge: (Y/N) N
 Calibration ID: 45754

	TBA _d 9		FB		DXE			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	73720	3.61	590346	5.97	9886	6.70		
UPPER LIMIT	147440	4.11	1180692	6.47	19772	7.20		
LOWER LIMIT	36860	3.11	295173	5.47	4943	6.20		
LAB SAMPLE ID	CLIENT SAMPLE ID							
ICV 500-667600/23			76598	3.61	549283	5.97	11408	6.70
CCV 500-673843/3			91915	3.62	727765	5.97	13311	6.70
CCVIS 500-673843/7			96706	3.62	718540	5.97	13996	6.70
LCS 500-673843/8			100761	3.62	744010	5.97	14291	6.70
MB 500-673843/6			111918	3.62	721264	5.97	16507	6.70
500-221506-7	Trip Blank		78412	3.61	628776	5.97	10373	6.70

TBA_d9 = TBA-d₉ (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d₈

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-667600/9 Date Analyzed: 07/29/2022 12:19
 Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD07.d Heated Purge: (Y/N) N
 Calibration ID: 45754

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	380628	9.53	198294	11.98		
UPPER LIMIT	761256	10.03	396588	12.48		
LOWER LIMIT	190314	9.03	99147	11.48		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-667600/23			372594	9.53	192941	11.98
CCV 500-673843/3			508593	9.53	256346	11.98
CCVIS 500-673843/7			513145	9.53	256095	11.98
LCS 500-673843/8			544938	9.53	267799	11.98
MB 500-673843/6			523910	9.53	266000	11.98
500-221506-7	Trip Blank		456333	9.53	223928	11.98

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCVIS 500-673843/7 Date Analyzed: 09/09/2022 12:06
 Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): 19b0909a.d Heated Purge: (Y/N) N
 Calibration ID: 45760

	TBA _{d9}		FB		DXE		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	96706	3.62	718540	5.97	13996	6.70	
UPPER LIMIT	193412	4.12	1437080	6.47	27992	7.20	
LOWER LIMIT	48353	3.12	359270	5.47	6998	6.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-673843/8	100761	3.62	744010	5.97	14291	6.70	
MB 500-673843/6	111918	3.62	721264	5.97	16507	6.70	
500-221506-7	Trip Blank	78412	3.61	628776	5.97	10373	6.70

TBA_{d9} = TBA-d₉ (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d₈

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCVIS 500-673843/7 Date Analyzed: 09/09/2022 12:06
 Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): 19b0909a.d Heated Purge: (Y/N) N
 Calibration ID: 45760

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	513145	9.53	256095	11.98		
UPPER LIMIT	1026290	10.03	512190	12.48		
LOWER LIMIT	256573	9.03	128048	11.48		
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 500-673843/8		544938	9.53	267799	11.98	
MB 500-673843/6		523910	9.53	266000	11.98	
500-221506-7	Trip Blank	456333	9.53	223928	11.98	

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-656646/9 Date Analyzed: 05/14/2022 11:55
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD070514.D Heated Purge: (Y/N) N
 Calibration ID: 44251

	TBA _{d9}		FB		DXE	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	203519	3.48	462536	5.78	15804	6.50
UPPER LIMIT	407038	3.98	925072	6.28	31608	7.00
LOWER LIMIT	101760	2.98	231268	5.28	7902	6.00
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-656798/7	184008	3.49	405675	5.78	15124	6.49

TBA_{d9} = TBA-d₉ (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d₈

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-656646/9 Date Analyzed: 05/14/2022 11:55
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): STD070514.D Heated Purge: (Y/N) N
 Calibration ID: 44251

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	348032	9.30	223711	11.82		
UPPER LIMIT	696064	9.80	447422	12.32		
LOWER LIMIT	174016	8.80	111856	11.32		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-656798/7	320280	9.30	183173	11.82		

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-663160/8 Date Analyzed: 06/28/2022 11:06
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): std070628.D Heated Purge: (Y/N) N
 Calibration ID: 45495

	TBA _d 9		FB		DXE		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	238036	3.48	695308	5.78	20246	6.50	
UPPER LIMIT	476072	3.98	1390616	6.28	40492	7.00	
LOWER LIMIT	119018	2.98	347654	5.28	10123	6.00	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-663160/14	239710	3.47	789398	5.77	19797	6.49	
CCVIS 500-673569/2	224553	3.46	839975	5.78	23525	6.49	
CCV 500-673569/3	260604	3.46	799946	5.78	25093	6.49	
LCS 500-673569/5	274735	3.46	805531	5.78	25591	6.49	
MB 500-673569/7	238233	3.46	665786	5.78	20449	6.49	
500-221506-1 DL	B-1 (6'-8') DL	215975	3.47	673050	5.77	19052	6.49

TBA_d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD07 500-663160/8 Date Analyzed: 06/28/2022 11:06
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): std070628.D Heated Purge: (Y/N) N
 Calibration ID: 45495

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	483633	9.30	315263	11.82		
UPPER LIMIT	967266	9.80	630526	12.32		
LOWER LIMIT	241817	8.80	157632	11.32		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-663160/14		546351	9.30	330922	11.82	
CCVIS 500-673569/2		656429	9.30	365005	11.82	
CCV 500-673569/3		648210	9.30	339596	11.82	
LCS 500-673569/5		640788	9.30	378872	11.82	
MB 500-673569/7		542946	9.30	279791	11.82	
500-221506-1 DL	B-1 (6'-8') DL	552051	9.30	283022	11.82	

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCVIS 500-673569/2 Date Analyzed: 09/08/2022 08:29
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): 29C0908.D Heated Purge: (Y/N) N
 Calibration ID: 45495

	TBA _{d9}		FB		DXE		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	224553	3.46	839975	5.78	23525	6.49	
UPPER LIMIT	449106	3.96	1679950	6.28	47050	6.99	
LOWER LIMIT	112277	2.96	419988	5.28	11763	5.99	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-673569/3		260604	3.46	799946	5.78	25093	6.49
LCS 500-673569/5		274735	3.46	805531	5.78	25591	6.49
MB 500-673569/7		238233	3.46	665786	5.78	20449	6.49
500-221506-1 DL	B-1 (6'-8') DL	215975	3.47	673050	5.77	19052	6.49

TBA_{d9} = TBA-d₉ (IS)

FB = Fluorobenzene (IS)

DXE = 1,4-Dioxane-d₈

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCVIS 500-673569/2 Date Analyzed: 09/08/2022 08:29
 Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm)
 Lab File ID (Standard): 29C0908.D Heated Purge: (Y/N) N
 Calibration ID: 45495

	CBNZd5		DCBd4		#	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	656429	9.30	365005	11.82		
UPPER LIMIT	1312858	9.80	730010	12.32		
LOWER LIMIT	328215	8.80	182503	11.32		
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 500-673569/3			648210	9.30	339596	11.82
LCS 500-673569/5			640788	9.30	378872	11.82
MB 500-673569/7			542946	9.30	279791	11.82
500-221506-1 DL	B-1 (6'-8') DL		552051	9.30	283022	11.82

CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-1 (6'-8') Lab Sample ID: 500-221506-1
 Matrix: Solid Lab File ID: 500-221506-a-1-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 10:10
 Sample wt/vol: 6.6261(g) Date Analyzed: 09/05/2022 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 22.0 % Solids: 78.0 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.10		0.019
71-43-2	Benzene	<0.0019		0.0019
75-25-2	Bromoform	<0.0019		0.0019
74-83-9	Bromomethane	<0.0048		0.0048
78-93-3	2-Butanone (MEK)	0.018		0.0048
75-15-0	Carbon disulfide	<0.0048		0.0048
56-23-5	Carbon tetrachloride	<0.0019		0.0019
108-90-7	Chlorobenzene	<0.0019		0.0019
124-48-1	Chlorodibromomethane	<0.0019		0.0019
75-00-3	Chloroethane	<0.0048		0.0048
67-66-3	Chloroform	<0.0019		0.0019
74-87-3	Chloromethane	<0.0048		0.0048
156-59-2	cis-1,2-Dichloroethene	<0.0019		0.0019
10061-01-5	cis-1,3-Dichloropropene	<0.0019		0.0019
110-82-7	Cyclohexane	<0.0019		0.0019
75-27-4	Dichlorobromomethane	<0.0019		0.0019
75-34-3	1,1-Dichloroethane	<0.0019		0.0019
107-06-2	1,2-Dichloroethane	<0.0048		0.0048
75-35-4	1,1-Dichloroethene	<0.0019		0.0019
78-87-5	1,2-Dichloropropane	<0.0019		0.0019
123-91-1	1,4-Dioxane	<0.097	*3	0.097
100-41-4	Ethylbenzene	0.0021		0.0019
106-93-4	Ethylene Dibromide	<0.0019		0.0019
591-78-6	2-Hexanone	<0.0048		0.0048
98-82-8	Isopropylbenzene	<0.0019		0.0019
79-20-9	Methyl acetate	<0.024		0.024
108-87-2	Methylcyclohexane	<0.0019		0.0019
75-09-2	Methylene Chloride	<0.0048		0.0048
108-10-1	methyl isobutyl ketone	<0.0048		0.0048
91-57-6	2-Methylnaphthalene	<0.0048		0.0048
1634-04-4	Methyl tert-butyl ether	<0.0019		0.0019
91-20-3	Naphthalene	<0.0048		0.0048
100-42-5	Styrene	<0.0019		0.0019
127-18-4	Tetrachloroethene	<0.0019		0.0019

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-1 (6'-8') Lab Sample ID: 500-221506-1
 Matrix: Solid Lab File ID: 500-221506-a-1-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 10:10
 Sample wt/vol: 6.6261(g) Date Analyzed: 09/05/2022 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 22.0 % Solids: 78.0 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
156-60-5	trans-1,2-Dichloroethene	<0.0019		0.0019	
10061-02-6	trans-1,3-Dichloropropene	<0.0019		0.0019	
71-55-6	1,1,1-Trichloroethane	<0.0019		0.0019	
79-00-5	1,1,2-Trichloroethane	<0.0019		0.0019	
79-01-6	Trichloroethene	<0.0019		0.0019	
75-69-4	Trichlorofluoromethane	<0.0048		0.0048	
95-63-6	1,2,4-Trimethylbenzene	<0.0019		0.0019	
108-67-8	1,3,5-Trimethylbenzene	<0.0019		0.0019	
108-05-4	Vinyl acetate	<0.0048		0.0048	
75-01-4	Vinyl chloride	<0.0019		0.0019	
1330-20-7	Xylenes, Total	<0.0039		0.0039	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		75-131
1868-53-7	Dibromofluoromethane	107		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-134
2037-26-5	Toluene-d8 (Surr)	93		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D
 Lims ID: 500-221506-A-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 13:50:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-1-a
 Misc. Info.: 500-0087999-008
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:02:34 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:02:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
15 Acetone	43	3.009	3.012	-0.003	97	91582	103.0	
* 23 TBA-d9 (IS)	65	3.429	3.434	-0.005	95	119666	1068.6	
36 2-Butanone (MEK)	43	4.628	4.628	0.000	95	20224	18.5	a
\$ 43 Dibromofluoromethane	113	5.085	5.085	0.000	74	180970	57.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.428	5.425	0.003	97	194962	59.4	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	702870	53.4	
* 62 1,4-Dioxane-d8	96	6.491	6.482	0.009	55	4247	1068.6	s
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	94	671691	49.8	
72 Toluene	92	7.605	7.603	0.002	87	6276759	649.0	E
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	83	554460	53.4	
86 Ethylbenzene	106	9.491	9.491	0.000	95	12487	2.13	
87 m-Xylene & p-Xylene	91	9.641	9.641	-0.006	63	7385	0.5169	M
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	241475	51.4	
* 110 1,4-Dichlorobenzene-d4	152	11.819	11.822	-0.003	95	316364	53.4	
S 124 Xylenes, Total	100				0		0.5169	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D

Injection Date: 05-Sep-2022 13:50:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-1-A

Lab Sample ID: 500-221506-1

Worklist Smp#: 8

Client ID: B-1 (6'-8')

Purge Vol: 5.000 mL

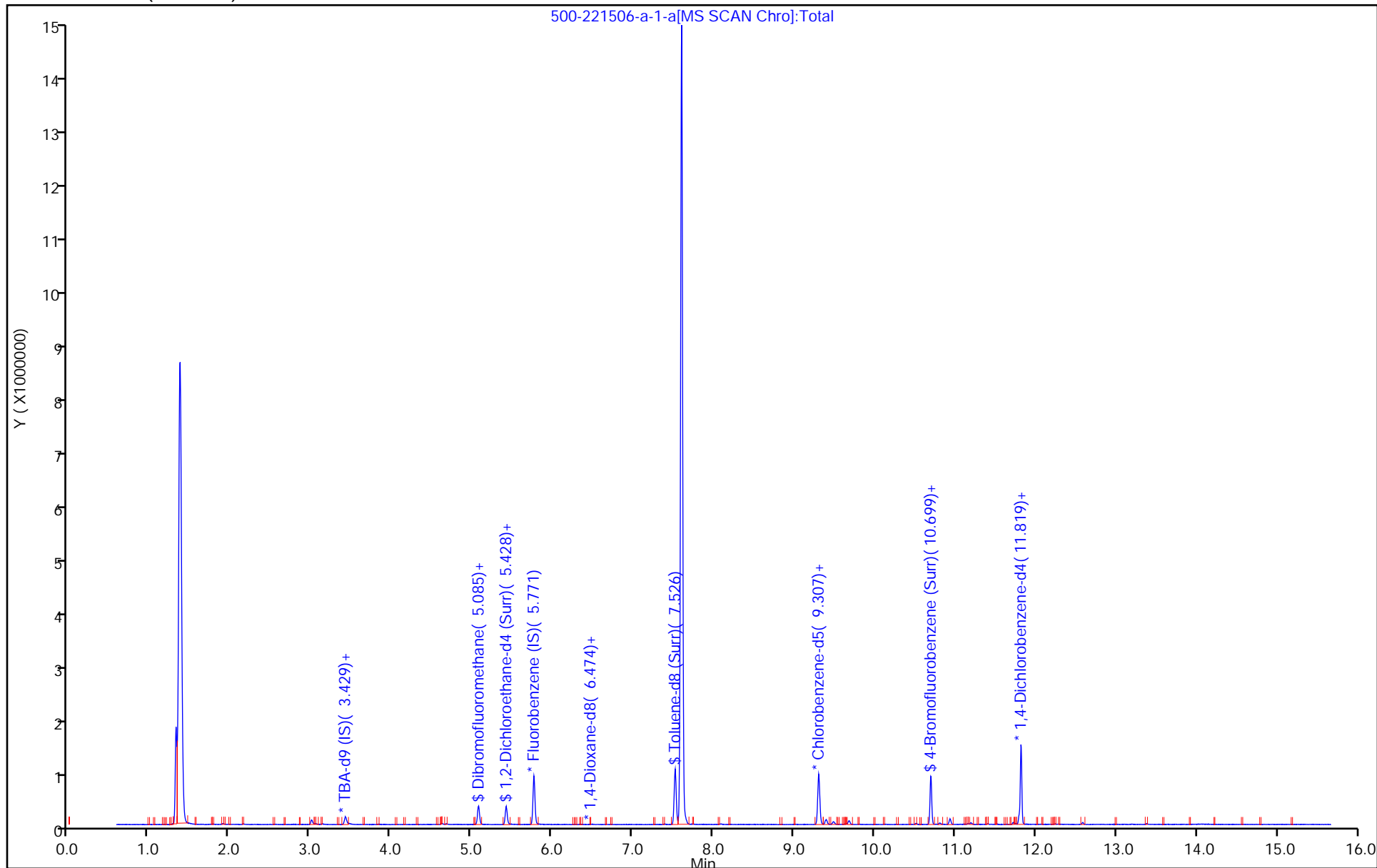
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D
 Lims ID: 500-221506-A-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 13:50:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-1-a
 Misc. Info.: 500-0087999-008
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:02:34 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:02:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	57.3	107.15
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	59.4	111.19
\$ 71 Toluene-d8 (Surr)	53.4	49.8	93.18
\$ 93 4-Bromofluorobenzene (Surr)	53.4	51.4	96.15

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D

Injection Date: 05-Sep-2022 13:50:30

Instrument ID: CMS16

Lims ID: 500-221506-A-1-A

Lab Sample ID: 500-221506-1

Client ID: B-1 (6'-8')

Operator ID:

ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

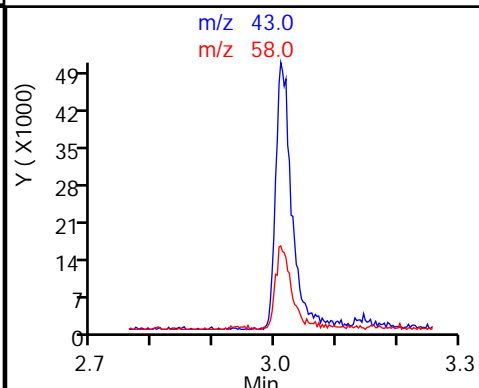
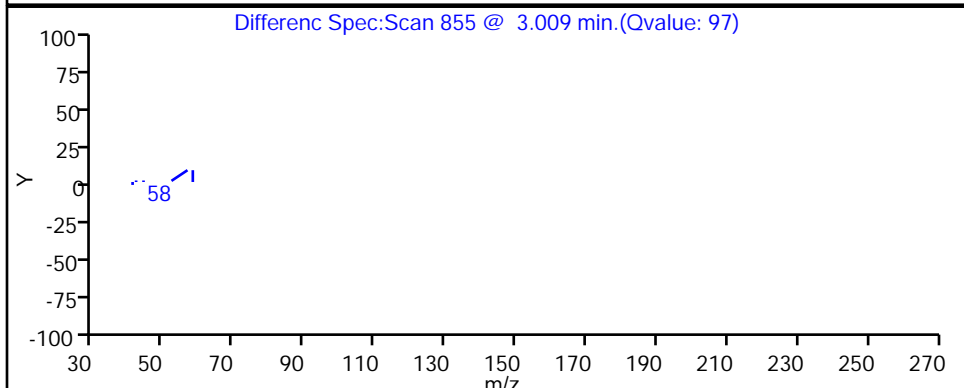
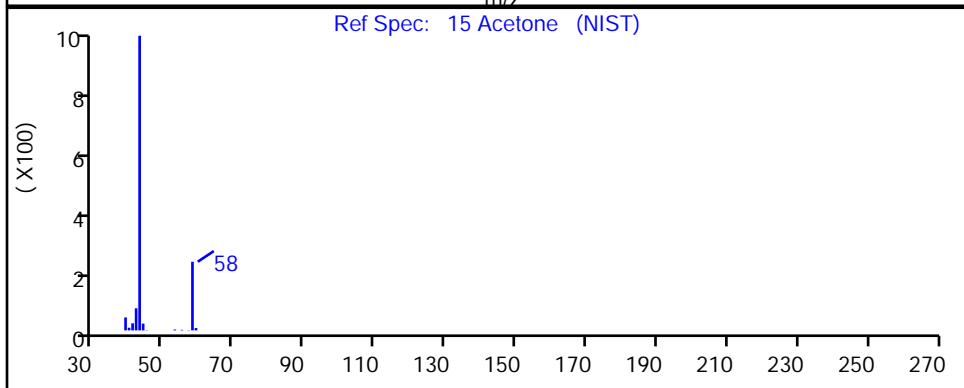
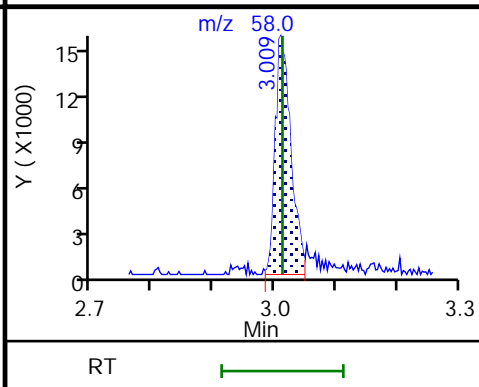
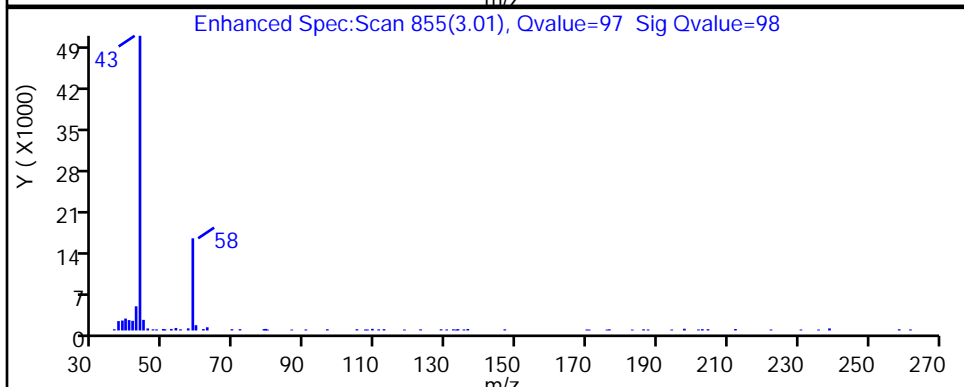
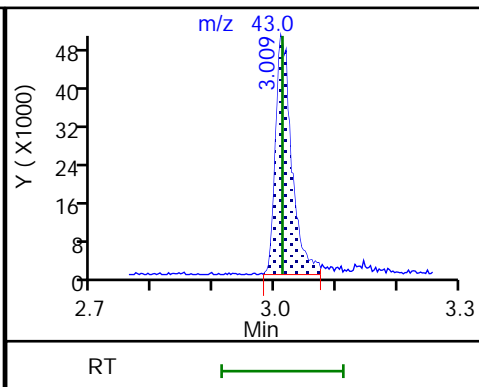
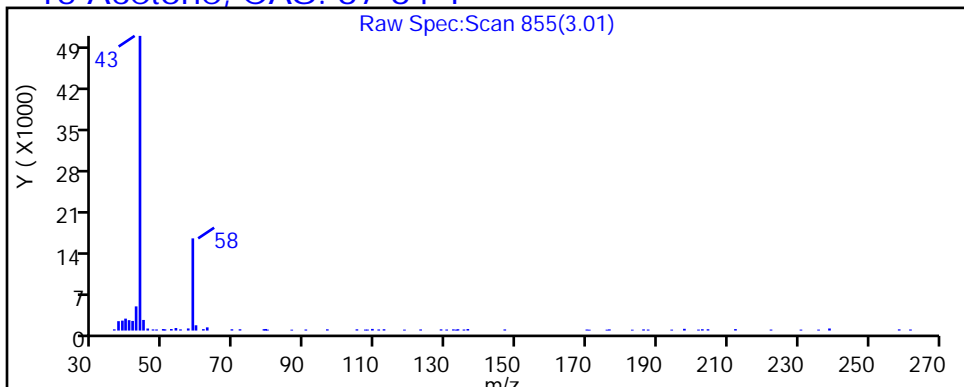
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

15 Acetone, CAS: 67-64-1



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D

Injection Date: 05-Sep-2022 13:50:30

Instrument ID: CMS16

Lims ID: 500-221506-A-1-A

Lab Sample ID: 500-221506-1

Client ID: B-1 (6'-8')

Operator ID:

ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

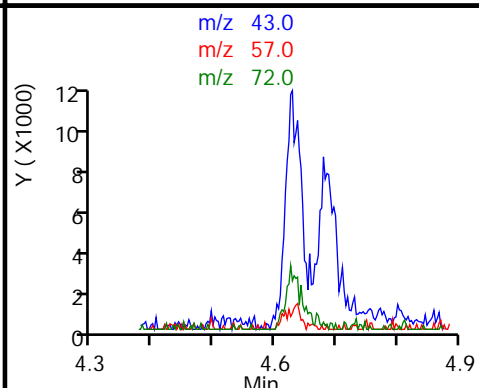
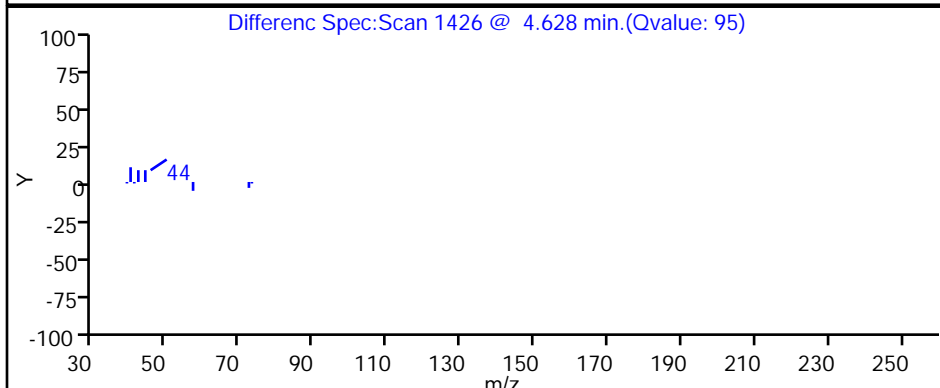
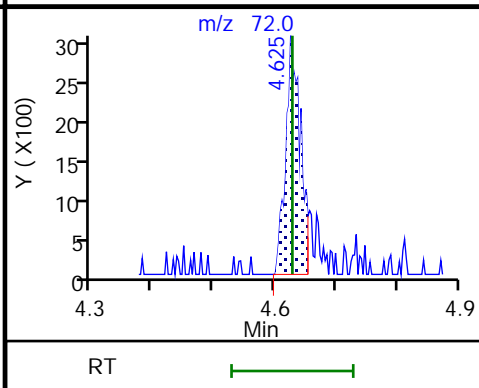
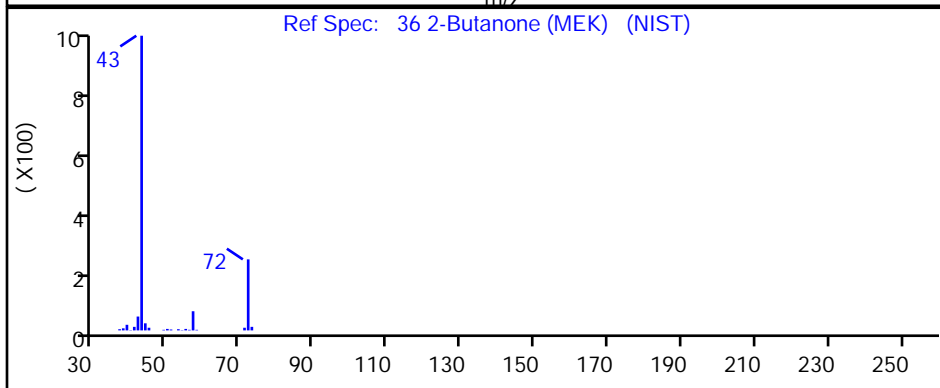
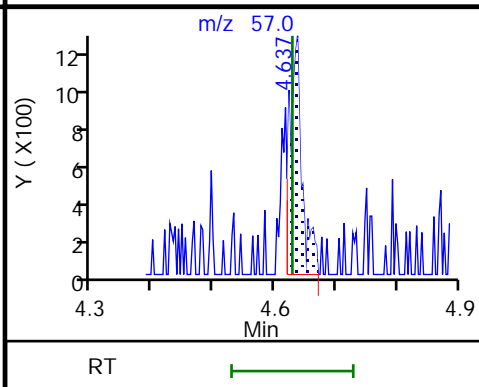
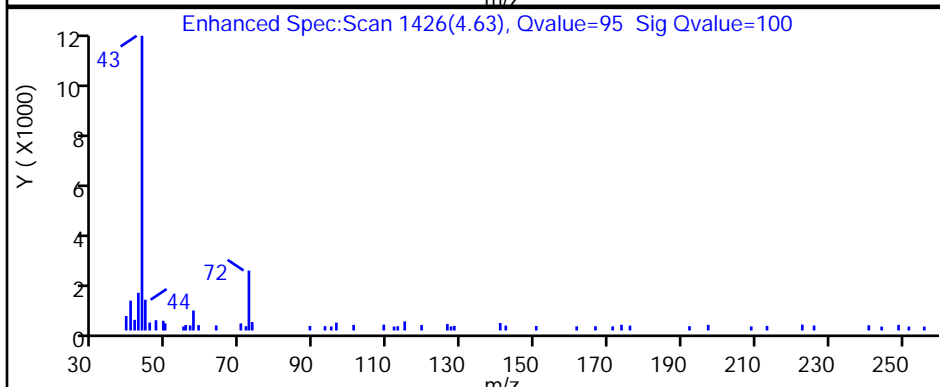
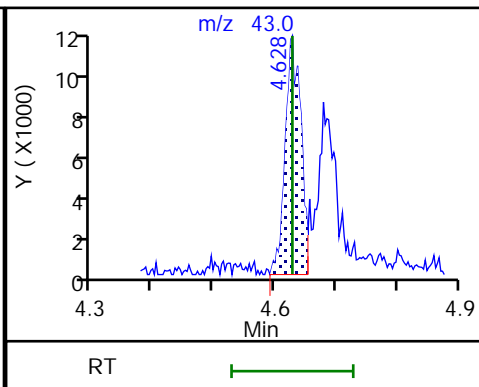
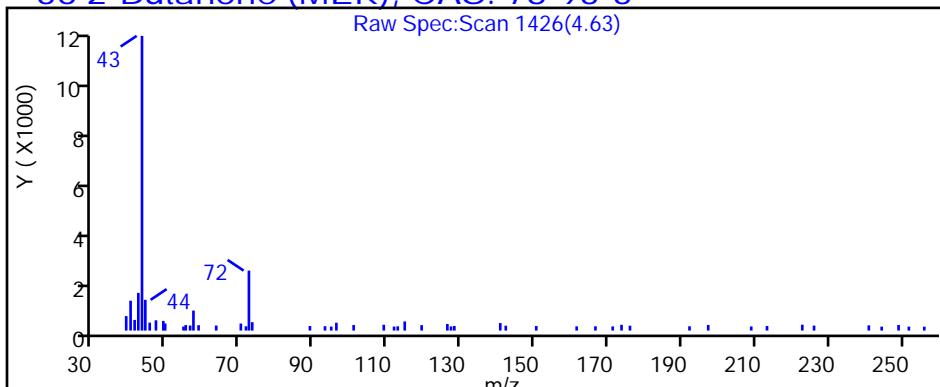
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3



Euofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D

Injection Date: 05-Sep-2022 13:50:30

Instrument ID: CMS16

Lims ID: 500-221506-A-1-A

Lab Sample ID: 500-221506-1

Client ID: B-1 (6'-8')

Operator ID:

ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

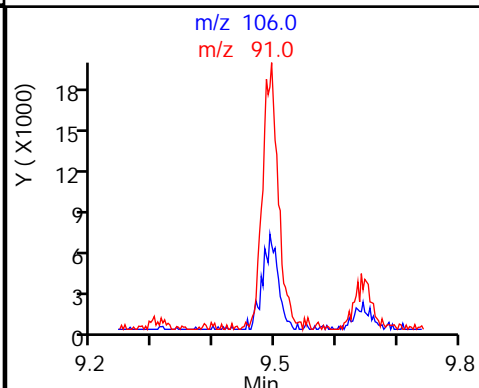
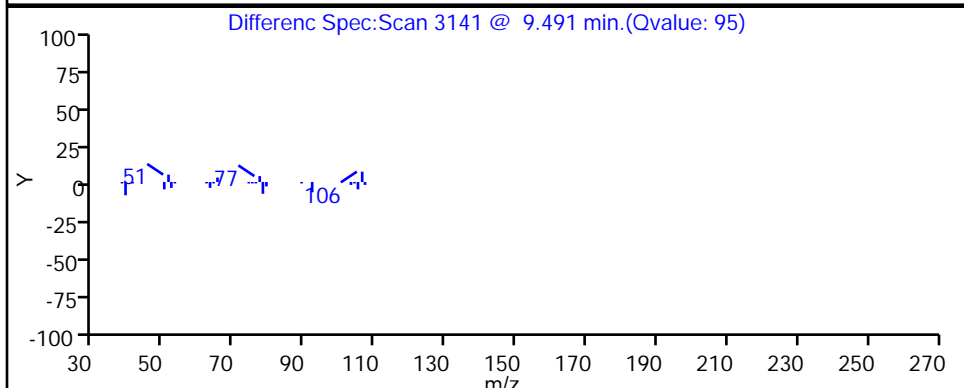
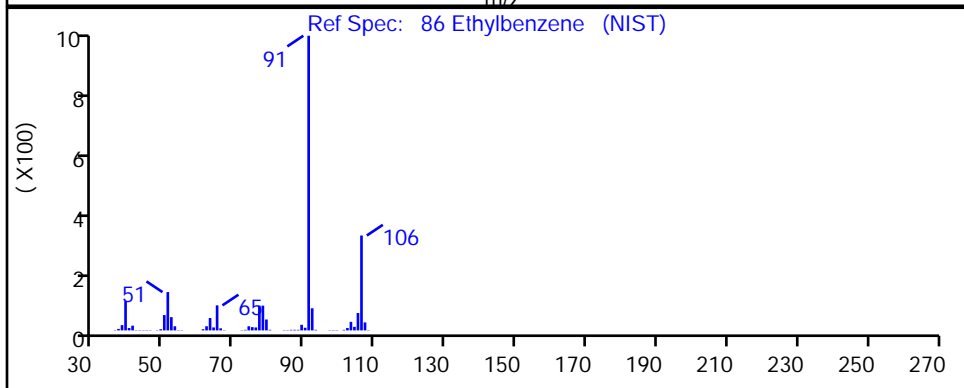
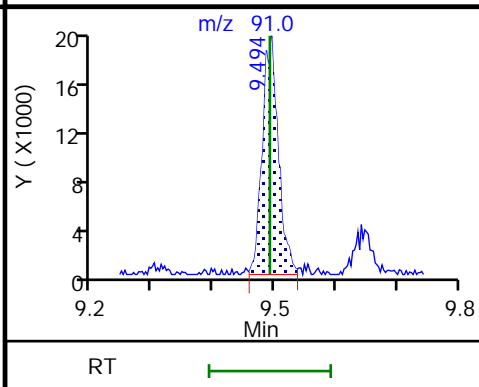
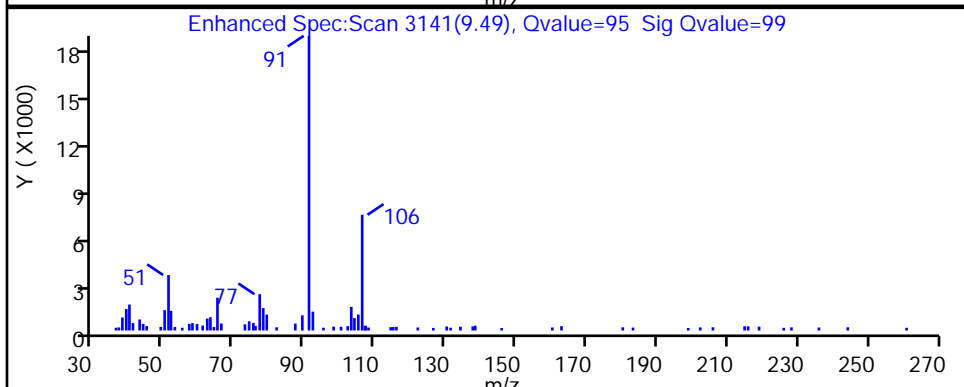
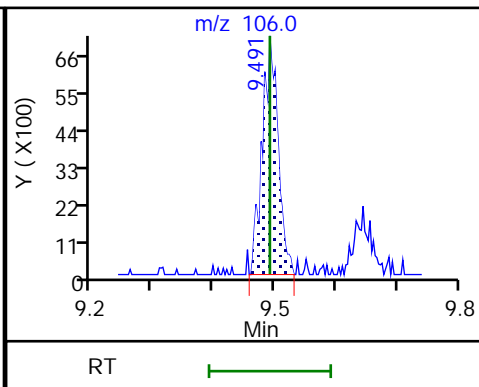
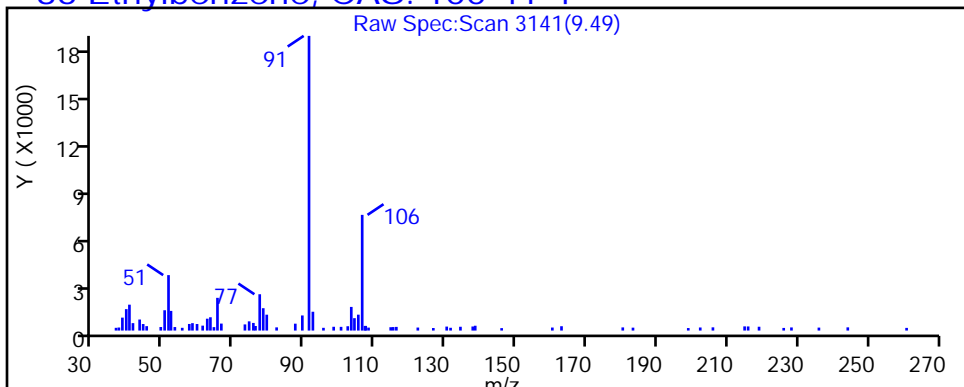
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

86 Ethylbenzene, CAS: 100-41-4



Eurofins Chicago

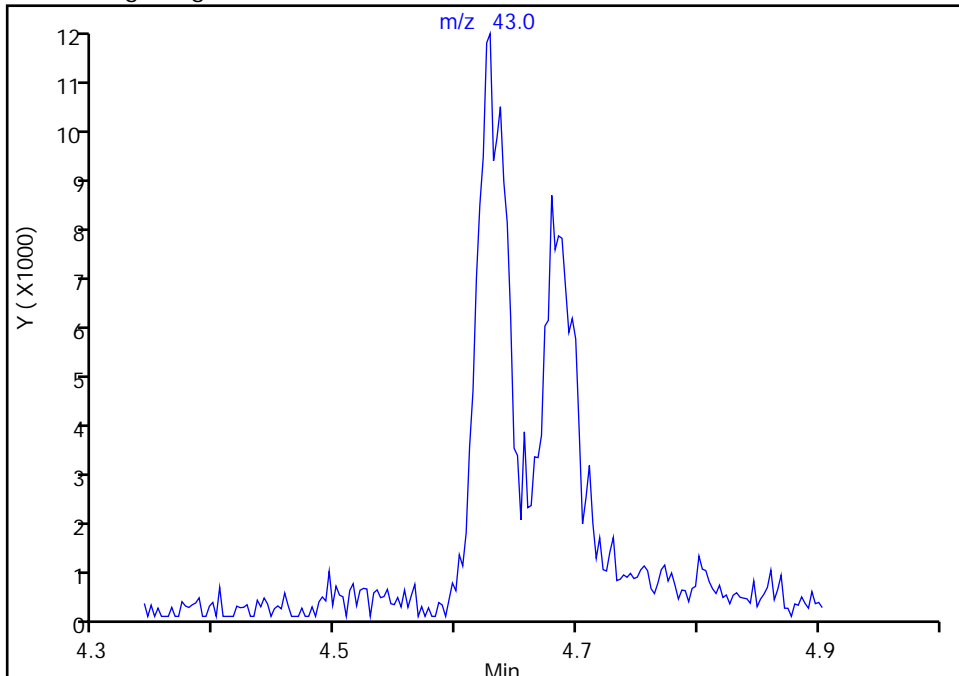
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D
Injection Date: 05-Sep-2022 13:50:30 Instrument ID: CMS16
Lims ID: 500-221506-A-1-A Lab Sample ID: 500-221506-1
Client ID: B-1 (6'-8')
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

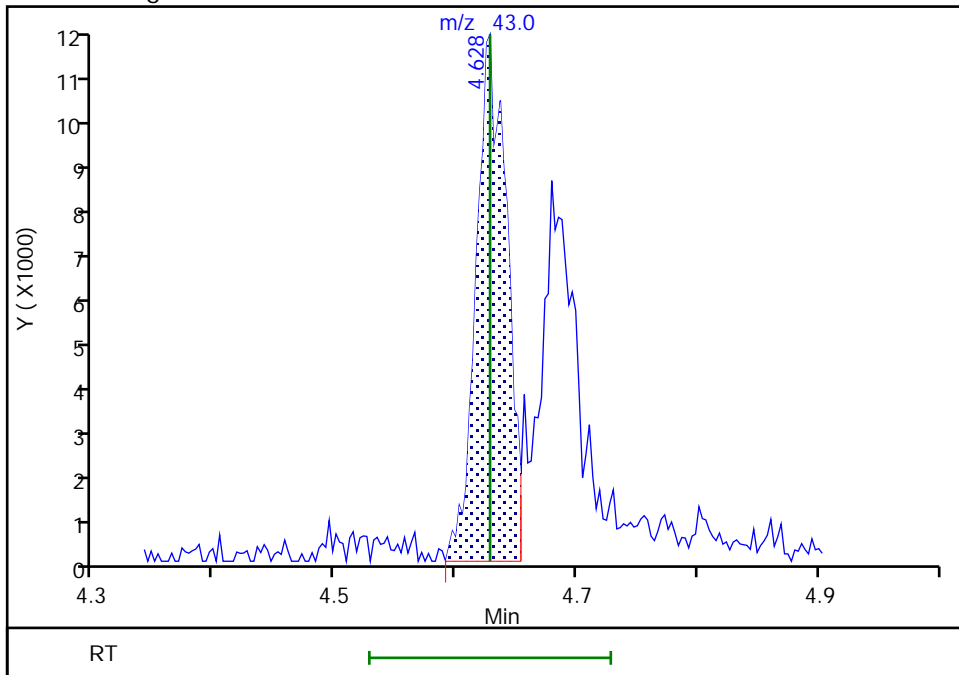
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 20224
Amount: 18.543393
Amount Units: UG/L



Reviewer: thaneeratw, 06-Sep-2022 12:01:36
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

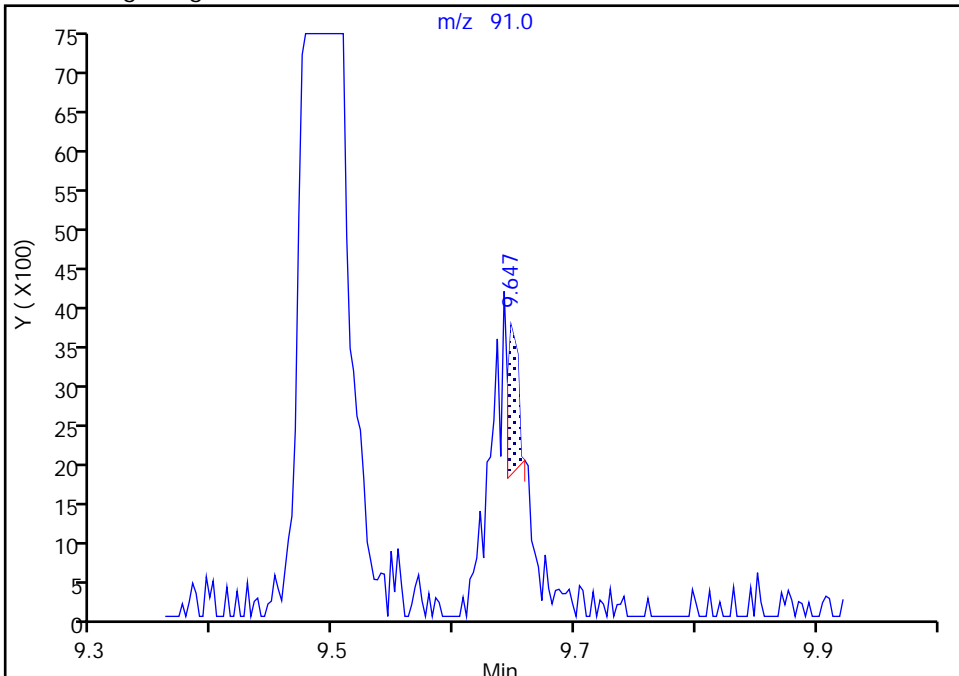
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-1-a.D
Injection Date: 05-Sep-2022 13:50:30 Instrument ID: CMS16
Lims ID: 500-221506-A-1-A Lab Sample ID: 500-221506-1
Client ID: B-1 (6'-8')
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

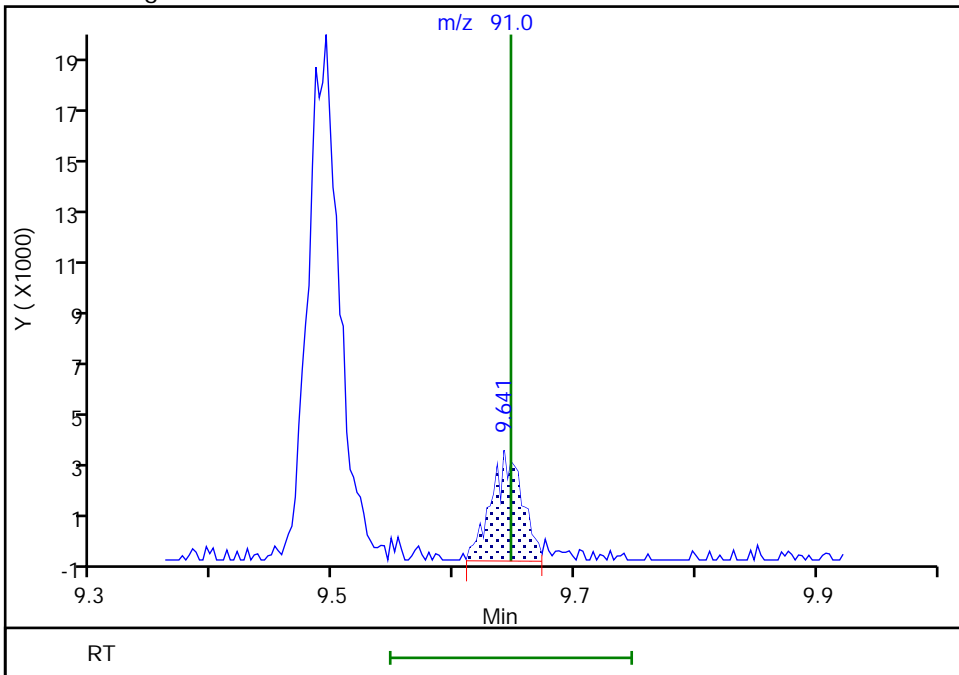
RT: 9.65
Area: 1087
Amount: 0.076081
Amount Units: UG/L

Processing Integration Results



RT: 9.64
Area: 7385
Amount: 0.516886
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:02:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-1 (6'-8') DL Lab Sample ID: 500-221506-1 DL
 Matrix: Solid Lab File ID: 500-221506-c-1-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 10:10
 Sample wt/vol: 6.3799(g) Date Analyzed: 09/08/2022 15:11
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 50
 Soil Extract Vol.: 5(mL) GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: 22.0 % Solids: 78.0 Level: (low/med) Medium
 Analysis Batch No.: 673569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
108-88-3	Toluene	3.2		0.016

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		72-124
1868-53-7	Dibromofluoromethane	102		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-126
2037-26-5	Toluene-d8 (Surr)	96		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\500-221506-c-1-a.D
 Lims ID: 500-221506-C-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 08-Sep-2022 15:11:57 ALS Bottle#: 0 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 500-221506-c-1-a
 Misc. Info.: 500-0088058-019
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 14:55:27 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1615

First Level Reviewer: thaneeratw Date: 09-Sep-2022 14:55:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
15 Acetone	43	3.050	3.047	0.003	58	3024	2.71	
21 Methyl acetate	43	3.342	3.346	-0.004	78	3518	2.49	
* 23 TBA-d9 (IS)	65	3.473	3.461	0.012	0	215975	1000.0	
\$ 43 Dibromofluoromethane	113	5.091	5.092	-0.003	58	205892	51.1	
46 Carbon tetrachloride	117	5.276	5.276	-0.012	28	1975	0.3047	7M
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.433	-0.003	44	188964	50.5	
* 55 Fluorobenzene (IS)	96	5.774	5.778	-0.004	99	673050	50.0	
* 62 1,4-Dioxane-d8	96	6.487	6.493	-0.006	0	19052	1000.0	
\$ 71 Toluene-d8 (Surr)	98	7.520	7.524	-0.004	93	667173	48.2	
72 Toluene	92	7.601	7.602	-0.001	92	461979	49.7	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	552051	50.0	
86 Ethylbenzene	91	9.486	9.486	0.002	39	3532	0.1972	a
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	94	236771	54.7	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	283022	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260LOW IS/SS_00313 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\500-221506-c-1-a.D

Injection Date: 08-Sep-2022 15:11:57

Instrument ID: CMS29

Operator ID: PF

Lims ID: 500-221506-C-1-A

Lab Sample ID: 500-221506-1

Worklist Smp#: 19

Client ID: B-1 (6'-8')

Purge Vol: 5.000 mL

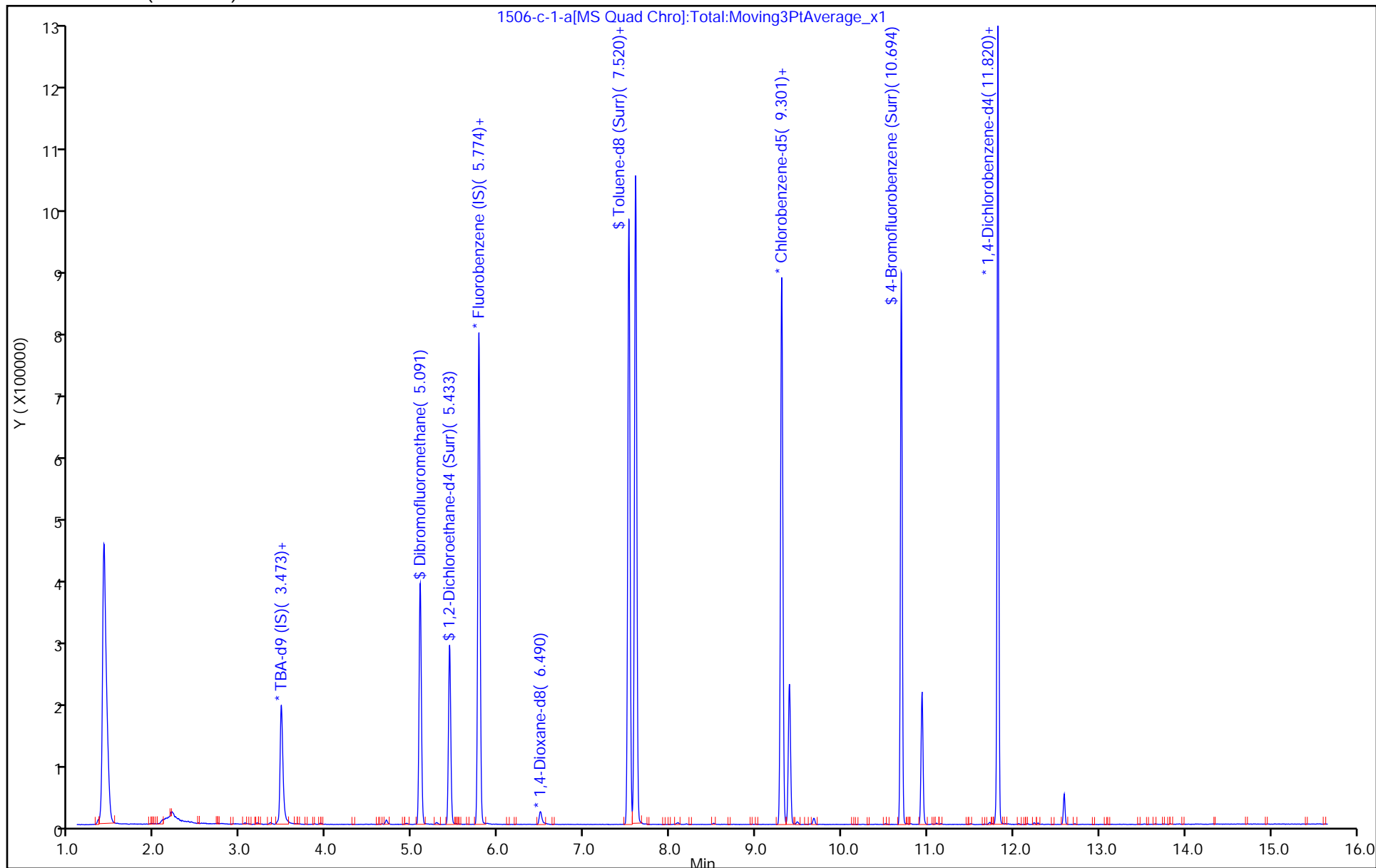
Dil. Factor: 50.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\500-221506-c-1-a.D
 Lims ID: 500-221506-C-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 08-Sep-2022 15:11:57 ALS Bottle#: 0 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 500-221506-c-1-a
 Misc. Info.: 500-0088058-019
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 14:55:27 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1615

First Level Reviewer: thaneeratw

Date: 09-Sep-2022 14:55:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	51.1	102.24
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	101.02
\$ 71 Toluene-d8 (Surr)	50.0	48.2	96.37
\$ 94 4-Bromofluorobenzene (Surr)	50.0	54.7	109.39

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\500-221506-c-1-a.D

Injection Date: 08-Sep-2022 15:11:57

Instrument ID: CMS29

Lims ID: 500-221506-C-1-A

Lab Sample ID: 500-221506-1

Client ID: B-1 (6'-8')

Operator ID: PF

ALS Bottle#: 0 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

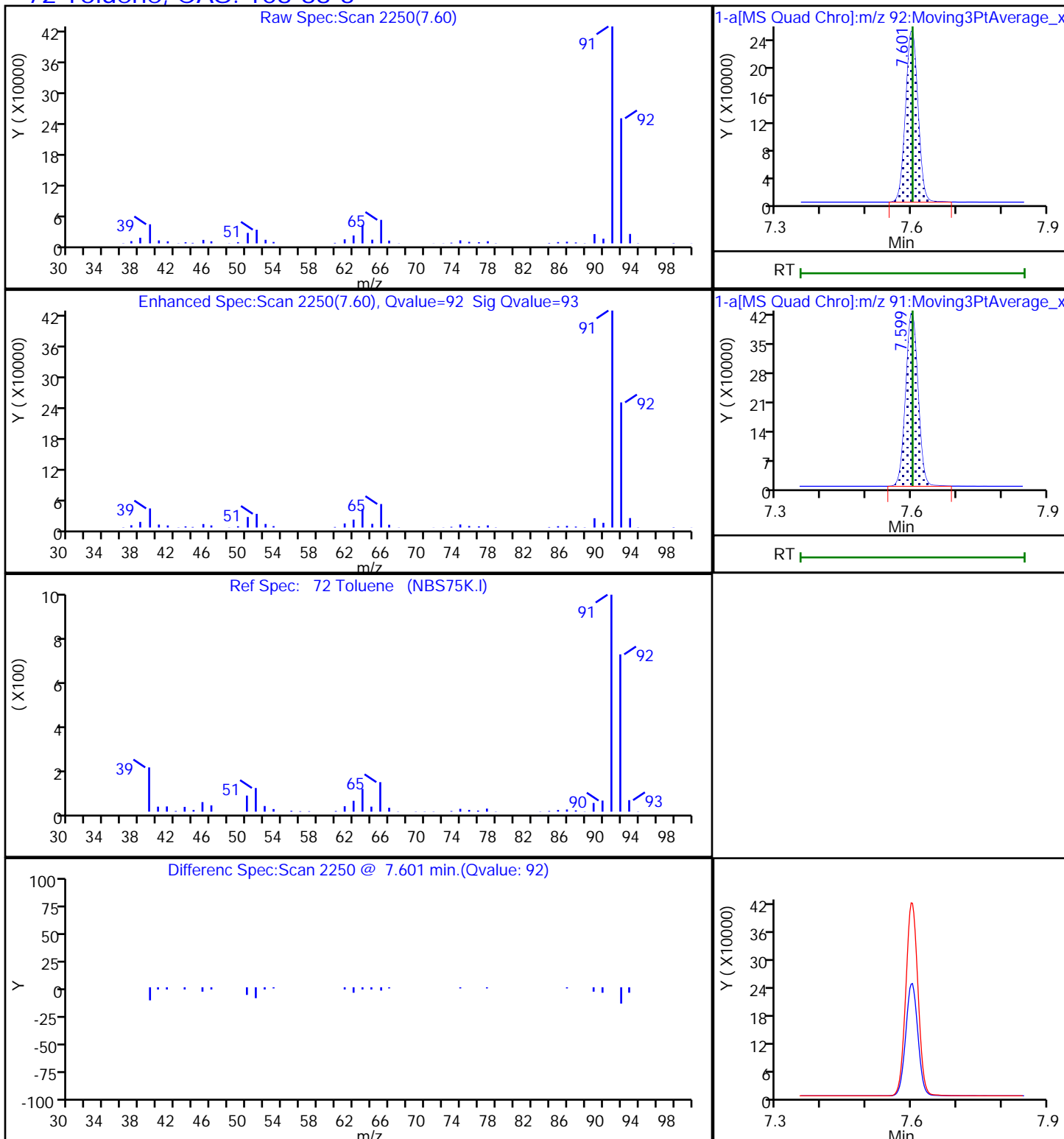
Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

72 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-2 (2'-4') Lab Sample ID: 500-221506-2
 Matrix: Solid Lab File ID: 500-221506-a-2-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 10:22
 Sample wt/vol: 7.0495(g) Date Analyzed: 09/05/2022 14:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 13.9 % Solids: 86.1 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	<0.016		0.016
71-43-2	Benzene	<0.0016		0.0016
75-25-2	Bromoform	<0.0016		0.0016
74-83-9	Bromomethane	<0.0041		0.0041
78-93-3	2-Butanone (MEK)	<0.0041		0.0041
75-15-0	Carbon disulfide	<0.0041		0.0041
56-23-5	Carbon tetrachloride	<0.0016		0.0016
108-90-7	Chlorobenzene	<0.0016		0.0016
124-48-1	Chlorodibromomethane	<0.0016		0.0016
75-00-3	Chloroethane	<0.0041		0.0041
67-66-3	Chloroform	<0.0016		0.0016
74-87-3	Chloromethane	<0.0041		0.0041
156-59-2	cis-1,2-Dichloroethene	<0.0016		0.0016
10061-01-5	cis-1,3-Dichloropropene	<0.0016		0.0016
110-82-7	Cyclohexane	<0.0016		0.0016
75-27-4	Dichlorobromomethane	<0.0016		0.0016
75-34-3	1,1-Dichloroethane	<0.0016		0.0016
107-06-2	1,2-Dichloroethane	<0.0041		0.0041
75-35-4	1,1-Dichloroethene	<0.0016		0.0016
78-87-5	1,2-Dichloropropane	<0.0016		0.0016
123-91-1	1,4-Dioxane	<0.082	*3	0.082
100-41-4	Ethylbenzene	<0.0016		0.0016
106-93-4	Ethylene Dibromide	<0.0016		0.0016
591-78-6	2-Hexanone	<0.0041		0.0041
98-82-8	Isopropylbenzene	<0.0016		0.0016
79-20-9	Methyl acetate	<0.021		0.021
108-87-2	Methylcyclohexane	<0.0016		0.0016
75-09-2	Methylene Chloride	<0.0041		0.0041
108-10-1	methyl isobutyl ketone	<0.0041		0.0041
91-57-6	2-Methylnaphthalene	<0.0041		0.0041
1634-04-4	Methyl tert-butyl ether	<0.0016		0.0016
91-20-3	Naphthalene	<0.0041		0.0041
100-42-5	Styrene	<0.0016		0.0016
127-18-4	Tetrachloroethene	<0.0016		0.0016

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-2 (2'-4') Lab Sample ID: 500-221506-2
 Matrix: Solid Lab File ID: 500-221506-a-2-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 10:22
 Sample wt/vol: 7.0495(g) Date Analyzed: 09/05/2022 14:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 13.9 % Solids: 86.1 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0016		0.0016	
156-60-5	trans-1,2-Dichloroethene	<0.0016		0.0016	
10061-02-6	trans-1,3-Dichloropropene	<0.0016		0.0016	
71-55-6	1,1,1-Trichloroethane	<0.0016		0.0016	
79-00-5	1,1,2-Trichloroethane	<0.0016		0.0016	
79-01-6	Trichloroethene	<0.0016		0.0016	
75-69-4	Trichlorofluoromethane	<0.0041		0.0041	
95-63-6	1,2,4-Trimethylbenzene	<0.0016		0.0016	
108-67-8	1,3,5-Trimethylbenzene	<0.0016		0.0016	
108-05-4	Vinyl acetate	<0.0041		0.0041	
75-01-4	Vinyl chloride	<0.0016		0.0016	
1330-20-7	Xylenes, Total	<0.0033		0.0033	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		75-131
1868-53-7	Dibromofluoromethane	111		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-134
2037-26-5	Toluene-d8 (Surr)	93		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-2-a.D
 Lims ID: 500-221506-A-2-A
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 14:16:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-2-a
 Misc. Info.: 500-0087999-009
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:03:17 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:03:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
* 23 TBA-d9 (IS)	65	3.437	3.434	0.003	94	137179	1068.6	
\$ 43 Dibromofluoromethane	113	5.084	5.085	-0.001	55	183473	59.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	98	194188	60.4	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	688481	53.4	
* 62 1,4-Dioxane-d8	96	6.482	6.482	0.000	47	6932	1068.6	s
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	667042	49.5	
72 Toluene	92	7.605	7.603	0.002	89	9844	1.02	
* 82 Chlorobenzene-d5	117	9.309	9.307	0.002	86	553499	53.4	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	238225	51.2	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	95	313174	53.4	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-2-a.D

Injection Date: 05-Sep-2022 14:16:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-2-A

Lab Sample ID: 500-221506-2

Worklist Smp#: 9

Client ID: B-2 (2'-4')

Purge Vol: 5.000 mL

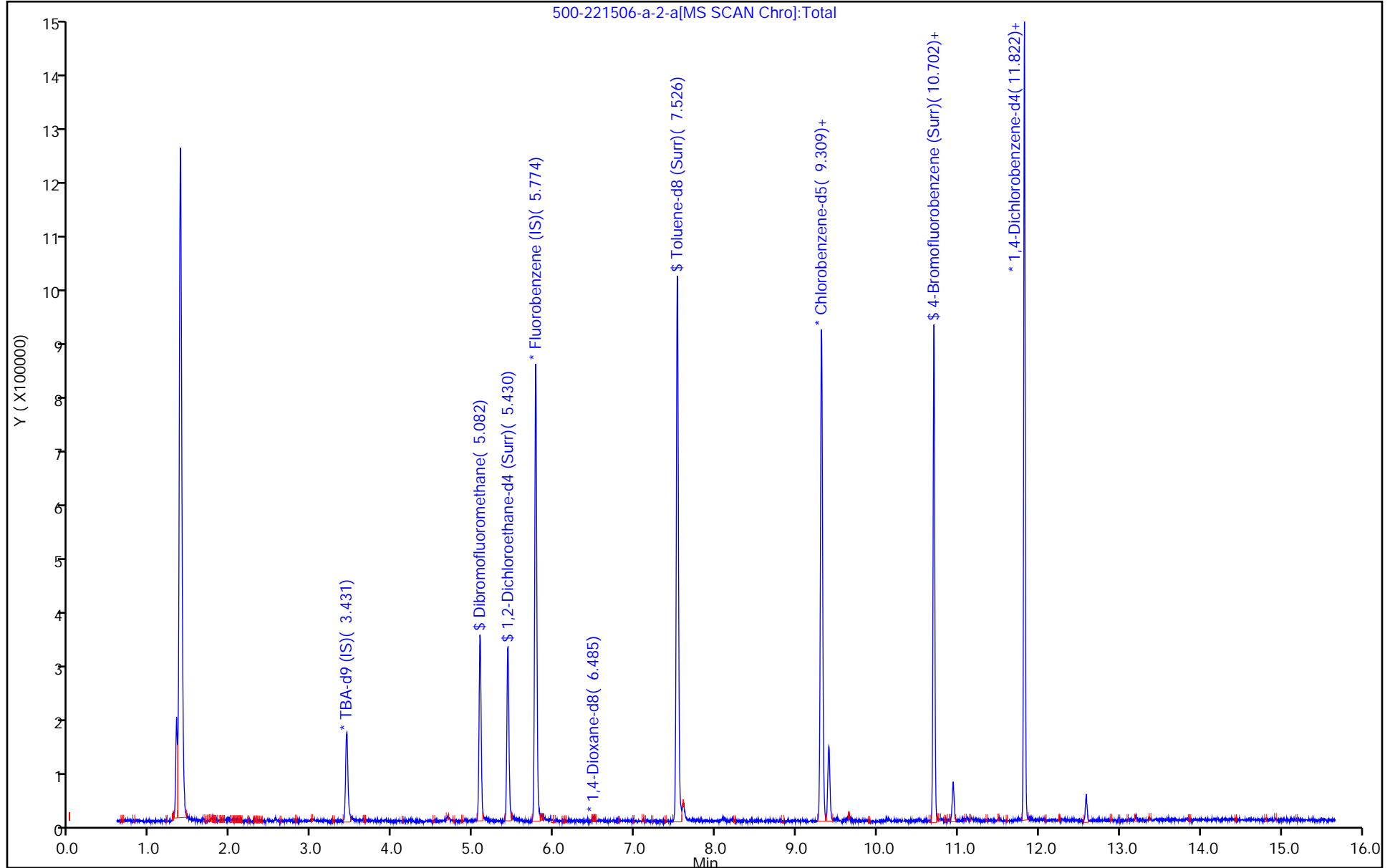
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-2-a.D
 Lims ID: 500-221506-A-2-A
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 14:16:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-2-a
 Misc. Info.: 500-0087999-009
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:03:17 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:03:17

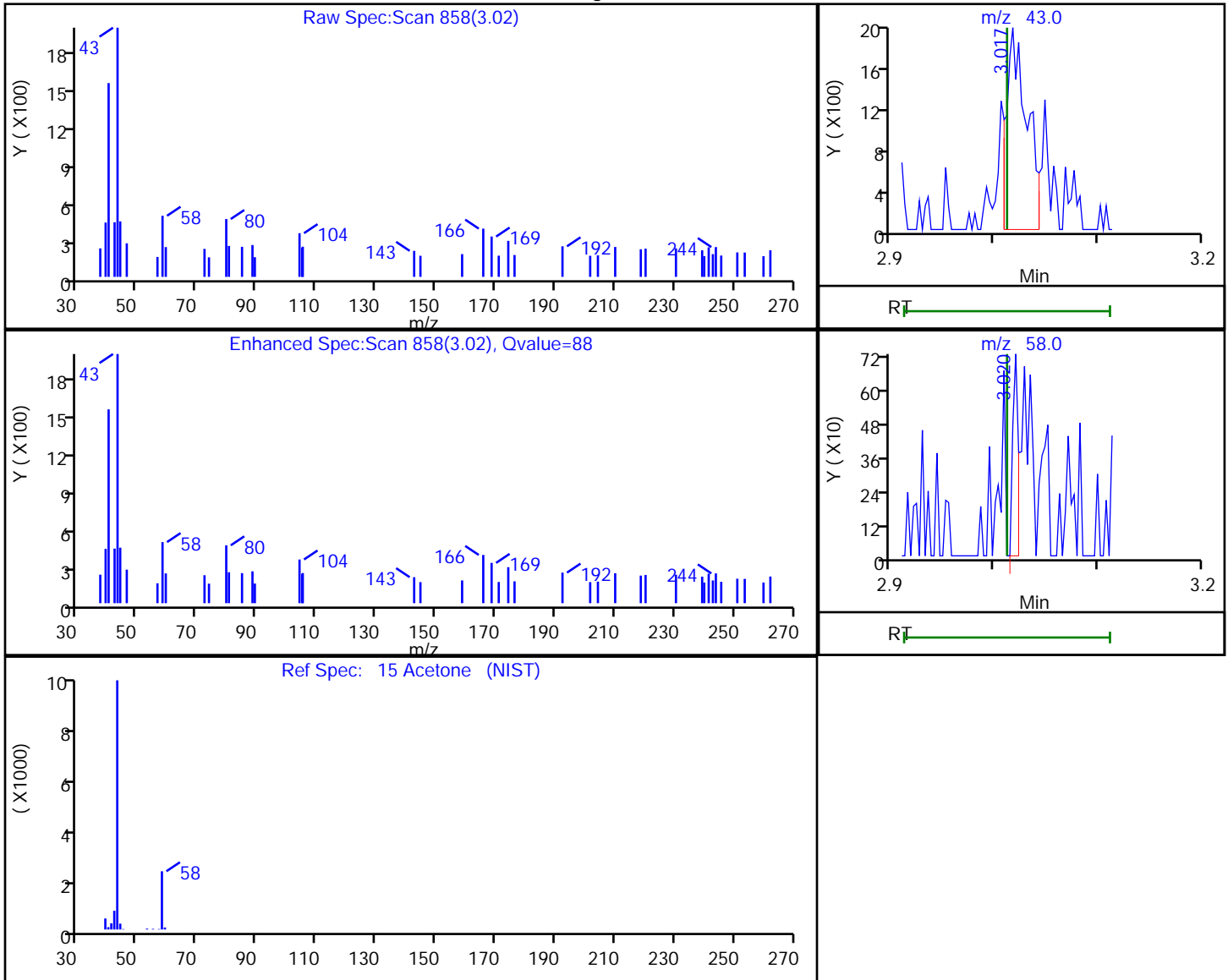
Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	59.3	110.90
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	60.4	113.06
\$ 71 Toluene-d8 (Surr)	53.4	49.5	92.69
\$ 93 4-Bromofluorobenzene (Surr)	53.4	51.2	95.82

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-2-a.D
 Injection Date: 05-Sep-2022 14:16:30 Instrument ID: CMS16
 Lims ID: 500-221506-A-2-A Lab Sample ID: 500-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.02	43.00	2621	3.010583
3.02	58.00	266	

Reviewer: thaneeratw, 06-Sep-2022 12:02:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-3 (22'-23.5') Lab Sample ID: 500-221506-3
 Matrix: Solid Lab File ID: 500-221506-a-3-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 11:25
 Sample wt/vol: 6.7751(g) Date Analyzed: 09/05/2022 14:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 18.0 % Solids: 82.0 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	<0.018		0.018
71-43-2	Benzene	<0.0018		0.0018
75-25-2	Bromoform	<0.0018		0.0018
74-83-9	Bromomethane	<0.0045		0.0045
78-93-3	2-Butanone (MEK)	<0.0045		0.0045
75-15-0	Carbon disulfide	<0.0045		0.0045
56-23-5	Carbon tetrachloride	<0.0018		0.0018
108-90-7	Chlorobenzene	<0.0018		0.0018
124-48-1	Chlorodibromomethane	<0.0018		0.0018
75-00-3	Chloroethane	<0.0045		0.0045
67-66-3	Chloroform	<0.0018		0.0018
74-87-3	Chloromethane	<0.0045		0.0045
156-59-2	cis-1,2-Dichloroethene	<0.0018		0.0018
10061-01-5	cis-1,3-Dichloropropene	<0.0018		0.0018
110-82-7	Cyclohexane	<0.0018		0.0018
75-27-4	Dichlorobromomethane	<0.0018		0.0018
75-34-3	1,1-Dichloroethane	<0.0018		0.0018
107-06-2	1,2-Dichloroethane	<0.0045		0.0045
75-35-4	1,1-Dichloroethene	<0.0018		0.0018
78-87-5	1,2-Dichloropropane	<0.0018		0.0018
123-91-1	1,4-Dioxane	<0.090		0.090
100-41-4	Ethylbenzene	<0.0018		0.0018
106-93-4	Ethylene Dibromide	<0.0018		0.0018
591-78-6	2-Hexanone	<0.0045		0.0045
98-82-8	Isopropylbenzene	<0.0018		0.0018
79-20-9	Methyl acetate	<0.022		0.022
108-87-2	Methylcyclohexane	<0.0018		0.0018
75-09-2	Methylene Chloride	<0.0045		0.0045
108-10-1	methyl isobutyl ketone	<0.0045		0.0045
91-57-6	2-Methylnaphthalene	<0.0045		0.0045
1634-04-4	Methyl tert-butyl ether	<0.0018		0.0018
91-20-3	Naphthalene	<0.0045		0.0045
100-42-5	Styrene	<0.0018		0.0018
127-18-4	Tetrachloroethene	<0.0018		0.0018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-3 (22'-23.5') Lab Sample ID: 500-221506-3
 Matrix: Solid Lab File ID: 500-221506-a-3-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 11:25
 Sample wt/vol: 6.7751(g) Date Analyzed: 09/05/2022 14:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 18.0 % Solids: 82.0 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0018		0.0018	
156-60-5	trans-1,2-Dichloroethene	<0.0018		0.0018	
10061-02-6	trans-1,3-Dichloropropene	<0.0018		0.0018	
71-55-6	1,1,1-Trichloroethane	<0.0018		0.0018	
79-00-5	1,1,2-Trichloroethane	<0.0018		0.0018	
79-01-6	Trichloroethene	<0.0018		0.0018	
75-69-4	Trichlorofluoromethane	<0.0045		0.0045	
95-63-6	1,2,4-Trimethylbenzene	<0.0018		0.0018	
108-67-8	1,3,5-Trimethylbenzene	<0.0018		0.0018	
108-05-4	Vinyl acetate	<0.0045		0.0045	
75-01-4	Vinyl chloride	<0.0018		0.0018	
1330-20-7	Xylenes, Total	<0.0036		0.0036	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		75-131
1868-53-7	Dibromofluoromethane	110		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-134
2037-26-5	Toluene-d8 (Surr)	92		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D
 Lims ID: 500-221506-A-3-A
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 14:42:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-3-a
 Misc. Info.: 500-0087999-010
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:06:11 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:06:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
15 Acetone	43	3.023	3.023	0.011	89	8641	9.86	M
* 23 TBA-d9 (IS)	65	3.434	3.434	0.000	96	176353	1068.6	
\$ 43 Dibromofluoromethane	113	5.084	5.085	-0.001	79	183609	58.9	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.428	5.425	0.003	98	195383	60.4	
* 55 Fluorobenzene (IS)	96	5.774	5.771	0.003	99	692985	53.4	
* 62 1,4-Dioxane-d8	96	6.491	6.482	0.009	60	10333	1068.6	Ma
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	93	670203	48.9	
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	87	562751	53.4	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	243886	51.7	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	95	317271	53.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D

Injection Date: 05-Sep-2022 14:42:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-3-A

Lab Sample ID: 500-221506-3

Worklist Smp#: 10

Client ID: B-3 (22'-23.5')

Purge Vol: 5.000 mL

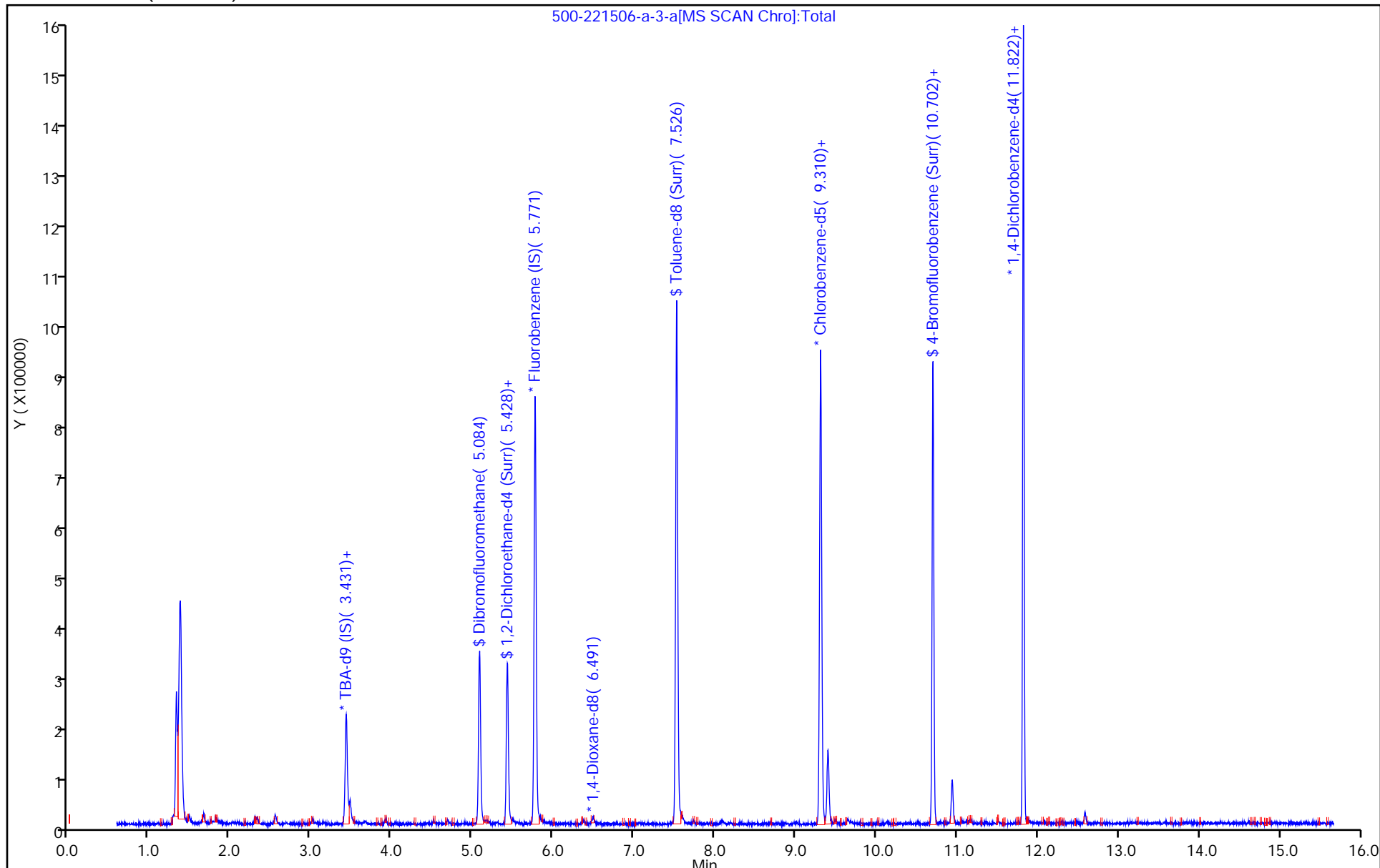
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D
 Lims ID: 500-221506-A-3-A
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 14:42:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-3-a
 Misc. Info.: 500-0087999-010
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:06:11 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:06:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	58.9	110.26
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	60.4	113.02
\$ 71 Toluene-d8 (Surr)	53.4	48.9	91.60
\$ 93 4-Bromofluorobenzene (Surr)	53.4	51.7	96.84

Eurofins Chicago

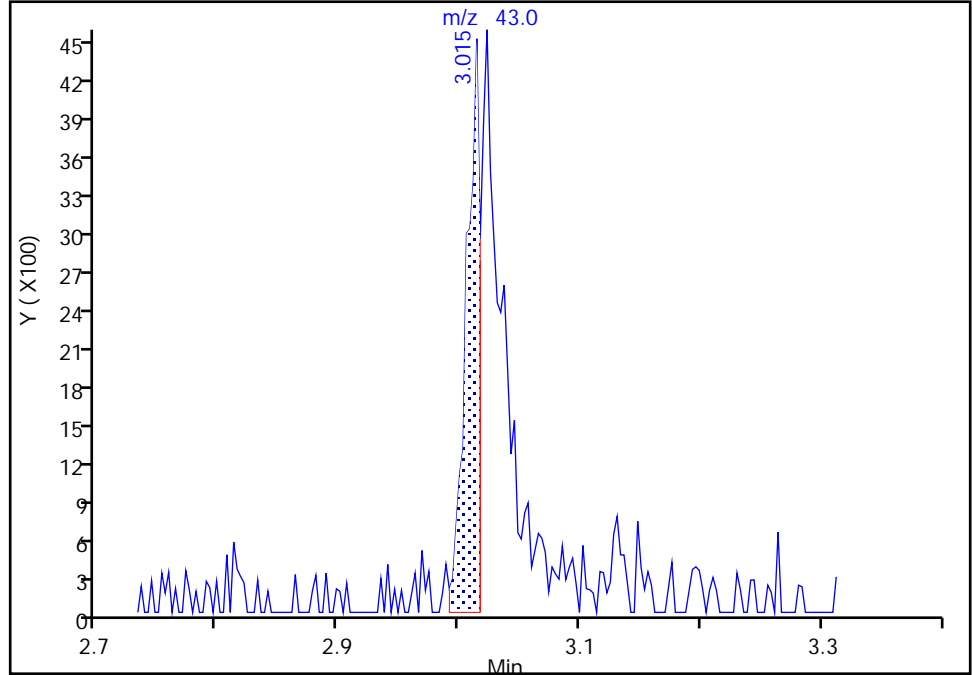
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D
Injection Date: 05-Sep-2022 14:42:30 Instrument ID: CMS16
Lims ID: 500-221506-A-3-A Lab Sample ID: 500-221506-3
Client ID: B-3 (22'-23.5')
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Signal: 1

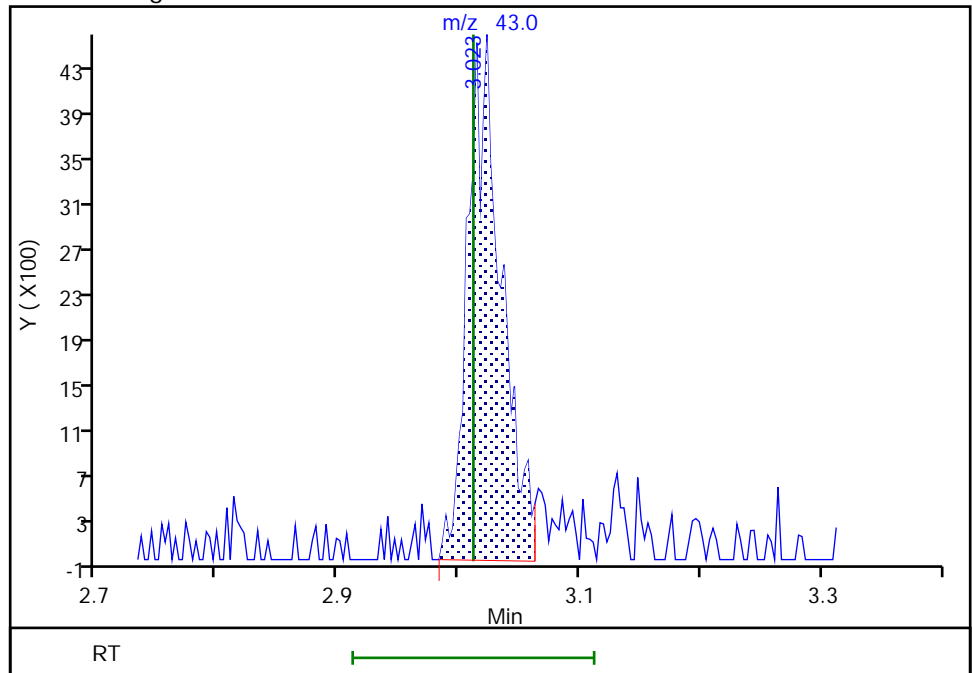
RT: 3.01
Area: 3406
Amount: 3.886837
Amount Units: UG/L

Processing Integration Results



RT: 3.02
Area: 8641
Amount: 9.860881
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:05:27
Audit Action: Manually Integrated

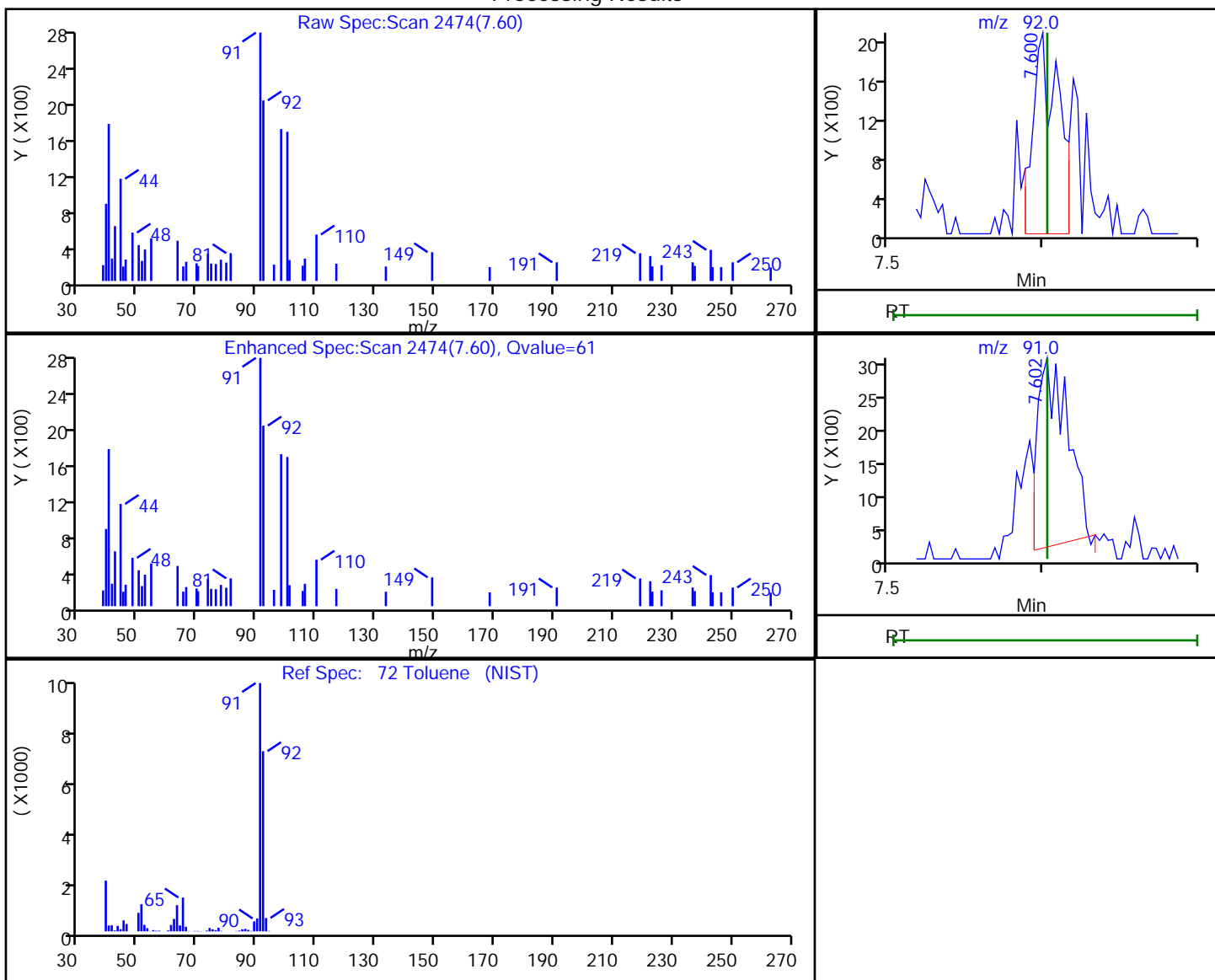
Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D
 Injection Date: 05-Sep-2022 14:42:30 Instrument ID: CMS16
 Lims ID: 500-221506-A-3-A Lab Sample ID: 500-221506-3
 Client ID: B-3 (22'-23.5')
 Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

72 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
7.60	92.00	2332	0.237554
7.60	91.00	3818	

Reviewer: thaneeratw, 06-Sep-2022 12:05:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

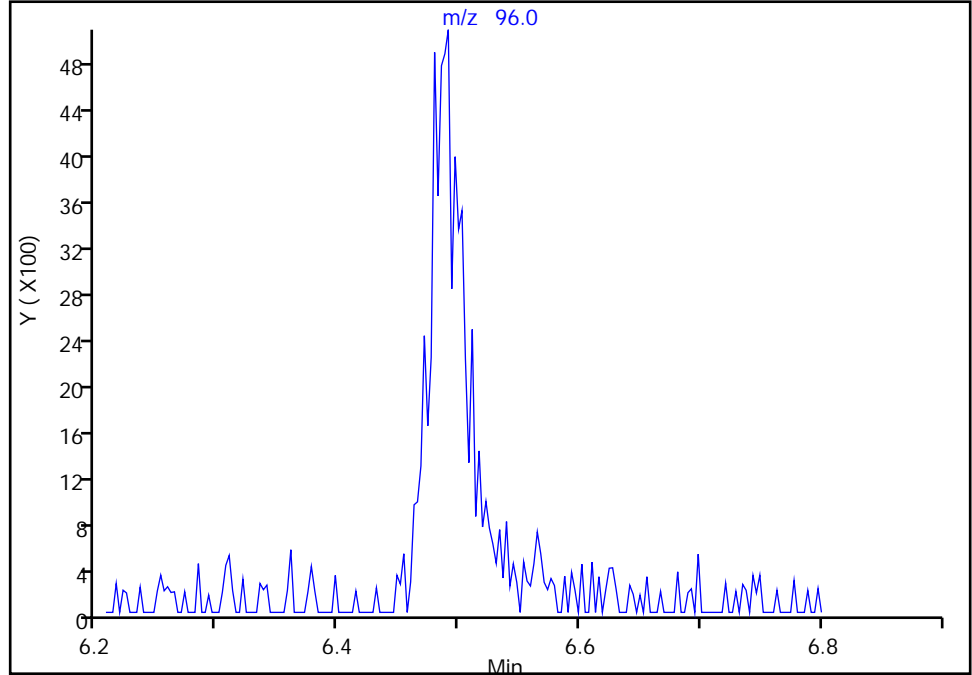
Eurofins Chicago

Data File:	\\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-3-a.D				
Injection Date:	05-Sep-2022 14:42:30	Instrument ID:	CMS16		
Lims ID:	500-221506-A-3-A	Lab Sample ID:	500-221506-3		
Client ID:	B-3 (22'-23.5')				
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260s16_test	Limit Group:	MSVOA_8260_ICAL_SOIL_LOW		
Column:	DB624 (0.20 mm)	Detector:	MS SCAN		

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

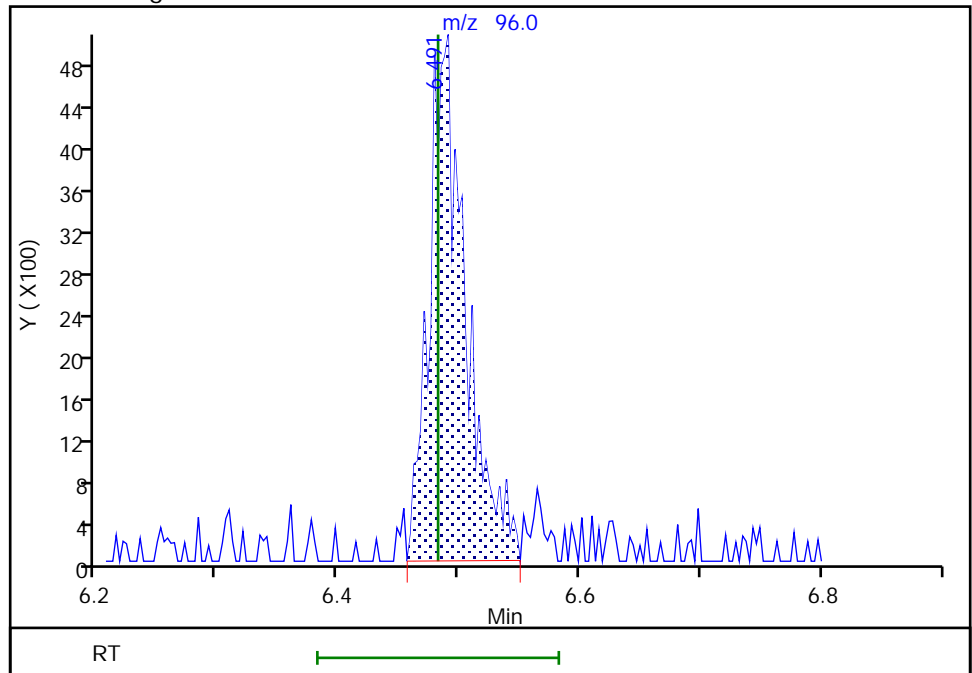
Not Detected
Expected RT: 6.48

Processing Integration Results



Manual Integration Results

RT: 6.49
Area: 10333
Amount: 1068.6000
Amount Units: UG/L



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-4 (20'-22') Lab Sample ID: 500-221506-4
 Matrix: Solid Lab File ID: 500-221506-a-4-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 12:18
 Sample wt/vol: 6.3466(g) Date Analyzed: 09/05/2022 15:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 18.7 % Solids: 81.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	<0.019		0.019	
71-43-2	Benzene	<0.0019		0.0019	
75-25-2	Bromoform	<0.0019		0.0019	
74-83-9	Bromomethane	<0.0048		0.0048	
78-93-3	2-Butanone (MEK)	<0.0048		0.0048	
75-15-0	Carbon disulfide	<0.0048		0.0048	
56-23-5	Carbon tetrachloride	<0.0019		0.0019	
108-90-7	Chlorobenzene	<0.0019		0.0019	
124-48-1	Chlorodibromomethane	<0.0019		0.0019	
75-00-3	Chloroethane	<0.0048		0.0048	
67-66-3	Chloroform	<0.0019		0.0019	
74-87-3	Chloromethane	<0.0048		0.0048	
156-59-2	cis-1,2-Dichloroethene	<0.0019		0.0019	
10061-01-5	cis-1,3-Dichloropropene	<0.0019		0.0019	
110-82-7	Cyclohexane	<0.0019		0.0019	
75-27-4	Dichlorobromomethane	<0.0019		0.0019	
75-34-3	1,1-Dichloroethane	<0.0019		0.0019	
107-06-2	1,2-Dichloroethane	<0.0048		0.0048	
75-35-4	1,1-Dichloroethene	<0.0019		0.0019	
78-87-5	1,2-Dichloropropane	<0.0019		0.0019	
123-91-1	1,4-Dioxane	<0.097		0.097	
100-41-4	Ethylbenzene	<0.0019		0.0019	
106-93-4	Ethylene Dibromide	<0.0019		0.0019	
591-78-6	2-Hexanone	<0.0048		0.0048	
98-82-8	Isopropylbenzene	<0.0019		0.0019	
79-20-9	Methyl acetate	<0.024		0.024	
108-87-2	Methylcyclohexane	<0.0019		0.0019	
75-09-2	Methylene Chloride	<0.0048		0.0048	
108-10-1	methyl isobutyl ketone	<0.0048		0.0048	
91-57-6	2-Methylnaphthalene	<0.0048		0.0048	
1634-04-4	Methyl tert-butyl ether	<0.0019		0.0019	
91-20-3	Naphthalene	<0.0048		0.0048	
100-42-5	Styrene	<0.0019		0.0019	
127-18-4	Tetrachloroethene	<0.0019		0.0019	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-4 (20'-22') Lab Sample ID: 500-221506-4
 Matrix: Solid Lab File ID: 500-221506-a-4-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 12:18
 Sample wt/vol: 6.3466(g) Date Analyzed: 09/05/2022 15:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 18.7 % Solids: 81.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0019		0.0019	
156-60-5	trans-1,2-Dichloroethene	<0.0019		0.0019	
10061-02-6	trans-1,3-Dichloropropene	<0.0019		0.0019	
71-55-6	1,1,1-Trichloroethane	<0.0019		0.0019	
79-00-5	1,1,2-Trichloroethane	<0.0019		0.0019	
79-01-6	Trichloroethene	<0.0019		0.0019	
75-69-4	Trichlorofluoromethane	<0.0048		0.0048	
95-63-6	1,2,4-Trimethylbenzene	<0.0019		0.0019	
108-67-8	1,3,5-Trimethylbenzene	<0.0019		0.0019	
108-05-4	Vinyl acetate	<0.0048		0.0048	
75-01-4	Vinyl chloride	<0.0019		0.0019	
1330-20-7	Xylenes, Total	<0.0039		0.0039	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		75-131
1868-53-7	Dibromofluoromethane	105		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-134
2037-26-5	Toluene-d8 (Surr)	93		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-4-a.D
 Lims ID: 500-221506-A-4-A
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 15:08:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-4-a
 Misc. Info.: 500-0087999-011
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 13:30:32 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1608

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:07:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
* 23 TBA-d9 (IS)	65	3.429	3.434	-0.005	94	181527	1068.6	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	74	174226	56.0	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	97	177047	54.8	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	98	691615	53.4	
59 Methylcyclohexane	83	6.364	6.369	-0.005	86	5688	0.7588	
* 62 1,4-Dioxane-d8	96	6.491	6.482	0.009	63	13510	1068.6	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	665096	49.8	
72 Toluene	92	7.600	7.603	-0.003	82	8405	0.8776	
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	85	549054	53.4	
87 m-Xylene & p-Xylene	91	9.641	9.639	-0.006	87	11691	0.8263	M
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	233640	51.9	
106 1,2,4-Trimethylbenzene	105	11.504	11.504	0.000	65	6185	0.4009	
* 110 1,4-Dichlorobenzene-d4	152	11.819	11.822	-0.003	95	302739	53.4	
S 124 Xylenes, Total	100				0		0.8263	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-4-a.D

Injection Date: 05-Sep-2022 15:08:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-4-A

Lab Sample ID: 500-221506-4

Worklist Smp#: 11

Client ID: B-4 (20'-22')

Purge Vol: 5.000 mL

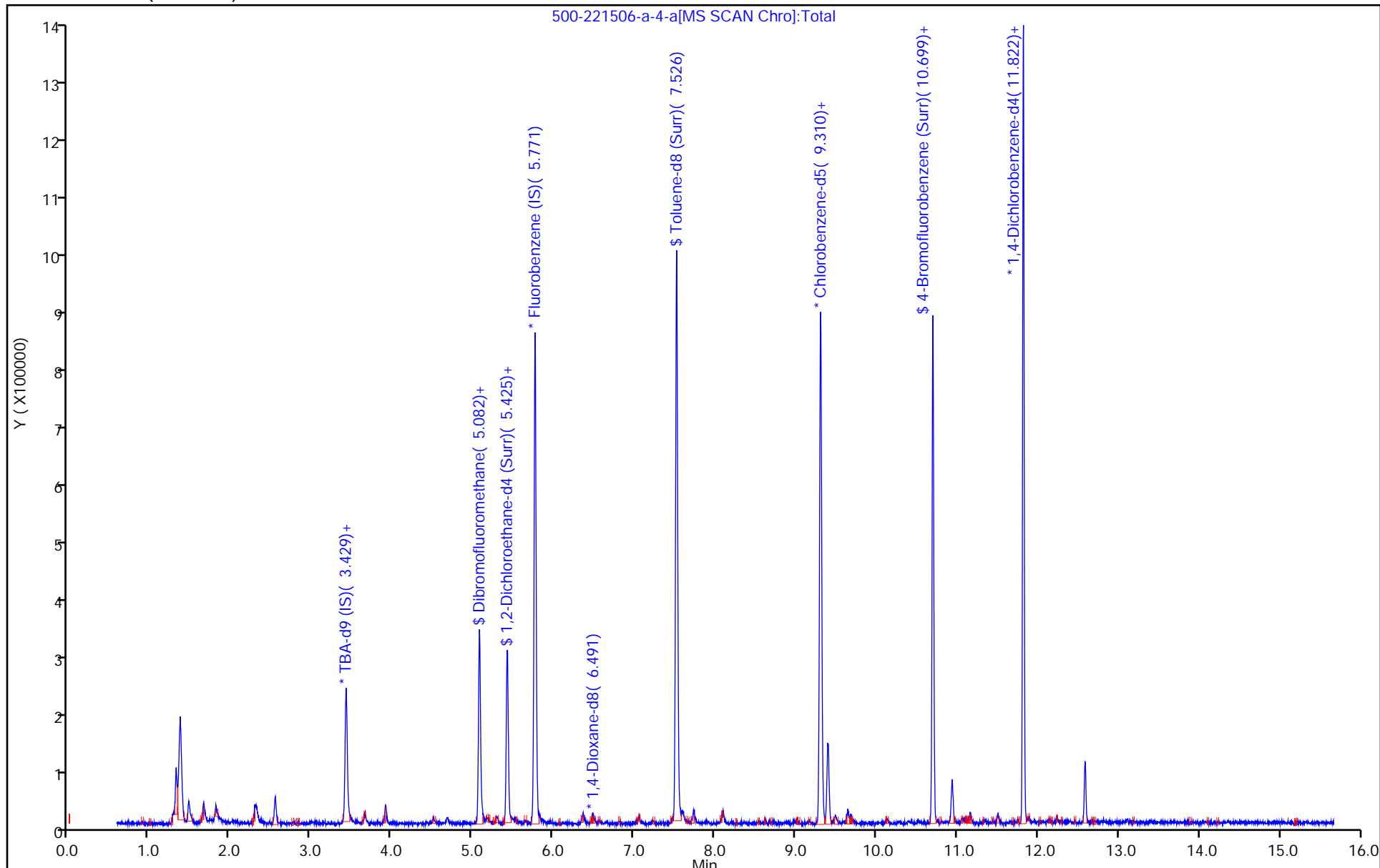
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-4-a.D
 Lims ID: 500-221506-A-4-A
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 15:08:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-4-a
 Misc. Info.: 500-0087999-011
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 13:30:32 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1608

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:07:52

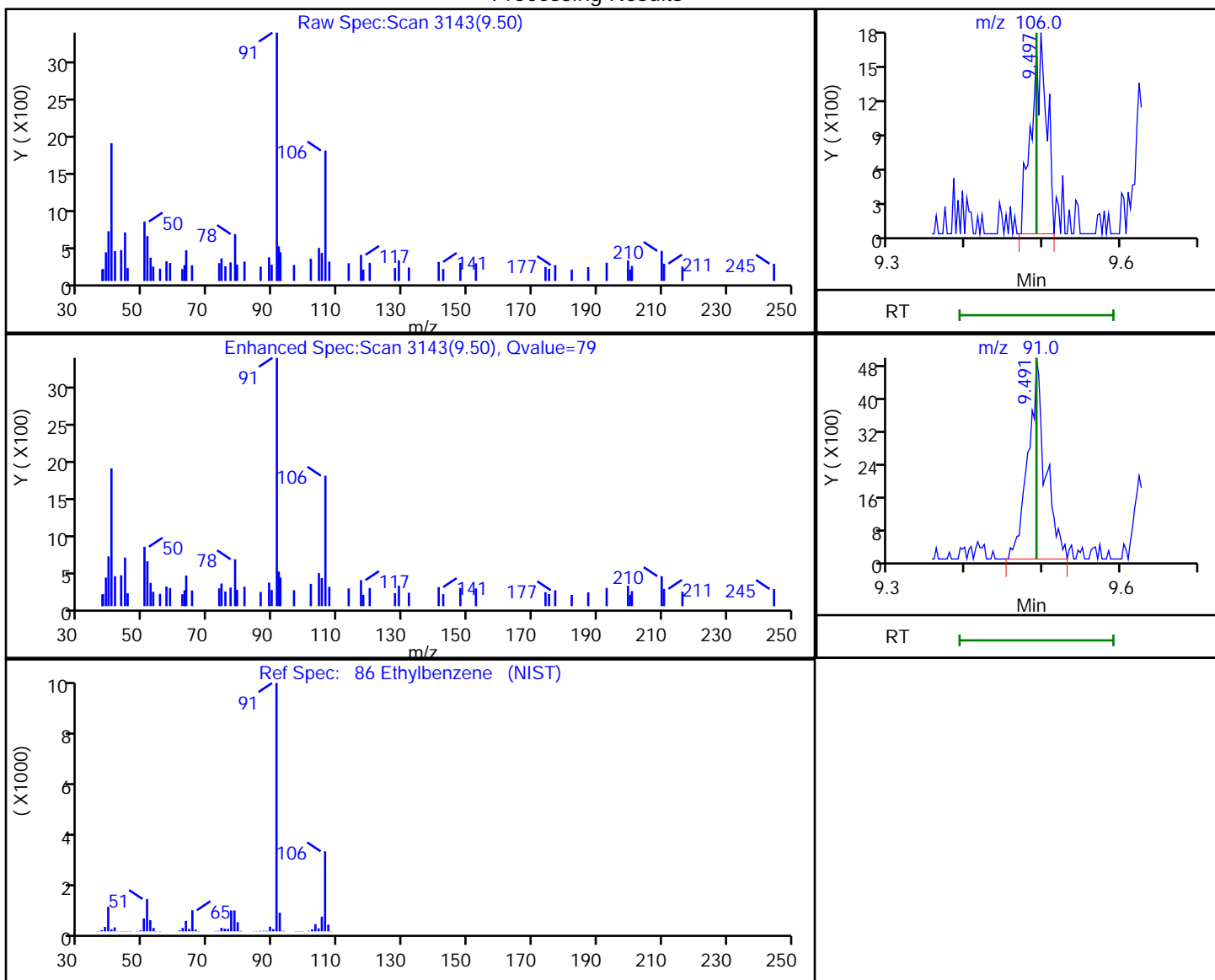
Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	56.0	104.84
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	54.8	102.62
\$ 71 Toluene-d8 (Surr)	53.4	49.8	93.17
\$ 93 4-Bromofluorobenzene (Surr)	53.4	51.9	97.22

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-4-a.D
 Injection Date: 05-Sep-2022 15:08:30 Instrument ID: CMS16
 Lims ID: 500-221506-A-4-A Lab Sample ID: 500-221506-4
 Client ID: B-4 (20'-22')
 Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

86 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.50	106.00	2364	0.408134
9.49	91.00	7768	

Reviewer: thaneeratw, 06-Sep-2022 12:07:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

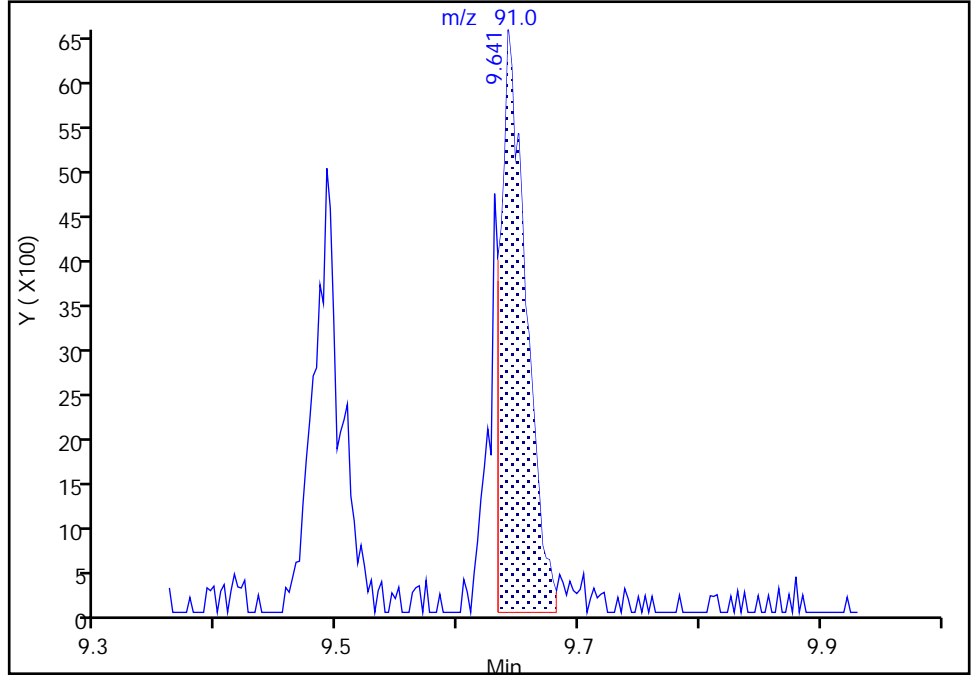
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-4-a.D
Injection Date: 05-Sep-2022 15:08:30 Instrument ID: CMS16
Lims ID: 500-221506-A-4-A Lab Sample ID: 500-221506-4
Client ID: B-4 (20'-22')
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

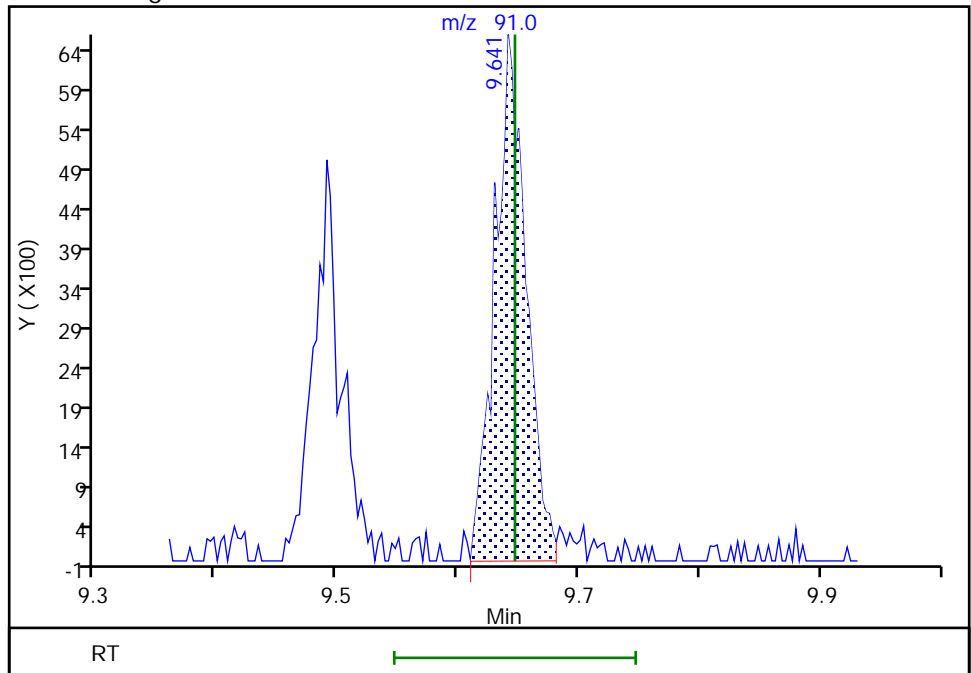
RT: 9.64
Area: 9529
Amount: 0.673515
Amount Units: UG/L

Processing Integration Results



RT: 9.64
Area: 11691
Amount: 0.826326
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:07:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') Lab Sample ID: 500-221506-5
 Matrix: Solid Lab File ID: 500-221506-a-5-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.4058(g) Date Analyzed: 09/05/2022 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	<0.021		0.021	
71-43-2	Benzene	<0.0021		0.0021	
75-25-2	Bromoform	<0.0021		0.0021	
74-83-9	Bromomethane	<0.0052		0.0052	
78-93-3	2-Butanone (MEK)	<0.0052	F2	0.0052	
75-15-0	Carbon disulfide	<0.0052		0.0052	
56-23-5	Carbon tetrachloride	<0.0021		0.0021	
108-90-7	Chlorobenzene	<0.0021		0.0021	
124-48-1	Chlorodibromomethane	<0.0021		0.0021	
75-00-3	Chloroethane	<0.0052		0.0052	
67-66-3	Chloroform	<0.0021		0.0021	
74-87-3	Chloromethane	<0.0052		0.0052	
156-59-2	cis-1,2-Dichloroethene	<0.0021		0.0021	
10061-01-5	cis-1,3-Dichloropropene	<0.0021		0.0021	
110-82-7	Cyclohexane	<0.0021		0.0021	
75-27-4	Dichlorobromomethane	<0.0021		0.0021	
75-34-3	1,1-Dichloroethane	<0.0021		0.0021	
107-06-2	1,2-Dichloroethane	<0.0052		0.0052	
75-35-4	1,1-Dichloroethene	<0.0021		0.0021	
78-87-5	1,2-Dichloropropane	<0.0021		0.0021	
123-91-1	1,4-Dioxane	<0.10	F1	0.10	
100-41-4	Ethylbenzene	<0.0021		0.0021	
106-93-4	Ethylene Dibromide	<0.0021		0.0021	
591-78-6	2-Hexanone	<0.0052		0.0052	
98-82-8	Isopropylbenzene	<0.0021	F1	0.0021	
79-20-9	Methyl acetate	<0.026		0.026	
108-87-2	Methylcyclohexane	<0.0021		0.0021	
75-09-2	Methylene Chloride	<0.0052		0.0052	
108-10-1	methyl isobutyl ketone	<0.0052		0.0052	
91-57-6	2-Methylnaphthalene	<0.0052		0.0052	
1634-04-4	Methyl tert-butyl ether	<0.0021		0.0021	
91-20-3	Naphthalene	<0.0052	F1	0.0052	
100-42-5	Styrene	<0.0021		0.0021	
127-18-4	Tetrachloroethene	<0.0021		0.0021	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') Lab Sample ID: 500-221506-5
 Matrix: Solid Lab File ID: 500-221506-a-5-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.4058(g) Date Analyzed: 09/05/2022 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0021		0.0021	
156-60-5	trans-1,2-Dichloroethene	<0.0021		0.0021	
10061-02-6	trans-1,3-Dichloropropene	<0.0021		0.0021	
71-55-6	1,1,1-Trichloroethane	<0.0021		0.0021	
79-00-5	1,1,2-Trichloroethane	<0.0021		0.0021	
79-01-6	Trichloroethene	<0.0021		0.0021	
75-69-4	Trichlorofluoromethane	<0.0052		0.0052	
95-63-6	1,2,4-Trimethylbenzene	<0.0021	F1	0.0021	
108-67-8	1,3,5-Trimethylbenzene	<0.0021	F1	0.0021	
108-05-4	Vinyl acetate	<0.0052	F2	0.0052	
75-01-4	Vinyl chloride	<0.0021		0.0021	
1330-20-7	Xylenes, Total	<0.0041		0.0041	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		75-131
1868-53-7	Dibromofluoromethane	107		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-134
2037-26-5	Toluene-d8 (Surr)	92		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-a.D
 Lims ID: 500-221506-A-5-A
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 15:34:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-a
 Misc. Info.: 500-0087999-012
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:08:48 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:08:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
* 23 TBA-d9 (IS)	65	3.431	3.434	-0.003	93	177260	1068.6	
\$ 43 Dibromofluoromethane	113	5.085	5.085	0.000	59	170983	57.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.428	5.425	0.003	97	185396	59.9	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	662952	53.4	
* 62 1,4-Dioxane-d8	96	6.491	6.482	0.009	56	9846	1068.6	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	641267	49.0	
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	86	537349	53.4	
87 m-Xylene & p-Xylene	91	9.641	9.641	-0.006	85	7357	0.5313	M
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	225157	51.2	
* 110 1,4-Dichlorobenzene-d4	152	11.819	11.822	-0.003	95	296265	53.4	
S 124 Xylenes, Total	100				0		0.5313	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-a.D

Injection Date: 05-Sep-2022 15:34:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-5-A

Lab Sample ID: 500-221506-5

Worklist Smp#: 12

Client ID: B-5 (8'-10')

Purge Vol: 5.000 mL

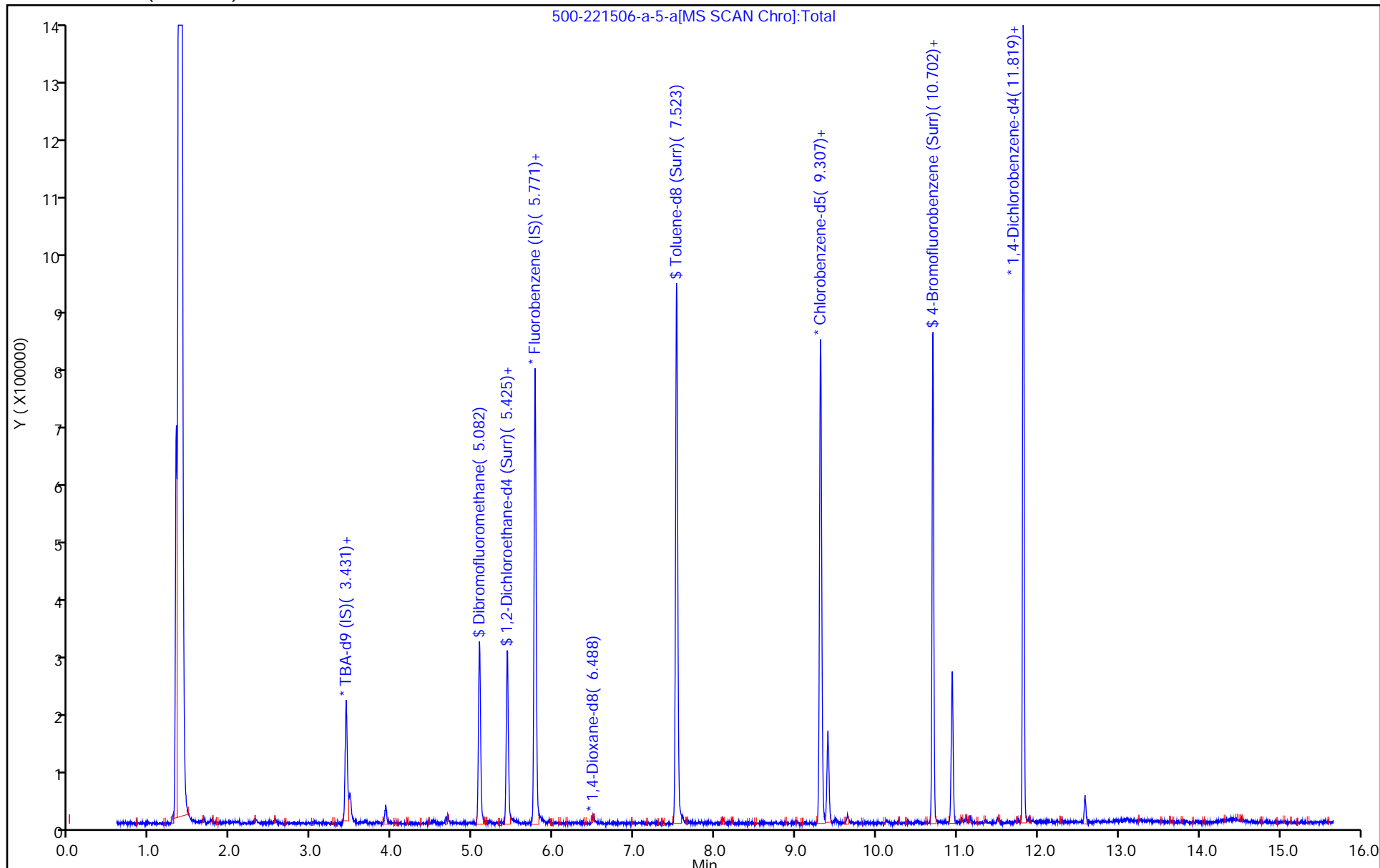
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-a.D
 Lims ID: 500-221506-A-5-A
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 15:34:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-a
 Misc. Info.: 500-0087999-012
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:08:48 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:08:48

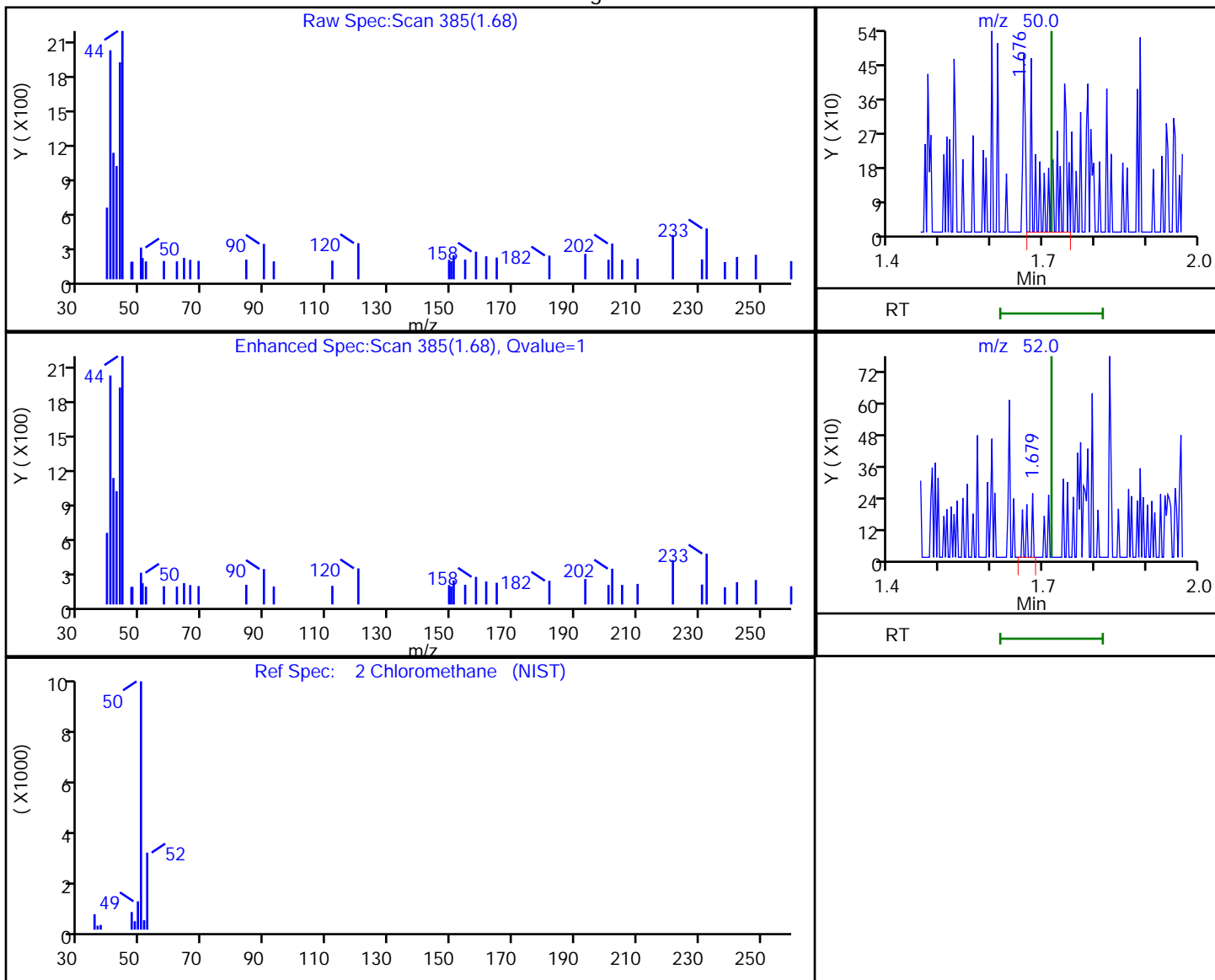
Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	57.3	107.33
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	59.9	112.10
\$ 71 Toluene-d8 (Surr)	53.4	49.0	91.79
\$ 93 4-Bromofluorobenzene (Surr)	53.4	51.2	95.74

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-a.D
 Injection Date: 05-Sep-2022 15:34:30 Instrument ID: CMS16
 Lims ID: 500-221506-A-5-A Lab Sample ID: 500-221506-5
 Client ID: B-5 (8'-10')
 Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.68	50.00	490	0.493975
1.68	52.00	109	

Reviewer: thaneeratw, 06-Sep-2022 12:08:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

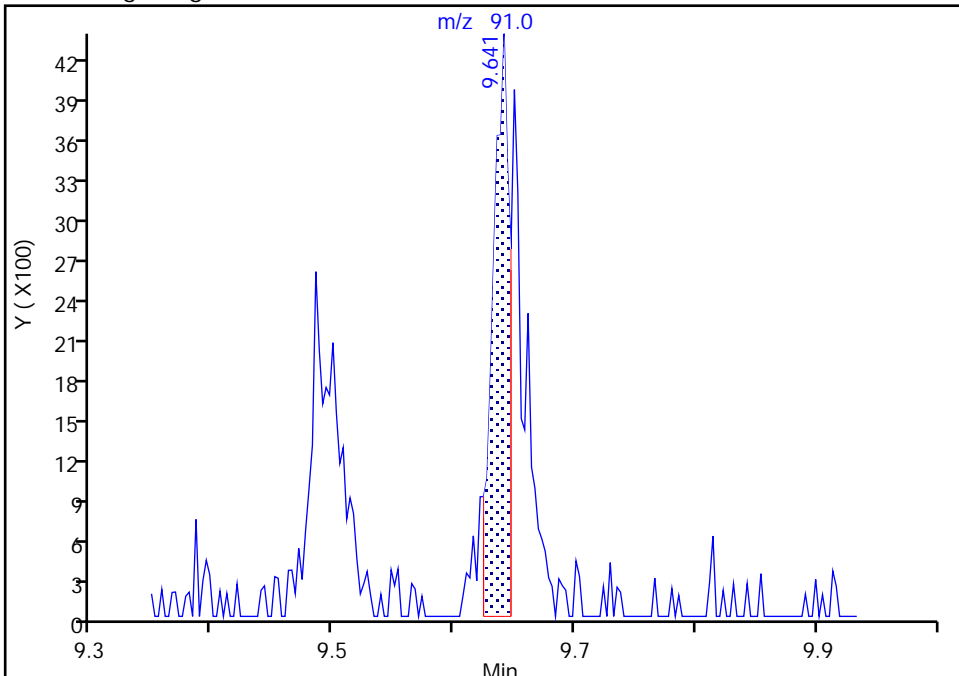
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-a.D
Injection Date: 05-Sep-2022 15:34:30 Instrument ID: CMS16
Lims ID: 500-221506-A-5-A Lab Sample ID: 500-221506-5
Client ID: B-5 (8'-10')
Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

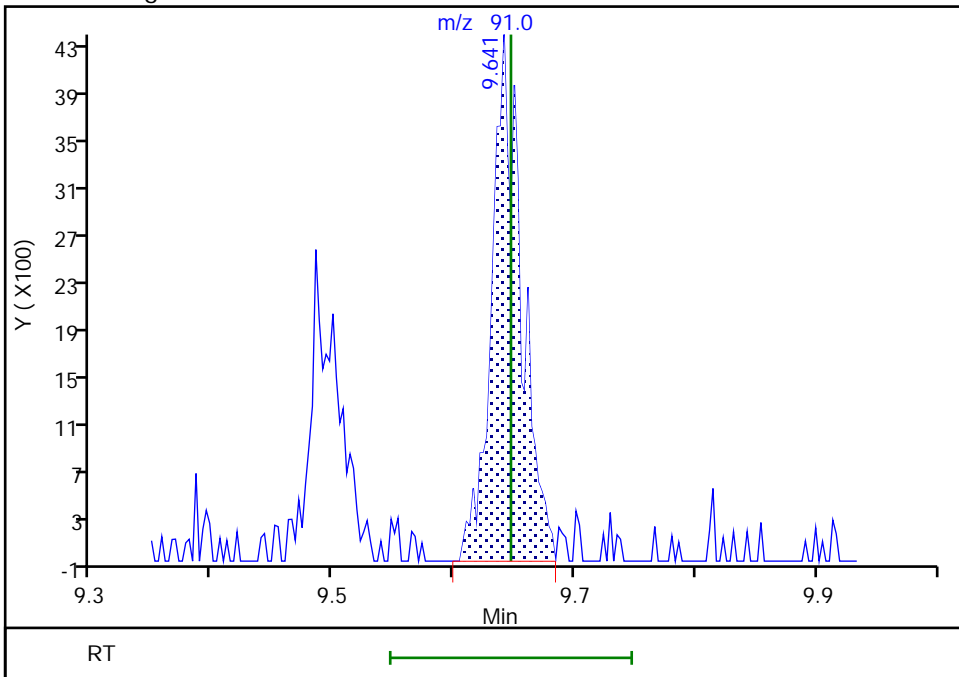
RT: 9.64
Area: 4104
Amount: 0.296391
Amount Units: UG/L

Processing Integration Results



RT: 9.64
Area: 7357
Amount: 0.531324
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:08:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-6 (30'-32') Lab Sample ID: 500-221506-6
 Matrix: Solid Lab File ID: 500-221506-a-6-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 15:33
 Sample wt/vol: 6.5283(g) Date Analyzed: 09/05/2022 16:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 17.2 % Solids: 82.8 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	<0.019		0.019
71-43-2	Benzene	<0.0019		0.0019
75-25-2	Bromoform	<0.0019		0.0019
74-83-9	Bromomethane	<0.0046		0.0046
78-93-3	2-Butanone (MEK)	<0.0046		0.0046
75-15-0	Carbon disulfide	<0.0046		0.0046
56-23-5	Carbon tetrachloride	<0.0019		0.0019
108-90-7	Chlorobenzene	<0.0019		0.0019
124-48-1	Chlorodibromomethane	<0.0019		0.0019
75-00-3	Chloroethane	<0.0046		0.0046
67-66-3	Chloroform	<0.0019		0.0019
74-87-3	Chloromethane	<0.0046		0.0046
156-59-2	cis-1,2-Dichloroethene	<0.0019		0.0019
10061-01-5	cis-1,3-Dichloropropene	<0.0019		0.0019
110-82-7	Cyclohexane	<0.0019		0.0019
75-27-4	Dichlorobromomethane	<0.0019		0.0019
75-34-3	1,1-Dichloroethane	<0.0019		0.0019
107-06-2	1,2-Dichloroethane	<0.0046		0.0046
75-35-4	1,1-Dichloroethene	<0.0019		0.0019
78-87-5	1,2-Dichloropropane	<0.0019		0.0019
123-91-1	1,4-Dioxane	<0.093		0.093
100-41-4	Ethylbenzene	<0.0019		0.0019
106-93-4	Ethylene Dibromide	<0.0019		0.0019
591-78-6	2-Hexanone	<0.0046		0.0046
98-82-8	Isopropylbenzene	<0.0019		0.0019
79-20-9	Methyl acetate	<0.023		0.023
108-87-2	Methylcyclohexane	<0.0019		0.0019
75-09-2	Methylene Chloride	<0.0046		0.0046
108-10-1	methyl isobutyl ketone	<0.0046		0.0046
91-57-6	2-Methylnaphthalene	<0.0046		0.0046
1634-04-4	Methyl tert-butyl ether	<0.0019		0.0019
91-20-3	Naphthalene	<0.0046		0.0046
100-42-5	Styrene	<0.0019		0.0019
127-18-4	Tetrachloroethene	<0.0019		0.0019

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-6 (30'-32') Lab Sample ID: 500-221506-6
 Matrix: Solid Lab File ID: 500-221506-a-6-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 15:33
 Sample wt/vol: 6.5283(g) Date Analyzed: 09/05/2022 16:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 17.2 % Solids: 82.8 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0019		0.0019	
156-60-5	trans-1,2-Dichloroethene	<0.0019		0.0019	
10061-02-6	trans-1,3-Dichloropropene	<0.0019		0.0019	
71-55-6	1,1,1-Trichloroethane	<0.0019		0.0019	
79-00-5	1,1,2-Trichloroethane	<0.0019		0.0019	
79-01-6	Trichloroethene	<0.0019		0.0019	
75-69-4	Trichlorofluoromethane	<0.0046		0.0046	
95-63-6	1,2,4-Trimethylbenzene	<0.0019		0.0019	
108-67-8	1,3,5-Trimethylbenzene	<0.0019		0.0019	
108-05-4	Vinyl acetate	<0.0046		0.0046	
75-01-4	Vinyl chloride	<0.0019		0.0019	
1330-20-7	Xylenes, Total	<0.0037		0.0037	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		75-131
1868-53-7	Dibromofluoromethane	107		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-134
2037-26-5	Toluene-d8 (Surr)	94		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
 Lims ID: 500-221506-A-6-A
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 16:00:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-6-a
 Misc. Info.: 500-0087999-013
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:12:27 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:12:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
* 23 TBA-d9 (IS)	65	3.432	3.434	-0.002	93	177305	1068.6	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	66	175750	57.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.428	5.425	0.003	97	178093	56.0	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	681670	53.4	
* 62 1,4-Dioxane-d8	96	6.494	6.482	0.012	56	11541	1068.6	a
\$ 71 Toluene-d8 (Surr)	98	7.523	7.526	-0.003	85	656562	50.3	
72 Toluene	92	7.600	7.603	-0.003	82	4817	0.5151	
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	85	536119	53.4	
87 m-Xylene & p-Xylene	91	9.641	9.641	-0.006	85	10223	0.7400	M
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	231722	52.6	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	95	296525	53.4	
S 124 Xylenes, Total	100				0		0.7400	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D

Injection Date: 05-Sep-2022 16:00:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-6-A

Lab Sample ID: 500-221506-6

Worklist Smp#: 13

Client ID: B-6 (30'-32')

Purge Vol: 5.000 mL

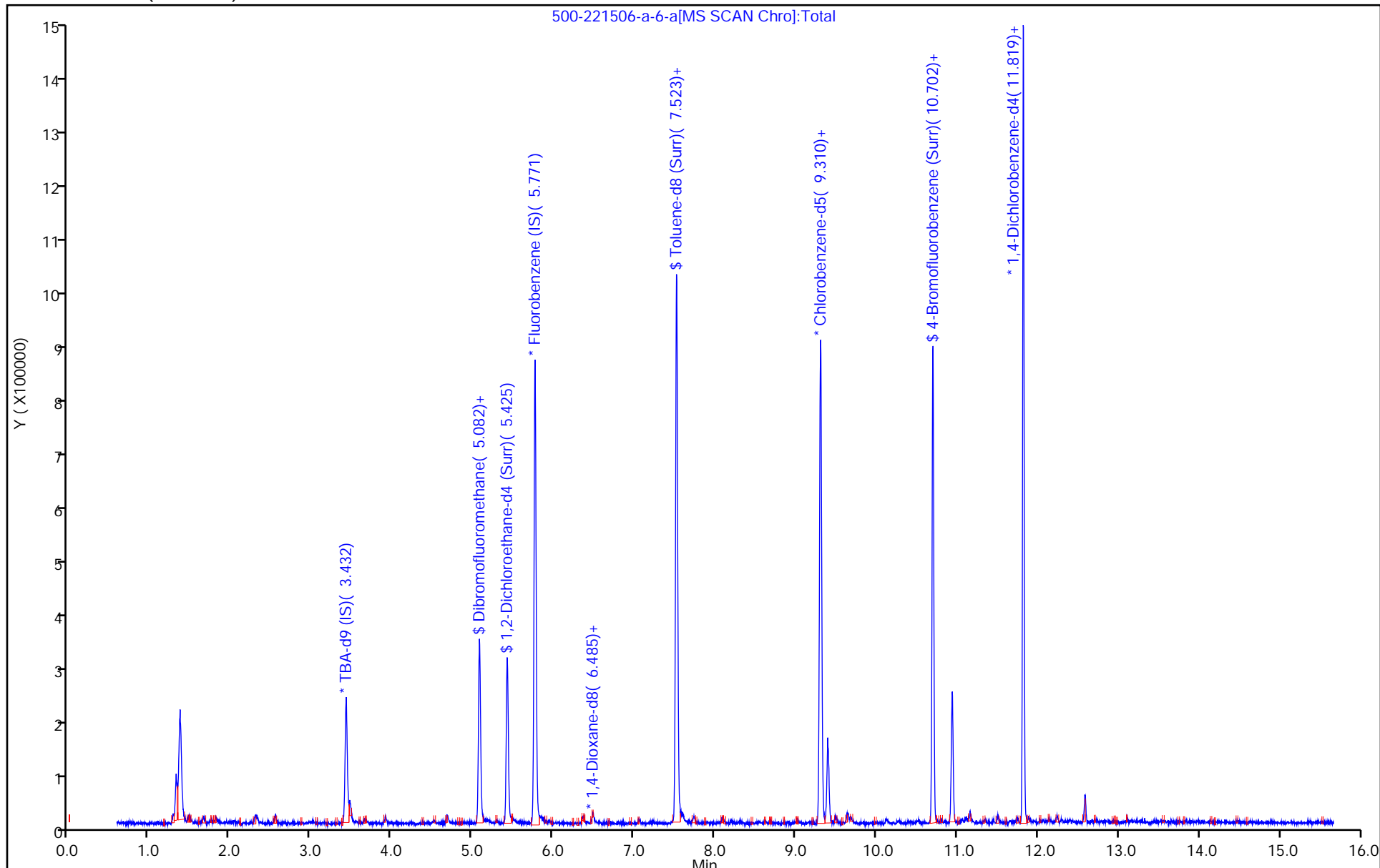
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
 Lims ID: 500-221506-A-6-A
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 05-Sep-2022 16:00:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-6-a
 Misc. Info.: 500-0087999-013
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:12:27 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:12:27

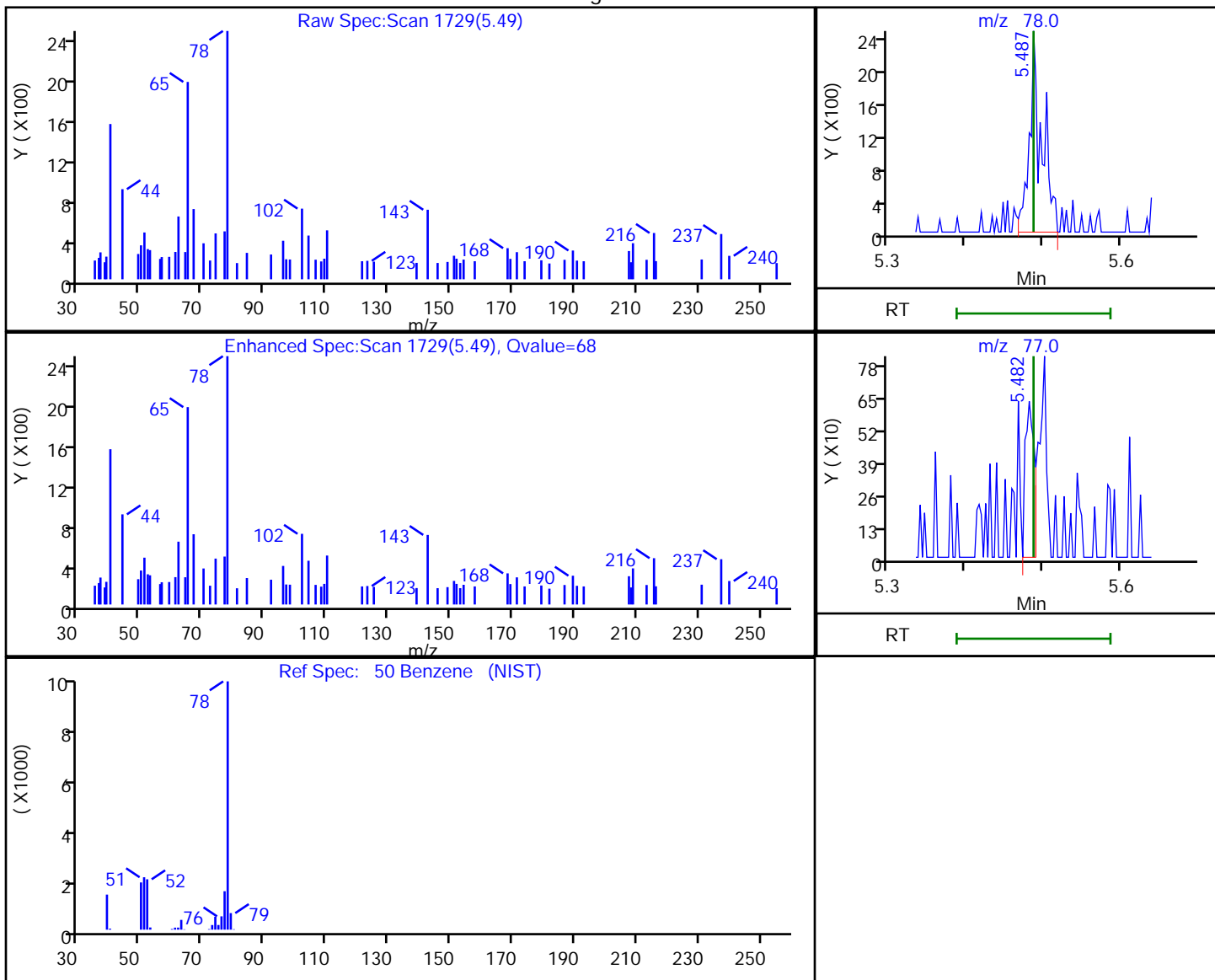
Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	57.3	107.30
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	56.0	104.73
\$ 71 Toluene-d8 (Surr)	53.4	50.3	94.19
\$ 93 4-Bromofluorobenzene (Surr)	53.4	52.6	98.44

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
 Injection Date: 05-Sep-2022 16:00:30 Instrument ID: CMS16
 Lims ID: 500-221506-A-6-A Lab Sample ID: 500-221506-6
 Client ID: B-6 (30'-32')
 Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

50 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
5.49	78.00	2658	0.189391
5.48	77.00	507	

Reviewer: thaneeratw, 06-Sep-2022 12:10:08

Audit Action: Marked Compound Undetected

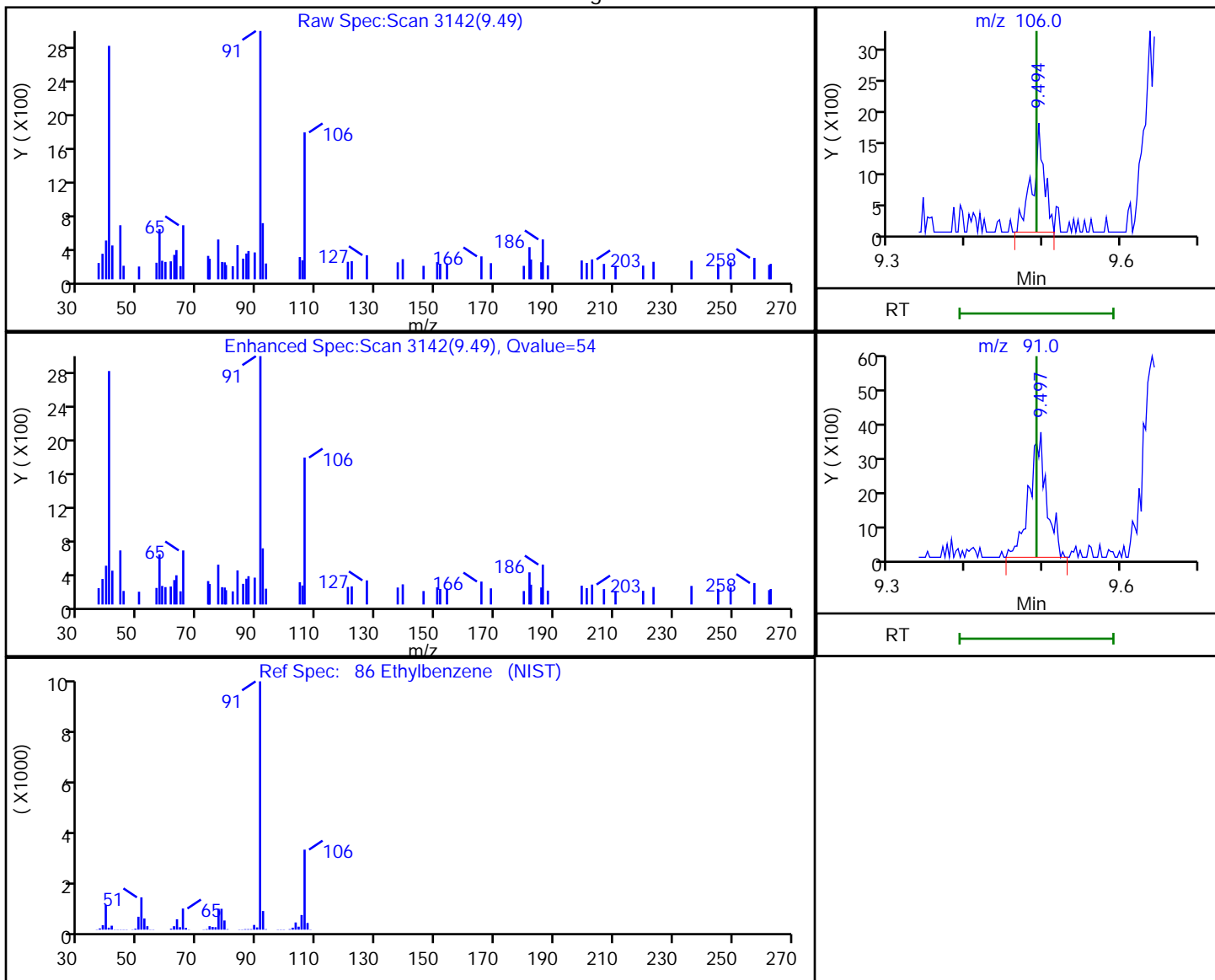
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
Injection Date: 05-Sep-2022 16:00:30 Instrument ID: CMS16
Lims ID: 500-221506-A-6-A Lab Sample ID: 500-221506-6
Client ID: B-6 (30'-32')
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

86 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.49	106.00	1869	0.330459
9.50	91.00	5770	

Reviewer: thaneeratw, 06-Sep-2022 12:10:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

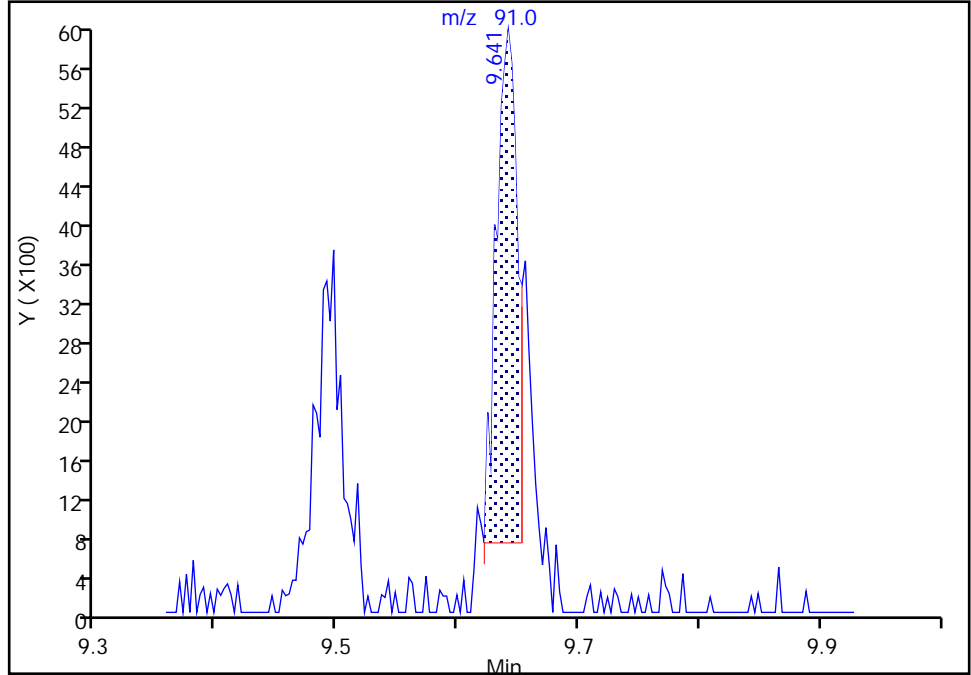
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
Injection Date: 05-Sep-2022 16:00:30 Instrument ID: CMS16
Lims ID: 500-221506-A-6-A Lab Sample ID: 500-221506-6
Client ID: B-6 (30'-32')
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

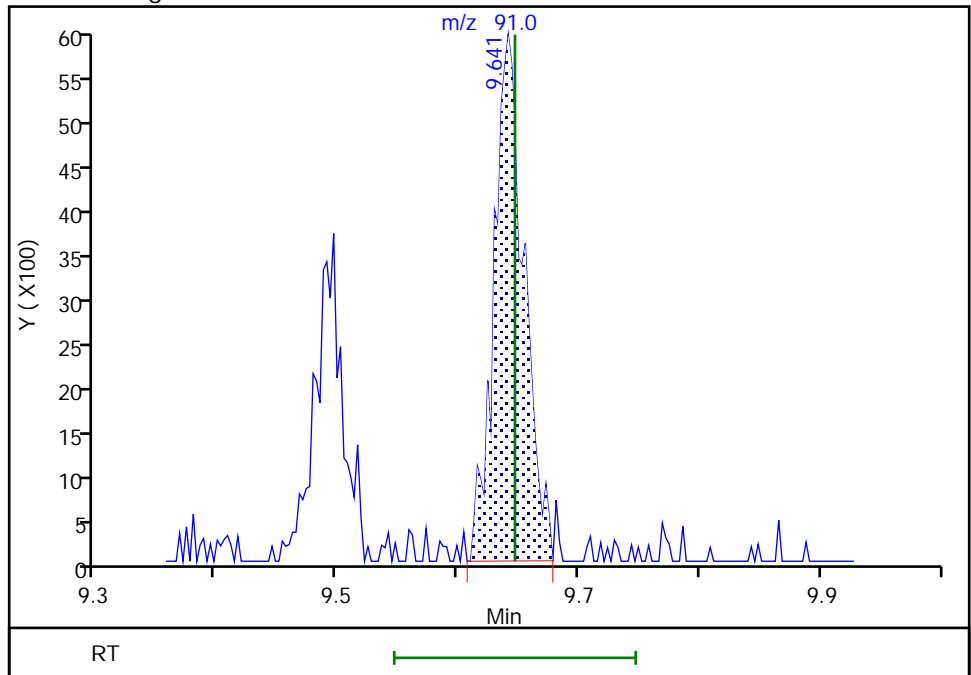
RT: 9.64
Area: 6305
Amount: 0.456393
Amount Units: UG/L

Processing Integration Results



RT: 9.64
Area: 10223
Amount: 0.740000
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:10:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

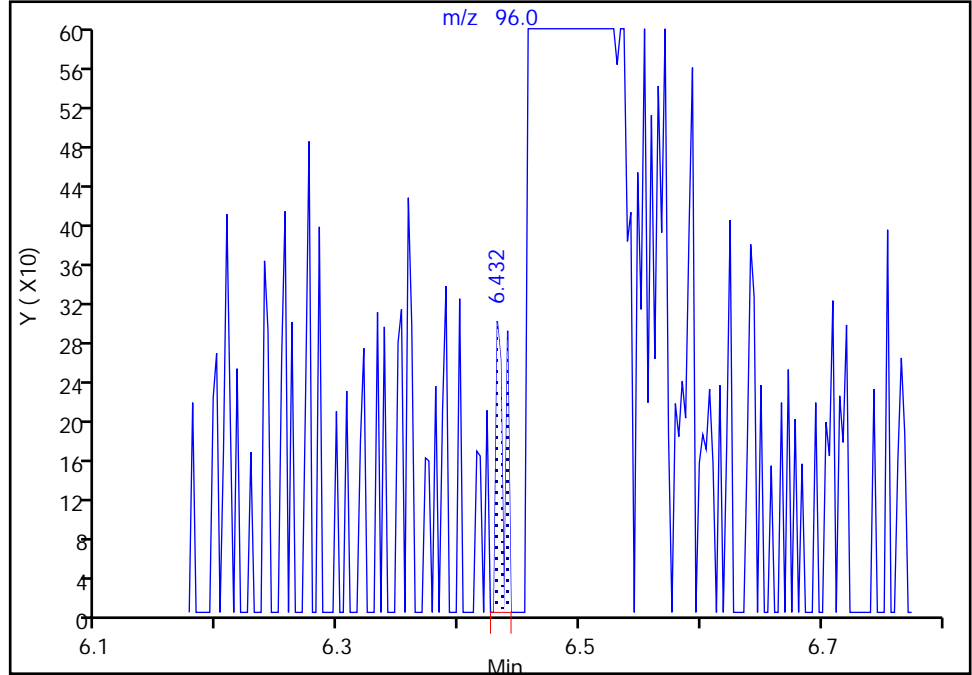
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-6-a.D
Injection Date: 05-Sep-2022 16:00:30 Instrument ID: CMS16
Lims ID: 500-221506-A-6-A Lab Sample ID: 500-221506-6
Client ID: B-6 (30'-32')
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

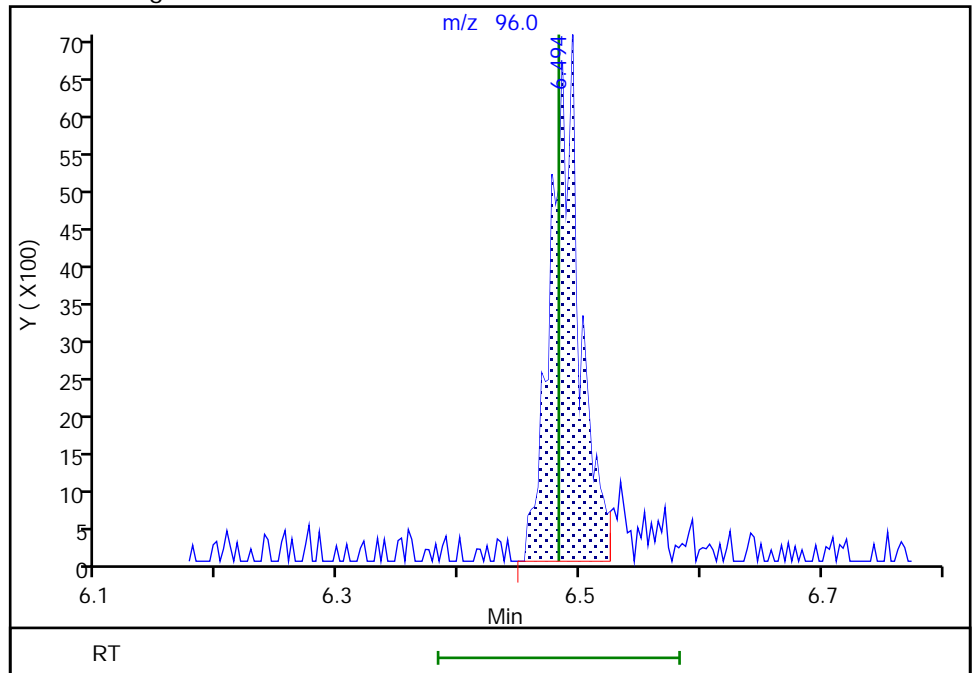
RT: 6.43
Area: 145
Amount: 1068.6000
Amount Units: UG/L

Processing Integration Results



RT: 6.49
Area: 11541
Amount: 1068.6000
Amount Units: UG/L

Manual Integration Results



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 500-221506-7
 Matrix: Water Lab File ID: 500-221506-B-7.d
 Analysis Method: 8260B Date Collected: 08/29/2022 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 13:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	<10		10
71-43-2	Benzene	<0.50		0.50
75-25-2	Bromoform	<1.0		1.0
74-83-9	Bromomethane	<3.0		3.0
78-93-3	2-Butanone (MEK)	<5.0		5.0
75-15-0	Carbon disulfide	<2.0		2.0
56-23-5	Carbon tetrachloride	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
67-66-3	Chloroform	<2.0		2.0
74-87-3	Chloromethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
110-82-7	Cyclohexane	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
75-35-4	1,1-Dichloroethene	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
123-91-1	1,4-Dioxane	<100		100
100-41-4	Ethylbenzene	<0.50		0.50
106-93-4	Ethylene Dibromide	<1.0		1.0
591-78-6	2-Hexanone	<5.0		5.0
98-82-8	Isopropylbenzene	<1.0		1.0
79-20-9	Methyl acetate	<5.0		5.0
108-87-2	Methylcyclohexane	<1.0		1.0
75-09-2	Methylene Chloride	<5.0		5.0
108-10-1	methyl isobutyl ketone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
1634-04-4	Methyl tert-butyl ether	<1.0		1.0
91-20-3	Naphthalene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
127-18-4	Tetrachloroethene	<1.0		1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 500-221506-7
 Matrix: Water Lab File ID: 500-221506-B-7.d
 Analysis Method: 8260B Date Collected: 08/29/2022 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 13:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.50		0.50	
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	
79-01-6	Trichloroethene	<0.50		0.50	
75-69-4	Trichlorofluoromethane	<1.0		1.0	
95-63-6	1,2,4-Trimethylbenzene	<1.0		1.0	
108-67-8	1,3,5-Trimethylbenzene	<1.0		1.0	
108-05-4	Vinyl acetate	<2.0		2.0	
75-01-4	Vinyl chloride	<1.0		1.0	
1330-20-7	Xylenes, Total	<1.0		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		72-124
1868-53-7	Dibromofluoromethane	90		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-126
2037-26-5	Toluene-d8 (Surr)	92		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\500-221506-B-7.d
 Lims ID: 500-221506-B-7
 Client ID: Trip Blank
 Sample Type: Client
 Inject. Date: 09-Sep-2022 13:43:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-B-7
 Misc. Info.: 500-0088095-009
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 15:03:08 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8 Date: 09-Sep-2022 15:03:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
15 Acetone	43	3.184	3.184	0.000	64	1118	3.50	
* 23 TBA-d9 (IS)	65	3.607	3.617	-0.010	98	78412	1000.0	
\$ 43 Dibromofluoromethane	113	5.281	5.281	0.000	59	126775	44.9	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	94	115305	51.3	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	628776	50.0	
* 62 1,4-Dioxane-d8	96	6.704	6.704	0.000	67	10373	1000.0	
\$ 71 Toluene-d8 (Surr)	98	7.737	7.737	0.000	93	595496	45.9	
* 82 Chlorobenzene-d5	117	9.534	9.529	0.005	82	456333	50.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	89	194679	52.0	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	223928	50.0	

QC Flag Legend

Processing Flags

Reagents:

8260LOW IS/SS_00313 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\500-221506-B-7.d

Injection Date: 09-Sep-2022 13:43:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: 500-221506-B-7

Lab Sample ID: 500-221506-7

Worklist Smp#: 9

Client ID: Trip Blank

Purge Vol: 5.000 mL

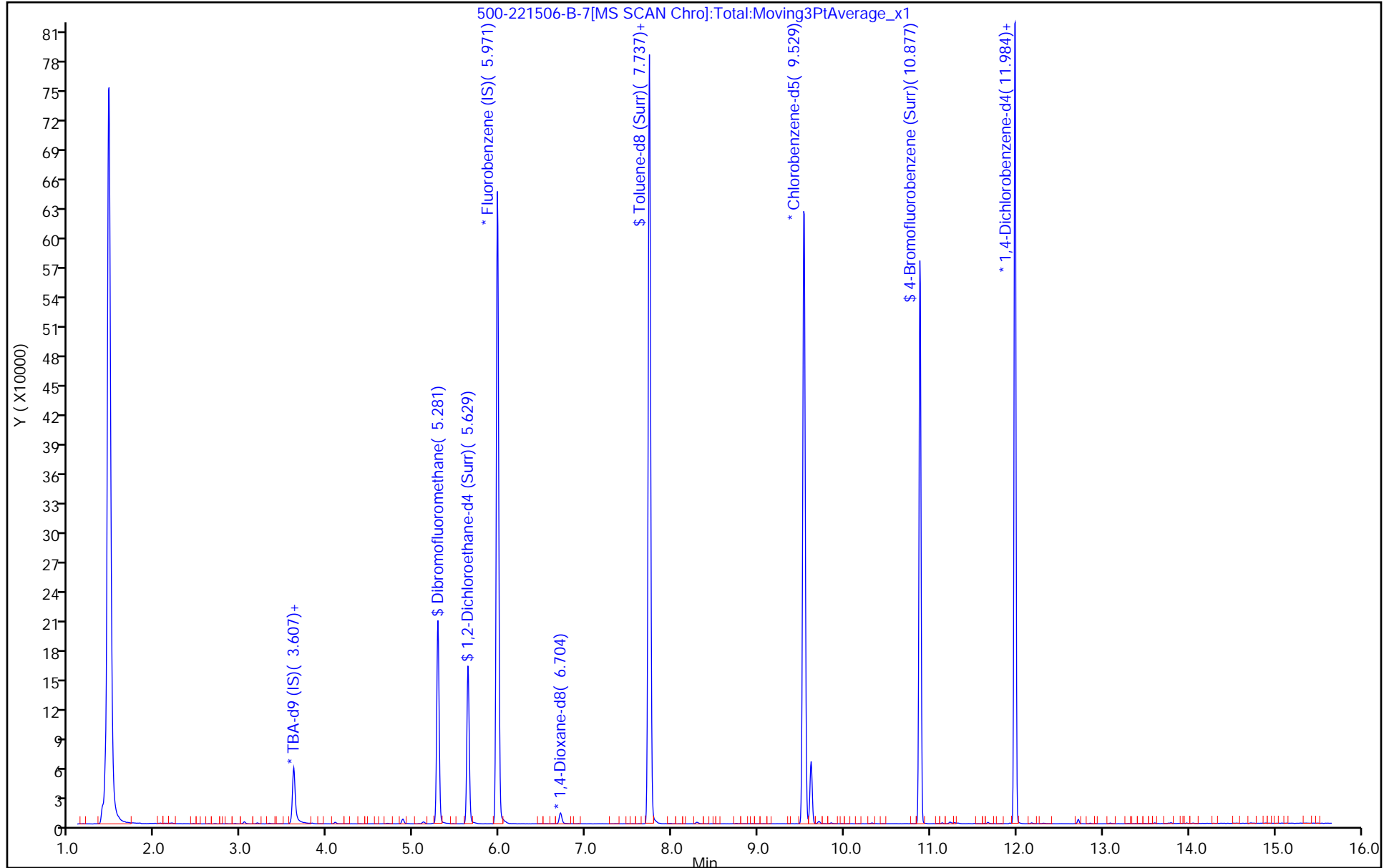
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\500-221506-B-7.d
 Lims ID: 500-221506-B-7
 Client ID: Trip Blank
 Sample Type: Client
 Inject. Date: 09-Sep-2022 13:43:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-B-7
 Misc. Info.: 500-0088095-009
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 15:03:08 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8

Date: 09-Sep-2022 15:03:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	44.9	89.72
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.53
\$ 71 Toluene-d8 (Surr)	50.0	45.9	91.75
\$ 94 4-Bromofluorobenzene (Surr)	50.0	52.0	104.04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Dup-1 Lab Sample ID: 500-221506-8
 Matrix: Solid Lab File ID: 500-221506-a-8-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 00:00
 Sample wt/vol: 6.961(g) Date Analyzed: 09/05/2022 16:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 19.4 % Solids: 80.6 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.089		0.018
71-43-2	Benzene	<0.0018		0.0018
75-25-2	Bromoform	<0.0018		0.0018
74-83-9	Bromomethane	<0.0045		0.0045
78-93-3	2-Butanone (MEK)	0.018		0.0045
75-15-0	Carbon disulfide	<0.0045		0.0045
56-23-5	Carbon tetrachloride	<0.0018		0.0018
108-90-7	Chlorobenzene	<0.0018		0.0018
124-48-1	Chlorodibromomethane	<0.0018		0.0018
75-00-3	Chloroethane	<0.0045		0.0045
67-66-3	Chloroform	<0.0018		0.0018
74-87-3	Chloromethane	<0.0045		0.0045
156-59-2	cis-1,2-Dichloroethene	<0.0018		0.0018
10061-01-5	cis-1,3-Dichloropropene	<0.0018		0.0018
110-82-7	Cyclohexane	<0.0018		0.0018
75-27-4	Dichlorobromomethane	<0.0018		0.0018
75-34-3	1,1-Dichloroethane	<0.0018		0.0018
107-06-2	1,2-Dichloroethane	<0.0045		0.0045
75-35-4	1,1-Dichloroethene	<0.0018		0.0018
78-87-5	1,2-Dichloropropane	<0.0018		0.0018
123-91-1	1,4-Dioxane	<0.089	*3	0.089
100-41-4	Ethylbenzene	<0.0018		0.0018
106-93-4	Ethylene Dibromide	<0.0018		0.0018
591-78-6	2-Hexanone	<0.0045		0.0045
98-82-8	Isopropylbenzene	<0.0018		0.0018
79-20-9	Methyl acetate	<0.022		0.022
108-87-2	Methylcyclohexane	<0.0018		0.0018
75-09-2	Methylene Chloride	<0.0045		0.0045
108-10-1	methyl isobutyl ketone	<0.0045		0.0045
91-57-6	2-Methylnaphthalene	<0.0045		0.0045
1634-04-4	Methyl tert-butyl ether	<0.0018		0.0018
91-20-3	Naphthalene	<0.0045		0.0045
100-42-5	Styrene	<0.0018		0.0018
127-18-4	Tetrachloroethene	<0.0018		0.0018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Dup-1 Lab Sample ID: 500-221506-8
 Matrix: Solid Lab File ID: 500-221506-a-8-a.D
 Analysis Method: 8260B Date Collected: 08/29/2022 00:00
 Sample wt/vol: 6.961(g) Date Analyzed: 09/05/2022 16:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 19.4 % Solids: 80.6 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	0.035		0.0018	
156-60-5	trans-1,2-Dichloroethene	<0.0018		0.0018	
10061-02-6	trans-1,3-Dichloropropene	<0.0018		0.0018	
71-55-6	1,1,1-Trichloroethane	<0.0018		0.0018	
79-00-5	1,1,2-Trichloroethane	<0.0018		0.0018	
79-01-6	Trichloroethene	<0.0018		0.0018	
75-69-4	Trichlorofluoromethane	<0.0045		0.0045	
95-63-6	1,2,4-Trimethylbenzene	<0.0018		0.0018	
108-67-8	1,3,5-Trimethylbenzene	<0.0018		0.0018	
108-05-4	Vinyl acetate	<0.0045		0.0045	
75-01-4	Vinyl chloride	<0.0018		0.0018	
1330-20-7	Xylenes, Total	<0.0036		0.0036	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		75-131
1868-53-7	Dibromofluoromethane	111		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-134
2037-26-5	Toluene-d8 (Surr)	94		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D
 Lims ID: 500-221506-A-8-A
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 05-Sep-2022 16:26:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-8-a
 Misc. Info.: 500-0087999-014
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:12:27 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:17:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt UG/L	Flags
15 Acetone	43	3.012	3.023	0.000	97	84179	99.4	
17 Carbon disulfide	76	3.165	3.162	0.003	90	6402	0.5213	
* 23 TBA-d9 (IS)	65	3.431	3.434	-0.003	93	187258	1068.6	
36 2-Butanone (MEK)	43	4.631	4.628	0.003	96	20921	20.1	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	75	178547	59.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.428	5.425	0.003	97	186762	59.7	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	98	669709	53.4	
* 62 1,4-Dioxane-d8	96	6.494	6.482	0.012	64	8608	1068.6	s
\$ 71 Toluene-d8 (Surr)	98	7.523	7.526	-0.003	94	655381	50.1	
72 Toluene	92	7.605	7.603	0.002	88	368911	39.4	
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	86	537262	53.4	
86 Ethylbenzene	106	9.494	9.491	0.003	89	3867	0.6823	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	231605	50.7	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	307315	53.4	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D

Injection Date: 05-Sep-2022 16:26:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-8-A

Lab Sample ID: 500-221506-8

Worklist Smp#: 14

Client ID: Dup-1

Purge Vol: 5.000 mL

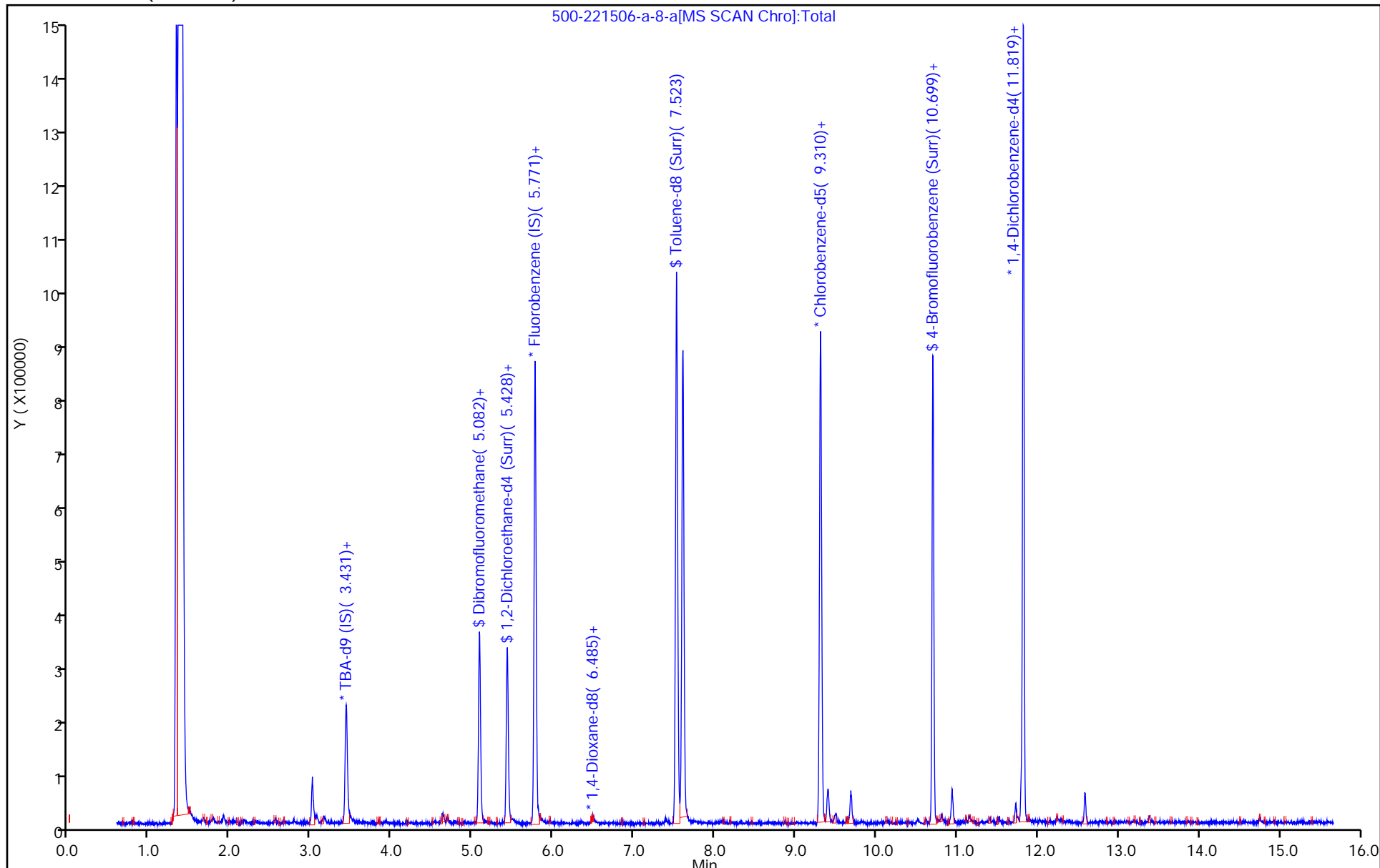
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D
 Lims ID: 500-221506-A-8-A
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 05-Sep-2022 16:26:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-8-a
 Misc. Info.: 500-0087999-014
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:12:27 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:17:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	59.3	110.95
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	59.7	111.79
\$ 71 Toluene-d8 (Surr)	53.4	50.1	93.82
\$ 93 4-Bromofluorobenzene (Surr)	53.4	50.7	94.94

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D

Injection Date: 05-Sep-2022 16:26:30

Instrument ID: CMS16

Lims ID: 500-221506-A-8-A

Lab Sample ID: 500-221506-8

Client ID: Dup-1

Operator ID:

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

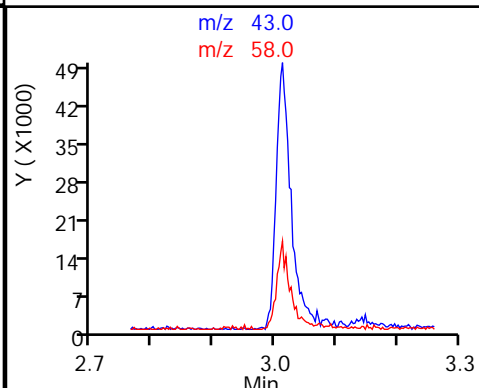
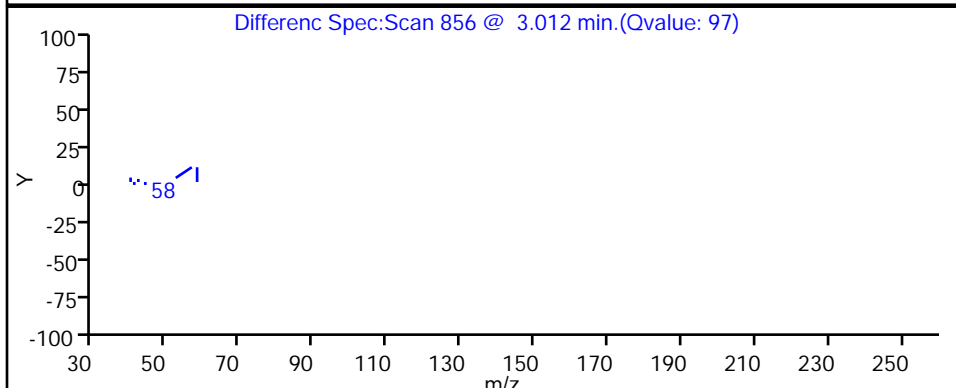
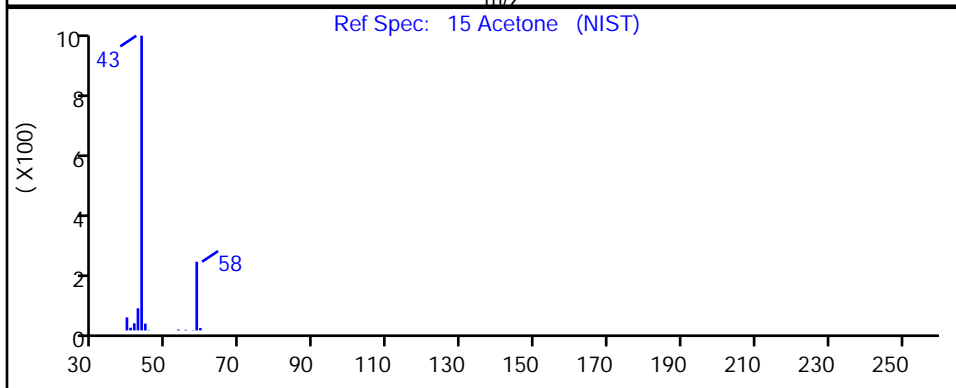
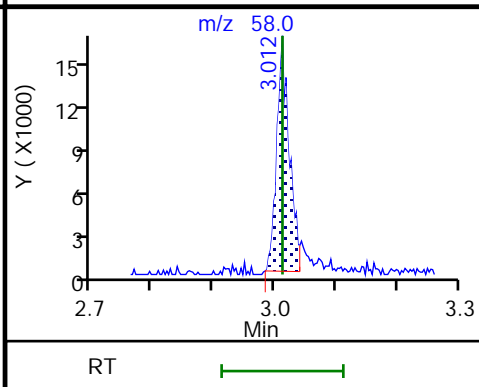
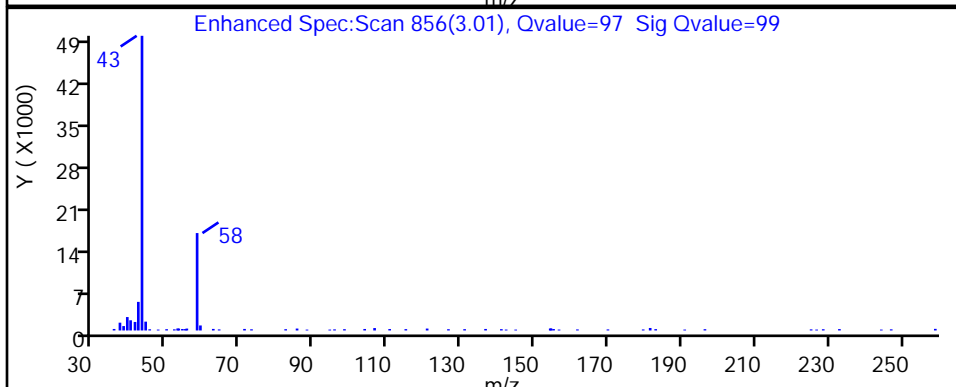
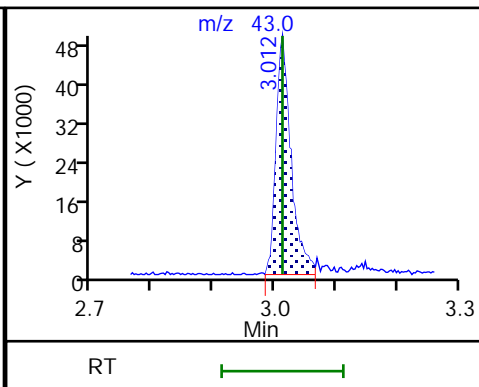
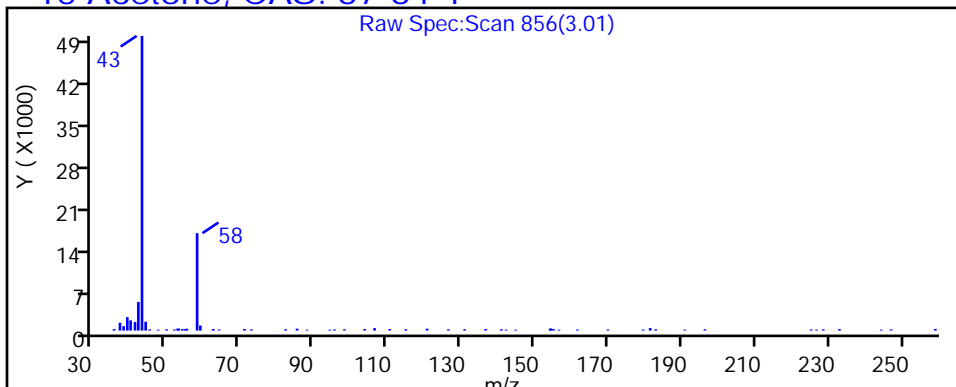
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

15 Acetone, CAS: 67-64-1



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D

Injection Date: 05-Sep-2022 16:26:30

Instrument ID: CMS16

Lims ID: 500-221506-A-8-A

Lab Sample ID: 500-221506-8

Client ID: Dup-1

Operator ID:

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

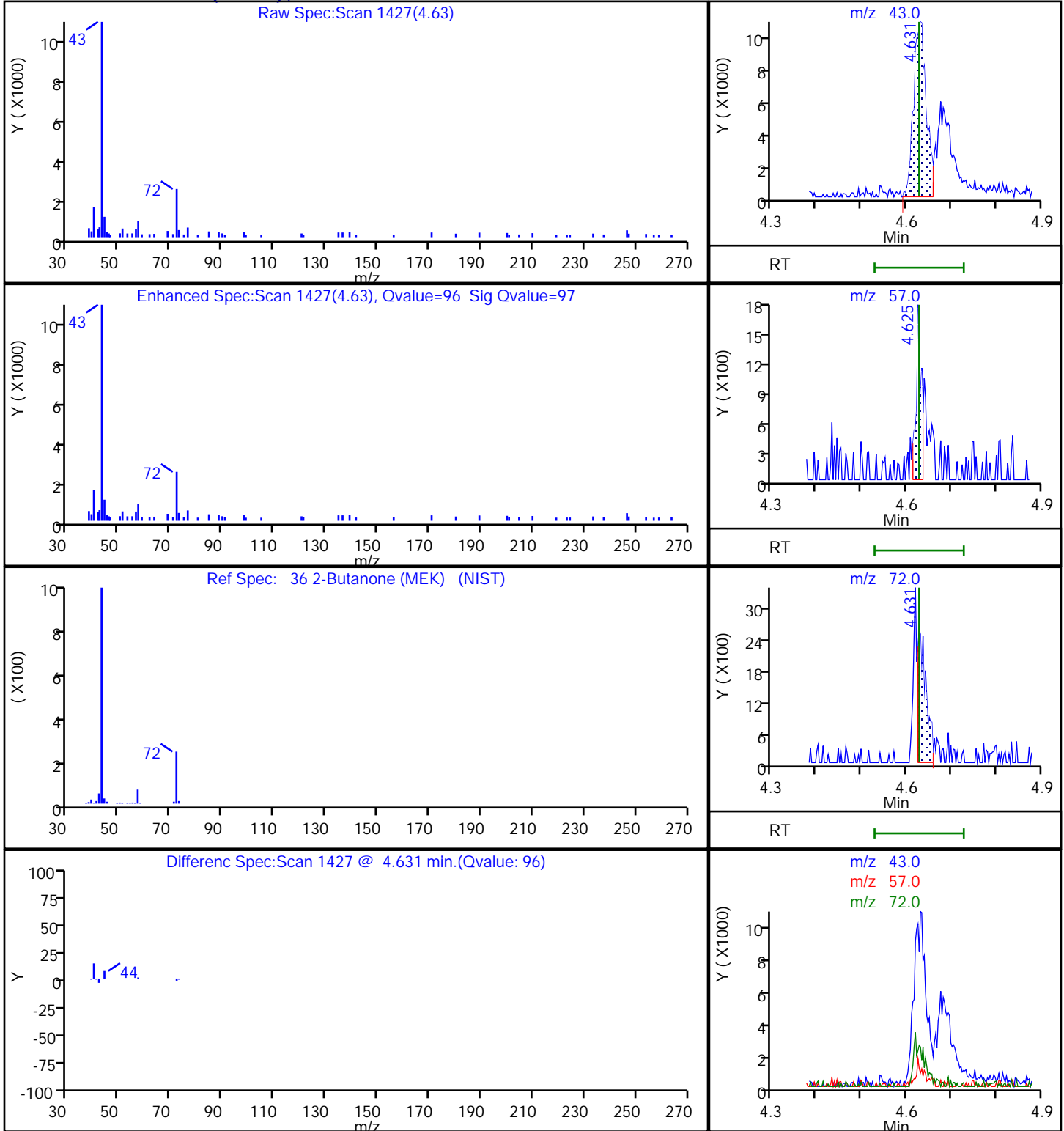
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-8-a.D

Injection Date: 05-Sep-2022 16:26:30

Instrument ID: CMS16

Lims ID: 500-221506-A-8-A

Lab Sample ID: 500-221506-8

Client ID: Dup-1

Operator ID:

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

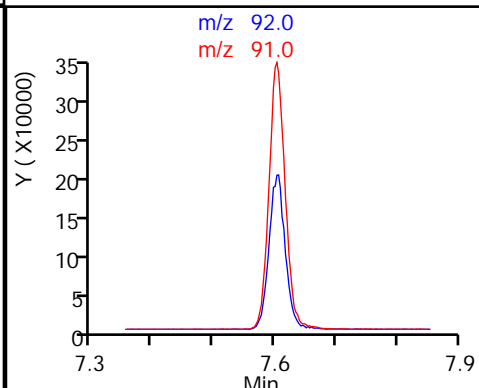
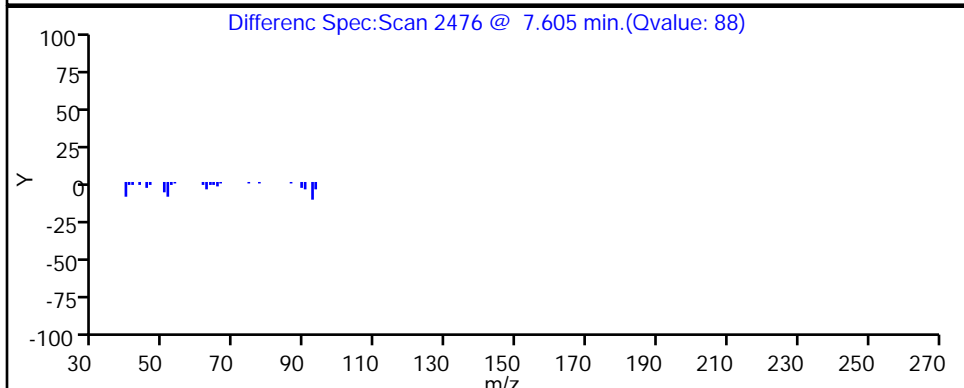
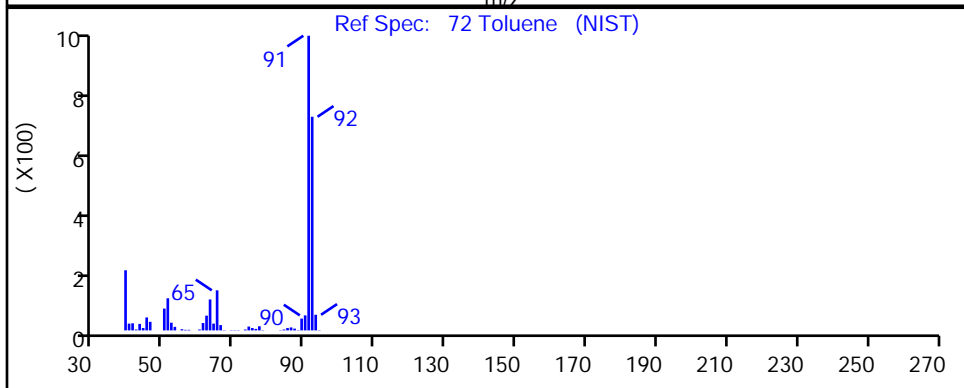
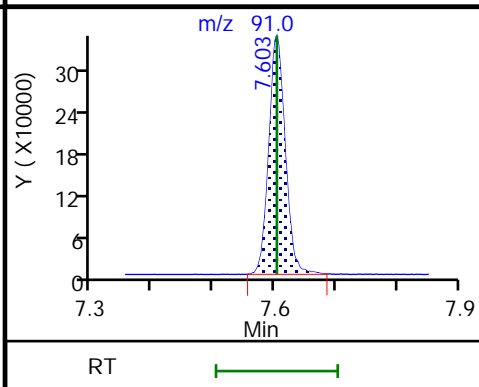
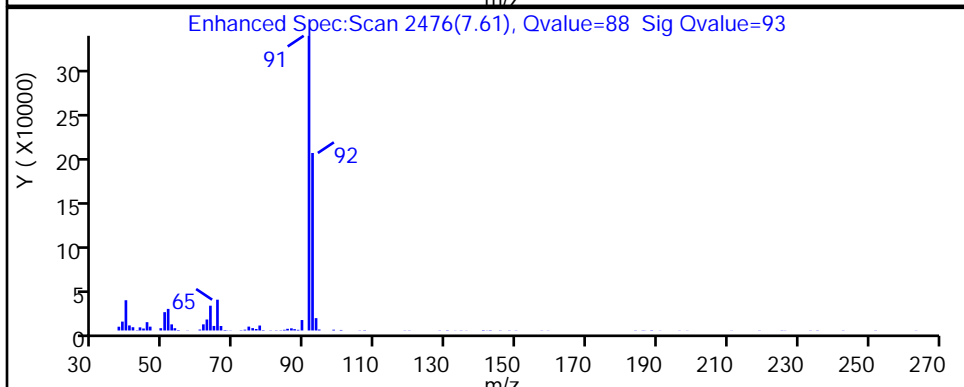
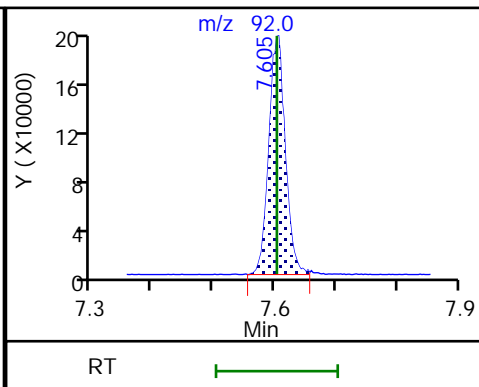
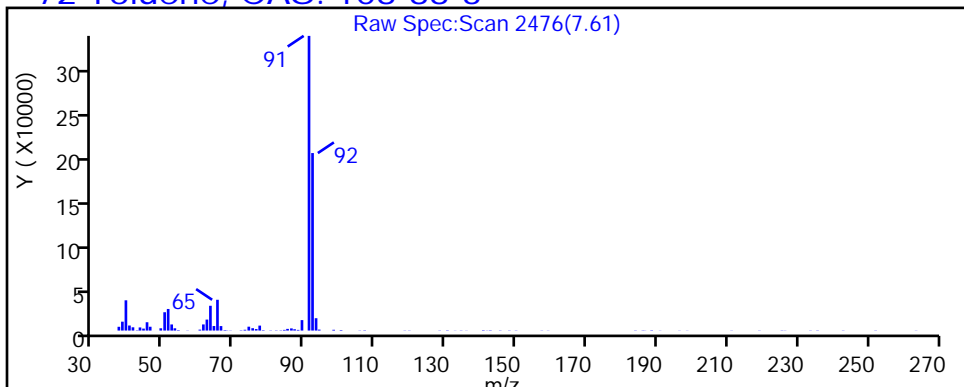
Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

72 Toluene, CAS: 108-88-3



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 500-638287/3	16b0118a.D
Level 2	STD2 500-638287/4	STD20118.D
Level 3	STD3 500-638287/5	STD30118.D
Level 4	STD4 500-638287/6	STD40118.D
Level 5	STD5 500-638287/7	STD50118.D
Level 6	STD6 500-638287/8	STD60118.D
Level 7	STD7 500-638287/9	STD70118.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	0.3787 0.4489	0.3421 0.4157	0.3206	0.4031	0.4141	Ave		0.389 0		0.0100	11.5		15.0				
Chloromethane	0.4276 0.4722	0.3972 0.4323	0.3744	0.4287	0.4500	Lin1	-0.18 1	0.446 5		0.1000				0.9970		0.9900	
Vinyl chloride	0.4256 0.4454	0.3985 0.4136	0.3718	0.4040	0.4296	Ave		0.412 6		0.0100	5.8		15.0				
Butadiene	0.4487 0.4848	0.4281 0.4539	0.4030	0.4412	0.4571	Ave		0.445 3		0.0100	5.7		15.0				
Bromomethane	0.3468 0.2831	0.3171 0.2884	0.2482	0.2954	0.2683	Ave		0.292 5		0.0100	11.0		15.0				
Chloroethane	0.2935 0.2575	0.2412 0.2391	0.2184	0.2404	0.2508	Ave		0.248 7		0.0100	9.3		15.0				
Dichlorofluoromethane	0.5821 0.6124	0.5459 0.5625	0.5333	0.5502	0.5958	Ave		0.568 9		0.0100	5.1		15.0				
Trichlorofluoromethane	0.5202 0.5497	0.4921 0.5150	0.4675	0.4913	0.5289	Ave		0.509 2		0.0100	5.4		15.0				
Ethyl ether	0.2105 0.2145	0.2117 0.2023	0.1959	0.2010	0.2058	Ave		0.206 0		0.0100	3.2		15.0				
Acrolein	0.0270 0.0253	0.0285 0.0234	0.0270	0.0224	0.0235	Lin1	0.492 9	0.023 9		0.0010				0.9980		0.9900	
1,1-Dichloroethene	0.2820 0.2934	0.2854 0.2766	0.2641	0.2655	0.2775	Ave		0.277 8		0.0100	3.8		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3668 0.3306	0.3336 0.3060	0.3044	0.2904	0.3130	Ave		0.320 7		0.0100	7.9		15.0				
Acetone	++++ 0.0685	0.0705 0.0616	0.0643	0.0714	0.0691	Ave		0.067 6		0.0100	5.6		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Iodomethane	0.5033 0.4780	0.4724 0.4497	0.4344	0.4316	0.4489	Ave		0.459 8		0.0100	5.7		15.0				
Carbon disulfide	1.0123 1.0264	0.9808 0.9747	0.9406	0.9444	0.9791	Ave		0.979 8		0.0100	3.2		15.0				
3-Chloropropene	0.1718 0.1705	0.1843 0.1573	0.1665	0.1680	0.1615	Ave		0.168 6		0.0100	5.1		15.0				
Methyl acetate	0.1212 0.1538	0.1480 0.1381	0.1347	0.1352	0.1461	Ave		0.139 6		0.0100	7.7		15.0				
Methylene Chloride	++++ 0.3017	0.3025 0.2848	0.2932	0.2815	0.2838	Ave		0.291 2		0.0100	3.2		15.0				
tert-Butyl alcohol	1.4435 1.3123	1.3434 1.2989	1.2190	1.2473	1.3447	Ave		1.315 6		0.0100	5.6		15.0				
Acrylonitrile	0.0741 0.0779	0.0785 0.0705	0.0716	0.0701	0.0750	Ave		0.073 9		0.0010	4.6		15.0				
trans-1,2-Dichloroethene	0.3090 0.3133	0.3132 0.2970	0.2839	0.2844	0.2939	Ave		0.299 2		0.0100	4.3		15.0				
Methyl tert-butyl ether	0.7362 0.7554	0.7534 0.6847	0.6975	0.6813	0.7149	Ave		0.717 6		0.0100	4.4		15.0				
Hexane	0.4534 0.4710	0.4827 0.4522	0.4376	0.4304	0.4478	Ave		0.453 6		0.0100	4.0		15.0				
1,1-Dichloroethane	0.5182 0.5179	0.4896 0.4956	0.4715	0.4736	0.4915	Ave		0.494 0		0.1000	3.8		15.0				
Vinyl acetate	0.4037 0.4729	0.4040 0.4626	0.3807	0.4146	0.4599	Ave		0.428 3		0.0100	8.4		15.0				
2,2-Dichloropropane	0.2785 0.2161	0.2458 0.1990	0.2147	0.2120	0.2092	Ave		0.225 1		0.0100	12.3		15.0				
cis-1,2-Dichloroethene	0.3083 0.3188	0.3187 0.3002	0.2942	0.2899	0.2989	Ave		0.304 1		0.0100	3.8		15.0				
2-Butanone (MEK)	++++ 0.0911	0.0691 0.0843	0.0777	0.0857	0.0896	Ave		0.082 9		0.0100	9.9		15.0				
Bromochloromethane	0.1430 0.1370	0.1353 0.1304	0.1285	0.1271	0.1312	Ave		0.133 2		0.0100	4.2		15.0				
Tetrahydrofuran	0.0884 0.0632	0.0896 0.0557	0.0638	0.0574	0.0604	Lin1	0.174 5	0.058 5		0.0100				0.9960		0.9900	
Chloroform	0.4835 0.4734	0.4557 0.4560	0.4399	0.4359	0.4494	Ave		0.456 2		0.0100	3.8		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,1,1-Trichloroethane	0.4306 0.4572	0.4480 0.4313	0.4385	0.4142	0.4336	Ave		0.436 2		0.0100	3.1	15.0					
Cyclohexane	0.6118 0.6030	0.6088 0.5631	0.5494	0.5528	0.5616	Ave		0.578 6		0.0100	4.8	15.0					
1,1-Dichloropropene	0.3843 0.3783	0.3818 0.3672	0.3499	0.3496	0.3602	Ave		0.367 3		0.0100	4.0	15.0					
Carbon tetrachloride	0.4188 0.4318	0.4107 0.4079	0.3787	0.3776	0.3971	Ave		0.403 2		0.0100	5.0	15.0					
Isobutyl alcohol	0.5649 0.5523	0.5110 0.5679	0.4911	0.5352	0.5561	Ave		0.539 8		0.0010	5.4	15.0					
Benzene	1.0995 1.1530	1.1205 1.1130	1.0550	1.0615	1.0978	Ave		1.100 0		0.0100	3.1	15.0					
1,2-Dichloroethane	0.3415 0.3180	0.3145 0.3014	0.2977	0.2971	0.3009	Ave		0.310 2		0.0100	5.2	15.0					
Heptane	0.5216 0.4797	0.4803 0.4632	0.4444	0.4427	0.4554	Ave		0.469 6		0.0100	5.8	15.0					
Trichloroethene	0.2891 0.2881	0.2937 0.2762	0.2655	0.2690	0.2745	Ave		0.279 5		0.0100	3.9	15.0					
Methylcyclohexane	0.6100 0.5998	0.6047 0.5670	0.5568	0.5503	0.5650	Ave		0.579 1		0.0100	4.3	15.0					
1,2-Dichloropropane	0.2605 0.2721	0.2645 0.2594	0.2506	0.2533	0.2621	Ave		0.260 3		0.0100	2.7	15.0					
Dibromomethane	0.1455 0.1427	0.1293 0.1338	0.1297	0.1322	0.1378	Ave		0.135 9		0.0100	4.7	15.0					
1,4-Dioxane	++++ 1.2552	1.7444 1.4882	1.4713	1.1945	1.5425	Ave		1.449 4		0.0010	13.8	15.0					
Dichlorobromomethane	0.3463 0.3446	0.3402 0.3252	0.3151	0.3187	0.3287	Ave		0.331 3		0.0100	3.8	15.0					
2-Chloroethyl vinyl ether	0.1003 0.1190	0.1113 0.1148	0.1081	0.1122	0.1184	Ave		0.112 0		0.0100	5.8	15.0					
cis-1,3-Dichloropropene	0.5320 0.5594	0.5706 0.5356	0.5506	0.5349	0.5329	Ave		0.545 1		0.0100	2.8	15.0					
methyl isobutyl ketone	++++ 0.2922	0.3277 0.2690	0.2708	0.2954	0.2847	Ave		0.290 0		0.0100	7.4	15.0					
Toluene	0.9595 0.9577	0.9645 0.9380	0.8996	0.8925	0.9125	Ave		0.932 0		0.0100	3.2	15.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
trans-1,3-Dichloropropene	0.5243 0.4950	0.4982 0.4702	0.4790	0.4584	0.4666	Ave		0.484 5		0.0100	4.7		15.0				
Ethyl methacrylate	0.3492 0.4061	0.4018 0.3777	0.3592	0.3713	0.3738	Ave		0.377 0		0.0100	5.5		15.0				
1,1,2-Trichloroethane	0.2966 0.2617	0.2675 0.2484	0.2530	0.2467	0.2493	Ave		0.260 5		0.0100	6.8		15.0				
Tetrachloroethene	0.3996 0.4053	0.3997 0.3939	0.3796	0.3715	0.3777	Ave		0.389 6		0.0100	3.4		15.0				
1,3-Dichloropropane	0.4632 0.4636	0.4764 0.4381	0.4390	0.4427	0.4372	Ave		0.451 4		0.0100	3.5		15.0				
2-Hexanone	++++ 0.2054	0.1860 0.1920	0.1914	0.1923	0.1909	Ave		0.193 0		0.0100	3.4		15.0				
Chlorodibromomethane	0.3429 0.3331	0.3342 0.3175	0.3106	0.3067	0.3154	Ave		0.322 9		0.0100	4.3		15.0				
Ethylene Dibromide	0.2589 0.2677	0.2867 0.2505	0.2538	0.2482	0.2540	Ave		0.260 0		0.0100	5.2		15.0				
Chlorobenzene	1.0104 1.0481	0.9918 1.0200	0.9535	0.9627	0.9820	Ave		0.995 5		0.3000	3.3		15.0				
1,1,1,2-Tetrachloroethane	0.3945 0.4076	0.4008 0.3937	0.3791	0.3698	0.3730	Ave		0.388 4		0.0100	3.7		15.0				
Ethylbenzene	0.5599 0.5985	0.5524 0.5863	0.5403	0.5469	0.5613	Ave		0.563 7		0.0100	3.8		15.0				
m&p-Xylene	1.4025 1.4569	1.4020 1.4324	1.2982	1.2927	1.3529	Ave		1.376 8		0.0100	4.7		15.0				
o-Xylene	1.3968 1.5896	1.4449 1.5454	1.4102	1.4167	1.4489	Ave		1.464 7		0.0100	5.0		15.0				
Styrene	1.0924 1.3053	1.1301 1.2883	1.1227	1.1350	1.1925	Ave		1.180 9		0.0100	7.2		15.0				
Bromoform	0.2214 0.2303	0.2171 0.2154	0.1926	0.2001	0.2098	Ave		0.212 4		0.1000	6.0		15.0				
Isopropylbenzene	3.0243 3.1738	3.1190 3.0872	2.9720	3.0477	3.0183	Ave		3.063 2		0.0100	2.2		15.0				
Bromobenzene	0.7628 0.7370	0.7131 0.7143	0.6723	0.6965	0.6967	Ave		0.713 2		0.0100	4.1		15.0				
1,1,2,2-Tetrachloroethane	0.6587 0.5829	0.6734 0.5252	0.5648	0.5682	0.5655	Ave		0.591 3		0.3000	9.2		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	0.2161 0.1732	0.1743 0.1562	0.1685	0.1610	0.1643	Ave		0.173 4		0.0100	11.5		15.0				
trans-1,4-Dichloro-2-butene	0.2022 0.1770	0.1912 0.1610	0.1824	0.1737	0.1721	Ave		0.179 9		0.0100	7.5		15.0				
N-Propylbenzene	3.6171 3.7205	3.7145 3.5883	3.4755	3.5697	3.5437	Ave		3.604 2		0.0100	2.5		15.0				
2-Chlorotoluene	2.1121 2.1429	2.0776 2.0636	1.9991	2.0641	2.0532	Ave		2.073 2		0.0100	2.2		15.0				
1,3,5-Trimethylbenzene	2.6262 2.8855	2.6032 2.7788	2.5607	2.6406	2.6723	Ave		2.681 0		0.0100	4.2		15.0				
4-Chlorotoluene	2.5406 2.5818	2.4991 2.5140	2.3128	2.4349	2.4155	Ave		2.471 3		0.0100	3.7		15.0				
tert-Butylbenzene	2.4175 2.5750	2.3838 2.5050	2.3336	2.4071	2.3945	Ave		2.430 9		0.0100	3.4		15.0				
1,2,4-Trimethylbenzene	2.6834 2.9552	2.6035 2.8338	2.5729	2.6823	2.7302	Ave		2.723 0		0.0100	4.9		15.0				
sec-Butylbenzene	3.6047 3.9180	3.6886 3.7502	3.5295	3.6385	3.6477	Ave		3.682 5		0.0100	3.4		15.0				
1,3-Dichlorobenzene	1.5337 1.6551	1.5717 1.5978	1.4468	1.5070	1.5425	Ave		1.550 7		0.0100	4.3		15.0				
p-Isopropyltoluene	3.0725 3.4975	3.0759 3.3679	3.0229	3.1319	3.2070	Ave		3.196 5		0.0100	5.5		15.0				
1,4-Dichlorobenzene	1.6734 1.6868	1.5621 1.6306	1.4716	1.5202	1.5644	Ave		1.587 0		0.0100	5.0		15.0				
n-Butylbenzene	2.9685 3.1605	2.9321 3.0210	2.8226	2.8895	2.9222	Ave		2.959 5		0.0100	3.7		15.0				
1,2-Dichlorobenzene	1.4334 1.6561	1.4280 1.5785	1.3826	1.4472	1.4990	Ave		1.489 3		0.0100	6.5		15.0				
1,2-Dibromo-3-Chloropropane	0.0915 0.1088	0.1256 0.0962	0.1015	0.1004	0.1038	Ave		0.104 0		0.0100	10.6		15.0				
1,2,4-Trichlorobenzene	0.9454 0.9952	0.9236 0.9339	0.8697	0.9049	0.9388	Ave		0.930 2		0.0100	4.1		15.0				
Hexachlorobutadiene	0.5668 0.5961	0.6123 0.5699	0.5589	0.5528	0.5569	Ave		0.573 4		0.0100	3.9		15.0				
Naphthalene	1.7487 1.8861	1.8193 1.6837	1.6869	1.7765	1.8224	Ave		1.774 8		0.0100	4.2		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.7177 0.7663	0.7613 0.6928	0.7163	0.7408	0.7528	Ave		0.735 4		0.0100	3.7		15.0				
Dibromofluoromethane	0.2499	0.2418	0.2354	0.2400	0.2344	Ave		0.240 3		0.0100	2.6		15.0				
1,2-Dichloroethane-d4 (Surr)	0.2552	0.2430	0.2552	0.2490	0.2450	Ave		0.249 5		0.0100	2.3		15.0				
Toluene-d8 (Surr)	1.3228	1.3018	1.3108	1.3148	1.2505	Ave		1.300 1		0.0100	2.2		15.0				
4-Bromofluorobenzene (Surr)	0.8039	0.7850	0.7991	0.8159	0.7653	Ave		0.793 8		0.0100	2.4		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 500-638287/3	16b0118a.D
Level 2	STD2 500-638287/4	STD20118.D
Level 3	STD3 500-638287/5	STD30118.D
Level 4	STD4 500-638287/6	STD40118.D
Level 5	STD5 500-638287/7	STD50118.D
Level 6	STD6 500-638287/8	STD60118.D
Level 7	STD7 500-638287/9	STD70118.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Dichlorodifluoromethane	FB	Ave	9746 864362	21141 1113164	78270	249463	525523	2.00 150	5.00 200	20.0	50.0	100
Chloromethane	FB	Lin1	11003 909217	24550 1157721	91387	265303	570980	2.00 150	5.00 200	20.0	50.0	100
Vinyl chloride	FB	Ave	10953 857635	24626 1107517	90752	249999	545131	2.00 150	5.00 200	20.0	50.0	100
Butadiene	FB	Ave	11548 933609	26458 1215349	98380	273052	580071	2.00 150	5.00 200	20.0	50.0	100
Bromomethane	FB	Ave	8926 545200	19594 772345	60594	182844	340436	2.00 150	5.00 200	20.0	50.0	100
Chloroethane	FB	Ave	7553 495927	14909 640333	53304	148798	318223	2.00 150	5.00 200	20.0	50.0	100
Dichlorofluoromethane	FB	Ave	14980 1179134	33737 1506164	130174	340475	756024	2.00 150	5.00 200	20.0	50.0	100
Trichlorofluoromethane	FB	Ave	13387 1058508	30411 1379200	114110	304081	671083	2.00 150	5.00 200	20.0	50.0	100
Ethyl ether	FB	Ave	5417 413053	13081 541719	47824	124376	261169	2.00 150	5.00 200	20.0	50.0	100
Acrolein	FB	Lin1	27819 1949044	70474 2510060	263639	553970	1194468	80.0 6000	200 8000	800	2000	4000
1,1-Dichloroethene	FB	Ave	7257 564971	17638 740624	64471	164284	352143	2.00 150	5.00 200	20.0	50.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	9439 636575	20616 819304	74298	179751	397170	2.00 150	5.00 200	20.0	50.0	100
Acetone	FB	Ave	++++ 131806	4356 165002	15698	44172	87737	++++ 150	5.00 200	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Iodomethane	FB	Ave	12953 920484	29195 1204228	106028	267095	569611	2.00 150	5.00 200	20.0	50.0	100
Carbon disulfide	FB	Ave	26050 1976455	60617 2609999	229601	584486	1242422	2.00 150	5.00 200	20.0	50.0	100
3-Chloropropene	FB	Ave	4421 328216	11392 421238	40641	104000	204875	2.00 150	5.00 200	20.0	50.0	100
Methyl acetate	FB	Ave	6239 592296	18298 739674	65746	167288	370896	4.00 300	10.0 400	40.0	100	200
Methylene Chloride	FB	Ave	++++ 580904	18697 762596	71582	174211	360061	++++ 150	5.00 200	20.0	50.0	100
tert-Butyl alcohol	TBAd 9	Ave	7094 472225	16030 562931	53782	129046	299437	20.0 1500	50.0 2000	200	500	1000
Acrylonitrile	FB	Ave	19079 1499586	48497 1887617	174677	433555	951314	20.0 1500	50.0 2000	200	500	1000
trans-1,2-Dichloroethene	FB	Ave	7952 603213	19355 795379	69305	176031	372955	2.00 150	5.00 200	20.0	50.0	100
Methyl tert-butyl ether	FB	Ave	18947 1454567	46562 1833629	170261	421620	907144	2.00 150	5.00 200	20.0	50.0	100
Hexane	FB	Ave	11667 907037	29829 1210984	106817	266335	568266	2.00 150	5.00 200	20.0	50.0	100
1,1-Dichloroethane	FB	Ave	13336 997261	30258 1327201	115098	293091	623629	2.00 150	5.00 200	20.0	50.0	100
Vinyl acetate	FB	Ave	10388 910511	24968 1238753	92925	256557	583634	2.00 150	5.00 200	20.0	50.0	100
2,2-Dichloropropane	FB	Ave	7168 416065	15192 532989	52416	131193	265513	2.00 150	5.00 200	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	7935 613811	19694 803923	71824	179427	379239	2.00 150	5.00 200	20.0	50.0	100
2-Butanone (MEK)	FB	Ave	++++ 175438	4270 225747	18969	53016	113645	++++ 150	5.00 200	20.0	50.0	100
Bromochloromethane	FB	Ave	3680 263826	8359 349061	31364	78672	166545	2.00 150	5.00 200	20.0	50.0	100
Tetrahydrofuran	FB	Lin1	4548 243289	11073 298538	31161	71051	153200	4.00 300	10.0 400	40.0	100	200
Chloroform	FB	Ave	12442	28161	107390	269740	570219	2.00	5.00	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			911484	1221097				150	200			
1,1,1-Trichloroethane	FB	Ave	11082 880313	27687 1155056	107050	256329	550152	2.00 150	5.00 200	20.0	50.0	100
Cyclohexane	FB	Ave	15745 1161080	37627 1507861	134119	342086	712617	2.00 150	5.00 200	20.0	50.0	100
1,1-Dichloropropene	FB	Ave	9891 728360	23595 983274	85412	216333	457057	2.00 150	5.00 200	20.0	50.0	100
Carbon tetrachloride	FB	Ave	10778 831489	25380 1092218	92452	233671	503885	2.00 150	5.00 200	20.0	50.0	100
Isobutyl alcohol	TBAd 9	Ave	6941 496844	15244 615312	54171	138426	309575	50.0 3750	125 5000	500	1250	2500
Benzene	FB	Ave	28294 2220157	69250 2980434	257514	656914	1393090	2.00 150	5.00 200	20.0	50.0	100
1,2-Dichloroethane	FB	Ave	8788 612290	19438 807207	72669	183881	381776	2.00 150	5.00 200	20.0	50.0	100
Heptane	FB	Ave	13422 923629	29682 1240480	108488	273961	577868	2.00 150	5.00 200	20.0	50.0	100
Trichloroethene	FB	Ave	7441 554695	18150 739712	64814	166492	348311	2.00 150	5.00 200	20.0	50.0	100
Methylcyclohexane	FB	Ave	15699 1154987	37368 1518297	135907	340596	716933	2.00 150	5.00 200	20.0	50.0	100
1,2-Dichloropropane	FB	Ave	6704 523856	16345 694715	61173	156760	332526	2.00 150	5.00 200	20.0	50.0	100
Dibromomethane	FB	Ave	3745 274847	7992 358340	31669	81816	174804	2.00 150	5.00 200	20.0	50.0	100
1,4-Dioxane	DXE	Ave	++++ 73660	2922 98373	9246	21985	48267	++++ 3000	100 4000	400	1000	2000
Dichlorobromomethane	FB	Ave	8913 663502	21024 870891	76909	197258	417116	2.00 150	5.00 200	20.0	50.0	100
2-Chloroethyl vinyl ether	CBNZ d5	Ave	1907 173806	4959 231210	18870	51138	113664	2.00 150	5.00 200	20.0	50.0	100
cis-1,3-Dichloropropene	CBNZ d5	Ave	10120 816690	25420 1078670	96118	243820	511760	2.00 150	5.00 200	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
methyl isobutyl ketone	CBNZ d5	Ave	+++++	14597	47272	134673	273408	+++++	5.00	20.0	50.0	100
			426664	541656				150	200			
Toluene	CBNZ d5	Ave	18252	42965	157060	406828	876243	2.00	5.00	20.0	50.0	100
			1398349	1888976				150	200			
trans-1,3-Dichloropropene	CBNZ d5	Ave	9974	22193	83632	208965	448037	2.00	5.00	20.0	50.0	100
			722751	946961				150	200			
Ethyl methacrylate	CBNZ d5	Ave	6643	17898	62708	169253	358990	2.00	5.00	20.0	50.0	100
			592851	760575				150	200			
1,1,2-Trichloroethane	CBNZ d5	Ave	5642	11918	44174	112465	239368	2.00	5.00	20.0	50.0	100
			382113	500157				150	200			
Tetrachloroethene	CBNZ d5	Ave	7602	17804	66271	169365	362708	2.00	5.00	20.0	50.0	100
			591825	793330				150	200			
1,3-Dichloropropane	CBNZ d5	Ave	8810	21222	76638	201789	419852	2.00	5.00	20.0	50.0	100
			676881	882345				150	200			
2-Hexanone	CBNZ d5	Ave	+++++	8286	33423	87654	183281	+++++	5.00	20.0	50.0	100
			299864	386740				150	200			
Chlorodibromomethane	CBNZ d5	Ave	6523	14890	54219	139789	302874	2.00	5.00	20.0	50.0	100
			486314	639445				150	200			
Ethylene Dibromide	CBNZ d5	Ave	4925	12772	44306	113141	243917	2.00	5.00	20.0	50.0	100
			390908	504397				150	200			
Chlorobenzene	CBNZ d5	Ave	19220	44185	166454	438813	943046	2.00	5.00	20.0	50.0	100
			1530325	2054257				150	200			
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	7505	17856	66177	168585	358165	2.00	5.00	20.0	50.0	100
			595133	792815				150	200			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBNZ d5	Ave	10651	24607	94317	249318	539045	2.00	5.00	20.0	50.0	100
			873841	1180703				150	200			
m&p-Xylene	CBNZ d5	Ave	26678	62459	226642	589245	1299168	2.00	5.00	20.0	50.0	100
			2127144	2884710				150	200			
o-Xylene	CBNZ d5	Ave	26570	64369	246192	645790	1391408	2.00	5.00	20.0	50.0	100
			2320939	3112187				150	200			
Styrene	CBNZ d5	Ave	20779	50343	196006	517359	1145146	2.00	5.00	20.0	50.0	100
			1905752	2594605				150	200			
Bromoform	CBNZ d5	Ave	4212	9672	33632	91199	201433	2.00	5.00	20.0	50.0	100
			336312	433875				150	200			
Isopropylbenzene	DCBd 4	Ave	34724	83661	320248	839367	1851439	2.00	5.00	20.0	50.0	100
			3099201	4184325				150	200			
Bromobenzene	DCBd 4	Ave	8758	19126	72445	191816	427373	2.00	5.00	20.0	50.0	100
			719646	968113				150	200			
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7563	18063	60865	156497	346895	2.00	5.00	20.0	50.0	100
			569230	711883				150	200			
1,2,3-Trichloropropane	DCBd 4	Ave	2481	4675	18157	44334	100800	2.00	5.00	20.0	50.0	100
			169126	211768				150	200			
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2322	5129	19655	47826	105549	2.00	5.00	20.0	50.0	100
			172843	218277				150	200			
N-Propylbenzene	DCBd 4	Ave	41530	99633	374500	983131	2173698	2.00	5.00	20.0	50.0	100
			3633064	4863540				150	200			
2-Chlorotoluene	DCBd 4	Ave	24251	55728	215413	568474	1259410	2.00	5.00	20.0	50.0	100
			2092530	2796951				150	200			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trimethylbenzene	DCBd 4	Ave	30153	69826	275925	727252	1639208	2.00	5.00	20.0	50.0	100
			2817735	3766274				150	200			
4-Chlorotoluene	DCBd 4	Ave	29171	67033	249220	670612	1481698	2.00	5.00	20.0	50.0	100
			2521118	3407369				150	200			
tert-Butylbenzene	DCBd 4	Ave	27757	63940	251458	662942	1468779	2.00	5.00	20.0	50.0	100
			2514494	3395219				150	200			
1,2,4-Trimethylbenzene	DCBd 4	Ave	30810	69832	277244	738750	1674730	2.00	5.00	20.0	50.0	100
			2885730	3840875				150	200			
sec-Butylbenzene	DCBd 4	Ave	41388	98939	380319	1002085	2237528	2.00	5.00	20.0	50.0	100
			3825904	5083008				150	200			
1,3-Dichlorobenzene	DCBd 4	Ave	17610	42158	155902	415041	946151	2.00	5.00	20.0	50.0	100
			1616234	2165648				150	200			
p-Isopropyltoluene	DCBd 4	Ave	35277	82503	325732	862556	1967161	2.00	5.00	20.0	50.0	100
			3415340	4564800				150	200			
1,4-Dichlorobenzene	DCBd 4	Ave	19213	41901	158577	418684	959589	2.00	5.00	20.0	50.0	100
			1647142	2210029				150	200			
n-Butylbenzene	DCBd 4	Ave	34084	78647	304149	795797	1792499	2.00	5.00	20.0	50.0	100
			3086229	4094613				150	200			
1,2-Dichlorobenzene	DCBd 4	Ave	16458	38302	148983	398576	919487	2.00	5.00	20.0	50.0	100
			1617166	2139450				150	200			
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1051	3369	10939	27645	63672	2.00	5.00	20.0	50.0	100
			106248	130343				150	200			
1,2,4-Trichlorobenzene	DCBd 4	Ave	10855	24774	93711	249230	575832	2.00	5.00	20.0	50.0	100
			971826	1265849				150	200			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCBd 4	Ave	6508	16423	60220	152238	341632	2.00	5.00	20.0	50.0	100
			582085	772469				150	200			
Naphthalene	DCBd 4	Ave	20078	48798	181768	489259	1117837	2.00	5.00	20.0	50.0	100
			1841751	2281999				150	200			
1,2,3-Trichlorobenzene	DCBd 4	Ave	8240	20421	77184	204024	461747	2.00	5.00	20.0	50.0	100
			748263	938961				150	200			
Dibromofluoromethane	FB	Ave	481251	647423	57450	148554	297403	150	200	20.0	50.0	100
			491389	650660	62291	154087	310868	150	200	20.0	50.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave			228843	599310	1200900			20.0	50.0	100
			1931364	2621640				150	200			
4-Bromofluorobenzene (Surr)	DCBd 4	Ave			86105	224702	469423			20.0	50.0	100
			784985	1063969				150	200			

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 500-638287/3	16b0118a.D
Level 2	STD2 500-638287/4	STD20118.D
Level 3	STD3 500-638287/5	STD30118.D
Level 4	STD4 500-638287/6	STD40118.D
Level 5	STD5 500-638287/7	STD50118.D
Level 6	STD6 500-638287/8	STD60118.D
Level 7	STD7 500-638287/9	STD70118.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-2.7 6.9	-12.1	-17.6	3.6	6.5	15.4	50 30	30	30	30	30	30
Chloromethane	16.0 -3.0	-2.9	-14.1	-3.2	1.2	6.0	50 30	30	30	30	30	30
Vinyl chloride	3.1 0.2	-3.4	-9.9	-2.1	4.1	7.9	50 30	30	30	30	30	30
Butadiene	0.8 1.9	-3.9	-9.5	-0.9	2.7	8.9	50 30	30	30	30	30	30
Bromomethane	18.6 -1.4	8.4	-15.1	1.0	-8.3	-3.2	50 30	30	30	30	30	30
Chloroethane	18.0 -3.9	-3.0	-12.2	-3.3	0.8	3.6	50 30	30	30	30	30	30
Dichlorofluoromethane	2.3 -1.1	-4.0	-6.3	-3.3	4.7	7.6	50 30	30	30	30	30	30
Trichlorofluoromethane	2.2 1.1	-3.4	-8.2	-3.5	3.9	7.9	50 30	30	30	30	30	30
Ethyl ether	2.2 -1.8	2.8	-4.9	-2.4	-0.1	4.2	50 30	30	30	30	30	30
Acrolein	-12.8 -2.3	8.9	10.3	-7.5	-2.1	5.5	50 30	30	30	30	30	30
1,1-Dichloroethene	1.5 -0.4	2.7	-4.9	-4.4	-0.1	5.6	50 30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	14.4 -4.6	4.0	-5.1	-9.4	-2.4	3.1	50 30	30	30	30	30	30
Acetone	++++ -8.8	4.3	-4.8	5.6	2.3	1.3	30	50	30	30	30	30
Iodomethane	9.5 -2.2	2.8	-5.5	-6.1	-2.4	4.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Carbon disulfide	3.3 -0.5	0.1	-4.0	-3.6	-0.1	4.8	50 30	30	30	30	30	30
3-Chloropropene	1.9 -6.7	9.4	-1.2	-0.3	-4.2	1.1	50 30	30	30	30	30	30
Methyl acetate	-13.2 -1.1	6.1	-3.5	-3.2	4.7	10.2	50 30	30	30	30	30	30
Methylene Chloride	++++ -2.2	3.9	0.7	-3.3	-2.6	3.6	30	50	30	30	30	30
tert-Butyl alcohol	9.7 -1.3	2.1	-7.3	-5.2	2.2	-0.2	50 30	30	30	30	30	30
Acrylonitrile	0.3 -4.7	6.1	-3.2	-5.3	1.4	5.3	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	3.3 -0.7	4.7	-5.1	-4.9	-1.8	4.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	2.6 -4.6	5.0	-2.8	-5.1	-0.4	5.3	50 30	30	30	30	30	30
Hexane	0.0 -0.3	6.4	-3.5	-5.1	-1.3	3.9	50 30	30	30	30	30	30
1,1-Dichloroethane	4.9 0.3	-0.9	-4.5	-4.1	-0.5	4.8	50 30	30	30	30	30	30
Vinyl acetate	-5.8 8.0	-5.7	-11.1	-3.2	7.4	10.4	50 30	30	30	30	30	30
2,2-Dichloropropane	23.8 -11.6	9.2	-4.6	-5.8	-7.0	-4.0	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	1.4 -1.3	4.8	-3.3	-4.7	-1.7	4.8	50 30	30	30	30	30	30
2-Butanone (MEK)	++++ 1.7	-16.7	-6.3	3.3	8.0	9.9	30	50	30	30	30	30
Bromochloromethane	7.3 -2.1	1.5	-3.5	-4.6	-1.5	2.9	50 30	30	30	30	30	30
Tetrahydrofuran	-23.5 -5.4	23.3	1.7	-4.8	1.7	7.0	50 30	30	30	30	30	30
Chloroform	6.0 -0.1	-0.1	-3.6	-4.5	-1.5	3.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-1.3 -1.1	2.7	0.5	-5.0	-0.6	4.8	50 30	30	30	30	30	30
Cyclohexane	5.7 -2.7	5.2	-5.0	-4.5	-2.9	4.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1-Dichloropropene	4.6 0.0	3.9	-4.7	-4.8	-1.9	3.0	50 30	30	30	30	30	30
Carbon tetrachloride	3.9 1.2	1.8	-6.1	-6.4	-1.5	7.1	50 30	30	30	30	30	30
Isobutyl alcohol	4.7 5.2	-5.3	-9.0	-0.9	3.0	2.3	50 30	30	30	30	30	30
Benzene	-0.1 1.2	1.9	-4.1	-3.5	-0.2	4.8	50 30	30	30	30	30	30
1,2-Dichloroethane	10.1 -2.8	1.4	-4.0	-4.2	-3.0	2.5	50 30	30	30	30	30	30
Heptane	11.1 -1.4	2.3	-5.4	-5.7	-3.0	2.1	50 30	30	30	30	30	30
Trichloroethene	3.5 -1.2	5.1	-5.0	-3.7	-1.8	3.1	50 30	30	30	30	30	30
Methylcyclohexane	5.3 -2.1	4.4	-3.9	-5.0	-2.4	3.6	50 30	30	30	30	30	30
1,2-Dichloropropane	0.1 -0.4	1.6	-3.7	-2.7	0.7	4.5	50 30	30	30	30	30	30
Dibromomethane	7.1 -1.5	-4.8	-4.5	-2.7	1.4	5.1	50 30	30	30	30	30	30
1,4-Dioxane	++++ 2.7	20.4	1.5	-17.6	6.4	-13.4	30	50	30	30	30	30
Dichlorobromomethane	4.6 -1.8	2.7	-4.9	-3.8	-0.8	4.0	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-10.5 2.5	-0.6	-3.5	0.2	5.7	6.3	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-2.4 -1.7	4.7	1.0	-1.9	-2.2	2.6	50 30	30	30	30	30	30
methyl isobutyl ketone	++++ -7.2	13.0	-6.6	1.9	-1.8	0.8	30	50	30	30	30	30
Toluene	2.9 0.6	3.5	-3.5	-4.2	-2.1	2.8	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	8.2 -3.0	2.8	-1.1	-5.4	-3.7	2.2	50 30	30	30	30	30	30
Ethyl methacrylate	-7.4 0.2	6.6	-4.7	-1.5	-0.8	7.7	50 30	30	30	30	30	30
1,1,2-Trichloroethane	13.9 -4.6	2.7	-2.9	-5.3	-4.3	0.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrachloroethene	2.6 1.1	2.6	-2.6	-4.6	-3.1	4.0	50 30	30	30	30	30	30
1,3-Dichloropropane	2.6 -3.0	5.5	-2.8	-1.9	-3.2	2.7	50 30	30	30	30	30	30
2-Hexanone	++++ -0.5	-3.6	-0.8	-0.4	-1.1	6.4	30	50	30	30	30	30
Chlorodibromomethane	6.2 -1.7	3.5	-3.8	-5.0	-2.3	3.1	50 30	30	30	30	30	30
Ethylene Dibromide	-0.4 -3.7	10.3	-2.4	-4.5	-2.3	3.0	50 30	30	30	30	30	30
Chlorobenzene	1.5 2.5	-0.4	-4.2	-3.3	-1.4	5.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	1.6 1.4	3.2	-2.4	-4.8	-4.0	5.0	50 30	30	30	30	30	30
Ethylbenzene	-0.7 4.0	-2.0	-4.2	-3.0	-0.4	6.2	50 30	30	30	30	30	30
m&p-Xylene	1.9 4.0	1.8	-5.7	-6.1	-1.7	5.8	50 30	30	30	30	30	30
o-Xylene	-4.6 5.5	-1.3	-3.7	-3.3	-1.1	8.5	50 30	30	30	30	30	30
Styrene	-7.5 9.1	-4.3	-4.9	-3.9	1.0	10.5	50 30	30	30	30	30	30
Bromoform	4.3 1.4	2.2	-9.3	-5.8	-1.2	8.4	50 30	30	30	30	30	30
Isopropylbenzene	-1.3 0.8	1.8	-3.0	-0.5	-1.5	3.6	50 30	30	30	30	30	30
Bromobenzene	6.9 0.1	0.0	-5.7	-2.3	-2.3	3.3	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	11.4 -11.2	13.9	-4.5	-3.9	-4.4	-1.4	50 30	30	30	30	30	30
1,2,3-Trichloropropane	24.6 -9.9	0.5	-2.8	-7.2	-5.2	-0.1	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	12.4 -10.5	6.3	1.4	-3.5	-4.4	-1.6	50 30	30	30	30	30	30
N-Propylbenzene	0.4 -0.4	3.1	-3.6	-1.0	-1.7	3.2	50 30	30	30	30	30	30
2-Chlorotoluene	1.9 -0.5	0.2	-3.6	-0.4	-1.0	3.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 11:58 Calibration End Date: 01/18/2022 14:32 Calibration ID: 43274

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,3,5-Trimethylbenzene	-2.0 3.6	-2.9	-4.5	-1.5	-0.3	7.6	50 30	30	30	30	30	30
4-Chlorotoluene	2.8 1.7	1.1	-6.4	-1.5	-2.3	4.5	50 30	30	30	30	30	30
tert-Butylbenzene	-0.6 3.0	-1.9	-4.0	-1.0	-1.5	5.9	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-1.5 4.1	-4.4	-5.5	-1.5	0.3	8.5	50 30	30	30	30	30	30
sec-Butylbenzene	-2.1 1.8	0.2	-4.2	-1.2	-0.9	6.4	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-1.1 3.0	1.4	-6.7	-2.8	-0.5	6.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-3.9 5.4	-3.8	-5.4	-2.0	0.3	9.4	50 30	30	30	30	30	30
1,4-Dichlorobenzene	5.4 2.7	-1.6	-7.3	-4.2	-1.4	6.3	50 30	30	30	30	30	30
n-Butylbenzene	0.3 2.1	-0.9	-4.6	-2.4	-1.3	6.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-3.7 6.0	-4.1	-7.2	-2.8	0.7	11.2	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.0 -7.5	20.8	-2.4	-3.5	-0.2	4.6	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	1.6 0.4	-0.7	-6.5	-2.7	0.9	7.0	50 30	30	30	30	30	30
Hexachlorobutadiene	-1.1 -0.6	6.8	-2.5	-3.6	-2.9	4.0	50 30	30	30	30	30	30
Naphthalene	-1.5 -5.1	2.5	-5.0	0.1	2.7	6.3	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-2.4 -5.8	3.5	-2.6	0.7	2.4	4.2	50 30	30	30	30	30	30
Dibromofluoromethane	0.6		-2.1	-0.1	-2.5	4.0	30		50	30	30	30
1,2-Dichloroethane-d4 (Surr)	-2.6		2.3	-0.2	-1.8	2.3	30		50	30	30	30
Toluene-d8 (Surr)	0.1		0.8	1.1	-3.8	1.7	30		50	30	30	30
4-Bromofluorobenzene (Surr)	-1.1		0.7	2.8	-3.6	1.3	30		50	30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Jan-2022 11:58:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 500-0083302-002
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:42:47 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarellop

Date: 18-Jan-2022 14:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.526	1.523	0.003	83	9746	2.00	1.95	
2 Chloromethane	50	1.713	1.716	-0.003	94	11003	2.00	2.32	
3 Vinyl chloride	62	1.835	1.832	0.003	78	10953	2.00	2.06	a
4 Butadiene	39	1.852	1.849	0.003	91	11548	2.00	2.02	
5 Bromomethane	94	2.130	2.127	0.003	85	8926	2.00	2.37	
6 Chloroethane	64	2.221	2.232	-0.011	67	7553	2.00	2.36	M
7 Dichlorofluoromethane	67	2.439	2.442	-0.003	86	14980	2.00	2.05	M
8 Trichlorofluoromethane	101	2.479	2.476	0.003	81	13387	2.00	2.04	
11 Ethyl ether	59	2.757	2.757	-0.001	75	5417	2.00	2.04	
12 Acrolein	56	2.881	2.879	0.002	97	27819	80.0	69.8	
13 1,1-Dichloroethene	96	2.966	2.964	0.002	76	7257	2.00	2.03	a
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.989	2.981	0.008	78	9439	2.00	2.29	a
16 Iodomethane	142	3.108	3.105	0.003	89	12953	2.00	2.19	
17 Carbon disulfide	76	3.165	3.168	-0.003	97	26050	2.00	2.07	
20 3-Chloro-1-propene	76	3.307	3.304	0.003	84	4421	2.00	2.04	M
21 Methyl acetate	43	3.335	3.327	0.008	94	6239	4.00	3.47	
* 23 TBA-d9 (IS)	65	3.460	3.465	-0.005	95	262580	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.536	3.531	0.005	89	7094	20.0	21.9	
25 Acrylonitrile	53	3.658	3.650	0.008	89	19079	20.0	20.1	
26 trans-1,2-Dichloroethene	96	3.675	3.675	0.000	74	7952	2.00	2.07	M
27 Methyl tert-butyl ether	73	3.672	3.675	-0.003	95	18947	2.00	2.05	
28 Hexane	57	3.928	3.928	0.000	90	11667	2.00	2.00	M
29 1,1-Dichloroethane	63	4.072	4.070	0.002	82	13336	2.00	2.10	
30 Vinyl acetate	43	4.118	4.118	0.000	96	10388	2.00	1.88	
35 cis-1,2-Dichloroethene	96	4.622	4.625	-0.003	94	7935	2.00	2.03	
34 2,2-Dichloropropane	41	4.622	4.628	-0.006	68	7168	2.00	2.48	a
39 Chlorobromomethane	128	4.858	4.861	-0.003	87	3680	2.00	2.15	M
41 Tetrahydrofuran	42	4.914	4.909	0.005	69	4548	4.00	3.06	Ma
42 Chloroform	83	4.940	4.940	0.000	94	12442	2.00	2.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
44 1,1,1-Trichloroethane	97	5.119	5.127	-0.008	80	11082	2.00	1.97	
45 Cyclohexane	56	5.184	5.184	0.000	89	15745	2.00	2.11	M
47 1,1-Dichloropropene	75	5.286	5.292	-0.006	88	9891	2.00	2.09	
46 Carbon tetrachloride	117	5.289	5.292	-0.003	77	10778	2.00	2.08	
49 Isobutyl alcohol	43	5.391	5.391	0.000	80	6941	50.0	52.3	a
50 Benzene	78	5.504	5.502	0.002	97	28294	2.00	2.00	
51 1,2-Dichloroethane	62	5.524	5.521	0.003	85	8788	2.00	2.20	a
54 n-Heptane	43	5.765	5.765	0.000	42	13422	2.00	2.22	a
* 55 Fluorobenzene (IS)	96	5.785	5.788	-0.003	99	687499	53.4	53.4	
57 Trichloroethene	130	6.179	6.174	0.005	77	7441	2.00	2.07	M
59 Methylcyclohexane	83	6.383	6.383	0.000	88	15699	2.00	2.11	
60 1,2-Dichloropropane	63	6.420	6.423	-0.003	80	6704	2.00	2.00	
* 62 1,4-Dioxane-d8	96	6.499	6.500	-0.001	82	19545	1068.6	1068.6	
63 Dibromomethane	93	6.553	6.551	0.002	77	3745	2.00	2.14	M
66 Dichlorobromomethane	83	6.718	6.721	-0.003	91	8913	2.00	2.09	M
68 2-Chloroethyl vinyl ether	63	7.058	7.058	0.000	37	1907	2.00	1.79	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	72	10120	2.00	1.95	
72 Toluene	92	7.620	7.623	-0.003	87	18252	2.00	2.06	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	85	9974	2.00	2.16	
74 Ethyl methacrylate	69	7.997	7.991	0.006	76	6643	2.00	1.85	M
75 1,1,2-Trichloroethane	97	8.104	8.107	-0.003	71	5642	2.00	2.28	
76 Tetrachloroethene	166	8.275	8.283	-0.008	86	7602	2.00	2.05	
77 1,3-Dichloropropane	76	8.309	8.314	-0.005	81	8810	2.00	2.05	a
80 Chlorodibromomethane	129	8.586	8.589	-0.003	68	6523	2.00	2.12	
81 Ethylene Dibromide	107	8.740	8.740	0.000	75	4925	2.00	1.99	a
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	86	508167	53.4	53.4	
84 Chlorobenzene	112	9.361	9.366	-0.005	82	19220	2.00	2.03	
85 1,1,1,2-Tetrachloroethane	131	9.463	9.474	-0.011	65	7505	2.00	2.03	a
86 Ethylbenzene	106	9.511	9.511	0.000	94	10651	2.00	1.99	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	98	26678	2.00	2.04	
88 o-Xylene	91	10.140	10.141	-0.001	89	26570	2.00	1.91	
89 Styrene	104	10.160	10.158	0.002	94	20779	2.00	1.85	a
90 Bromoform	173	10.364	10.359	0.005	82	4212	2.00	2.09	Ma
91 Isopropylbenzene	105	10.554	10.557	-0.003	93	34724	2.00	1.97	
95 Bromobenzene	156	10.869	10.869	0.000	91	8758	2.00	2.14	
96 1,1,2,2-Tetrachloroethane	83	10.872	10.875	-0.003	74	7563	2.00	2.23	
97 1,2,3-Trichloropropane	110	10.917	10.915	0.002	70	2481	2.00	2.49	
98 trans-1,4-Dichloro-2-butene	53	10.934	10.935	0.000	58	2322	2.00	2.25	
99 N-Propylbenzene	91	10.983	10.986	-0.004	97	41530	2.00	2.01	
100 2-Chlorotoluene	91	11.068	11.068	0.000	90	24251	2.00	2.04	
101 1,3,5-Trimethylbenzene	105	11.164	11.161	0.003	86	30153	2.00	1.96	
102 4-Chlorotoluene	91	11.173	11.176	-0.004	91	29171	2.00	2.06	
104 tert-Butylbenzene	119	11.473	11.473	0.000	89	27757	2.00	1.99	
106 1,2,4-Trimethylbenzene	105	11.518	11.519	-0.001	87	30810	2.00	1.97	
107 sec-Butylbenzene	105	11.680	11.680	0.000	90	41388	2.00	1.96	
108 1,3-Dichlorobenzene	146	11.776	11.777	-0.001	90	17610	2.00	1.98	
109 4-Isopropyltoluene	119	11.811	11.811	-0.001	93	35277	2.00	1.92	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	306734	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.853	11.859	-0.006	52	19213	2.00	2.11	
114 n-Butylbenzene	91	12.171	12.168	0.003	93	34084	2.00	2.01	
115 1,2-Dichlorobenzene	146	12.188	12.185	0.003	92	16458	2.00	1.93	
116 1,2-Dibromo-3-Chloropropane	75	12.828	12.829	-0.001	25	1051	2.00	1.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
118 1,2,4-Trichlorobenzene	180	13.469	13.470	-0.001	87	10855	2.00	2.03	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	82	6508	2.00	1.98	
120 Naphthalene	128	13.656	13.657	-0.001	96	20078	2.00	1.97	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	87	8240	2.00	1.95	
S 124 Xylenes, Total	100				0			3.94	
S 125 1,2-Dichloroethene, Total	96				0			4.09	
S 128 Trimethylbenzene, Total	1				0			3.93	
S 127 Trihalomethanes, Total	1				0			8.42	
S 126 1,3-Dichloropropene, Total	1				0			4.12	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LO8260/624STD_00509

Amount Added: 2.00

Units: uL

LOW8260ACR_00302

Amount Added: 2.00

Units: uL

INST16 IS_00032

Amount Added: 1.07

Units: uL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D

Injection Date: 18-Jan-2022 11:58:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD1

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

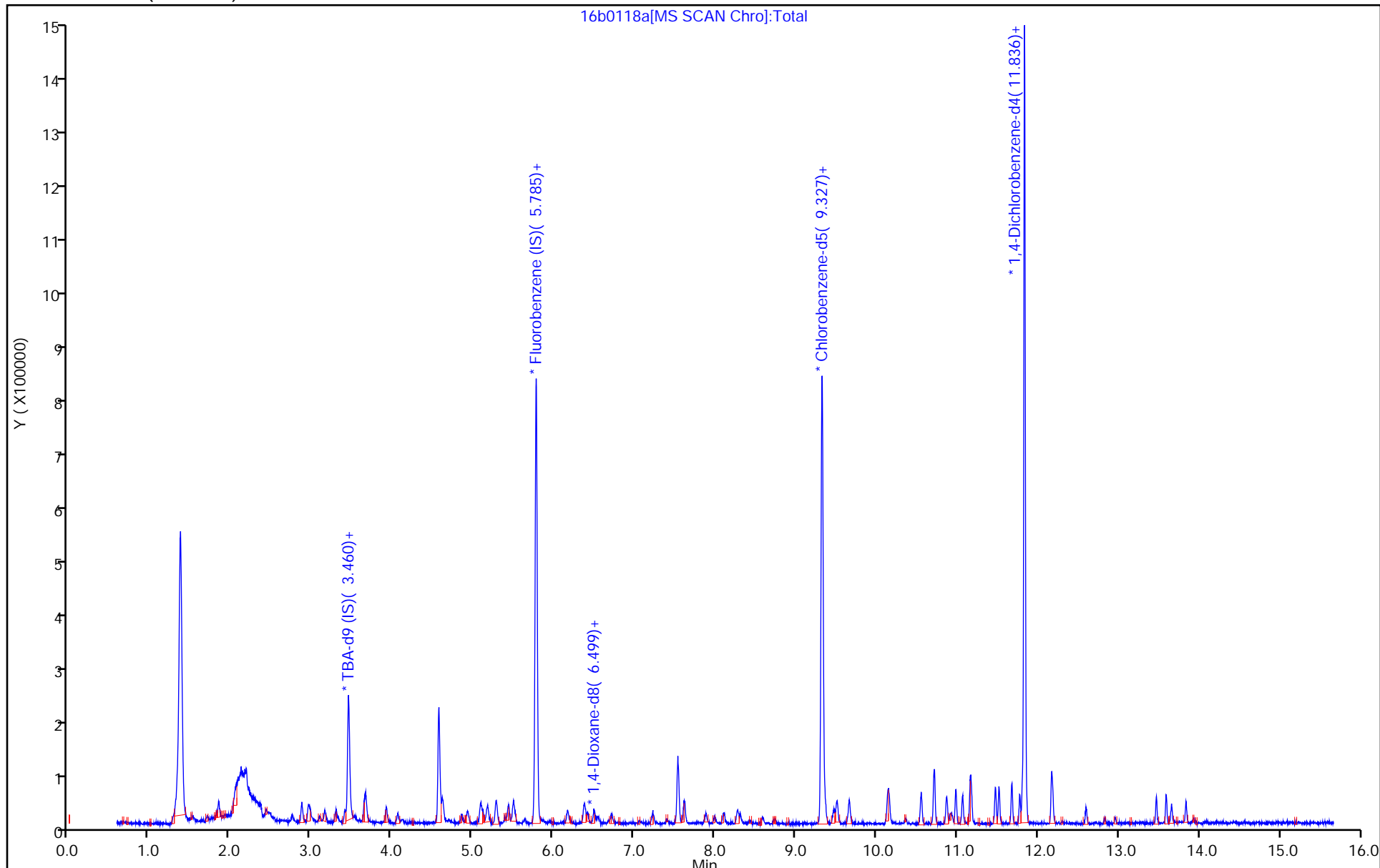
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

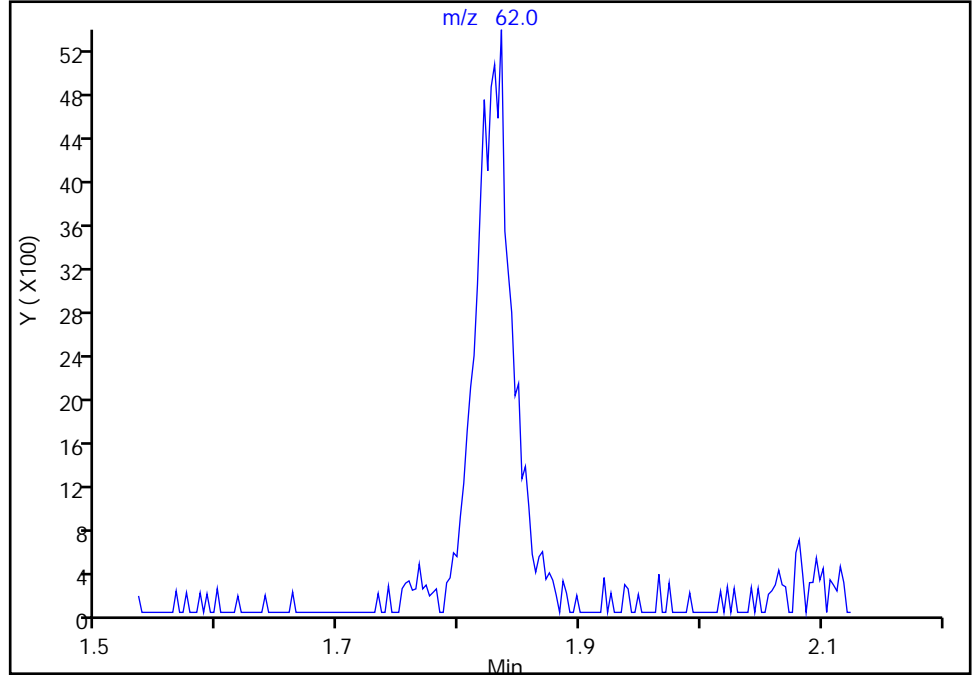
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

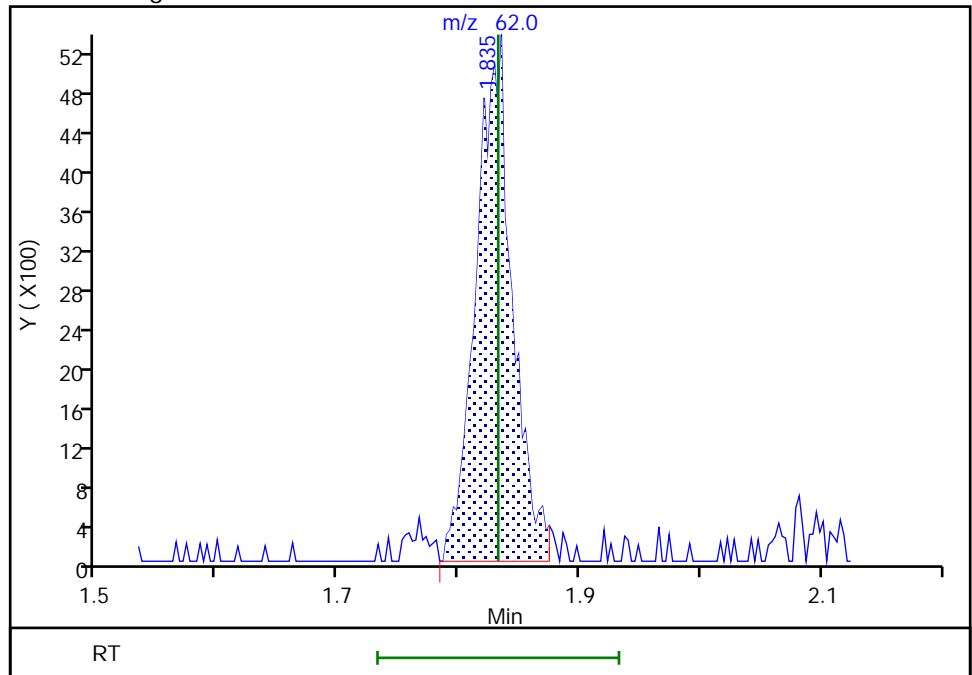
Not Detected
Expected RT: 1.83

Processing Integration Results



Manual Integration Results

RT: 1.83
Area: 10953
Amount: 2.062941
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 14:53:33
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

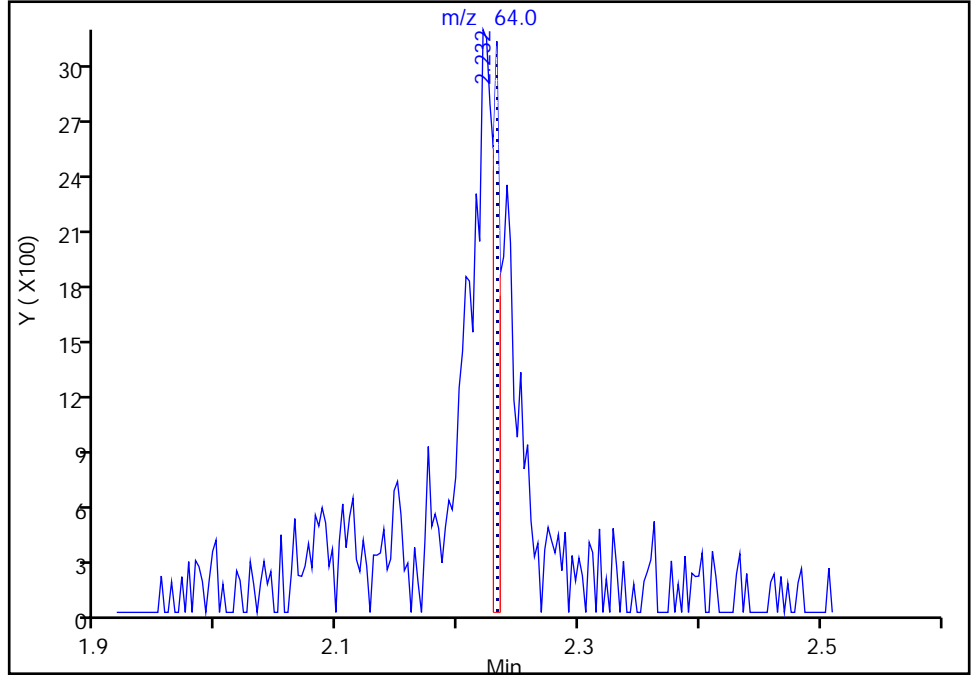
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

6 Chloroethane, CAS: 75-00-3

Signal: 1

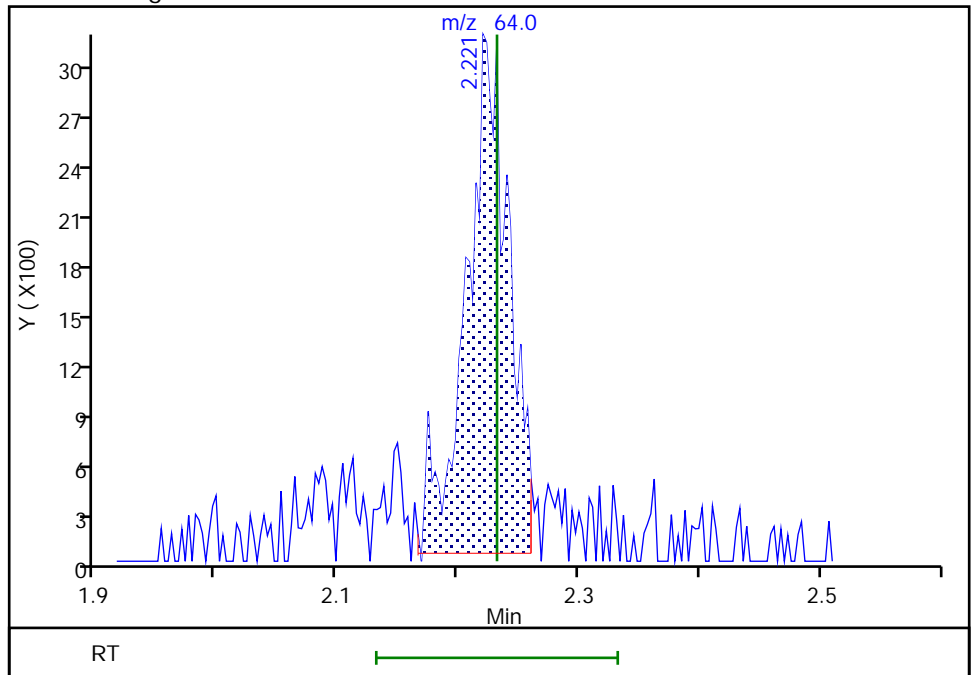
RT: 2.23
Area: 1269
Amount: 1.090607
Amount Units: UG/L

Processing Integration Results



RT: 2.22
Area: 7553
Amount: 2.360121
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:53:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

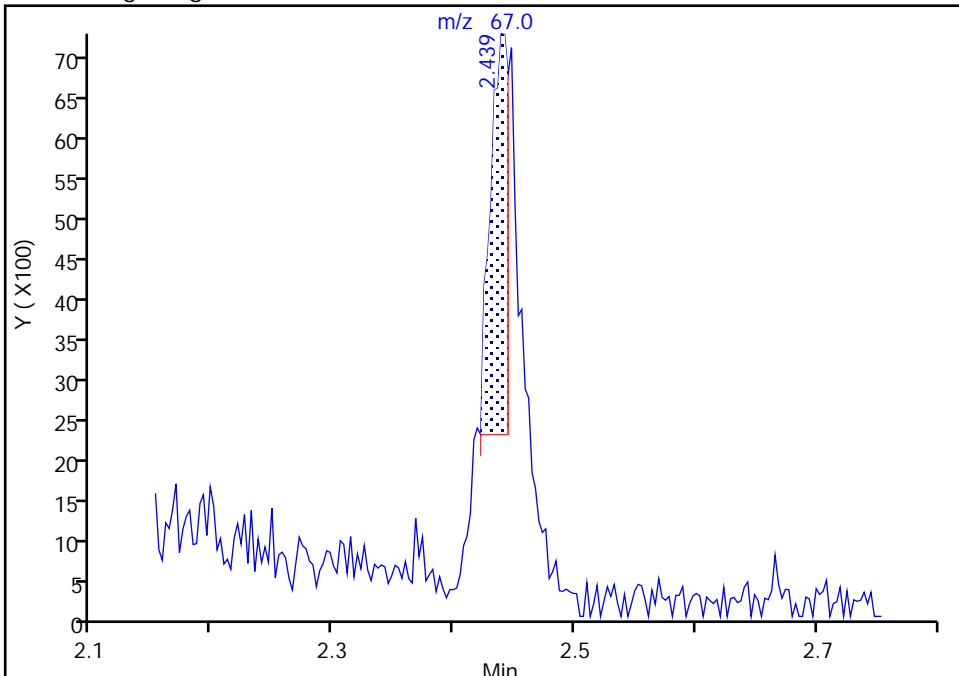
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

7 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

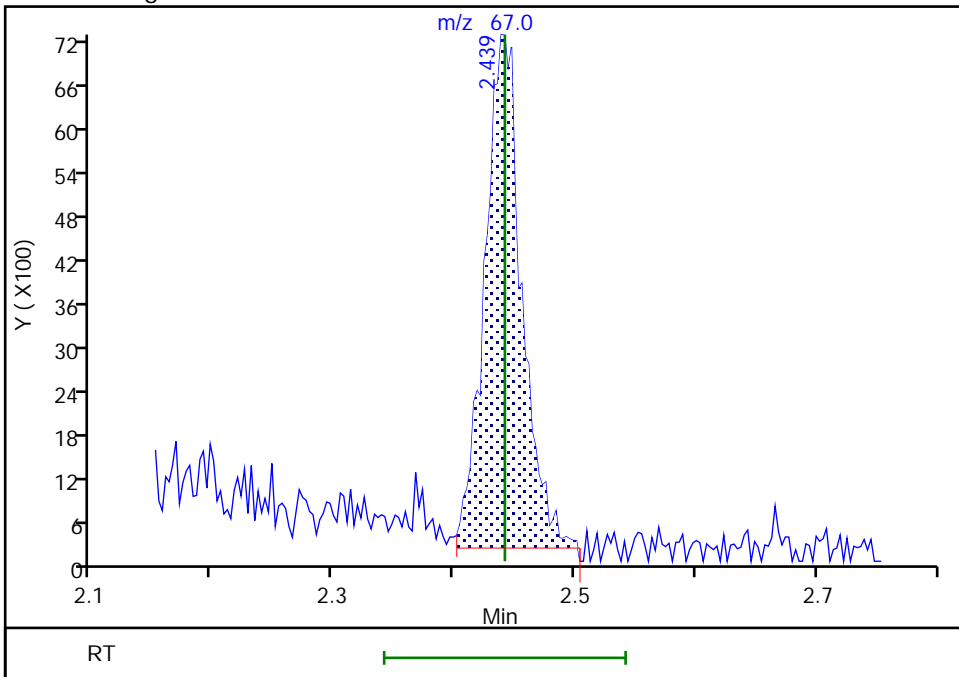
RT: 2.44
Area: 5117
Amount: 1.359555
Amount Units: UG/L

Processing Integration Results



RT: 2.44
Area: 14980
Amount: 2.046532
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:54:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

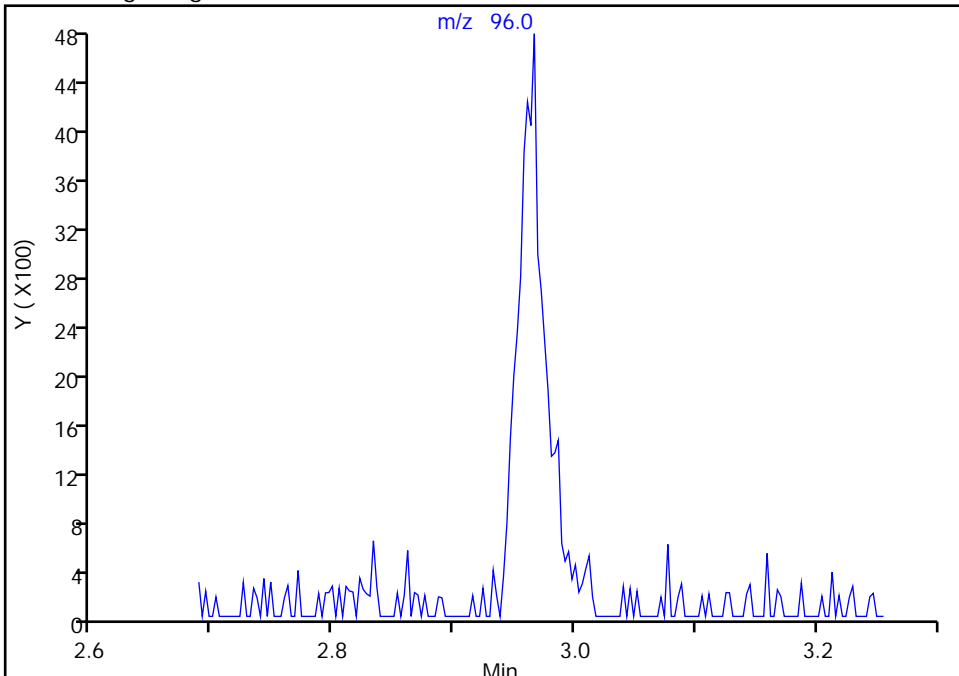
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

13 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

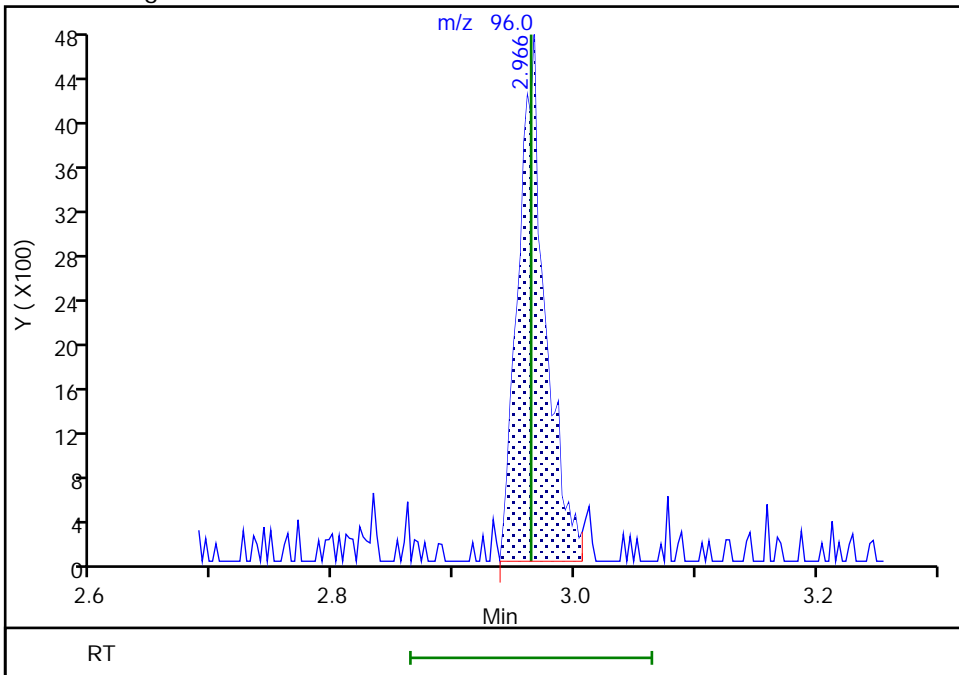
Not Detected
Expected RT: 2.96

Processing Integration Results



Manual Integration Results

RT: 2.97
Area: 7257
Amount: 2.030346
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 14:54:08
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

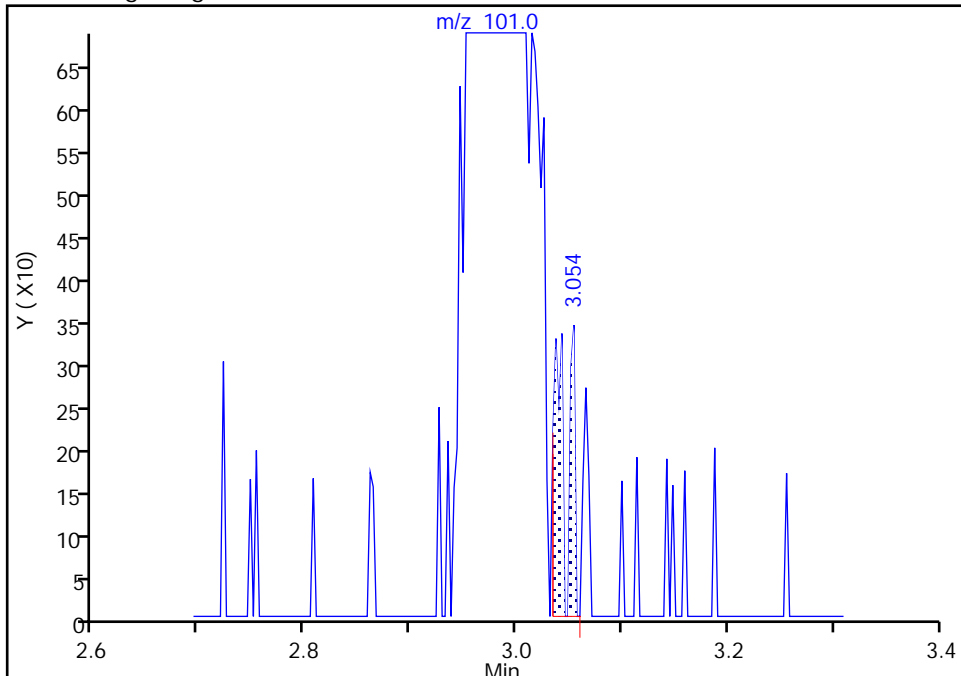
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

14 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

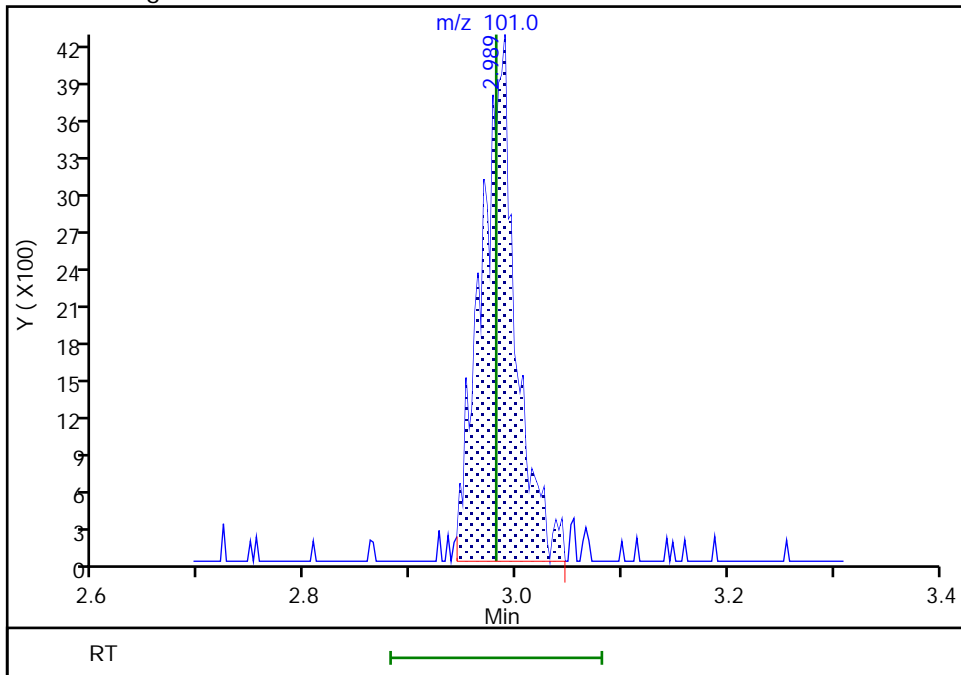
RT: 3.05
Area: 298
Amount: 1.187997
Amount Units: UG/L

Processing Integration Results



RT: 2.99
Area: 9439
Amount: 2.287559
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:54:31
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

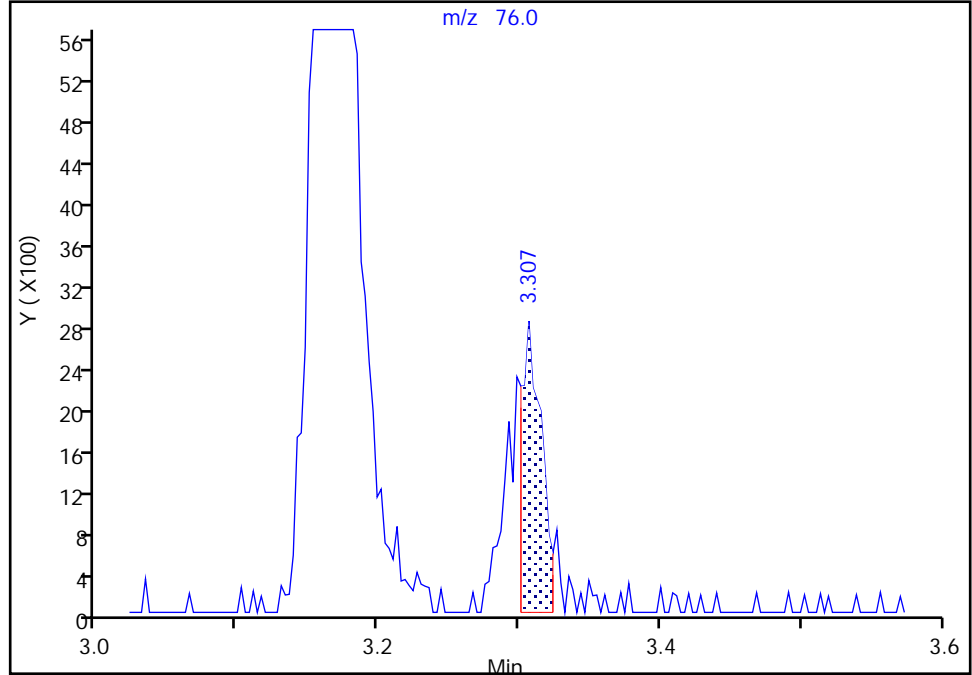
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

20 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

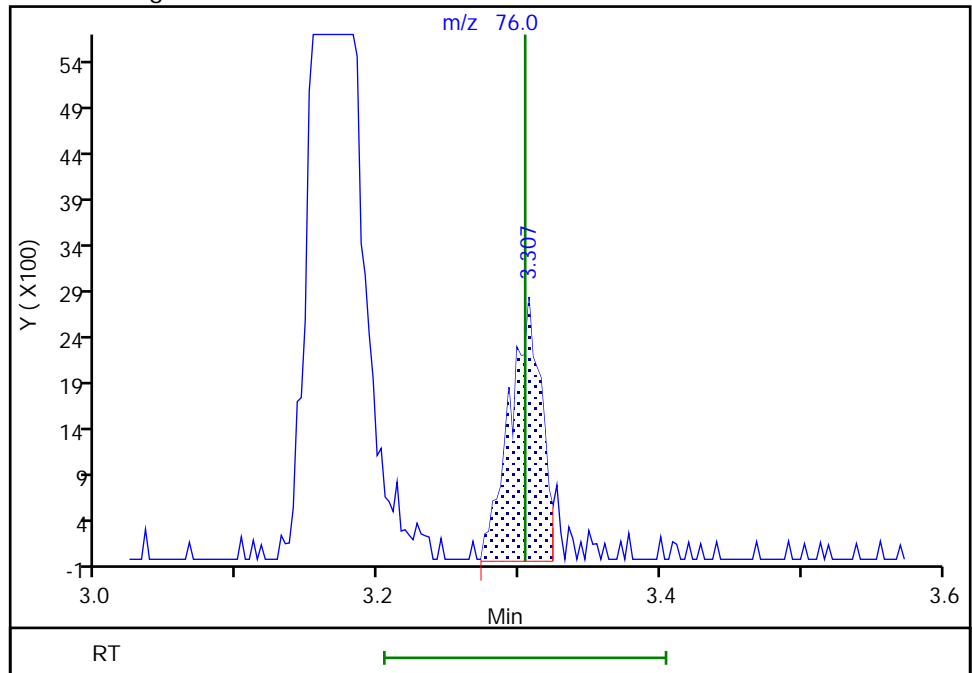
RT: 3.31
Area: 2761
Amount: 1.384538
Amount Units: UG/L

Processing Integration Results



RT: 3.31
Area: 4421
Amount: 2.038427
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:54:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

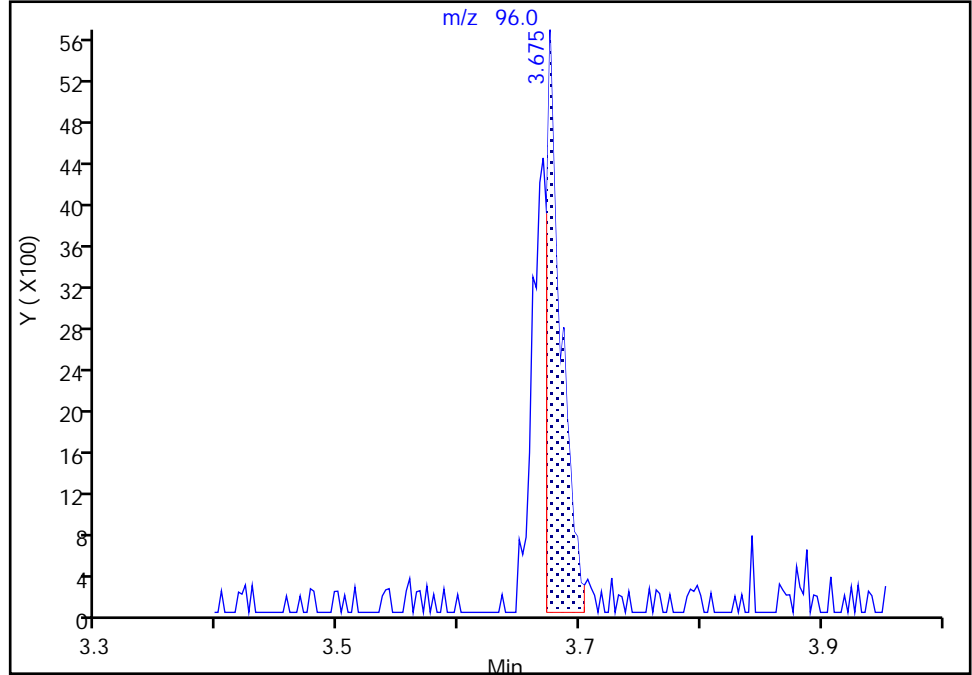
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Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

26 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

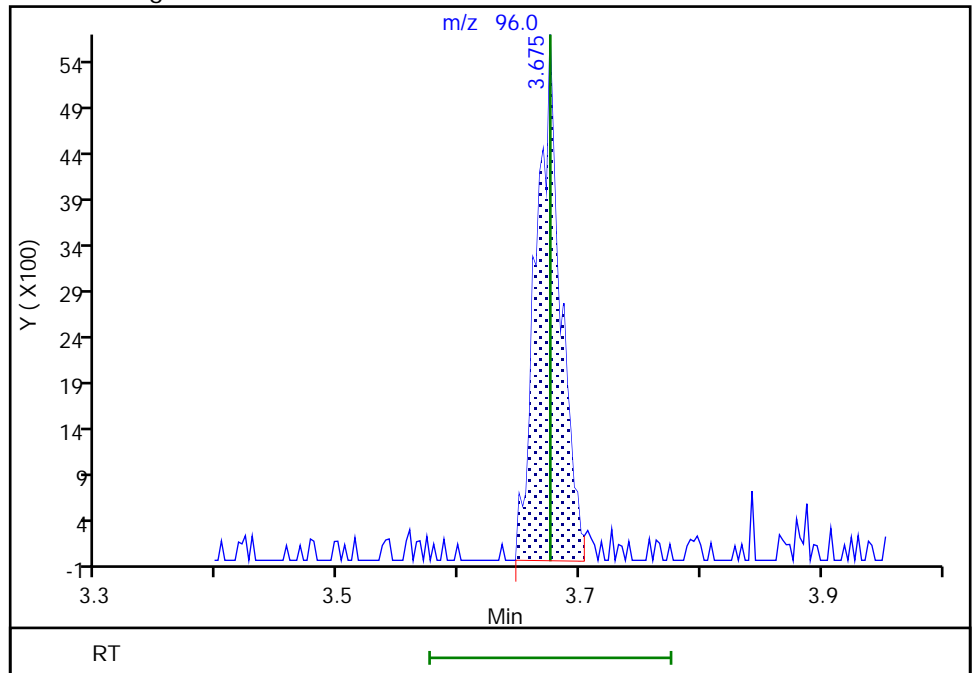
RT: 3.68
Area: 4761
Amount: 1.319920
Amount Units: UG/L

Processing Integration Results



RT: 3.68
Area: 7952
Amount: 2.065179
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:55:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

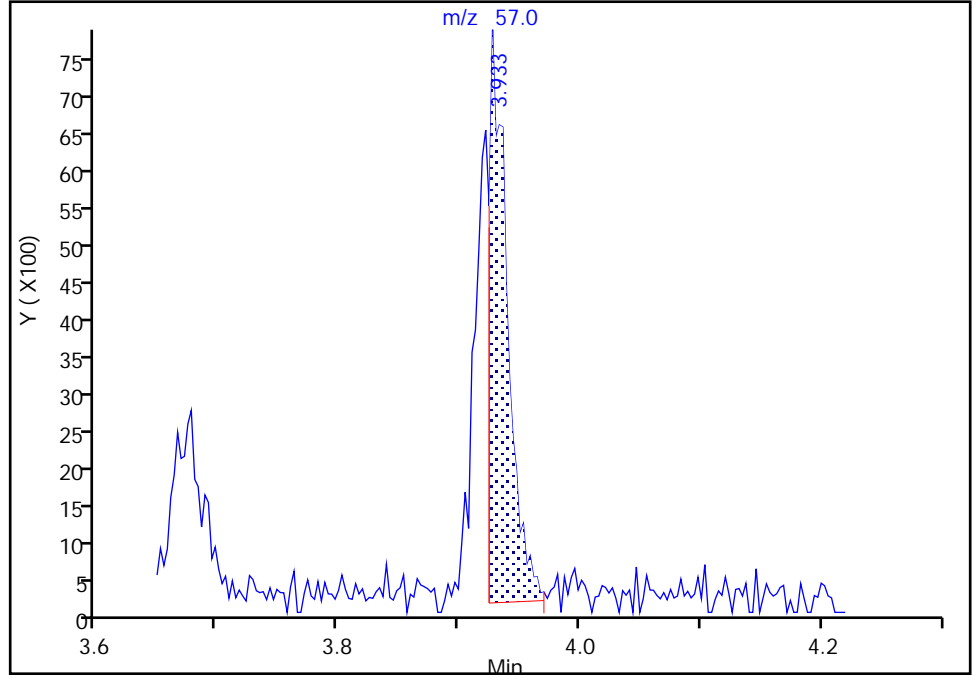
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

28 Hexane, CAS: 110-54-3

Signal: 1

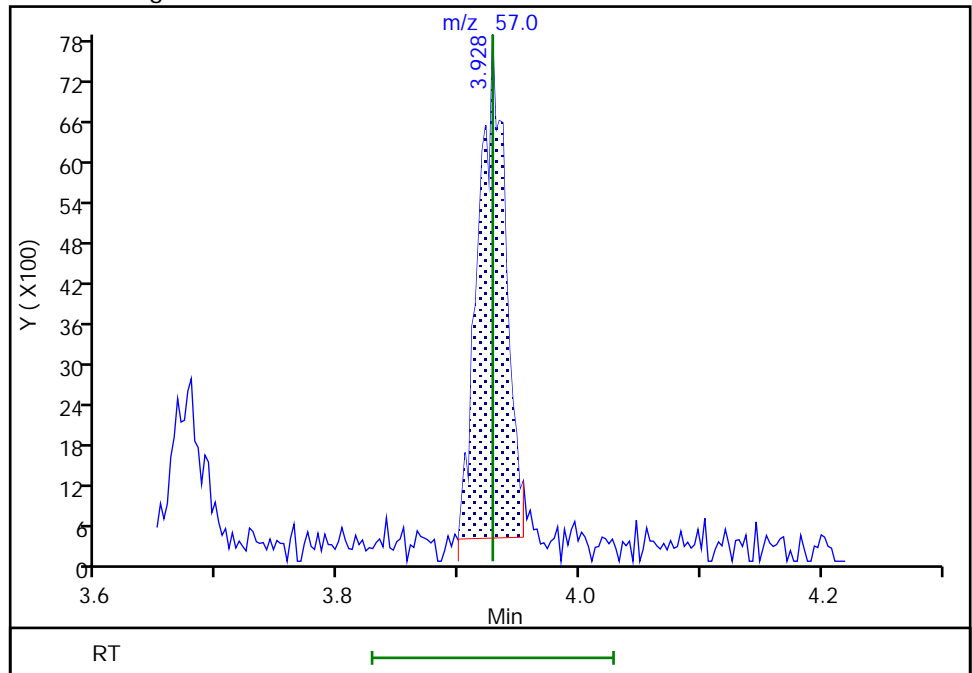
RT: 3.93
Area: 8021
Amount: 1.644314
Amount Units: UG/L

Processing Integration Results



RT: 3.93
Area: 11667
Amount: 1.999019
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:55:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

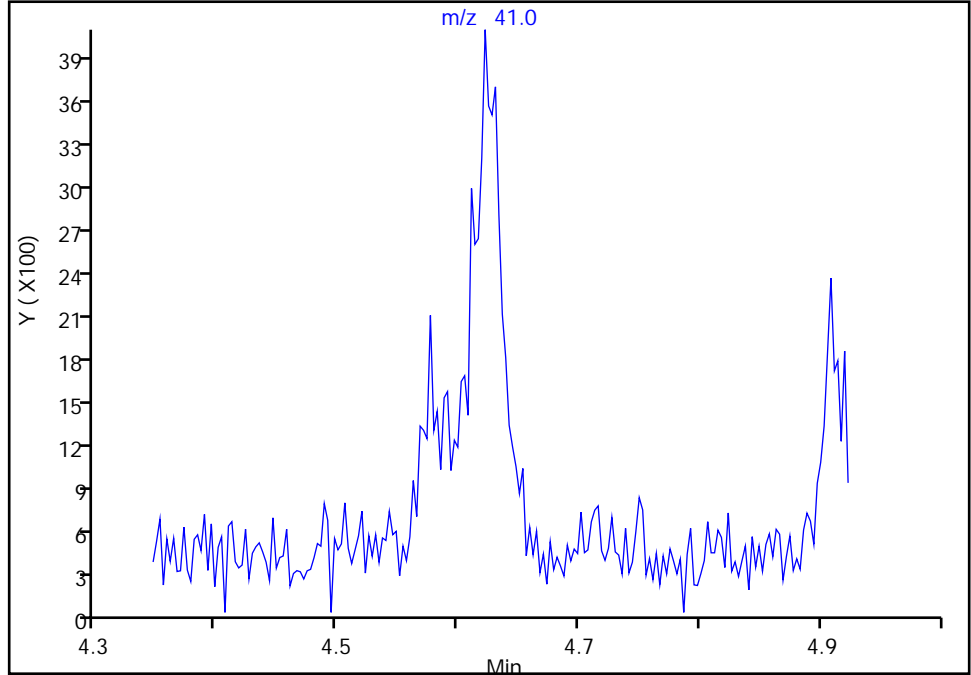
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

34 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

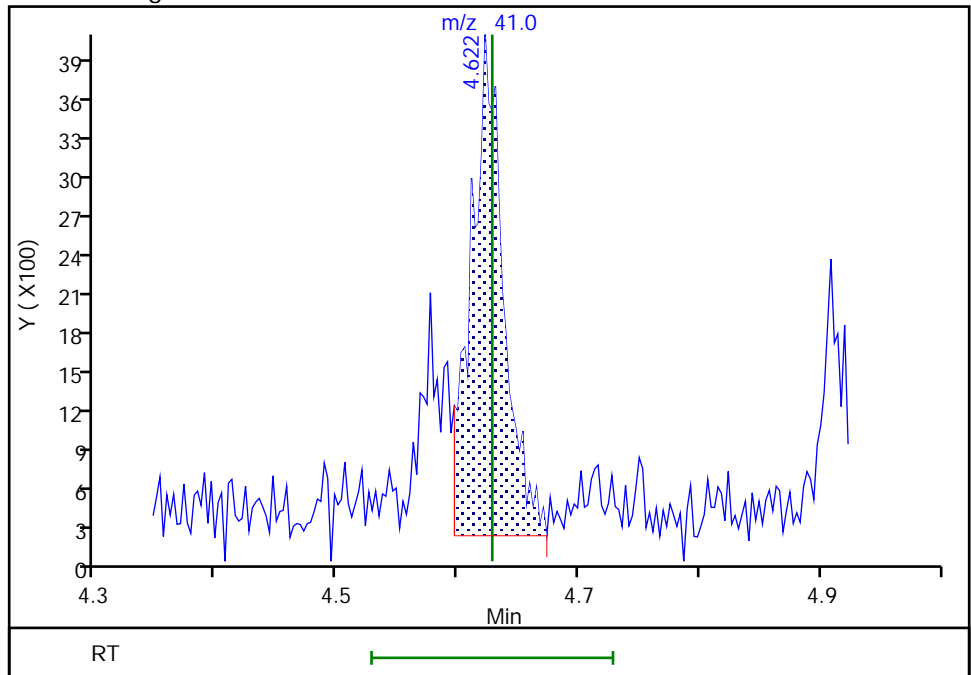
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.62
Area: 7168
Amount: 2.475205
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 14:57:05
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

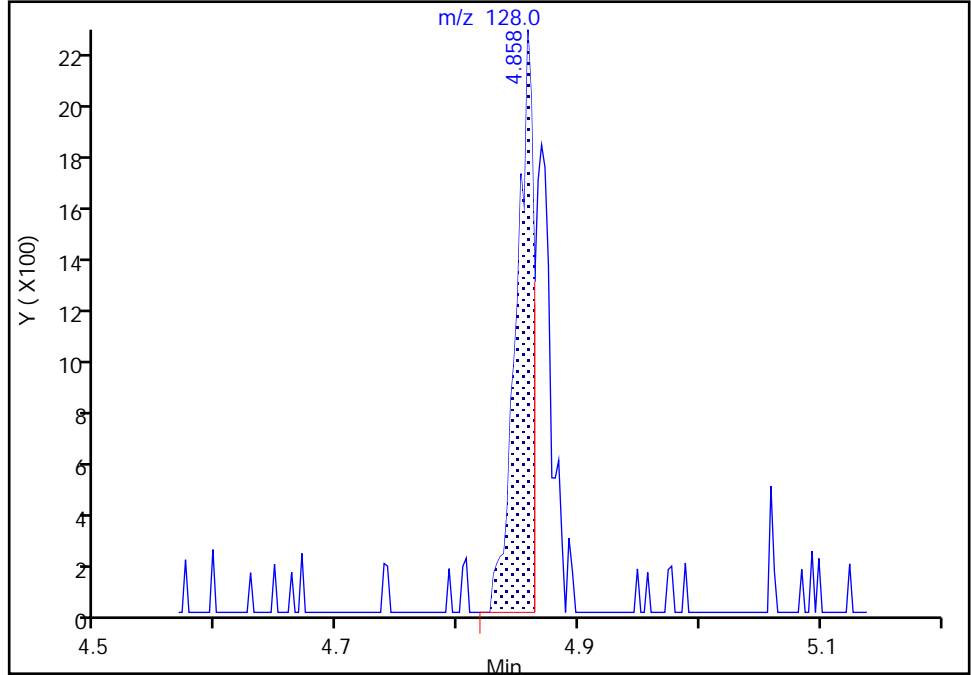
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

39 Chlorobromomethane, CAS: 74-97-5

Signal: 1

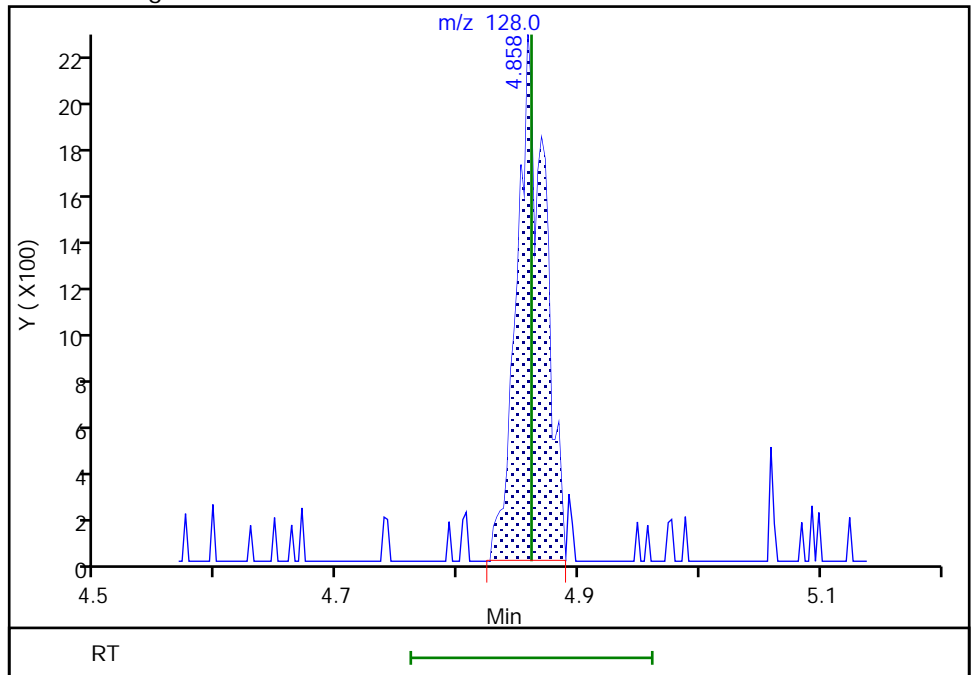
RT: 4.86
Area: 2235
Amount: 2.000000
Amount Units: UG/L

Processing Integration Results



RT: 4.86
Area: 3680
Amount: 2.146948
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

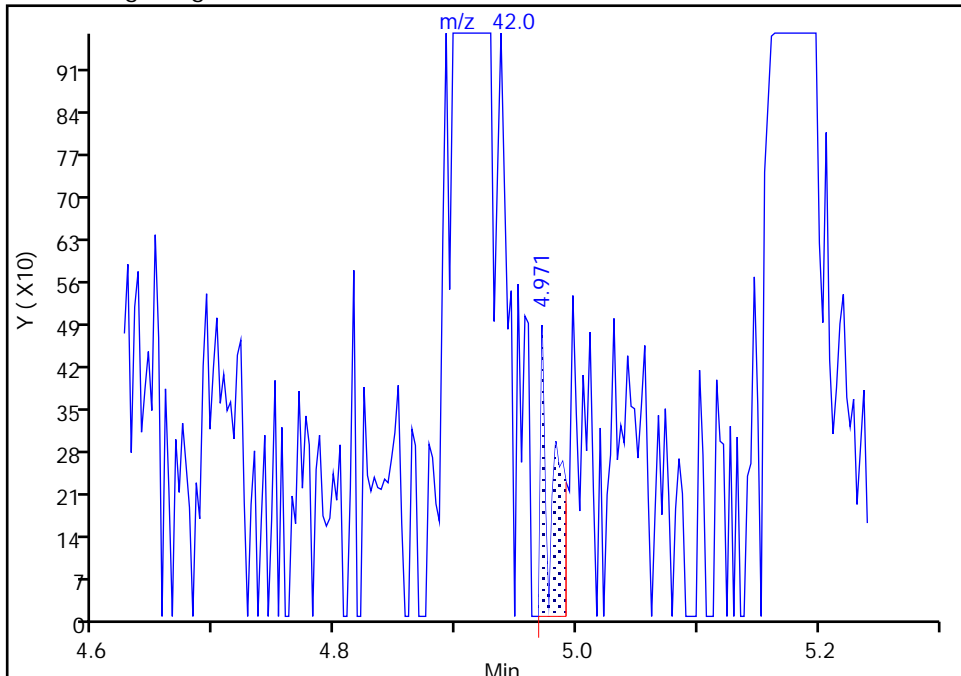
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

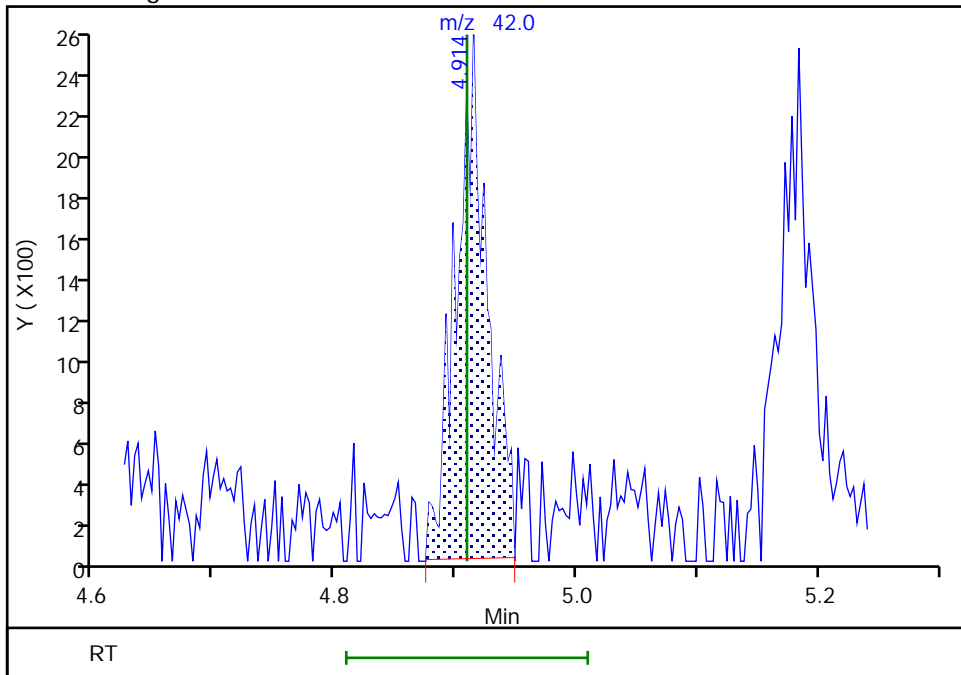
RT: 4.97
Area: 320
Amount: 0.398870
Amount Units: UG/L

Processing Integration Results



RT: 4.91
Area: 4548
Amount: 3.060109
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:05:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

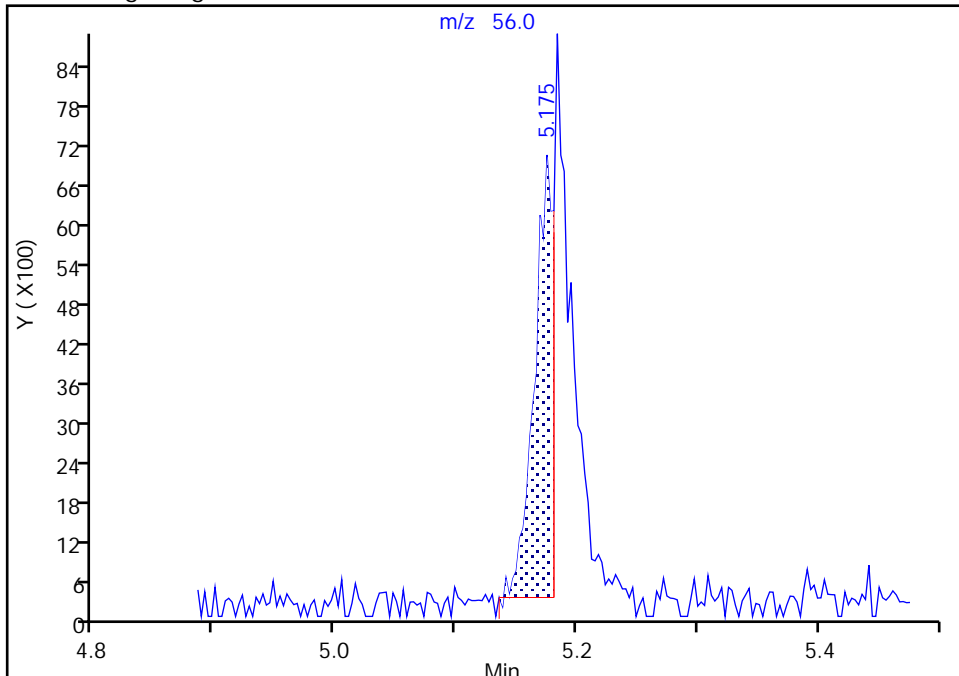
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

45 Cyclohexane, CAS: 110-82-7

Signal: 1

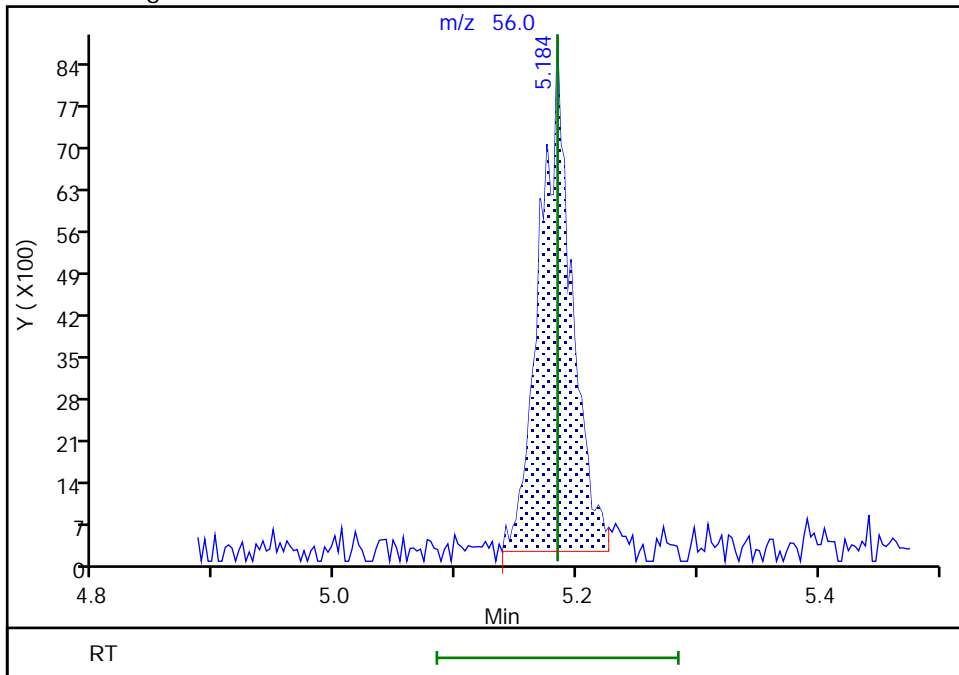
RT: 5.18
Area: 7326
Amount: 1.642555
Amount Units: UG/L

Processing Integration Results



RT: 5.18
Area: 15745
Amount: 2.114675
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 14:57:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

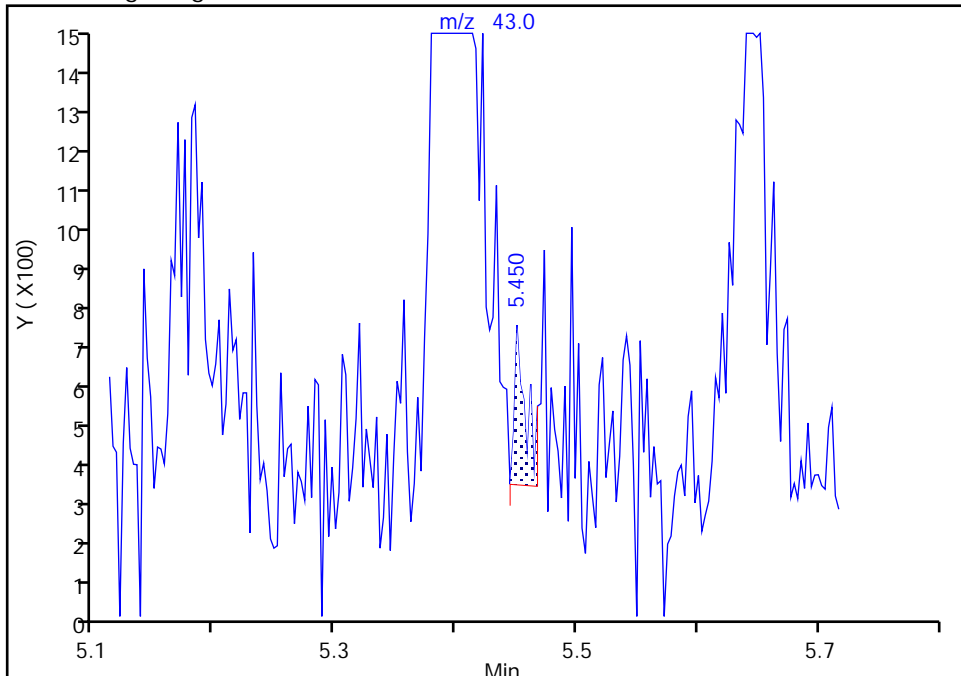
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

49 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

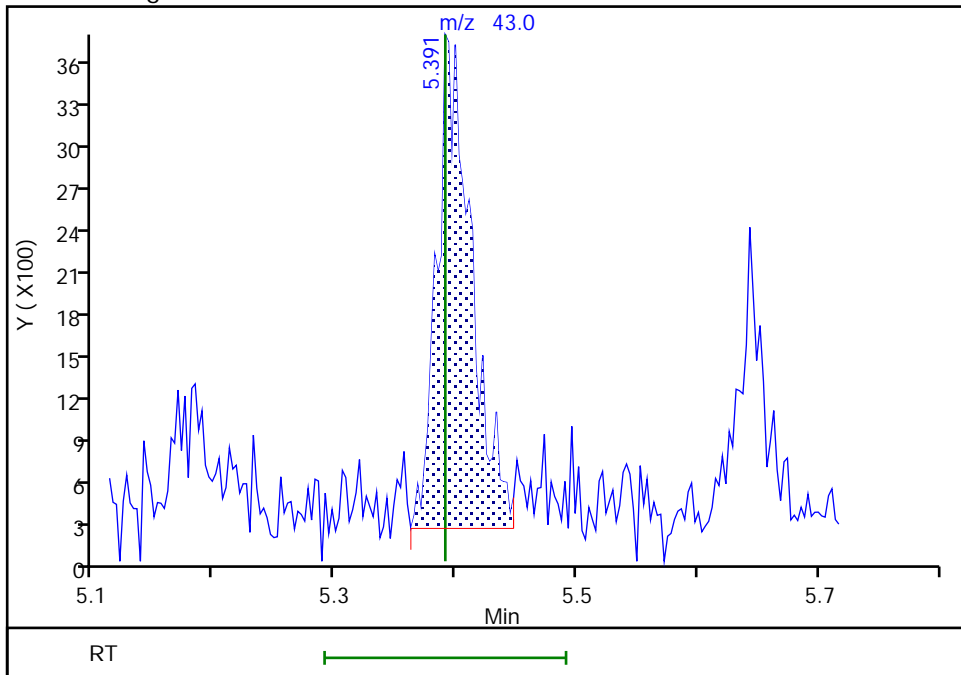
RT: 5.45
Area: 259
Amount: 44.141374
Amount Units: UG/L

Processing Integration Results



RT: 5.39
Area: 6941
Amount: 52.329269
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:00:24
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

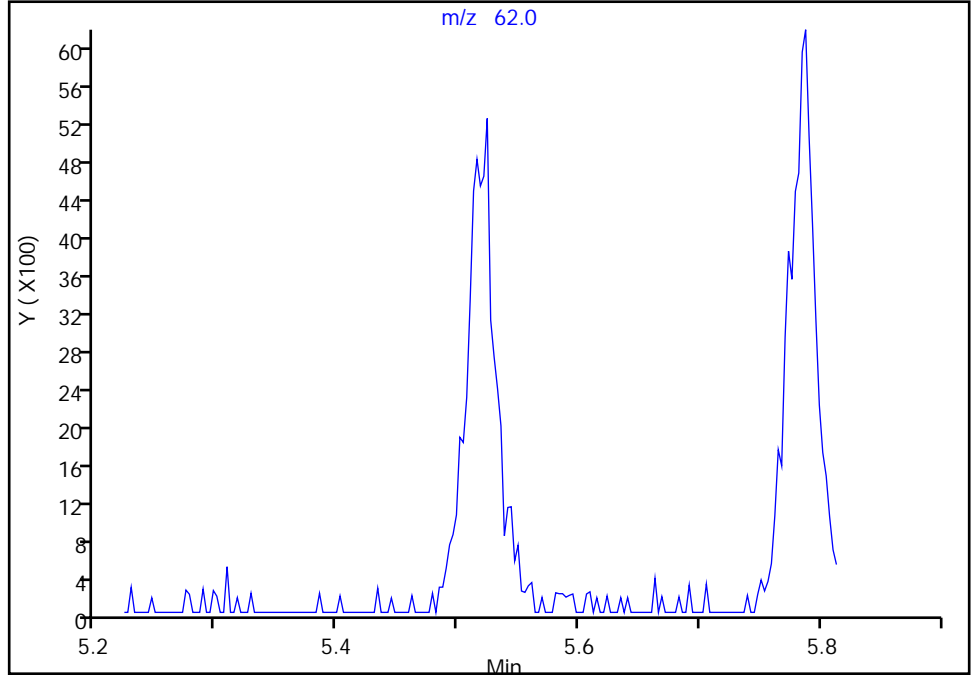
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

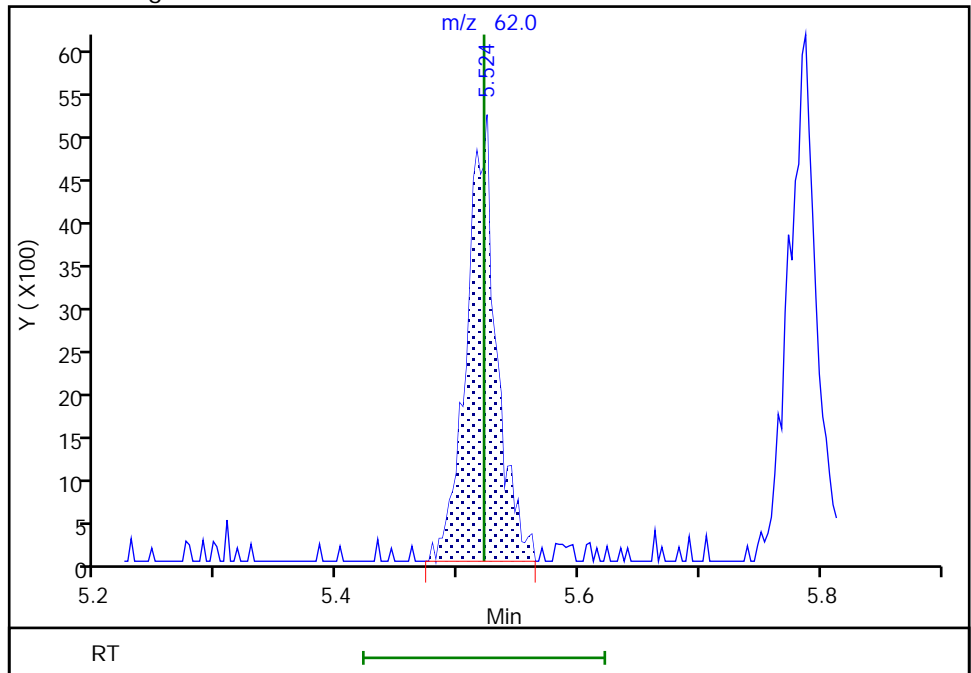
Not Detected
Expected RT: 5.52

Processing Integration Results



Manual Integration Results

RT: 5.52
Area: 8788
Amount: 2.202005
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:00:29
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

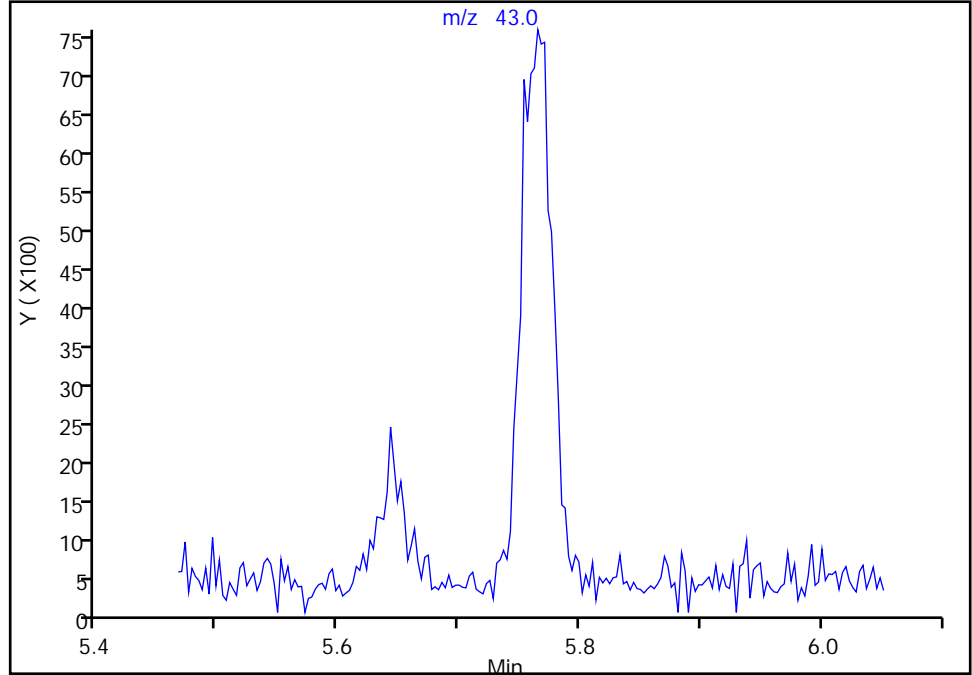
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector MS SCAN

54 n-Heptane, CAS: 142-82-5

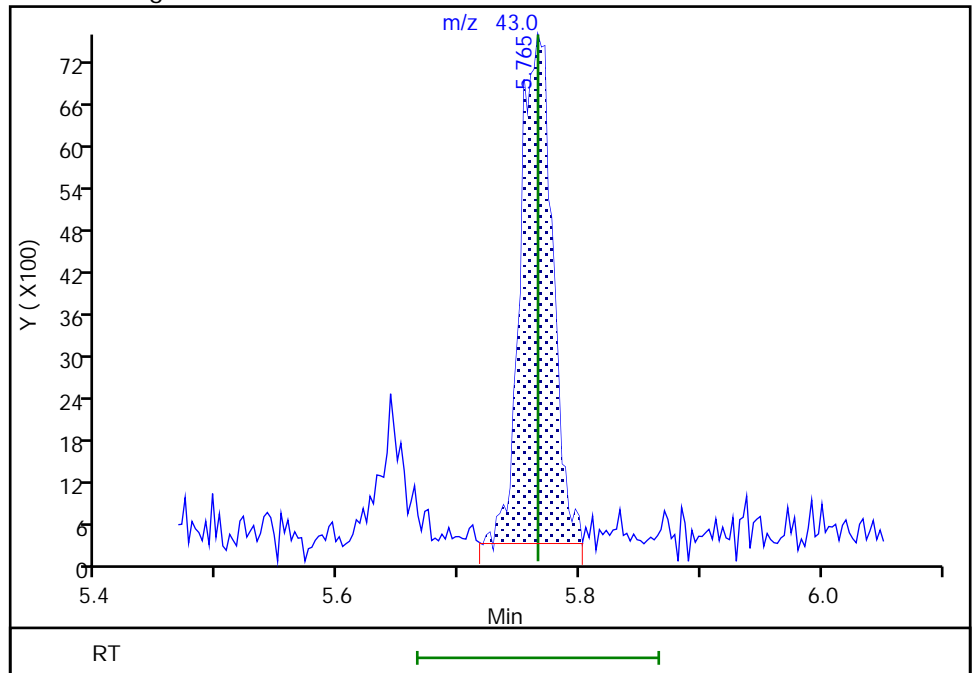
Signal: 1

Not Detected
Expected RT: 5.77

Processing Integration Results



Manual Integration Results



RT: 5.77
Area: 13422
Amount: 2.221238
Amount Units: UG/L

Eurofins Chicago

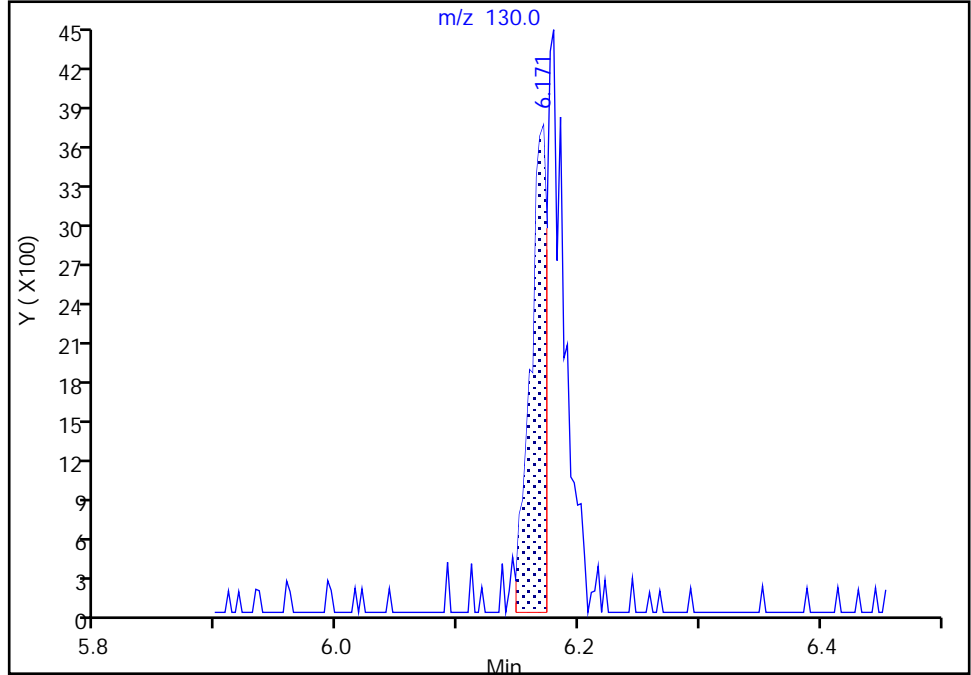
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

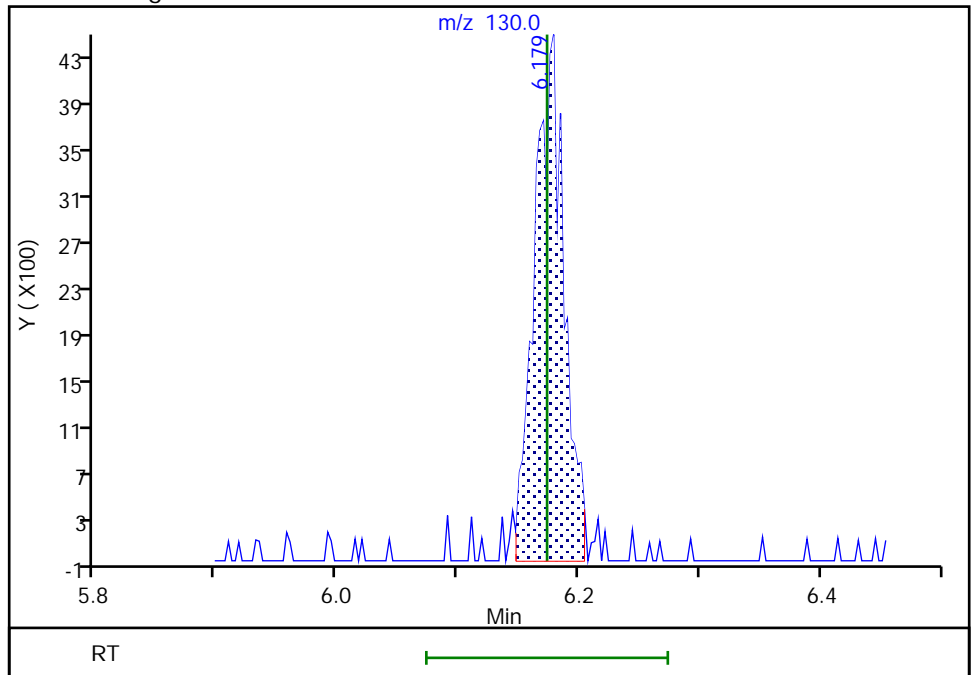
RT: 6.17
Area: 3470
Amount: 1.689936
Amount Units: UG/L

Processing Integration Results



RT: 6.18
Area: 7441
Amount: 2.069362
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:35:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

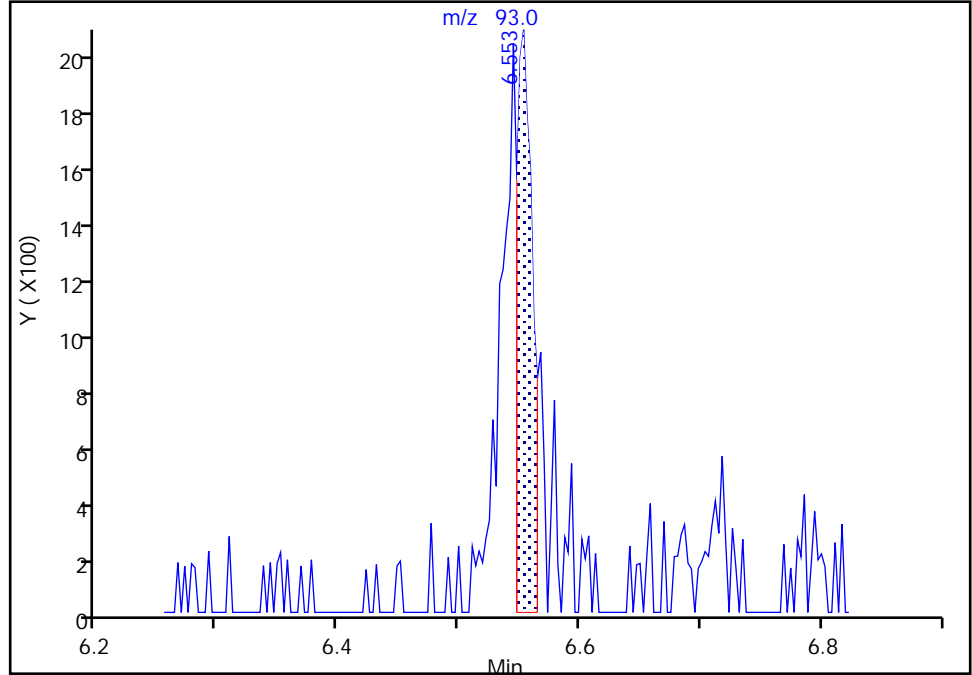
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

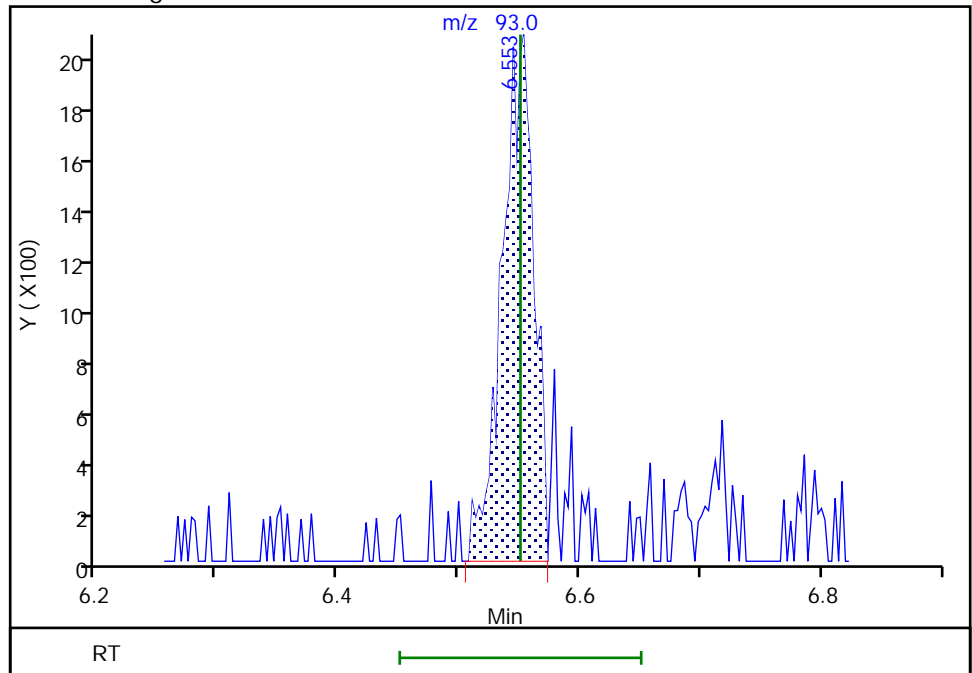
RT: 6.55
Area: 1837
Amount: 1.506214
Amount Units: UG/L

Processing Integration Results



RT: 6.55
Area: 3745
Amount: 2.142109
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:01:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

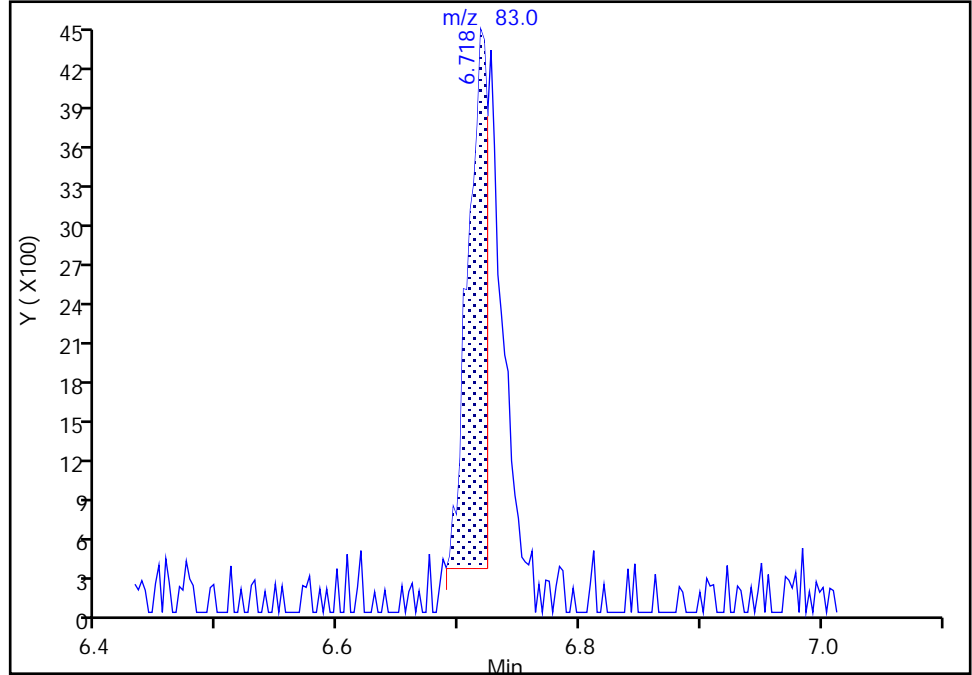
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

66 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

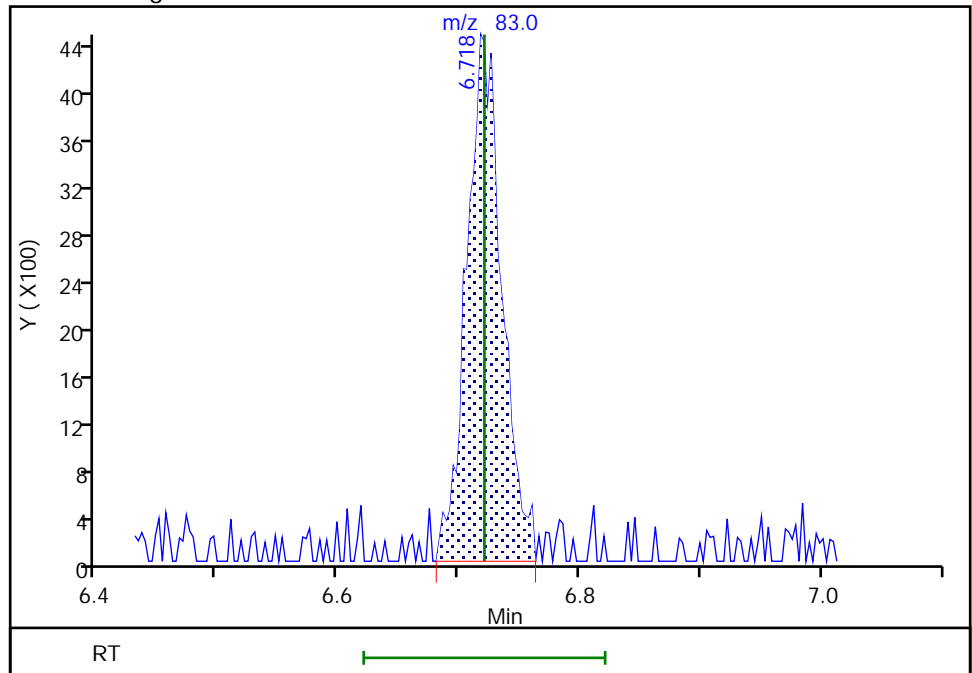
RT: 6.72
Area: 4527
Amount: 1.680210
Amount Units: UG/L

Processing Integration Results



RT: 6.72
Area: 8913
Amount: 2.091042
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:01:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

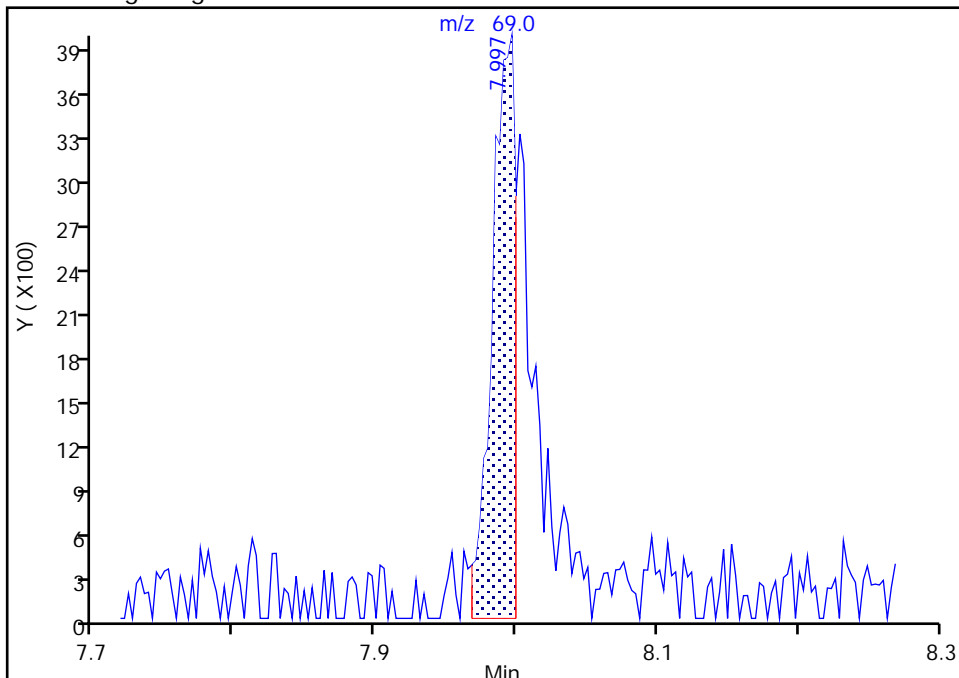
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

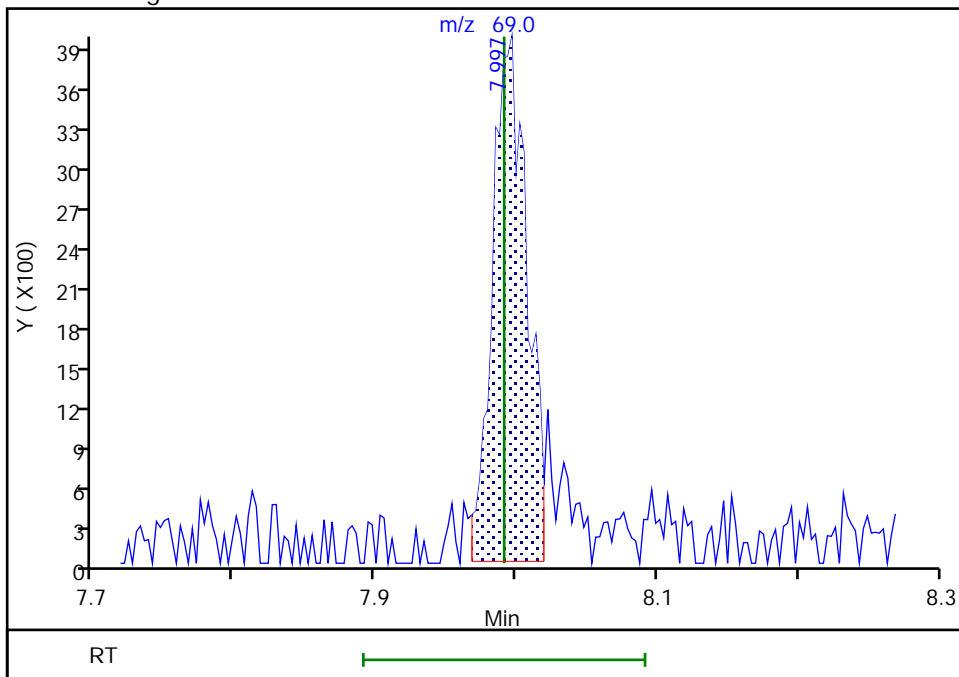
RT: 8.00
Area: 4453
Amount: 1.405863
Amount Units: UG/L

Processing Integration Results



RT: 8.00
Area: 6643
Amount: 1.852663
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:01:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

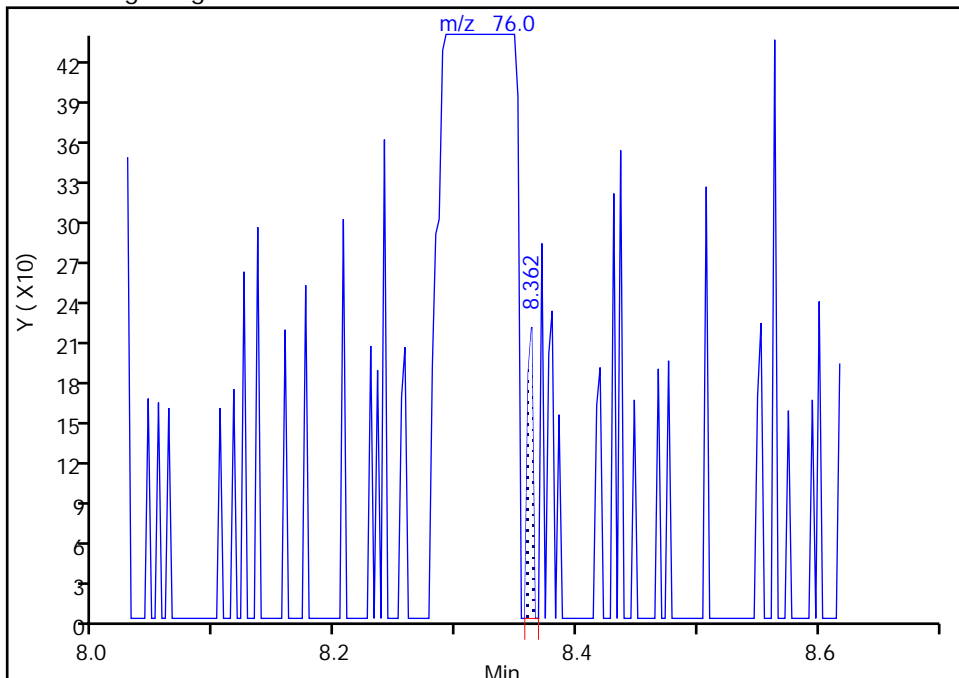
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

77 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

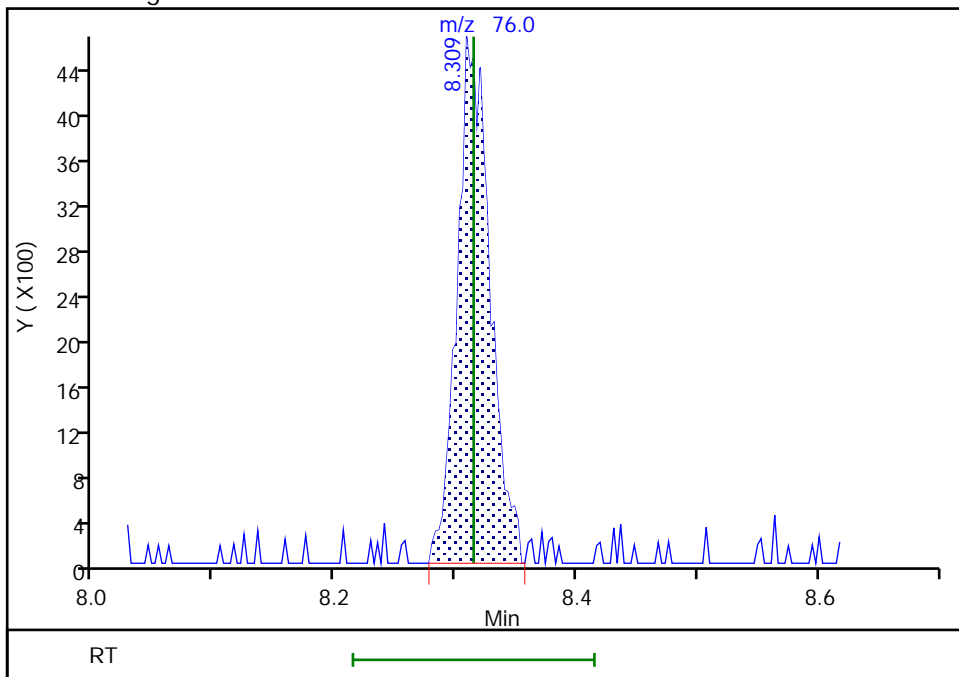
RT: 8.36
Area: 68
Amount: 1.293176
Amount Units: UG/L

Processing Integration Results



RT: 8.31
Area: 8810
Amount: 2.051859
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

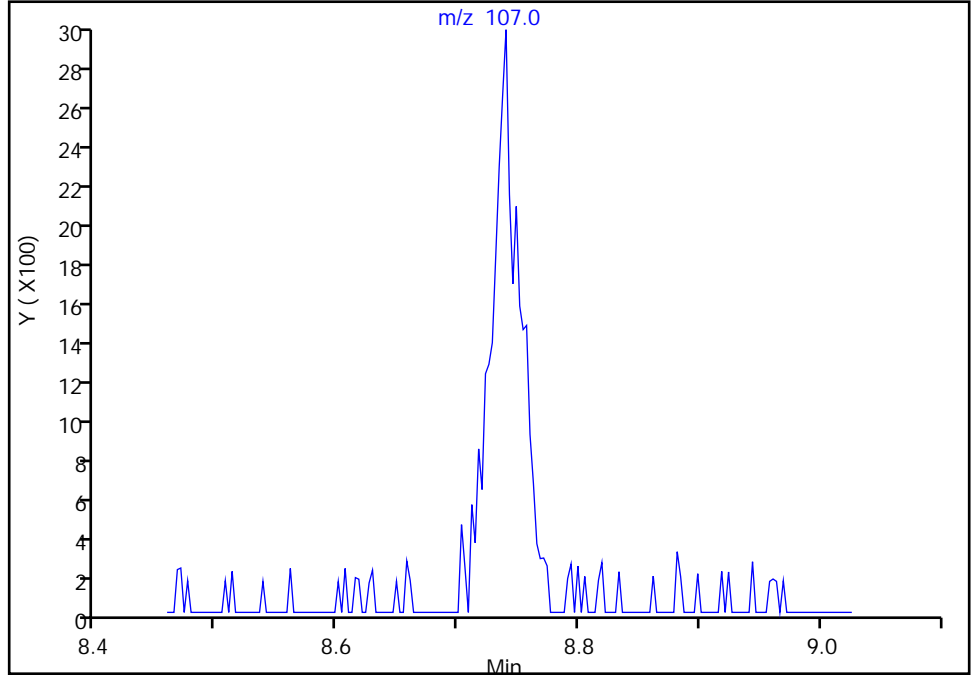
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

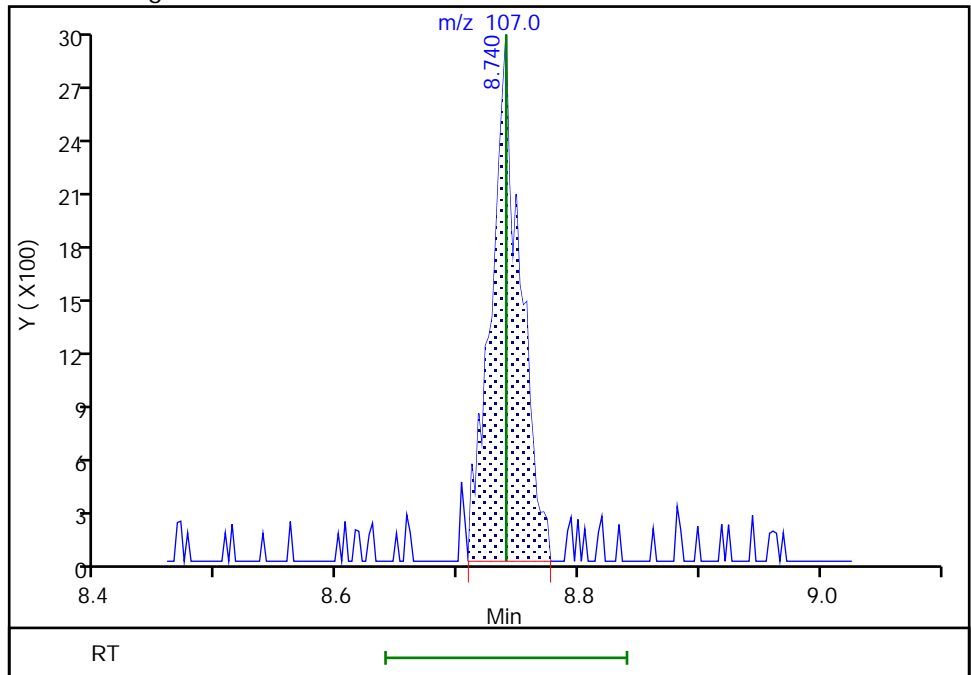
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 4925
Amount: 1.991865
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:01:53
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

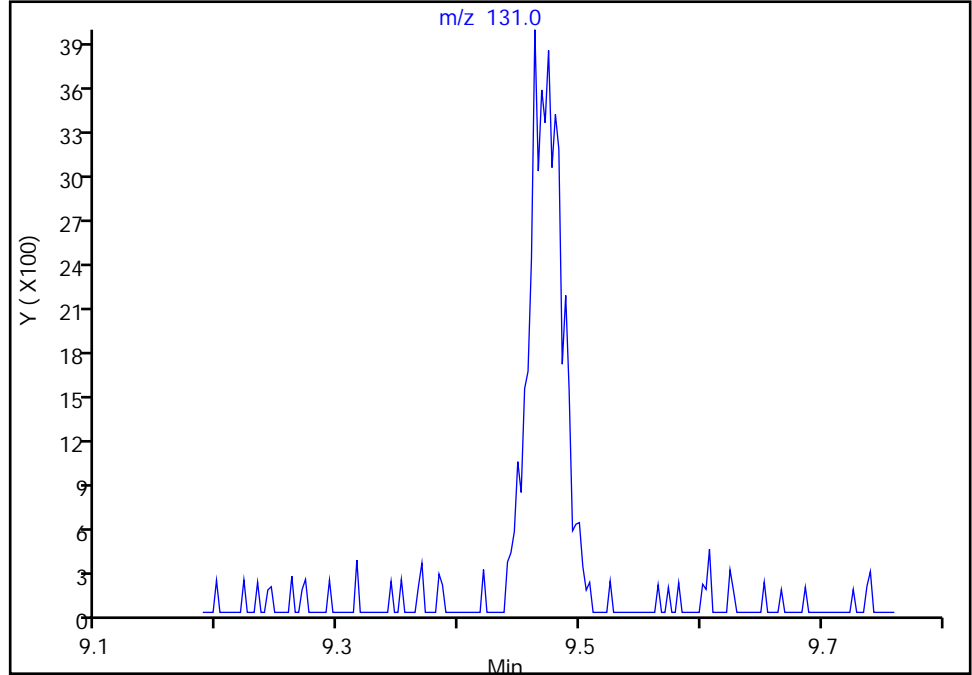
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

85 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

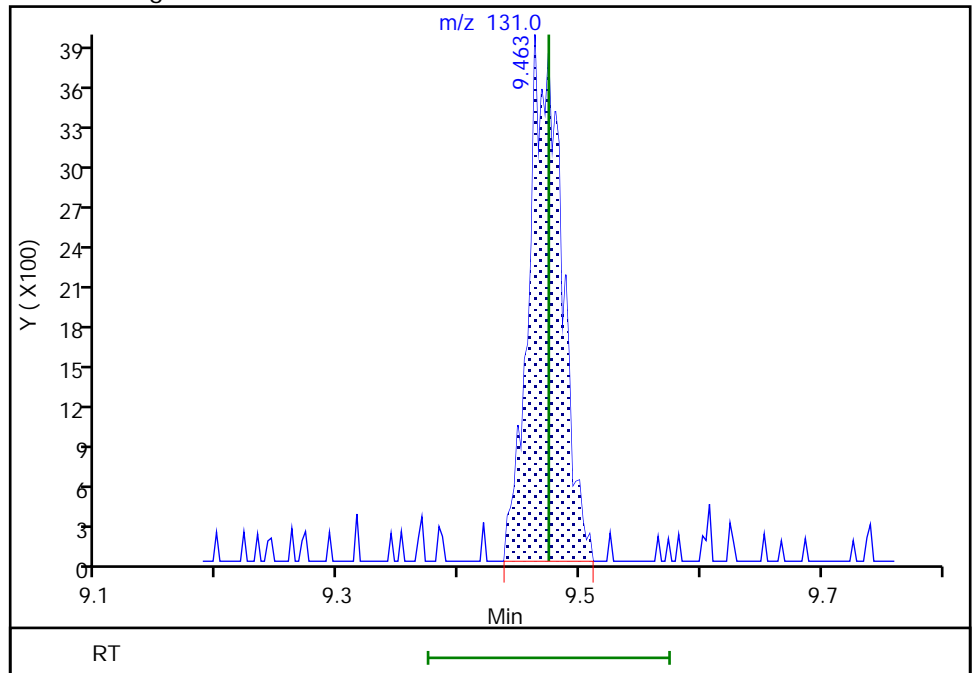
Not Detected
Expected RT: 9.47

Processing Integration Results



Manual Integration Results

RT: 9.46
Area: 7505
Amount: 2.031863
Amount Units: UG/L



Eurofins Chicago

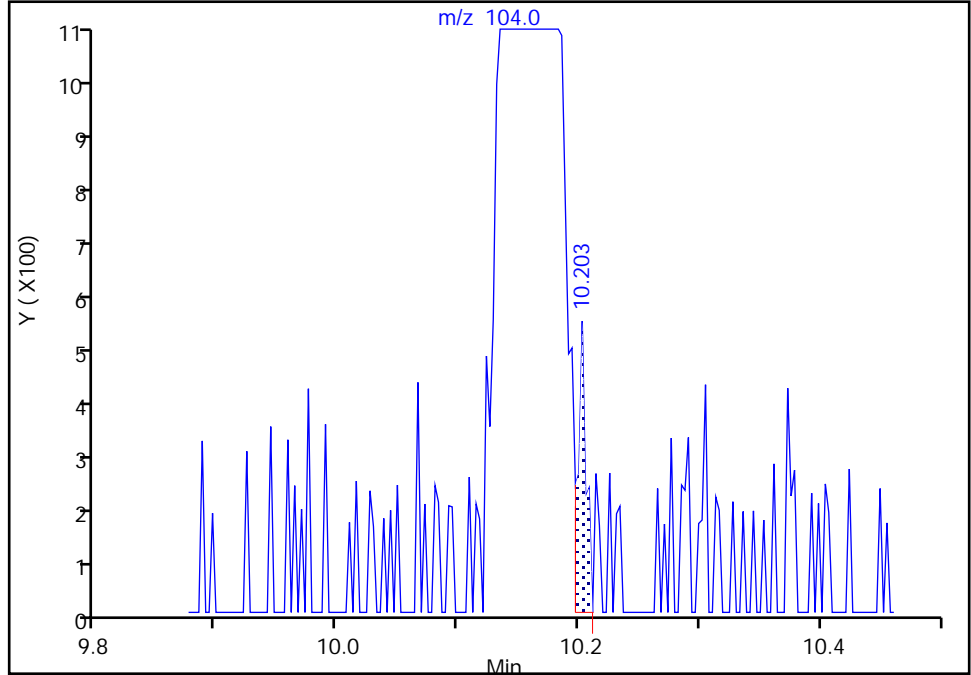
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

89 Styrene, CAS: 100-42-5

Signal: 1

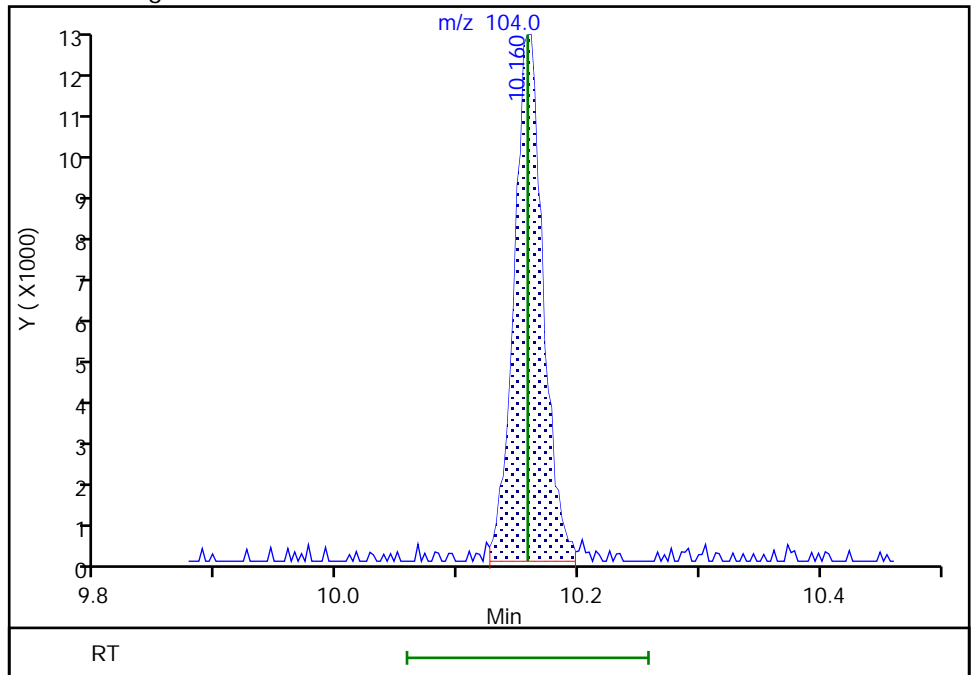
RT: 10.20
Area: 237
Amount: 1.754434
Amount Units: UG/L

Processing Integration Results



RT: 10.16
Area: 20779
Amount: 1.850092
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:35:10
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

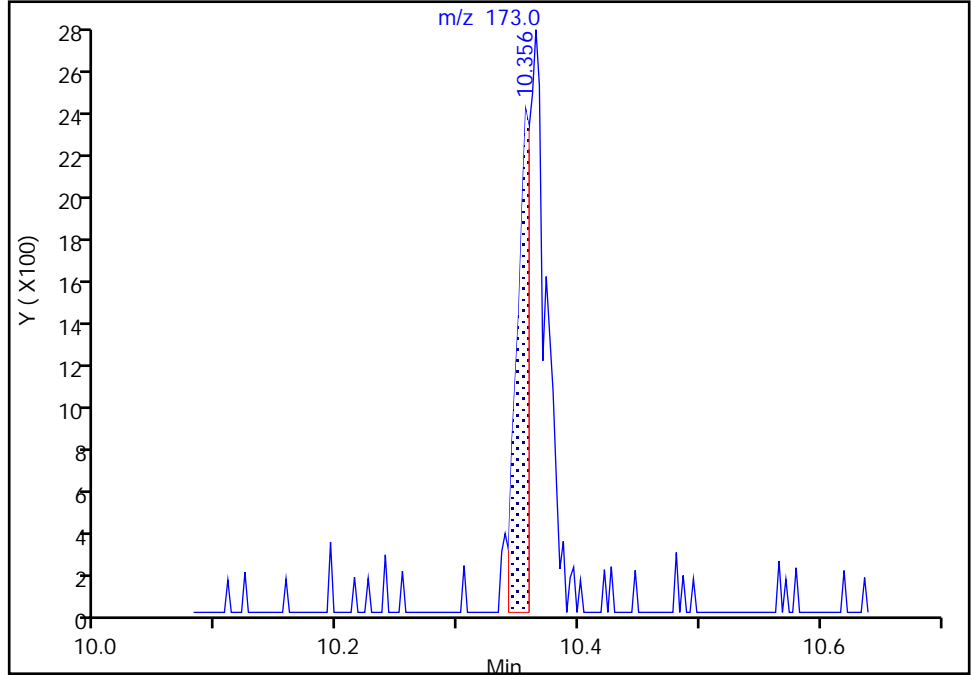
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

90 Bromoform, CAS: 75-25-2

Signal: 1

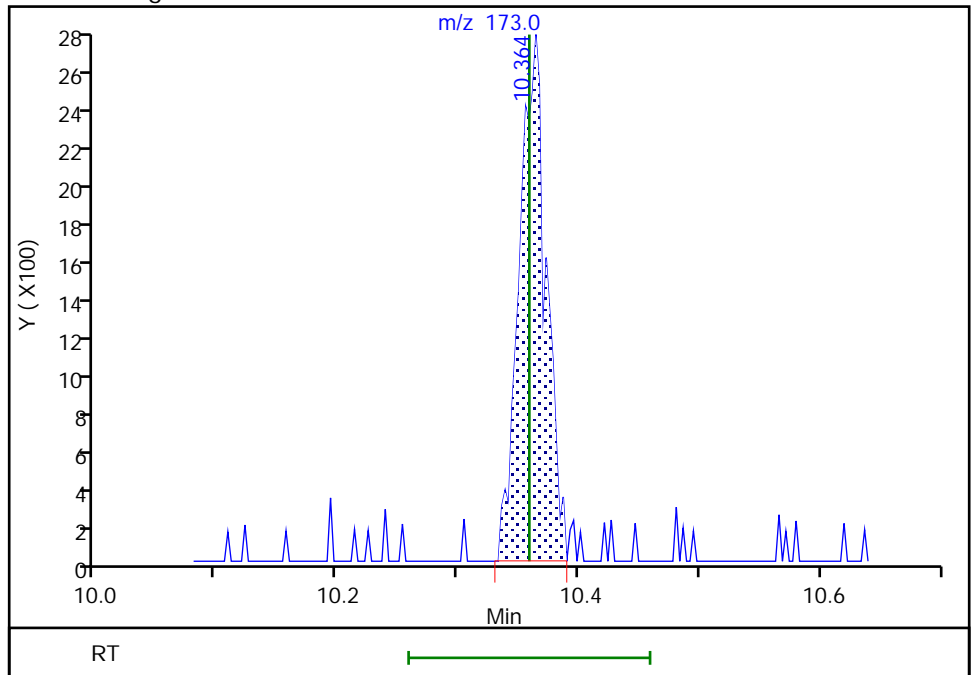
RT: 10.36
Area: 1739
Amount: 1.760260
Amount Units: UG/L

Processing Integration Results



RT: 10.36
Area: 4212
Amount: 2.085032
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:02:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D

Injection Date: 18-Jan-2022 11:58:30

Instrument ID: CMS16

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260s16_test

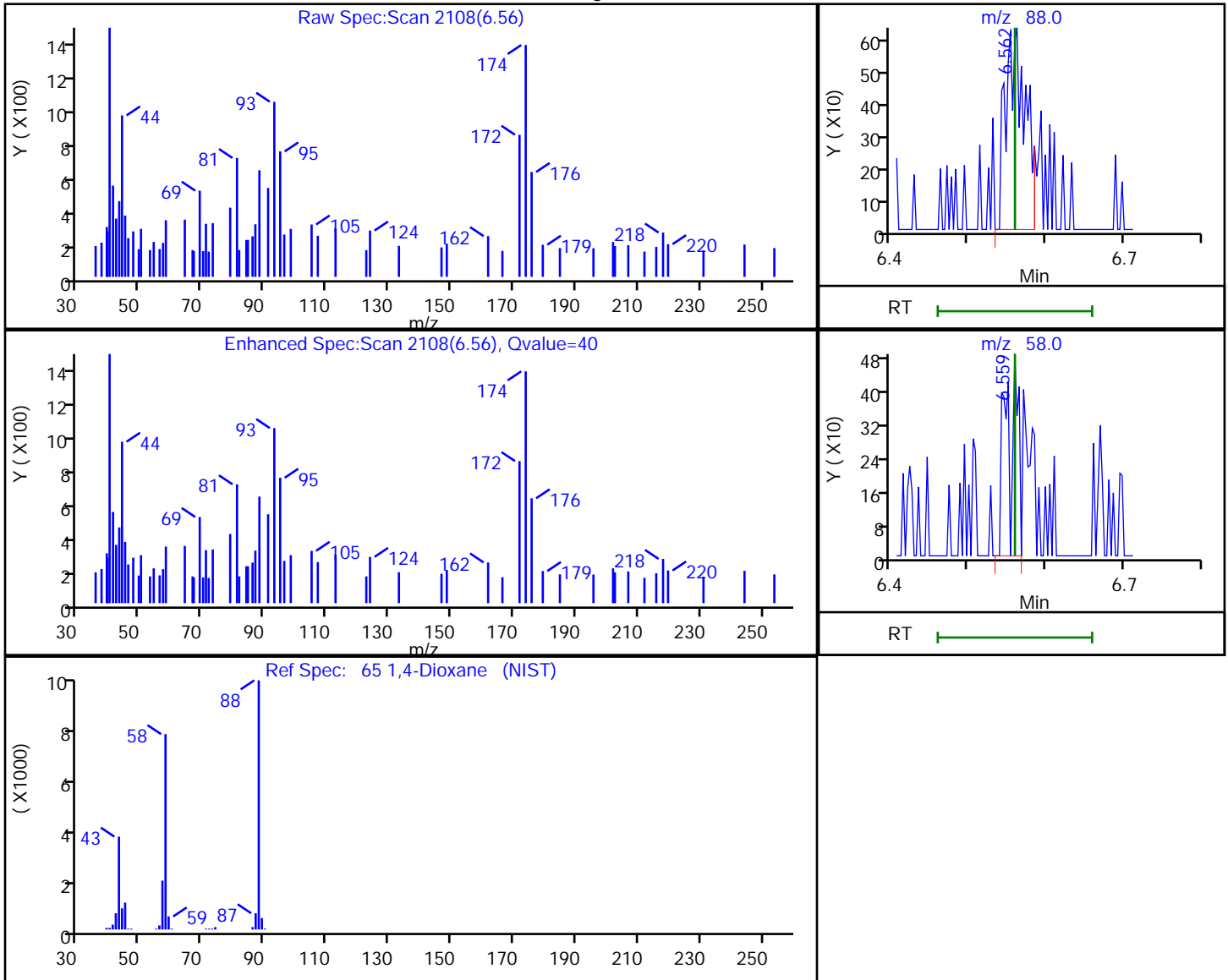
Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.56	88.00	1134	44.897852
6.56	58.00	506	

Reviewer: ficarello, 18-Jan-2022 15:01:10

Audit Action: Marked Compound Undetected

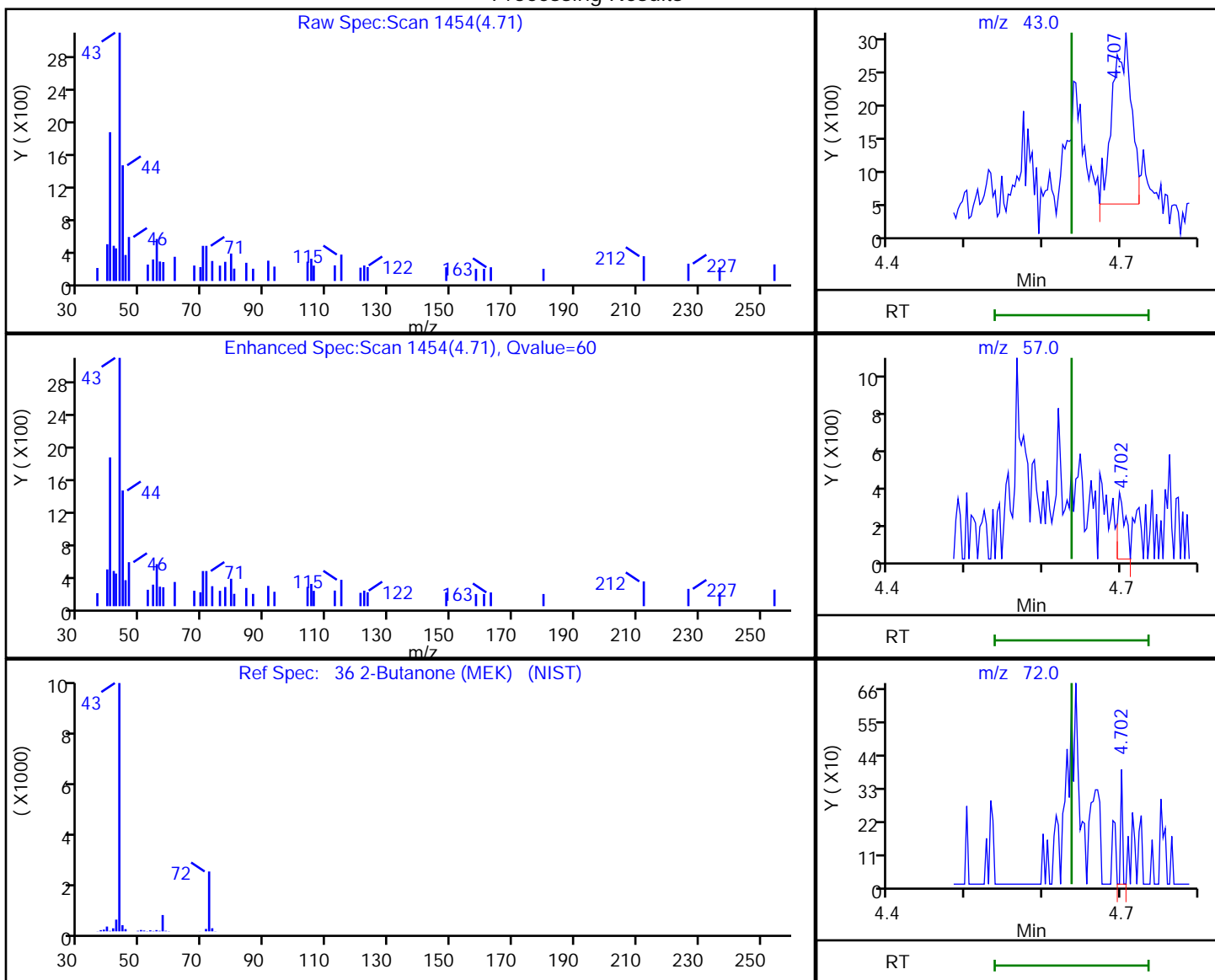
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
 Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
 Lims ID: STD1
 Client ID:
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.71	43.00	4357	2.697445
4.70	57.00	248	
4.70	72.00	66	

Reviewer: ficarellp, 18-Jan-2022 14:57:11

Audit Action: Marked Compound Undetected

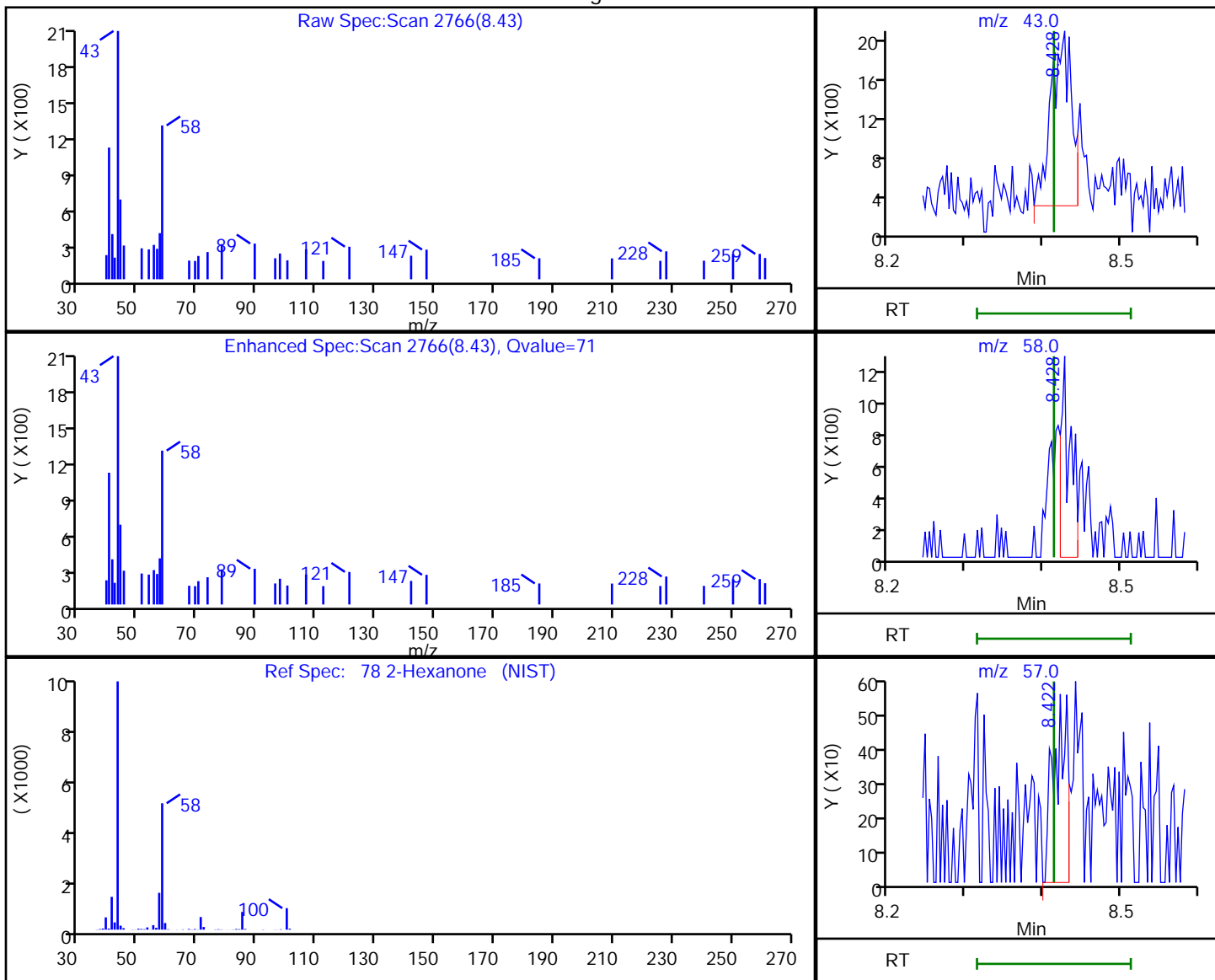
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
 Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
 Lims ID: STD1
 Client ID:
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

78 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.43	43.00	3250	1.937119
8.43	58.00	1063	
8.42	57.00	666	

Reviewer: ficarellp, 18-Jan-2022 15:01:47

Audit Action: Marked Compound Undetected

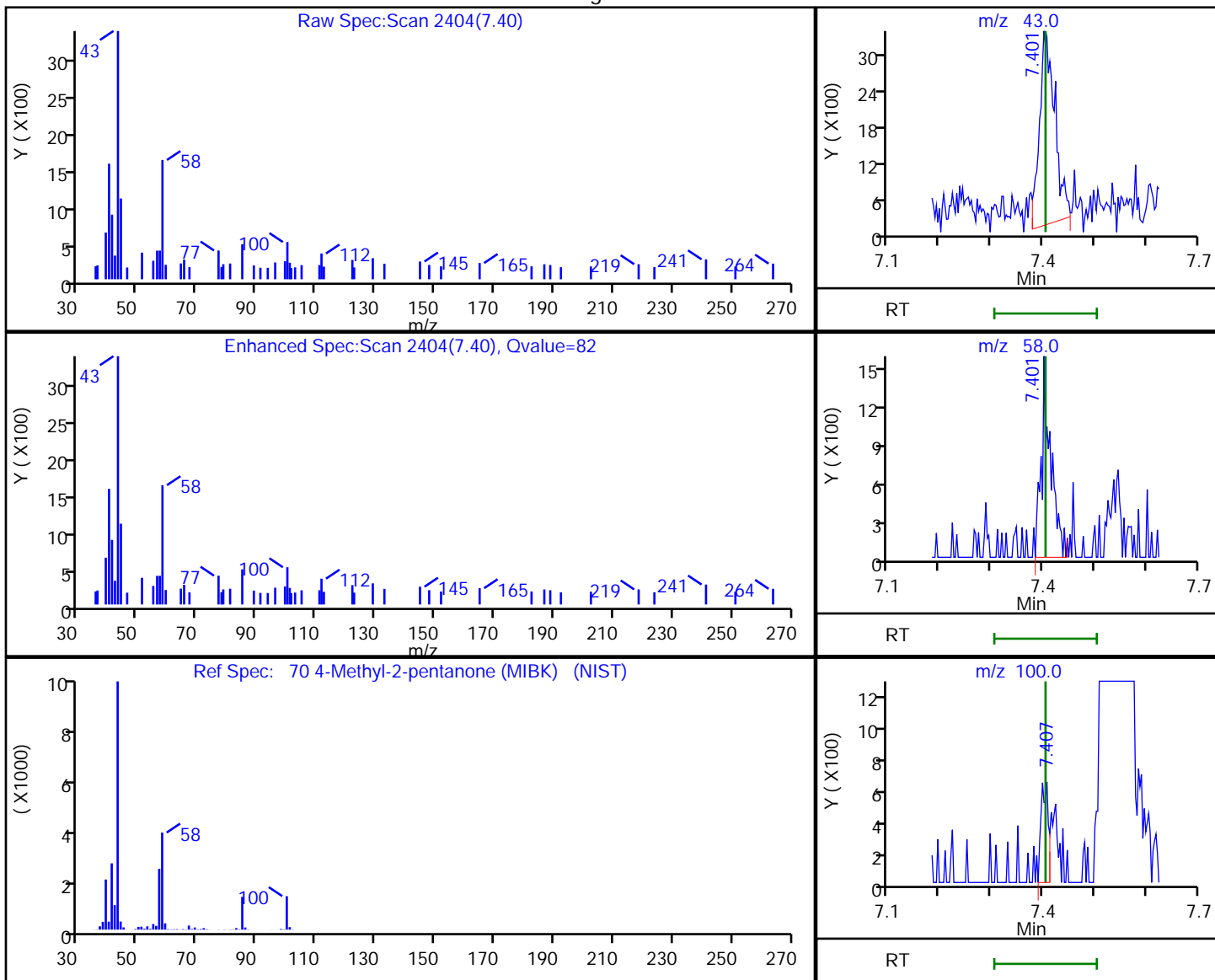
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
 Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
 Lims ID: STD1
 Client ID:
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.40	43.00	6607	2.531999
7.40	58.00	2010	
7.41	100.00	609	

Reviewer: ficarellp, 18-Jan-2022 15:03:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D

Injection Date: 18-Jan-2022 11:58:30

Instrument ID: CMS16

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260s16_test

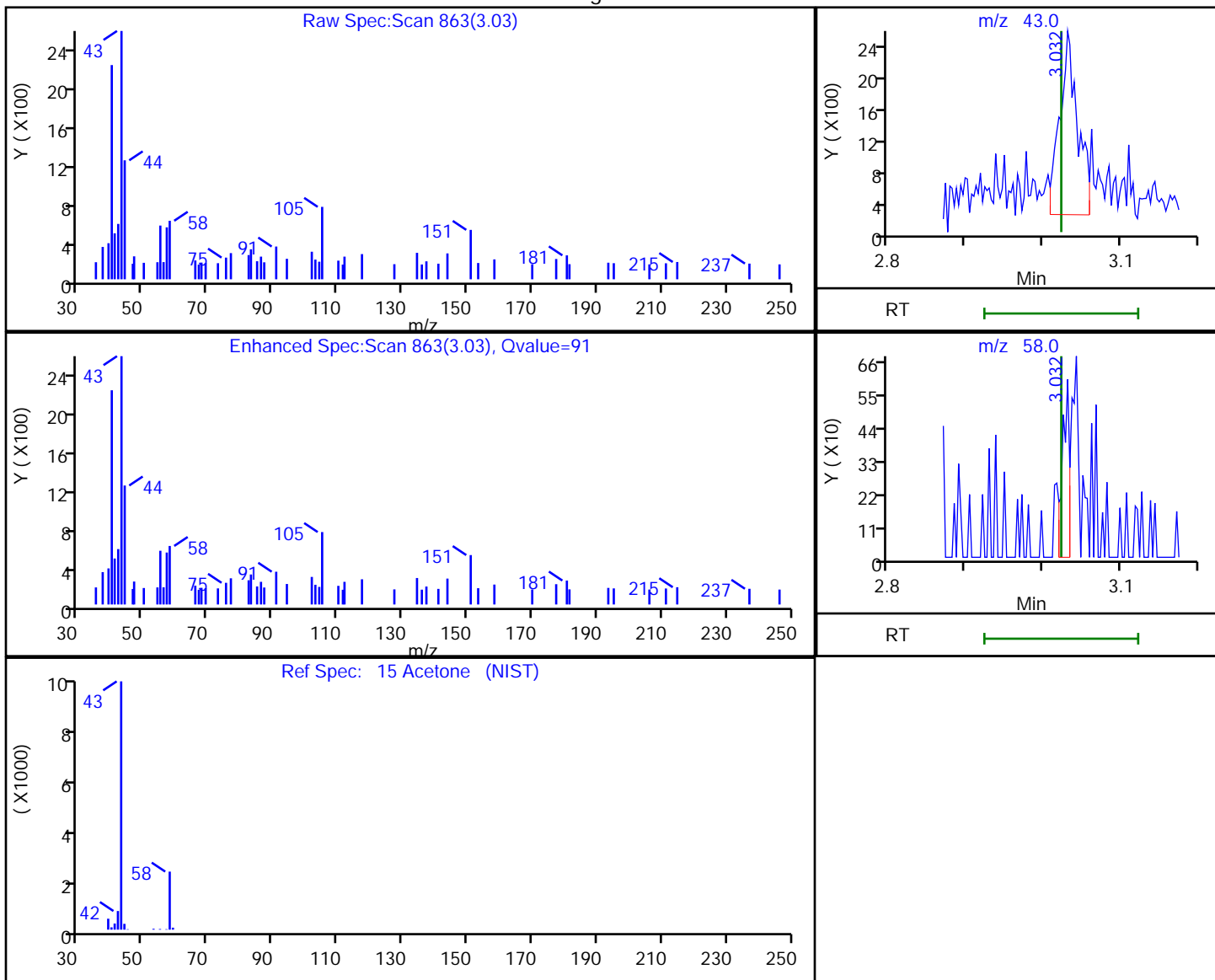
Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.03	43.00	3757	2.209734
3.03	58.00	366	

Reviewer: ficarello, 18-Jan-2022 14:54:35

Audit Action: Marked Compound Undetected

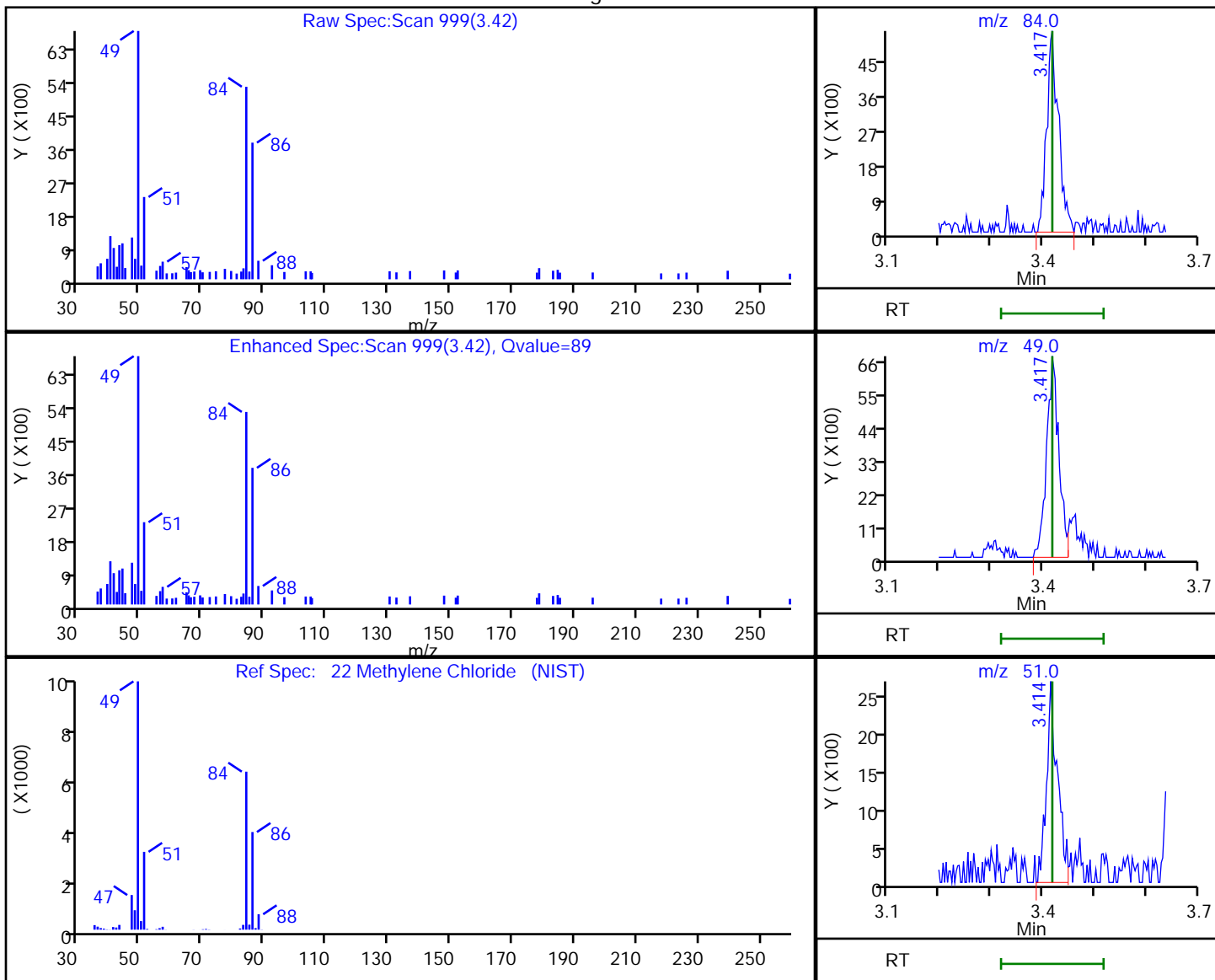
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118a.D
 Injection Date: 18-Jan-2022 11:58:30 Instrument ID: CMS16
 Lims ID: STD1
 Client ID:
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.42	84.00	8388	2.266290
3.42	49.00	11177	
3.41	51.00	3968	

Reviewer: ficarellp, 18-Jan-2022 15:03:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Jan-2022 12:24:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD2
 Misc. Info.: 500-0083302-004
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:42:51 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarellop

Date: 18-Jan-2022 15:07:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.529	1.523	0.006	94	21141	5.00	4.40	
2 Chloromethane	50	1.719	1.716	0.003	100	24550	5.00	4.85	
3 Vinyl chloride	62	1.835	1.832	0.003	98	24626	5.00	4.83	
4 Butadiene	39	1.855	1.849	0.006	97	26458	5.00	4.81	
5 Bromomethane	94	2.127	2.127	0.000	88	19594	5.00	5.42	
6 Chloroethane	64	2.224	2.232	-0.008	95	14909	5.00	4.85	
7 Dichlorofluoromethane	67	2.442	2.442	0.000	98	33737	5.00	4.80	M
8 Trichlorofluoromethane	101	2.470	2.476	-0.006	95	30411	5.00	4.83	a
11 Ethyl ether	59	2.765	2.757	0.008	92	13081	5.00	5.14	
12 Acrolein	56	2.881	2.879	0.002	97	70474	200.0	217.8	
13 1,1-Dichloroethene	96	2.964	2.964	0.000	97	17638	5.00	5.14	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.978	2.981	-0.003	94	20616	5.00	5.20	a
15 Acetone	43	3.032	3.023	0.009	77	4356	5.00	5.22	
16 Iodomethane	142	3.105	3.105	0.000	98	29195	5.00	5.14	
17 Carbon disulfide	76	3.168	3.168	0.000	98	60617	5.00	5.01	
20 3-Chloro-1-propene	76	3.301	3.304	-0.003	92	11392	5.00	5.47	Ma
21 Methyl acetate	43	3.329	3.327	0.002	96	18298	10.0	10.6	
22 Methylene Chloride	84	3.420	3.417	0.003	87	18697	5.00	5.19	
* 23 TBA-d9 (IS)	65	3.468	3.465	0.003	97	255012	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.551	3.531	0.020	89	16030	50.0	51.1	
25 Acrylonitrile	53	3.653	3.650	0.003	97	48497	50.0	53.1	
26 trans-1,2-Dichloroethene	96	3.673	3.675	-0.002	88	19355	5.00	5.23	
27 Methyl tert-butyl ether	73	3.675	3.675	0.000	89	46562	5.00	5.25	a
28 Hexane	57	3.936	3.928	0.008	87	29829	5.00	5.32	a
29 1,1-Dichloroethane	63	4.075	4.070	0.005	96	30258	5.00	4.96	
30 Vinyl acetate	43	4.118	4.118	0.000	98	24968	5.00	4.72	a
35 cis-1,2-Dichloroethene	96	4.631	4.625	0.006	95	19694	5.00	5.24	
34 2,2-Dichloropropane	41	4.628	4.628	0.000	70	15192	5.00	5.46	
36 2-Butanone (MEK)	43	4.645	4.637	0.008	64	4270	5.00	4.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.866	4.861	0.005	86	8359	5.00	5.08	
41 Tetrahydrofuran	42	4.917	4.909	0.008	86	11073	10.0	12.3	a
42 Chloroform	83	4.940	4.940	0.000	93	28161	5.00	4.99	
44 1,1,1-Trichloroethane	97	5.124	5.127	-0.003	90	27687	5.00	5.14	
45 Cyclohexane	56	5.187	5.184	0.003	91	37627	5.00	5.26	
47 1,1-Dichloropropene	75	5.292	5.292	0.000	90	23595	5.00	5.20	
46 Carbon tetrachloride	117	5.292	5.292	0.000	87	25380	5.00	5.09	
49 Isobutyl alcohol	43	5.397	5.391	0.006	92	15244	125.0	118.3	
50 Benzene	78	5.504	5.502	0.002	96	69250	5.00	5.09	
51 1,2-Dichloroethane	62	5.524	5.521	0.003	91	19438	5.00	5.07	
54 n-Heptane	43	5.765	5.765	0.000	53	29682	5.00	5.11	a
* 55 Fluorobenzene (IS)	96	5.788	5.788	0.000	99	660404	53.4	53.4	
57 Trichloroethene	130	6.179	6.174	0.005	93	18150	5.00	5.25	a
59 Methylcyclohexane	83	6.378	6.383	-0.005	91	37368	5.00	5.22	
60 1,2-Dichloropropane	63	6.420	6.423	-0.003	91	16345	5.00	5.08	a
* 62 1,4-Dioxane-d8	96	6.505	6.500	0.005	79	17900	1068.6	1068.6	
63 Dibromomethane	93	6.551	6.551	0.000	83	7992	5.00	4.76	M
65 1,4-Dioxane	88	6.565	6.559	0.006	50	2922	100.0	120.4	a
66 Dichlorobromomethane	83	6.718	6.721	-0.003	86	21024	5.00	5.13	
68 2-Chloroethyl vinyl ether	63	7.064	7.058	0.006	75	4959	5.00	4.97	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	88	25420	5.00	5.23	
70 4-Methyl-2-pentanone (MIBK)	43	7.410	7.404	0.006	90	14597	5.00	5.65	a
72 Toluene	92	7.623	7.623	0.000	93	42965	5.00	5.17	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	86	22193	5.00	5.14	
74 Ethyl methacrylate	69	7.994	7.991	0.003	89	17898	5.00	5.33	M
75 1,1,2-Trichloroethane	97	8.107	8.107	0.000	88	11918	5.00	5.14	
76 Tetrachloroethene	166	8.280	8.283	-0.003	90	17804	5.00	5.13	
77 1,3-Dichloropropane	76	8.309	8.314	-0.005	90	21222	5.00	5.28	
78 2-Hexanone	43	8.419	8.414	0.005	93	8286	5.00	4.82	
80 Chlorodibromomethane	129	8.592	8.589	0.003	86	14890	5.00	5.18	
81 Ethylene Dibromide	107	8.740	8.740	0.000	87	12772	5.00	5.51	
* 82 Chlorobenzene-d5	117	9.327	9.327	0.000	84	476046	53.4	53.4	
84 Chlorobenzene	112	9.364	9.366	-0.002	93	44185	5.00	4.98	a
85 1,1,1,2-Tetrachloroethane	131	9.474	9.474	0.000	84	17856	5.00	5.16	
86 Ethylbenzene	106	9.511	9.511	0.000	98	24607	5.00	4.90	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	98	62459	5.00	5.09	
88 o-Xylene	91	10.141	10.141	0.000	93	64369	5.00	4.93	
89 Styrene	104	10.160	10.158	0.002	93	50343	5.00	4.78	
90 Bromoform	173	10.365	10.359	0.006	91	9672	5.00	5.11	
91 Isopropylbenzene	105	10.555	10.557	-0.002	97	83661	5.00	5.09	
95 Bromobenzene	156	10.872	10.869	0.003	94	19126	5.00	5.00	
96 1,1,2,2-Tetrachloroethane	83	10.872	10.875	-0.003	81	18063	5.00	5.69	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	87	4675	5.00	5.03	
98 trans-1,4-Dichloro-2-butene	53	10.934	10.935	0.000	84	5129	5.00	5.31	M
99 N-Propylbenzene	91	10.986	10.986	0.000	97	99633	5.00	5.15	
100 2-Chlorotoluene	91	11.068	11.068	0.000	96	55728	5.00	5.01	
101 1,3,5-Trimethylbenzene	105	11.161	11.161	0.000	93	69826	5.00	4.85	
102 4-Chlorotoluene	91	11.178	11.176	0.002	92	67033	5.00	5.06	
104 tert-Butylbenzene	119	11.476	11.473	0.003	92	63940	5.00	4.90	
106 1,2,4-Trimethylbenzene	105	11.521	11.519	0.002	94	69832	5.00	4.78	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	98939	5.00	5.01	
108 1,3-Dichlorobenzene	146	11.777	11.777	0.000	96	42158	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
109 4-Isopropyltoluene	119	11.811	11.811	0.000	97	82503	5.00	4.81	
* 110 1,4-Dichlorobenzene-d4	152	11.833	11.836	-0.003	95	286628	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.856	11.859	-0.003	85	41901	5.00	4.92	
114 n-Butylbenzene	91	12.174	12.168	0.006	96	78647	5.00	4.95	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	93	38302	5.00	4.79	
116 1,2-Dibromo-3-Chloropropane	75	12.831	12.829	0.002	39	3369	5.00	6.04	
118 1,2,4-Trichlorobenzene	180	13.469	13.470	-0.001	91	24774	5.00	4.96	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	87	16423	5.00	5.34	
120 Naphthalene	128	13.657	13.657	0.000	98	48798	5.00	5.13	
121 1,2,3-Trichlorobenzene	180	13.838	13.835	0.003	91	20421	5.00	5.18	
S 124 Xylenes, Total	100				0			10.0	
S 125 1,2-Dichloroethene, Total	96				0			10.5	
S 128 Trimethylbenzene, Total	1				0			9.64	
S 127 Trihalomethanes, Total	1				0			20.4	
S 126 1,3-Dichloropropene, Total	1				0			10.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LO8260/624STD_00509

Amount Added: 5.00

Units: uL

LOW8260ACR_00302

Amount Added: 5.00

Units: uL

INST16 IS_00032

Amount Added: 1.07

Units: uL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D

Injection Date: 18-Jan-2022 12:24:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD2

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

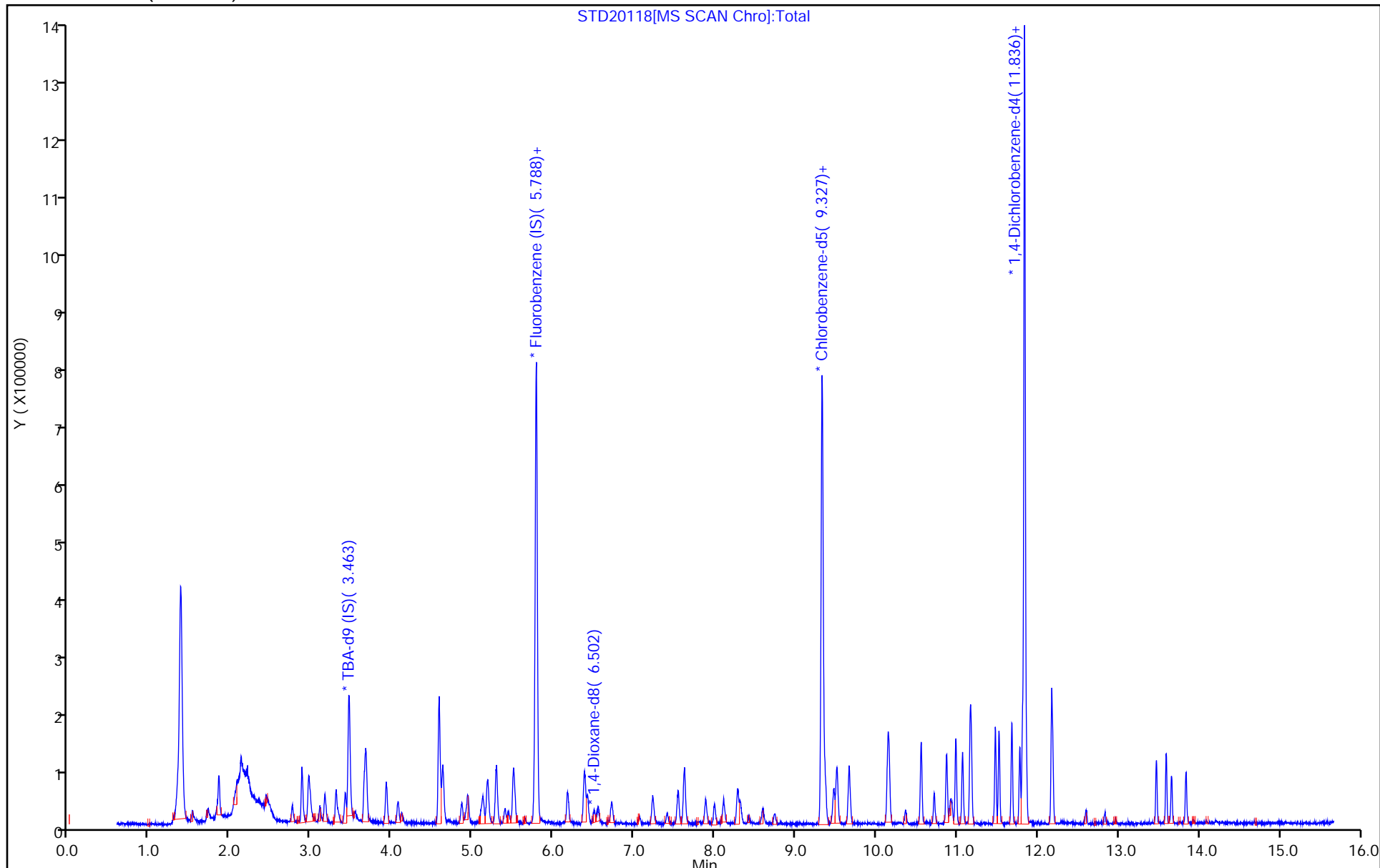
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

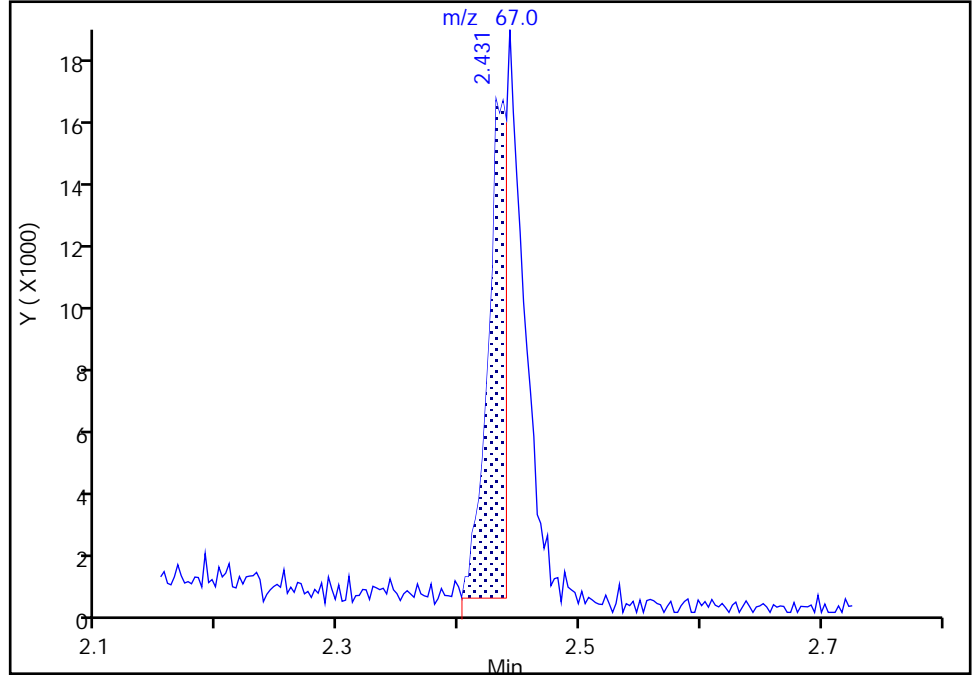
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Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

7 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

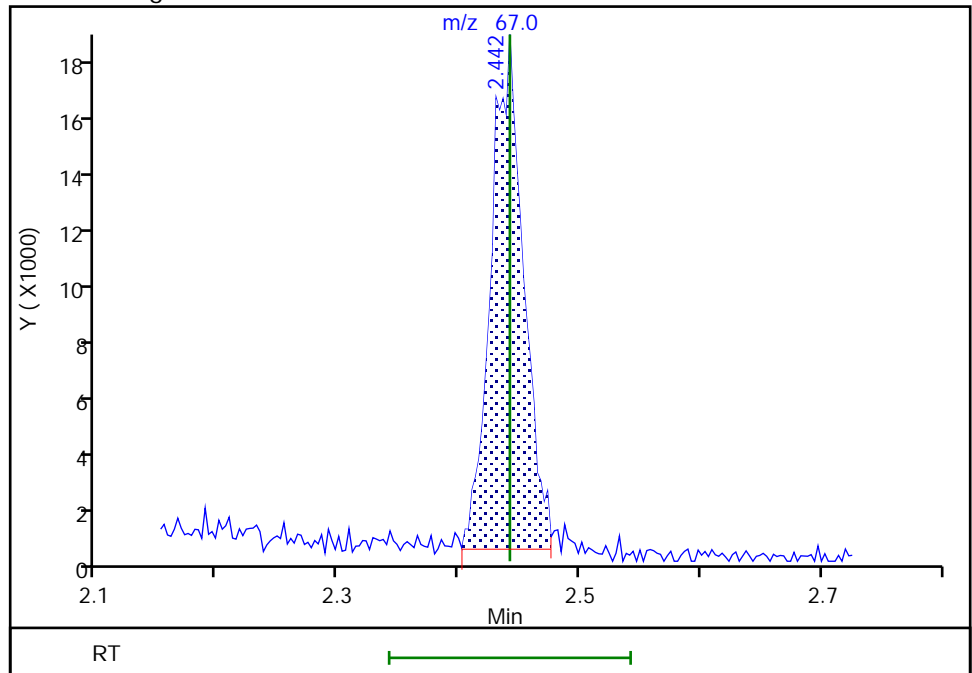
RT: 2.43
Area: 17144
Amount: 2.392575
Amount Units: UG/L

Processing Integration Results



RT: 2.44
Area: 33737
Amount: 4.798169
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:03:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

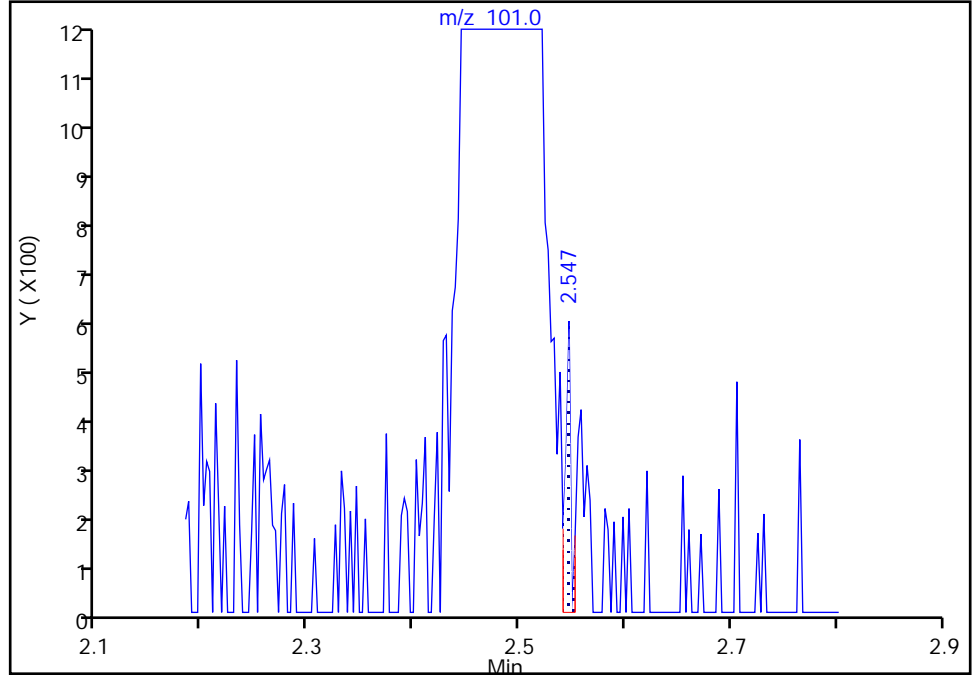
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

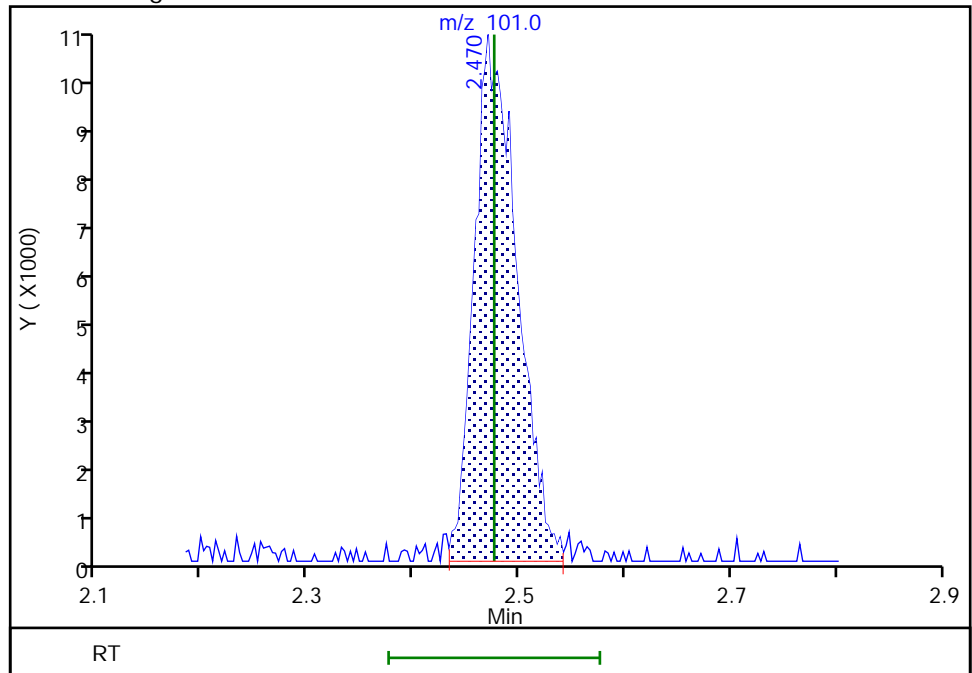
RT: 2.55
Area: 212
Amount: 0.039198
Amount Units: UG/L

Processing Integration Results



RT: 2.47
Area: 30411
Amount: 4.831494
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:03:50
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

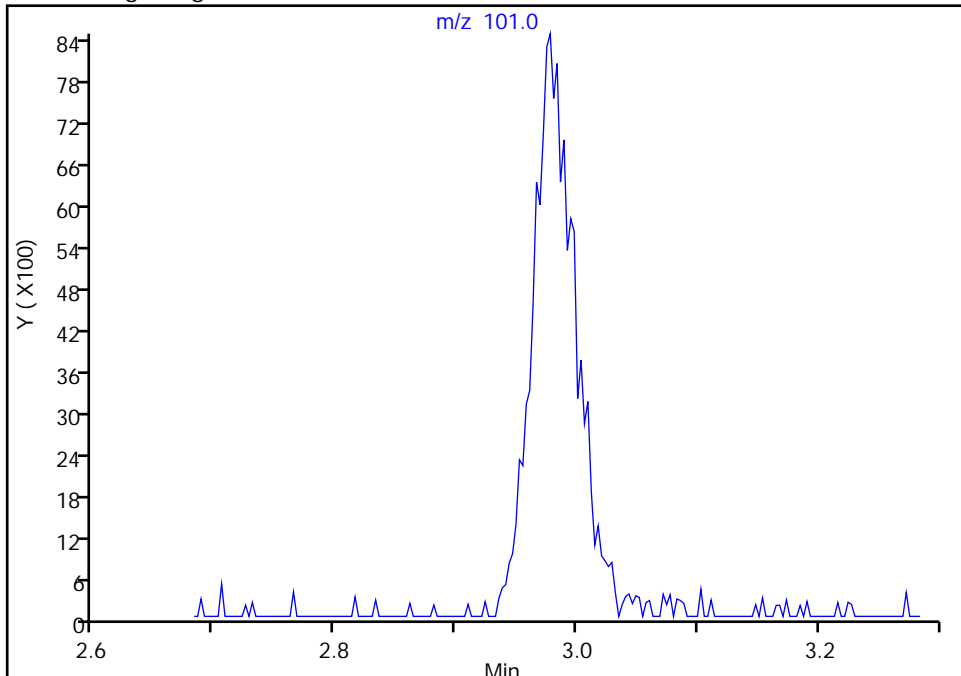
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Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

14 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

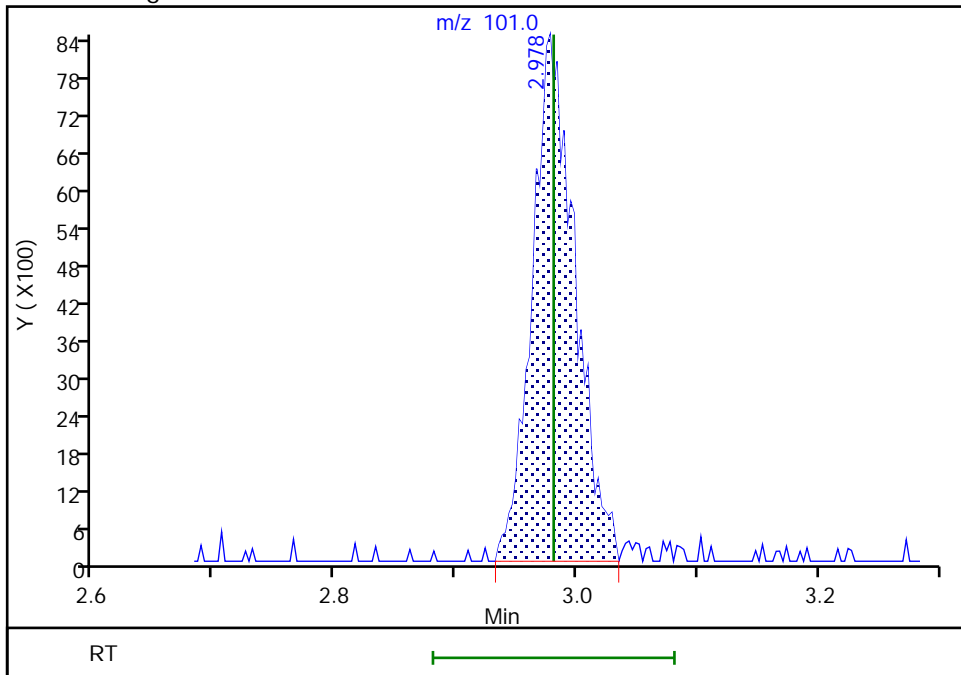
Not Detected
Expected RT: 2.98

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 20616
Amount: 5.201314
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:03:55
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D

Injection Date: 18-Jan-2022 12:24:30

Instrument ID: CMS16

Lims ID: STD2

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260s16_test

Limit Group:

MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector

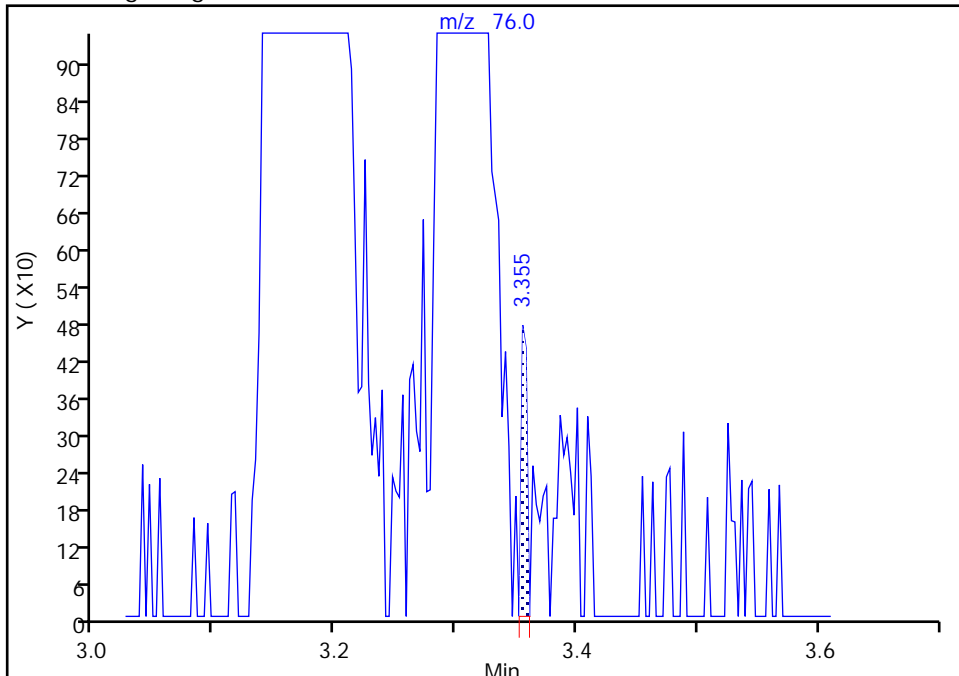
MS SCAN

20 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

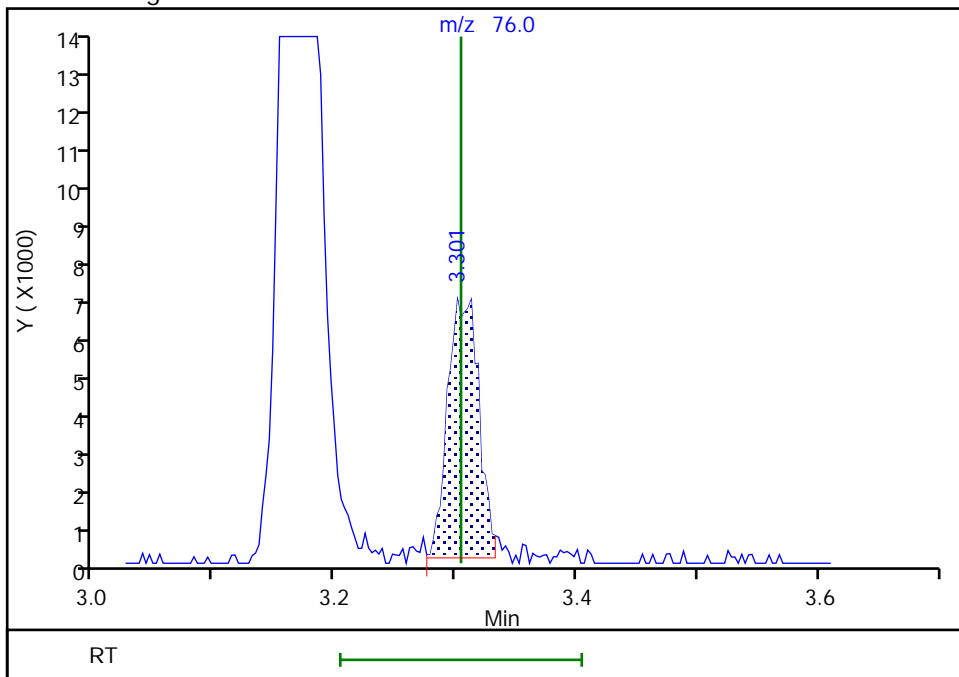
RT: 3.35
Area: 154
Amount: 0.088764
Amount Units: UG/L

Processing Integration Results



RT: 3.30
Area: 11392
Amount: 5.468108
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:04:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

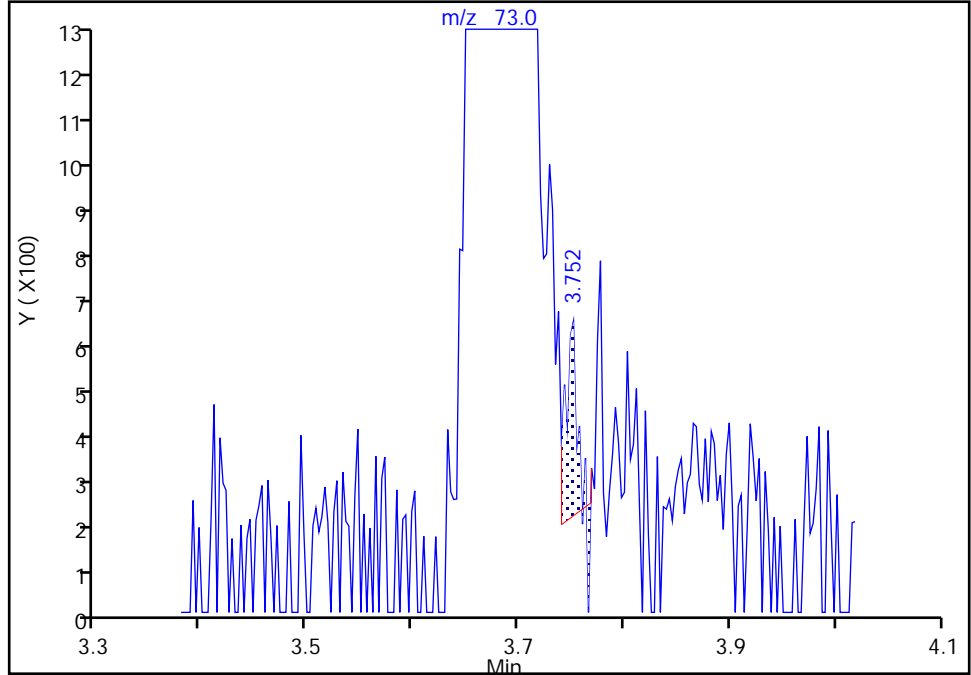
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

27 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

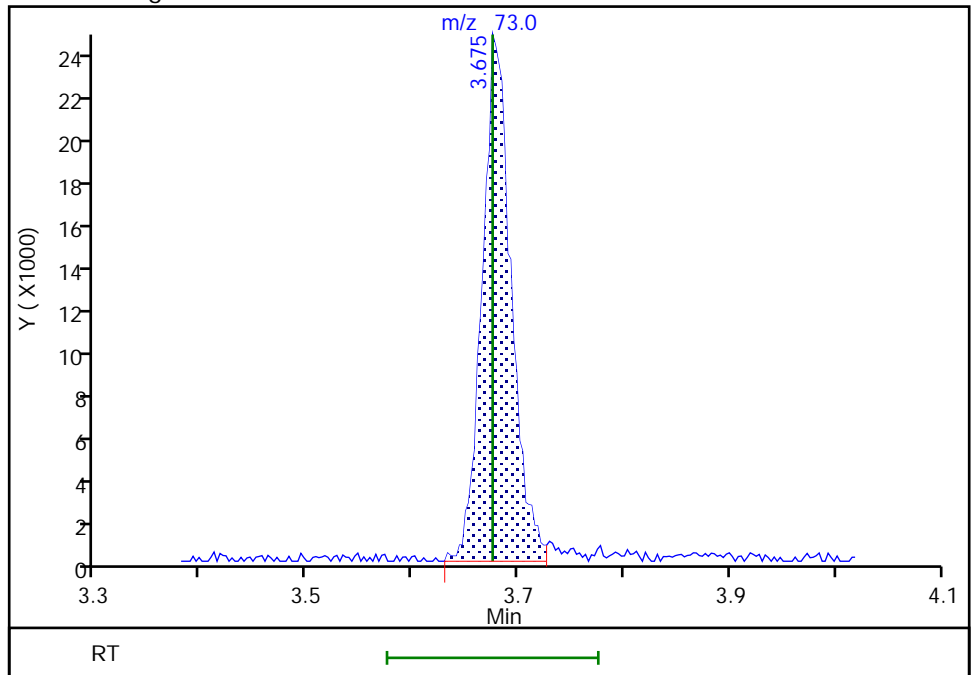
RT: 3.75
Area: 273
Amount: 0.036806
Amount Units: UG/L

Processing Integration Results



RT: 3.68
Area: 46562
Amount: 5.249310
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:04:35
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

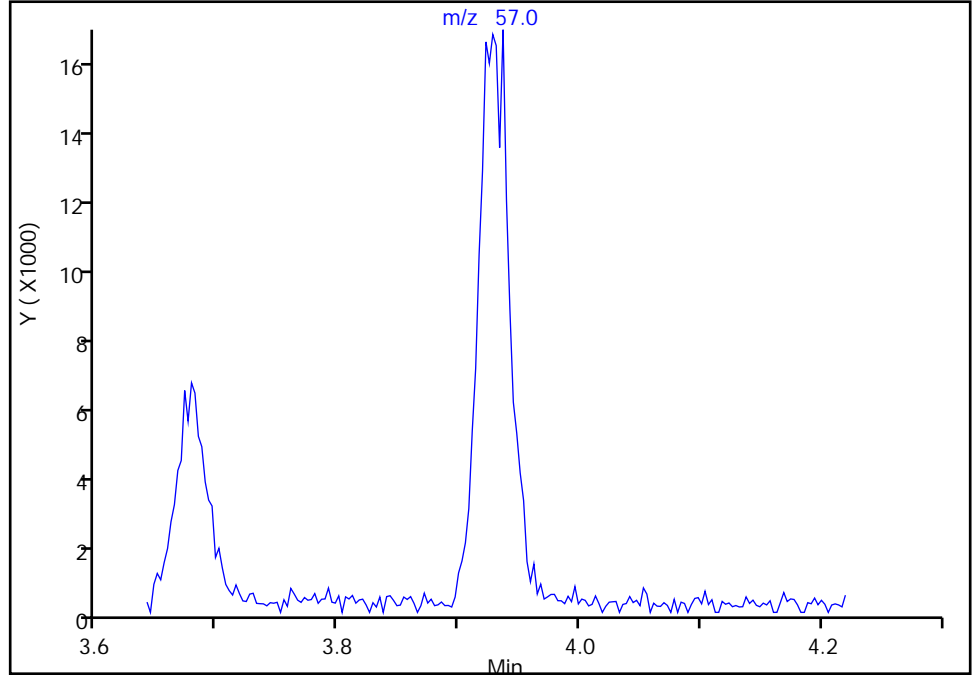
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

28 Hexane, CAS: 110-54-3

Signal: 1

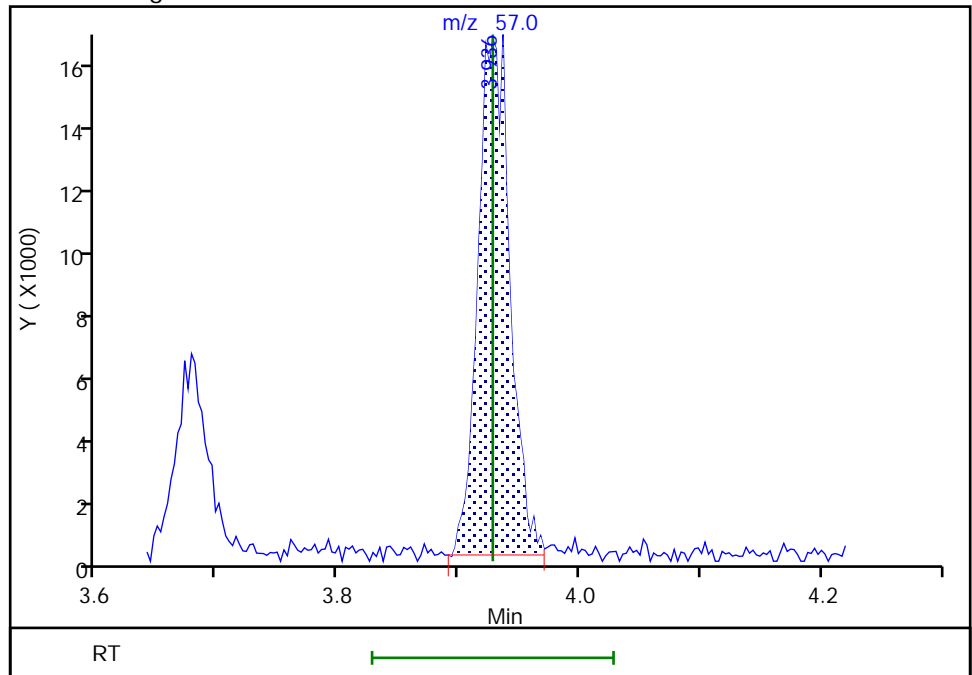
Not Detected
Expected RT: 3.93

Processing Integration Results



Manual Integration Results

RT: 3.94
Area: 29829
Amount: 5.320579
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:04:39
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

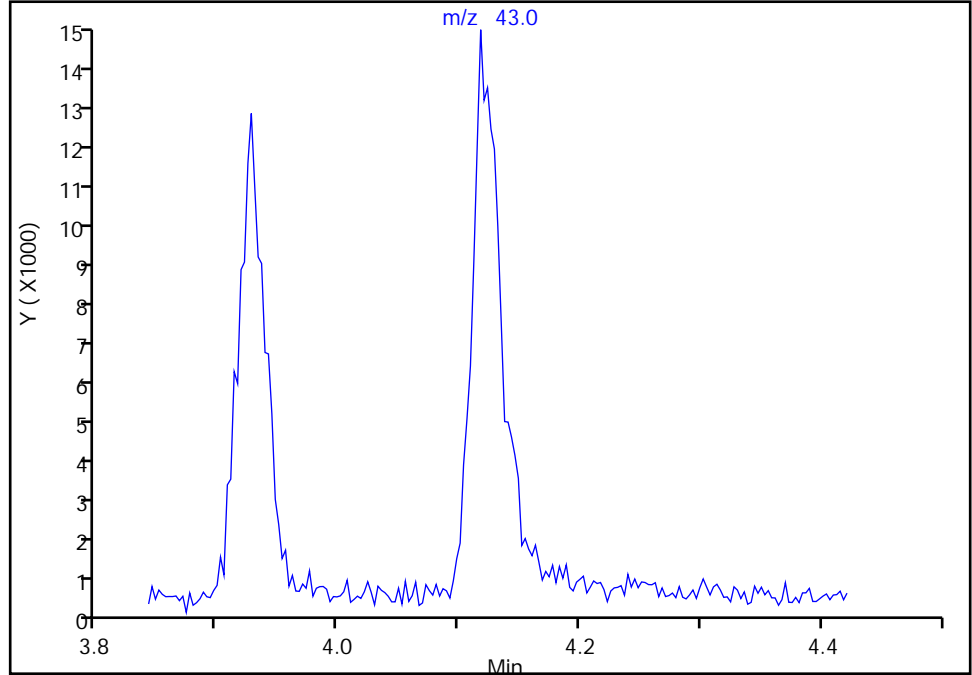
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

30 Vinyl acetate, CAS: 108-05-4

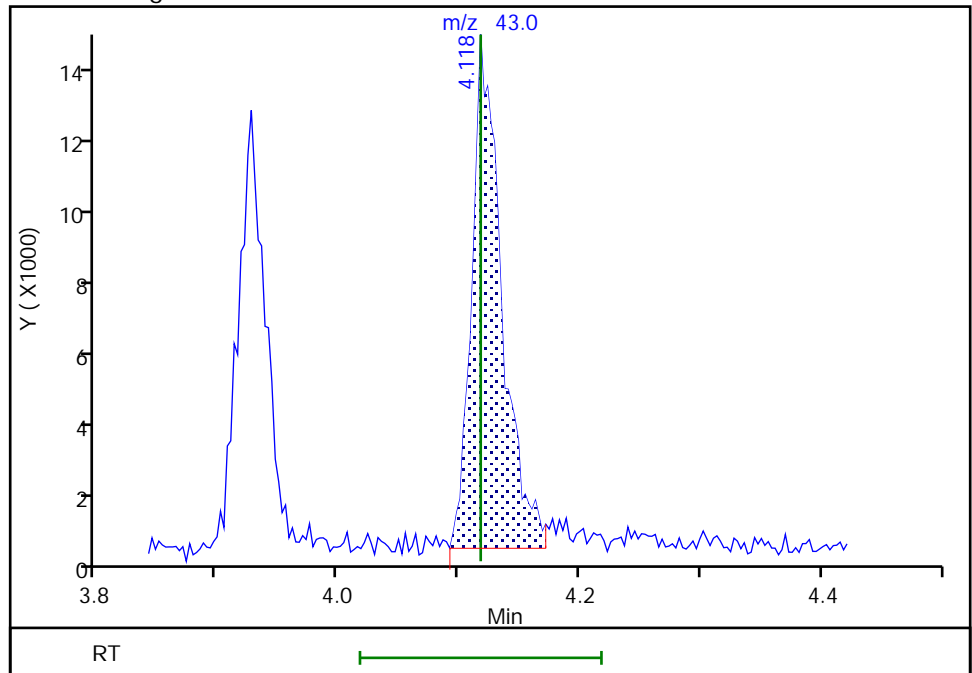
Signal: 1

Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results



RT: 4.12
Area: 24968
Amount: 4.716109
Amount Units: UG/L

Reviewer: ficarello, 18-Jan-2022 15:04:46
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

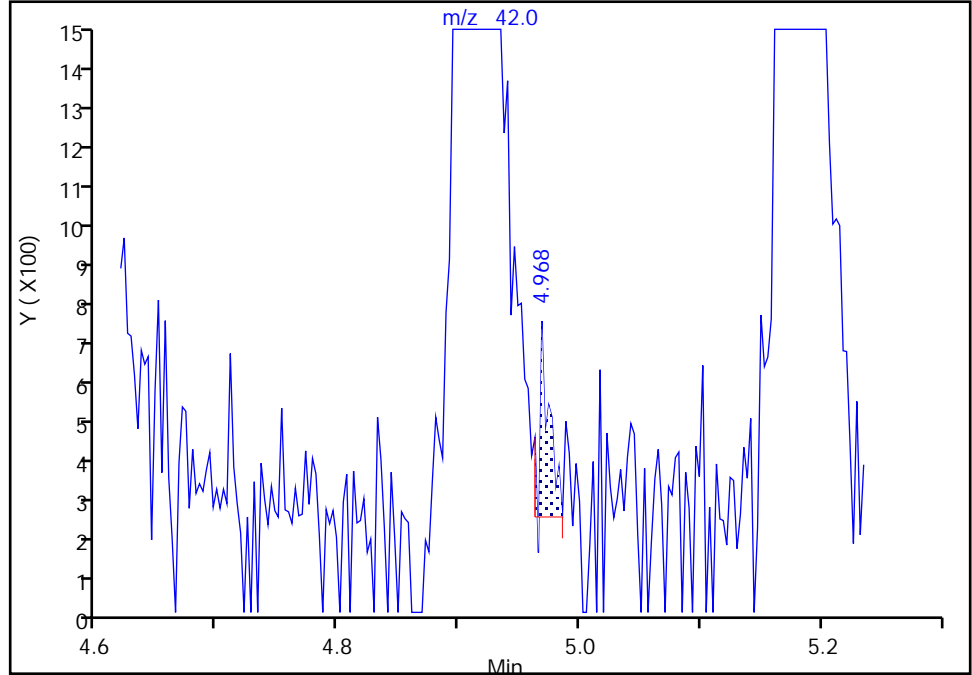
ALS Bottle#: 3 Worklist Smp#: 4
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

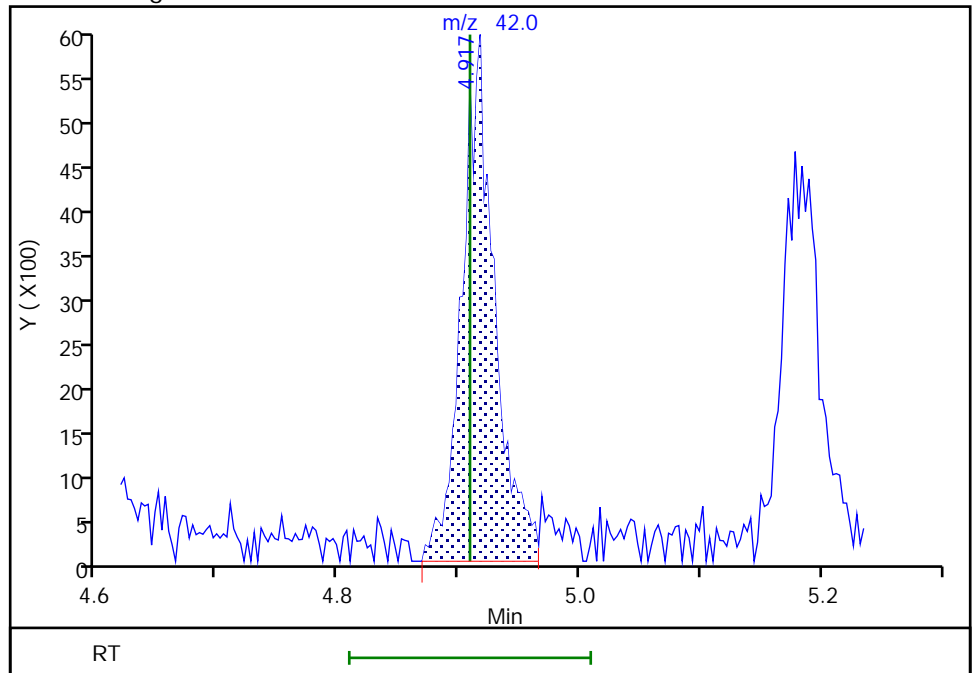
RT: 4.97
Area: 262
Amount: 0.419577
Amount Units: UG/L

Processing Integration Results



RT: 4.92
Area: 11073
Amount: 12.334380
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:04:56
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

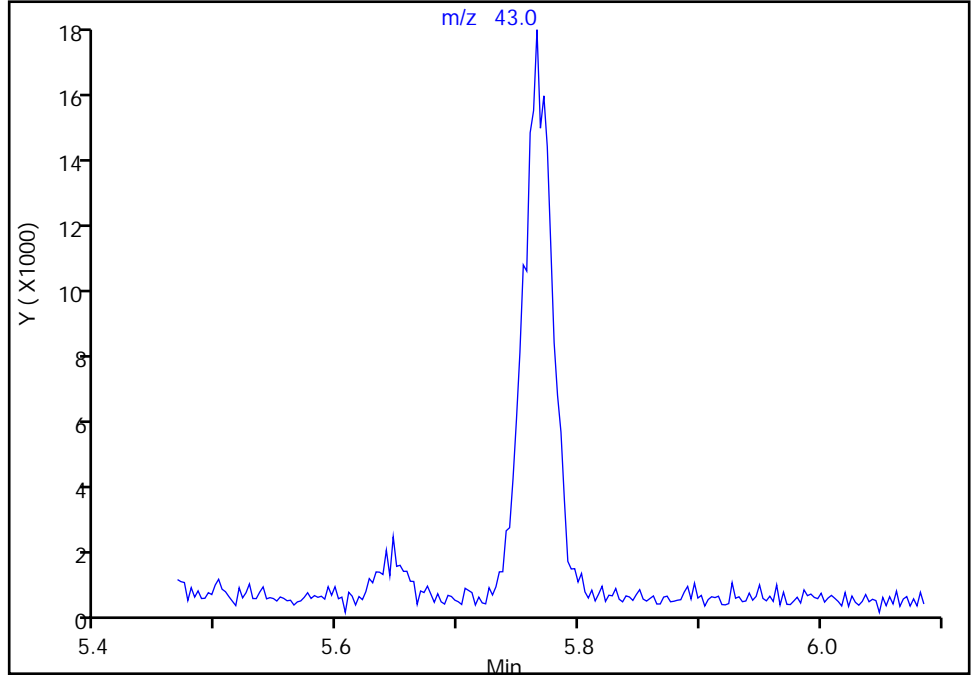
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

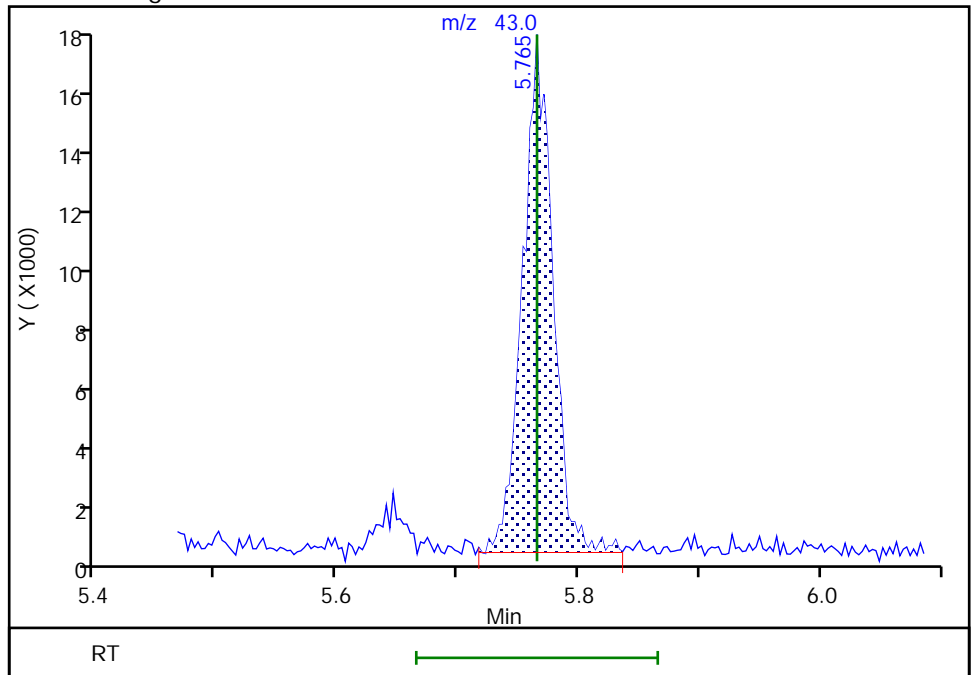
Not Detected
Expected RT: 5.77

Processing Integration Results



Manual Integration Results

RT: 5.77
Area: 29682
Amount: 5.113678
Amount Units: UG/L



Eurofins Chicago

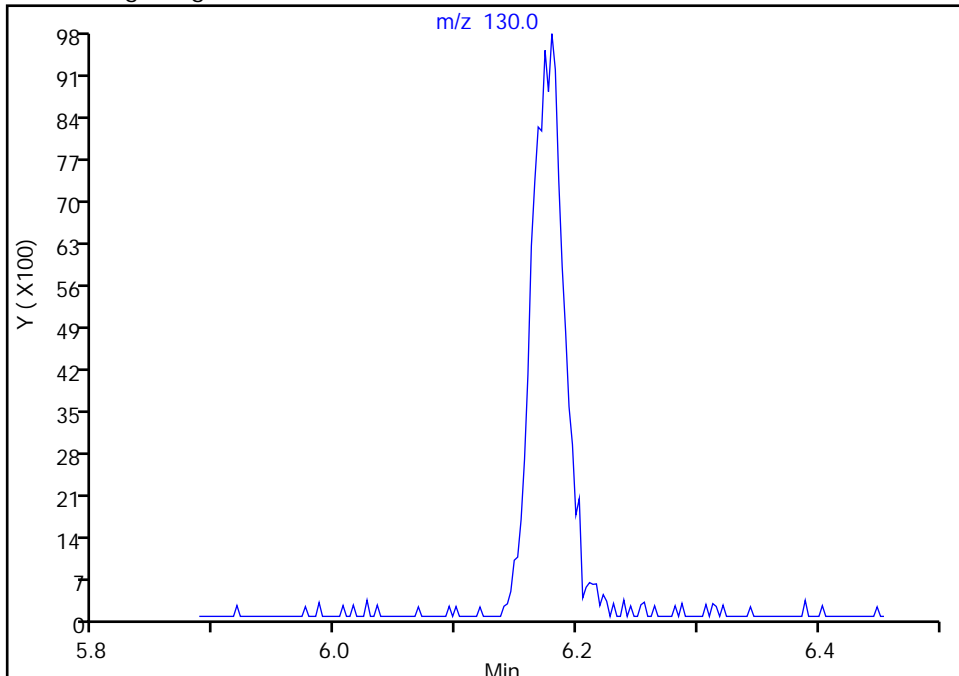
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

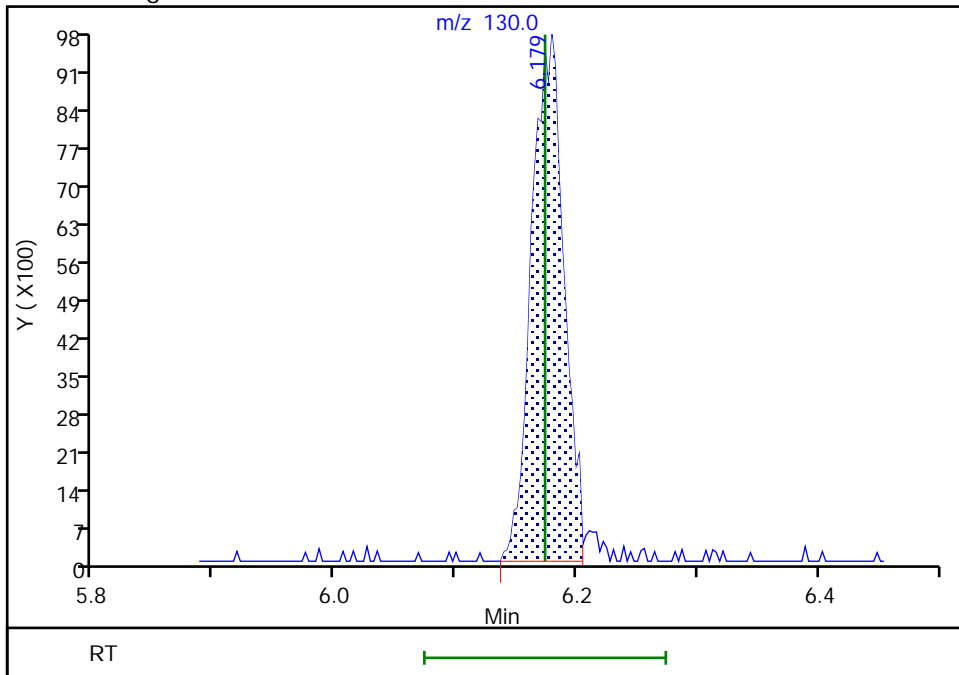
Not Detected
Expected RT: 6.17

Processing Integration Results



Manual Integration Results

RT: 6.18
Area: 18150
Amount: 5.254655
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:05:21
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

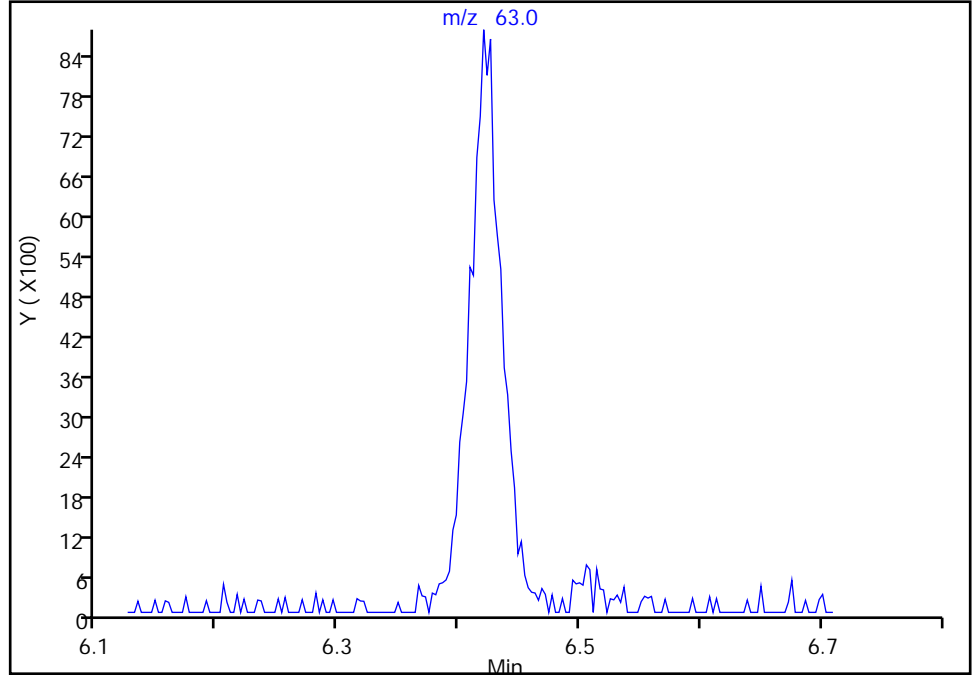
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

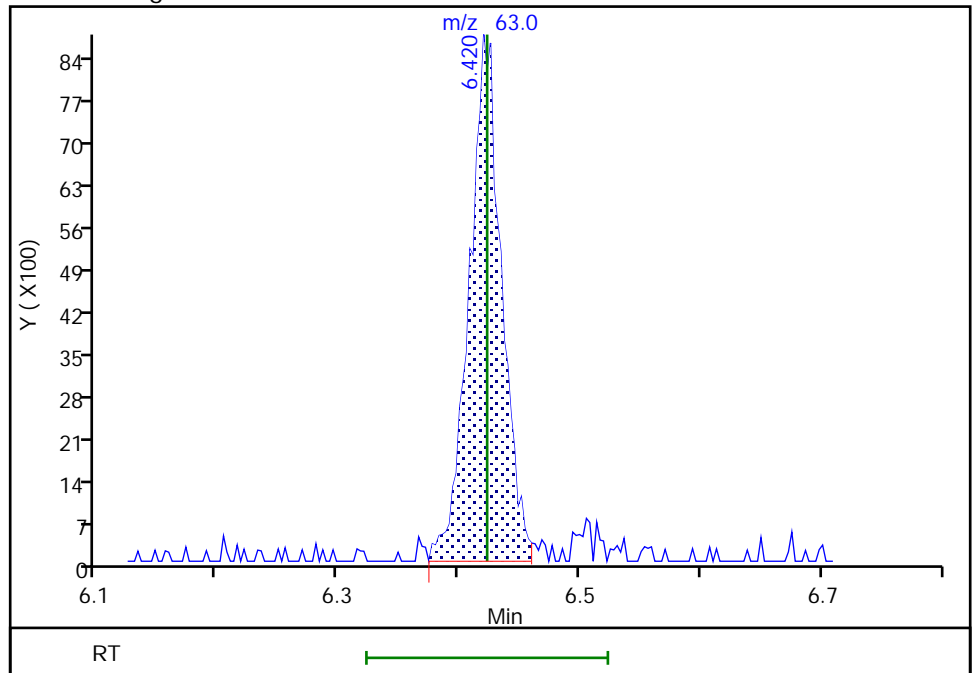
Not Detected
Expected RT: 6.42

Processing Integration Results



Manual Integration Results

RT: 6.42
Area: 16345
Amount: 5.079366
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:05:27
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

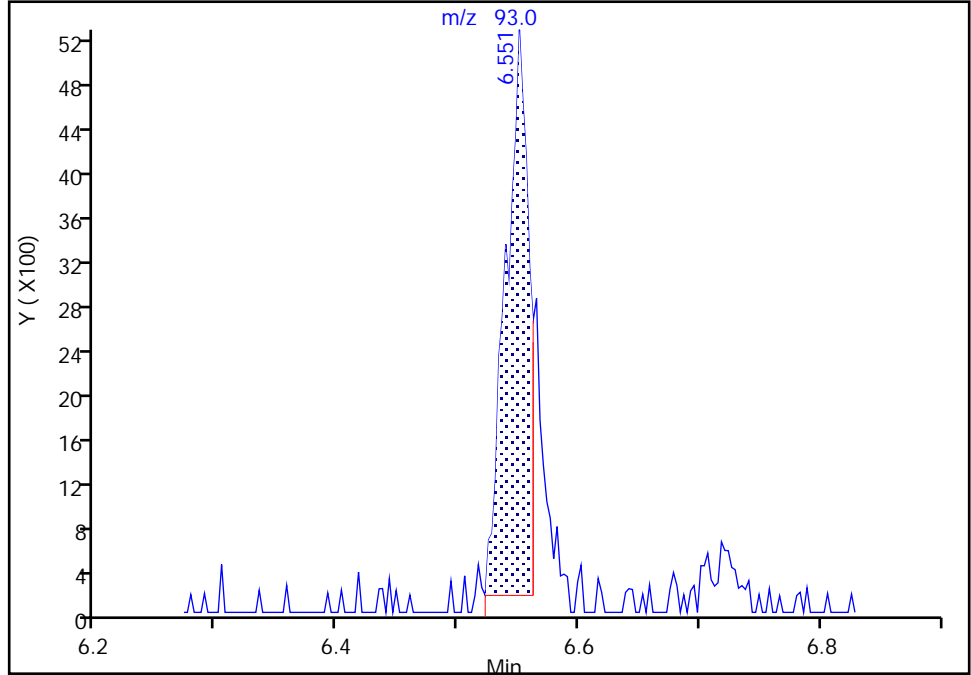
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

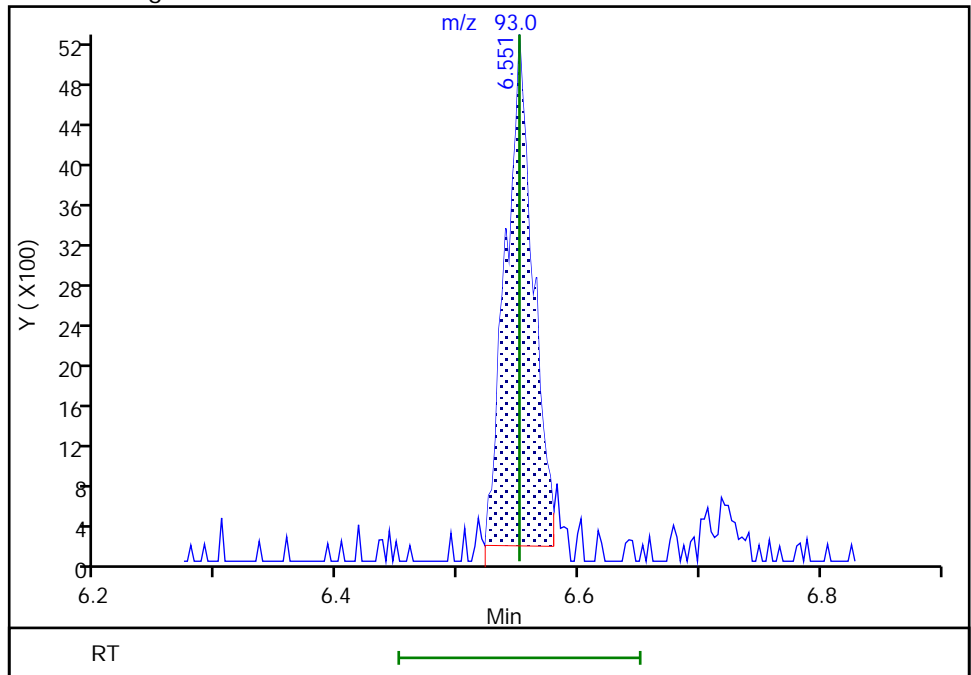
RT: 6.55
Area: 6743
Amount: 4.131492
Amount Units: UG/L

Processing Integration Results



RT: 6.55
Area: 7992
Amount: 4.758911
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:05:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D

Injection Date: 18-Jan-2022 12:24:30

Instrument ID: CMS16

Lims ID: STD2

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260s16_test

Limit Group:

MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

Detector

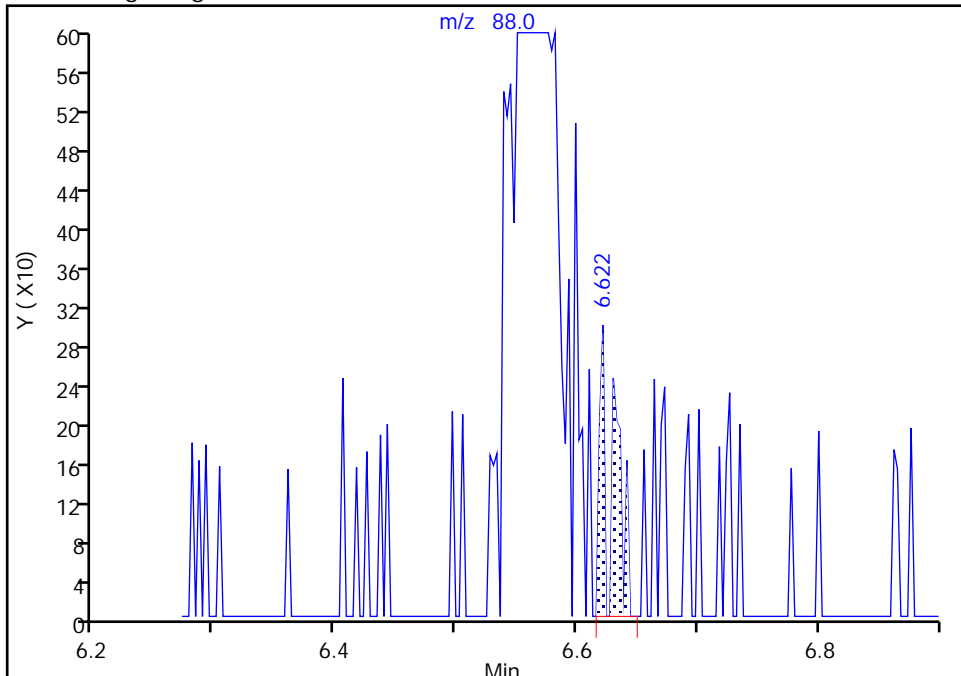
MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

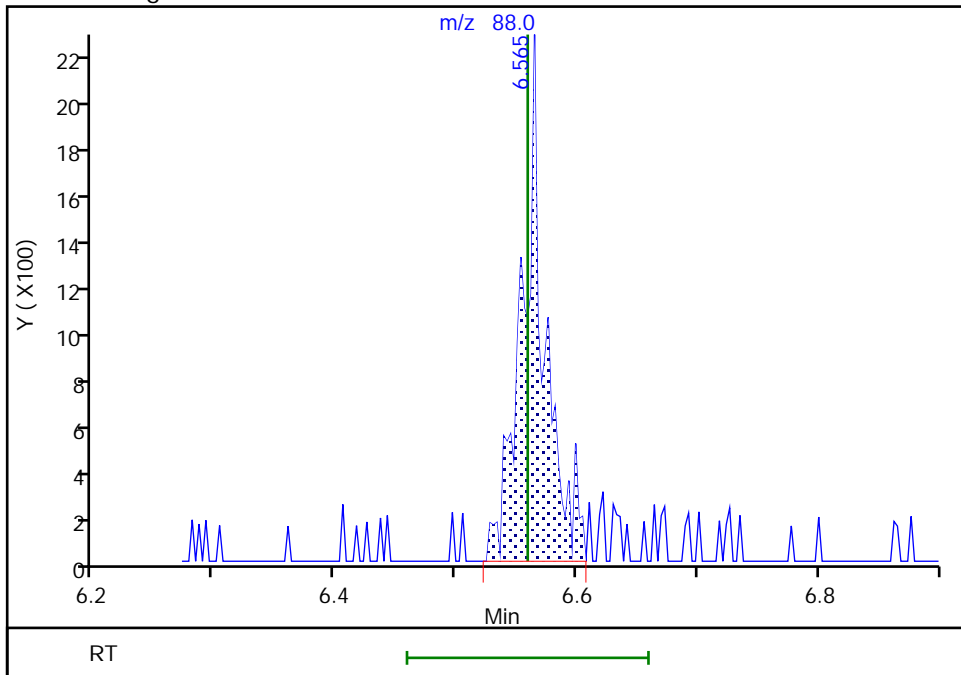
RT: 6.62
Area: 219
Amount: 95.078349
Amount Units: UG/L

Processing Integration Results



RT: 6.56
Area: 2922
Amount: 120.3560
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:05:48
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

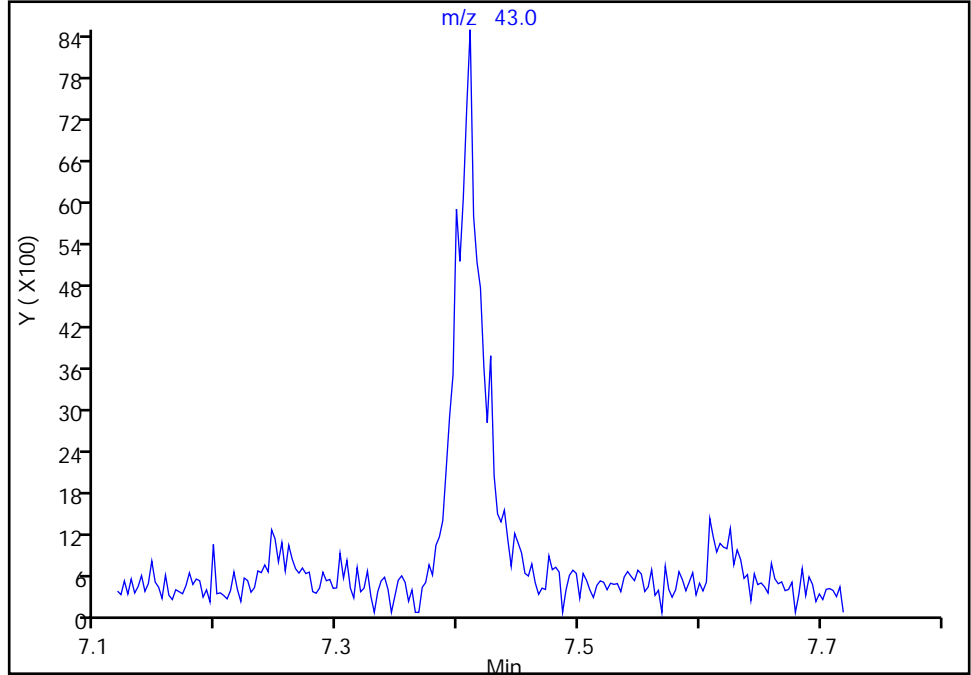
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

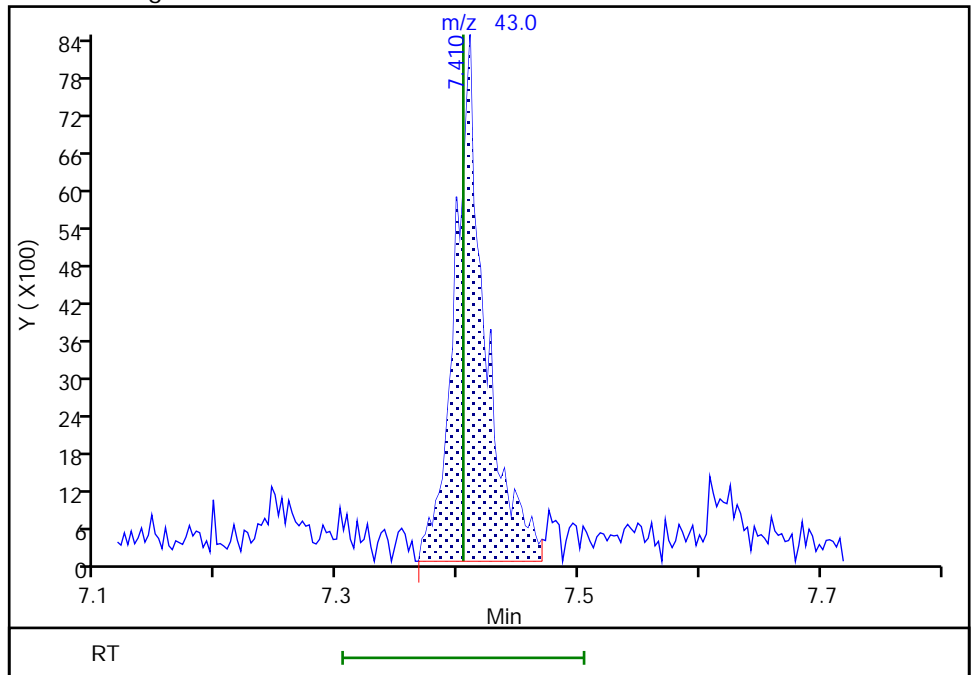
Not Detected
Expected RT: 7.40

Processing Integration Results



RT: 7.41
Area: 14597
Amount: 5.650120
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:05:56
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

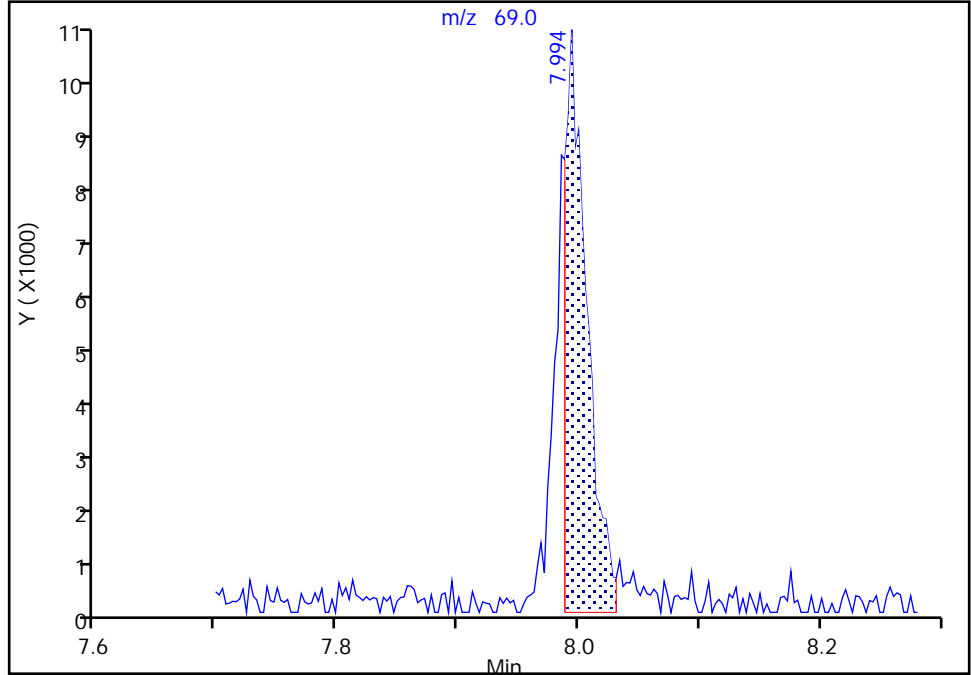
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

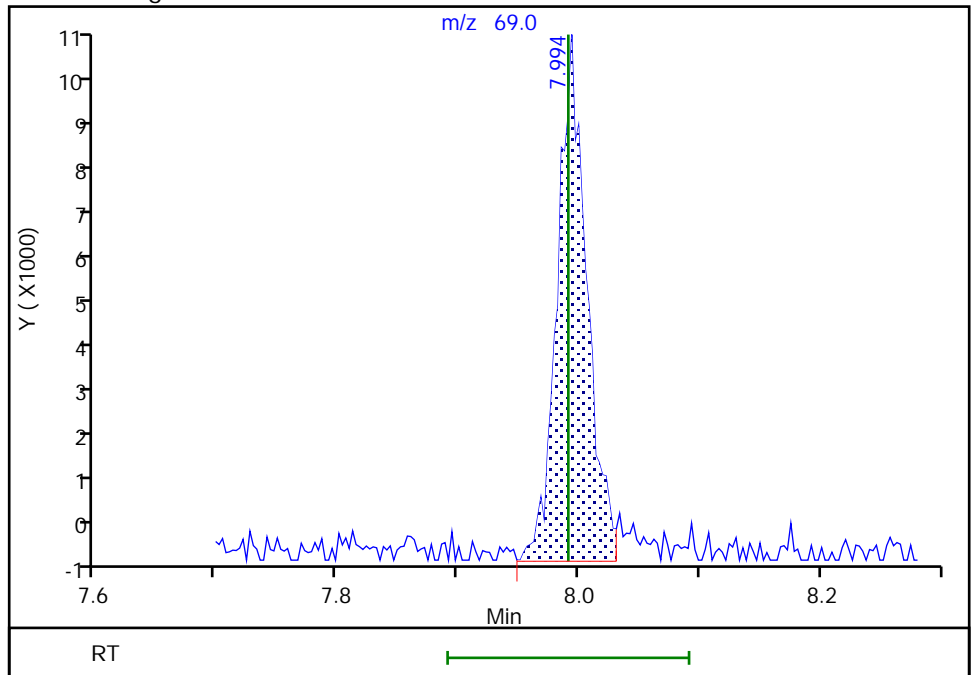
RT: 7.99
Area: 13124
Amount: 4.298381
Amount Units: UG/L

Processing Integration Results



RT: 7.99
Area: 17898
Amount: 5.328368
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:06:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

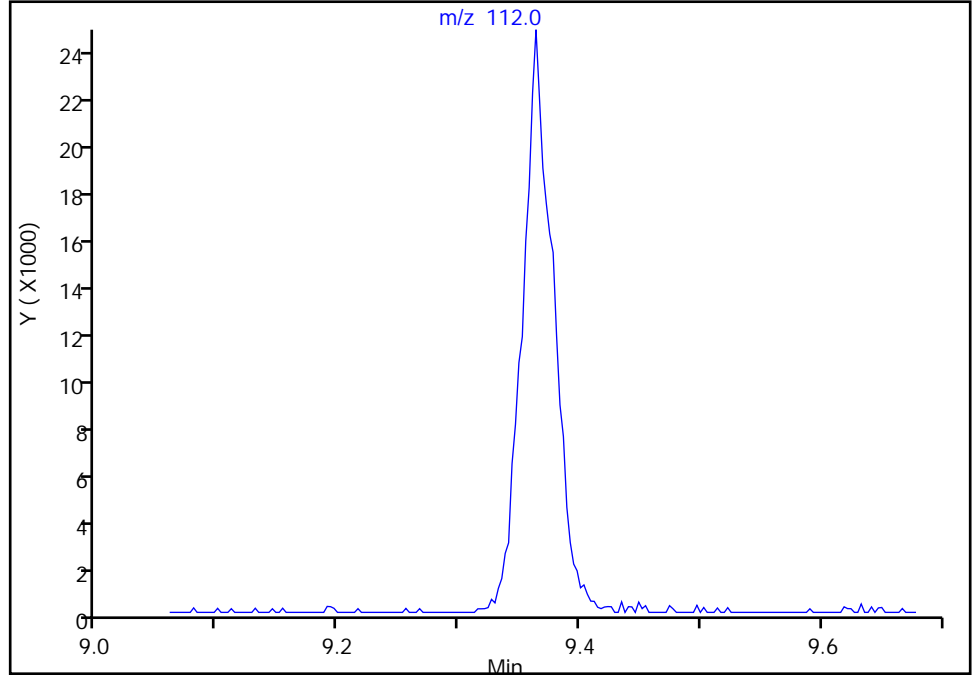
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Signal: 1

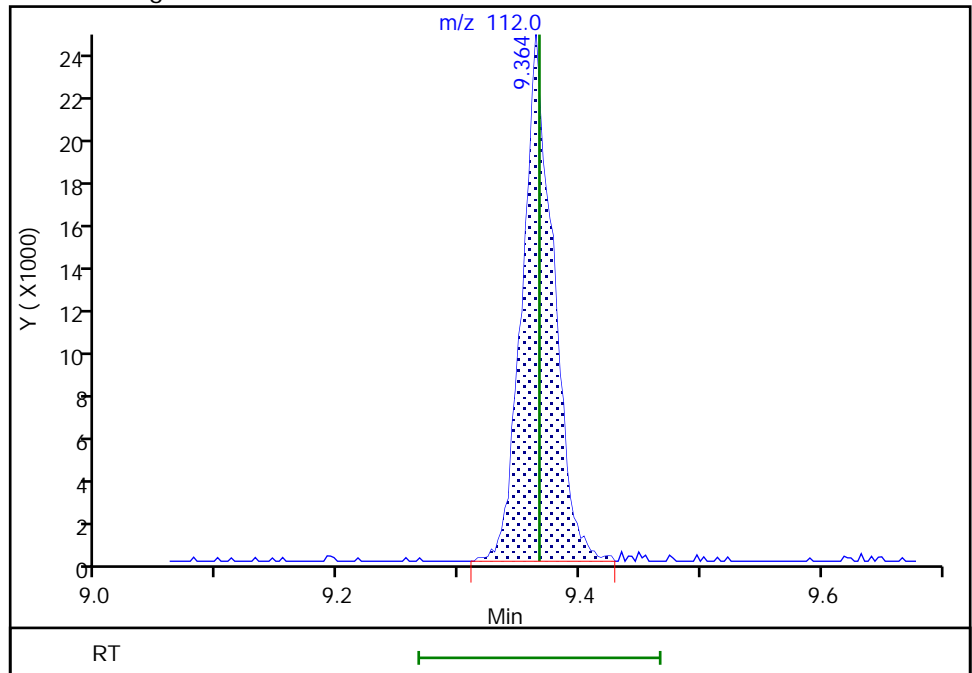
Not Detected
Expected RT: 9.37

Processing Integration Results



Manual Integration Results

RT: 9.36
Area: 44185
Amount: 4.981563
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:06:19
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

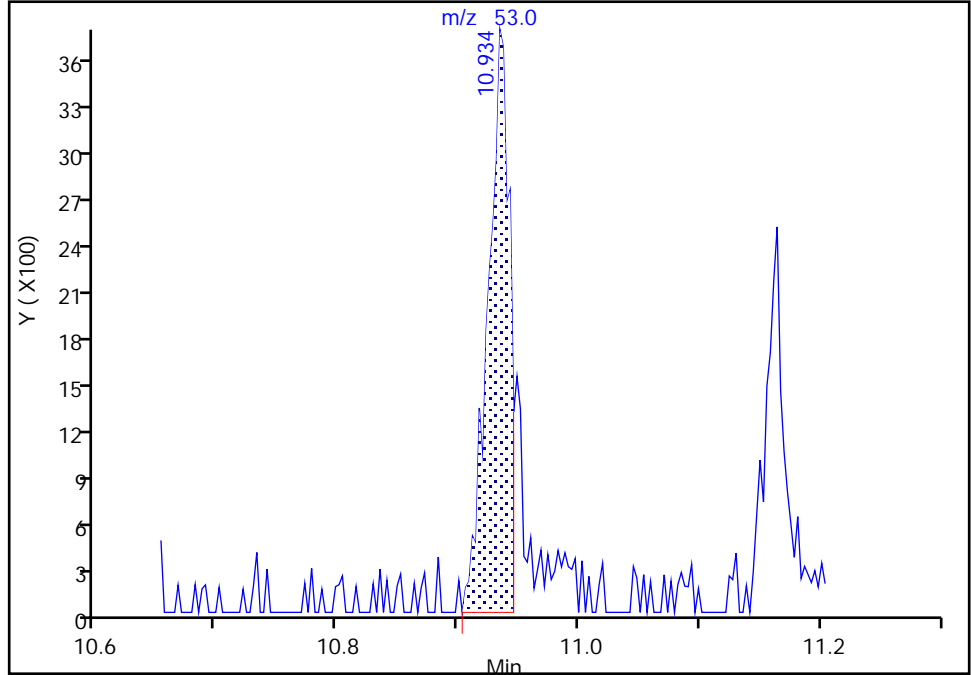
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD20118.D
Injection Date: 18-Jan-2022 12:24:30 Instrument ID: CMS16
Lims ID: STD2
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

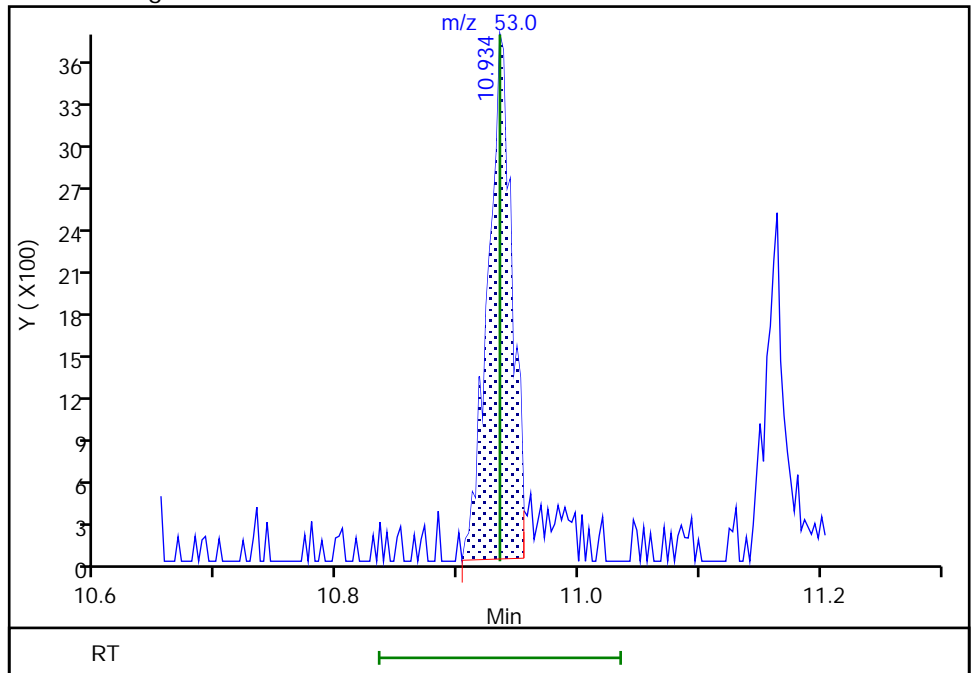
RT: 10.93
Area: 4631
Amount: 4.352899
Amount Units: UG/L

Processing Integration Results



RT: 10.93
Area: 5129
Amount: 5.313181
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:06:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD30118.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Jan-2022 12:50:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD3
 Misc. Info.: 500-0083302-005
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:42:55 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 15:09:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.520	1.523	-0.003	98	78270	20.0	16.5	
2 Chloromethane	50	1.719	1.716	0.003	99	91387	20.0	17.2	
3 Vinyl chloride	62	1.829	1.832	-0.003	99	90752	20.0	18.0	
4 Butadiene	39	1.849	1.849	0.000	96	98380	20.0	18.1	
5 Bromomethane	94	2.127	2.127	0.000	90	60594	20.0	17.0	
6 Chloroethane	64	2.226	2.232	-0.006	97	53304	20.0	17.6	
7 Dichlorofluoromethane	67	2.436	2.442	-0.006	99	130174	20.0	18.7	
8 Trichlorofluoromethane	101	2.473	2.476	-0.003	97	114110	20.0	18.4	
11 Ethyl ether	59	2.762	2.757	0.005	91	47824	20.0	19.0	
12 Acrolein	56	2.881	2.879	0.002	98	263639	800.0	882.5	
13 1,1-Dichloroethene	96	2.963	2.964	-0.001	97	64471	20.0	19.0	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.981	2.981	-0.001	95	74298	20.0	19.0	
15 Acetone	43	3.026	3.023	0.003	97	15698	20.0	19.0	
16 Iodomethane	142	3.108	3.105	0.003	97	106028	20.0	18.9	
17 Carbon disulfide	76	3.168	3.168	0.000	100	229601	20.0	19.2	
20 3-Chloro-1-propene	76	3.304	3.304	0.000	92	40641	20.0	19.8	
21 Methyl acetate	43	3.329	3.327	0.002	97	65746	40.0	38.6	
22 Methylene Chloride	84	3.420	3.417	0.003	94	71582	20.0	20.1	
* 23 TBA-d9 (IS)	65	3.460	3.465	-0.005	96	235732	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.539	3.531	0.008	97	53782	200.0	185.3	
25 Acrylonitrile	53	3.650	3.650	0.000	97	174677	200.0	193.6	
26 trans-1,2-Dichloroethene	96	3.675	3.675	0.000	78	69305	20.0	19.0	
27 Methyl tert-butyl ether	73	3.675	3.675	0.000	91	170261	20.0	19.4	
28 Hexane	57	3.930	3.928	0.002	91	106817	20.0	19.3	
29 1,1-Dichloroethane	63	4.072	4.070	0.002	96	115098	20.0	19.1	
30 Vinyl acetate	43	4.118	4.118	0.000	99	92925	20.0	17.8	
35 cis-1,2-Dichloroethene	96	4.628	4.625	0.003	99	71824	20.0	19.3	
34 2,2-Dichloropropane	41	4.625	4.628	-0.003	70	52416	20.0	19.1	
36 2-Butanone (MEK)	43	4.642	4.637	0.005	56	18969	20.0	18.7	Ma

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.858	4.861	-0.003	95	31364	20.0	19.3	
41 Tetrahydrofuran	42	4.909	4.909	0.000	89	31161	40.0	40.7	
42 Chloroform	83	4.937	4.940	-0.003	96	107390	20.0	19.3	
\$ 43 Dibromofluoromethane	113	5.099	5.096	0.003	81	57450	20.0	19.6	
44 1,1,1-Trichloroethane	97	5.127	5.127	0.000	96	107050	20.0	20.1	
45 Cyclohexane	56	5.184	5.184	0.000	94	134119	20.0	19.0	
47 1,1-Dichloropropene	75	5.289	5.292	-0.003	90	85412	20.0	19.1	
46 Carbon tetrachloride	117	5.294	5.292	0.002	91	92452	20.0	18.8	
49 Isobutyl alcohol	43	5.396	5.391	0.005	95	54171	500.0	454.9	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.442	5.442	0.000	88	62291	20.0	20.5	
50 Benzene	78	5.499	5.502	-0.004	95	257514	20.0	19.2	
51 1,2-Dichloroethane	62	5.518	5.521	-0.003	80	72669	20.0	19.2	
54 n-Heptane	43	5.768	5.765	0.003	74	108488	20.0	18.9	
* 55 Fluorobenzene (IS)	96	5.785	5.788	-0.003	99	652114	53.4	53.4	
57 Trichloroethene	130	6.179	6.174	0.005	96	64814	20.0	19.0	Ma
59 Methylcyclohexane	83	6.380	6.383	-0.003	94	135907	20.0	19.2	
60 1,2-Dichloropropane	63	6.423	6.423	0.000	93	61173	20.0	19.3	
* 62 1,4-Dioxane-d8	96	6.502	6.500	0.002	83	16788	1068.6	1068.6	
63 Dibromomethane	93	6.551	6.551	-0.001	89	31669	20.0	19.1	a
65 1,4-Dioxane	88	6.556	6.559	-0.003	43	9246	400.0	406.1	a
66 Dichlorobromomethane	83	6.721	6.721	0.000	96	76909	20.0	19.0	
68 2-Chloroethyl vinyl ether	63	7.055	7.058	-0.003	89	18870	20.0	19.3	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	89	96118	20.0	20.2	
70 4-Methyl-2-pentanone (MIBK)	43	7.410	7.404	0.006	92	47272	20.0	18.7	a
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	85	228843	20.0	20.2	
72 Toluene	92	7.622	7.623	-0.001	89	157060	20.0	19.3	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	96	83632	20.0	19.8	
74 Ethyl methacrylate	69	7.994	7.991	0.003	92	62708	20.0	19.1	
75 1,1,2-Trichloroethane	97	8.107	8.107	0.000	90	44174	20.0	19.4	
76 Tetrachloroethene	166	8.280	8.283	-0.003	93	66271	20.0	19.5	
77 1,3-Dichloropropane	76	8.314	8.314	0.000	93	76638	20.0	19.4	
78 2-Hexanone	43	8.416	8.414	0.002	96	33423	20.0	19.8	
80 Chlorodibromomethane	129	8.595	8.589	0.006	85	54219	20.0	19.2	
81 Ethylene Dibromide	107	8.737	8.740	-0.003	96	44306	20.0	19.5	
* 82 Chlorobenzene-d5	117	9.327	9.327	0.000	86	466388	53.4	53.4	
84 Chlorobenzene	112	9.361	9.366	-0.005	96	166454	20.0	19.2	
85 1,1,1,2-Tetrachloroethane	131	9.471	9.474	-0.003	93	66177	20.0	19.5	
86 Ethylbenzene	106	9.511	9.511	0.000	98	94317	20.0	19.2	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	98	226642	20.0	18.9	
88 o-Xylene	91	10.140	10.141	-0.001	92	246192	20.0	19.3	
89 Styrene	104	10.157	10.158	-0.001	94	196006	20.0	19.0	
90 Bromoform	173	10.362	10.359	0.003	96	33632	20.0	18.1	
91 Isopropylbenzene	105	10.554	10.557	-0.003	97	320248	20.0	19.4	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	86105	20.0	20.1	
95 Bromobenzene	156	10.866	10.869	-0.003	91	72445	20.0	18.9	
96 1,1,2,2-Tetrachloroethane	83	10.875	10.875	0.000	82	60865	20.0	19.1	
97 1,2,3-Trichloropropane	110	10.912	10.915	-0.003	86	18157	20.0	19.4	a
98 trans-1,4-Dichloro-2-butene	53	10.934	10.935	0.000	89	19655	20.0	20.3	
99 N-Propylbenzene	91	10.985	10.986	-0.001	97	374500	20.0	19.3	
100 2-Chlorotoluene	91	11.068	11.068	0.000	97	215413	20.0	19.3	
101 1,3,5-Trimethylbenzene	105	11.161	11.161	0.000	94	275925	20.0	19.1	
102 4-Chlorotoluene	91	11.175	11.176	-0.001	94	249220	20.0	18.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.476	11.473	0.003	91	251458	20.0	19.2	
106 1,2,4-Trimethylbenzene	105	11.518	11.519	-0.001	96	277244	20.0	18.9	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	380319	20.0	19.2	
108 1,3-Dichlorobenzene	146	11.776	11.777	-0.001	98	155902	20.0	18.7	
109 4-Isopropyltoluene	119	11.811	11.811	-0.001	96	325732	20.0	18.9	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	287868	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.856	11.859	-0.003	93	158577	20.0	18.5	
114 n-Butylbenzene	91	12.171	12.168	0.003	94	304149	20.0	19.1	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	96	148983	20.0	18.6	
116 1,2-Dibromo-3-Chloropropane	75	12.828	12.829	-0.001	58	10939	20.0	19.5	
118 1,2,4-Trichlorobenzene	180	13.469	13.470	-0.001	93	93711	20.0	18.7	
119 Hexachlorobutadiene	225	13.594	13.591	0.003	95	60220	20.0	19.5	
120 Naphthalene	128	13.656	13.657	-0.001	99	181768	20.0	19.0	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	93	77184	20.0	19.5	
S 124 Xylenes, Total	100				0			38.1	
S 125 1,2-Dichloroethene, Total	96				0			38.3	
S 128 Trimethylbenzene, Total	1				0			38.0	
S 127 Trihalomethanes, Total	1				0			75.7	
S 126 1,3-Dichloropropene, Total	1				0			40.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LO8260/624STD_00509

Amount Added: 20.00

Units: uL

LOW8260ACR_00302

Amount Added: 20.00

Units: uL

8260 LOWSS1_00186

Amount Added: 2.00

Units: uL

INST16 IS_00032

Amount Added: 1.07

Units: uL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD30118.D

Injection Date: 18-Jan-2022 12:50:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD3

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

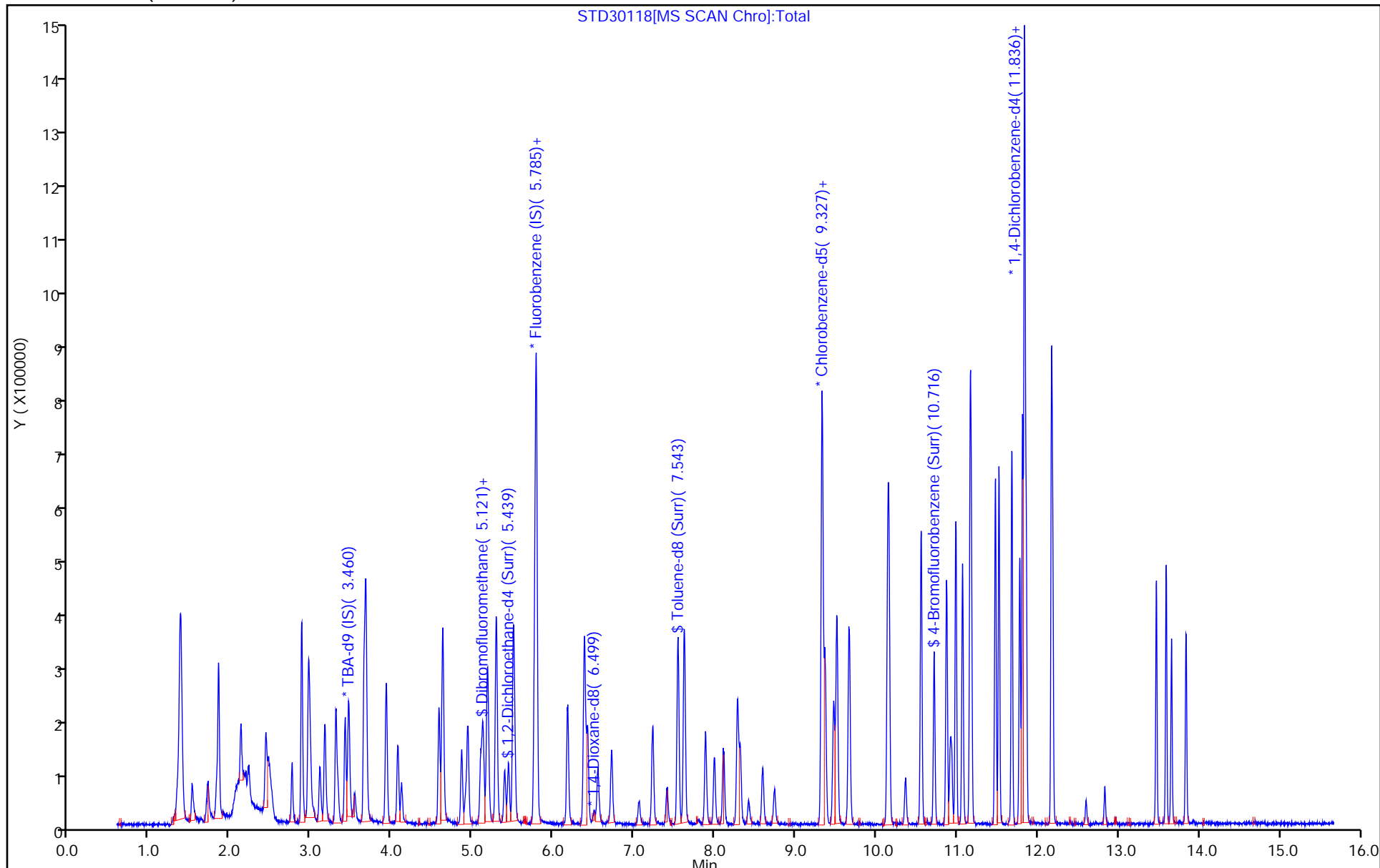
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

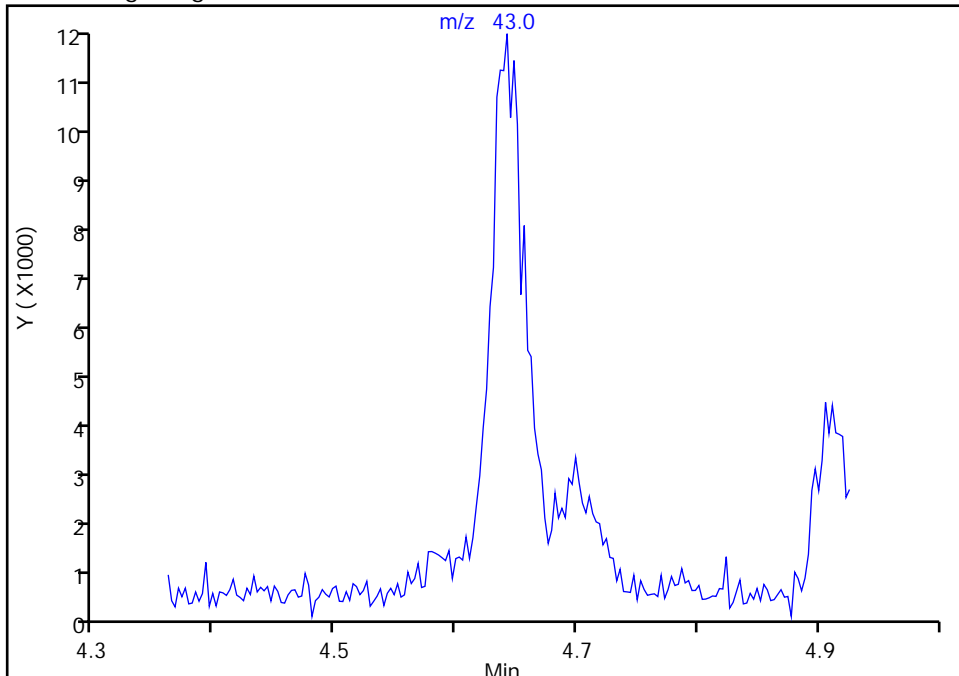
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Injection Date: 18-Jan-2022 12:50:30 Instrument ID: CMS16
Lims ID: STD3
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

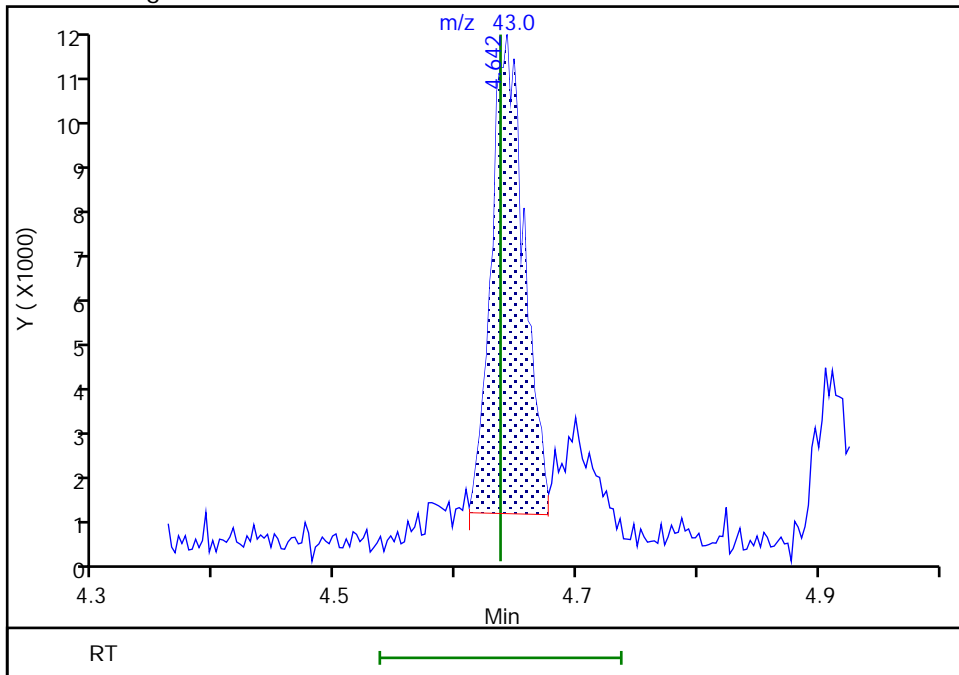
Signal: 1

Not Detected
Expected RT: 4.64

Processing Integration Results



Manual Integration Results



RT: 4.64
Area: 18969
Amount: 18.746408
Amount Units: UG/L

Reviewer: ficarello, 18-Jan-2022 15:07:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD30118.D

Injection Date: 18-Jan-2022 12:50:30

Instrument ID: CMS16

Lims ID: STD3

Client ID:

Operator ID:

ALS Bottle#: 4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

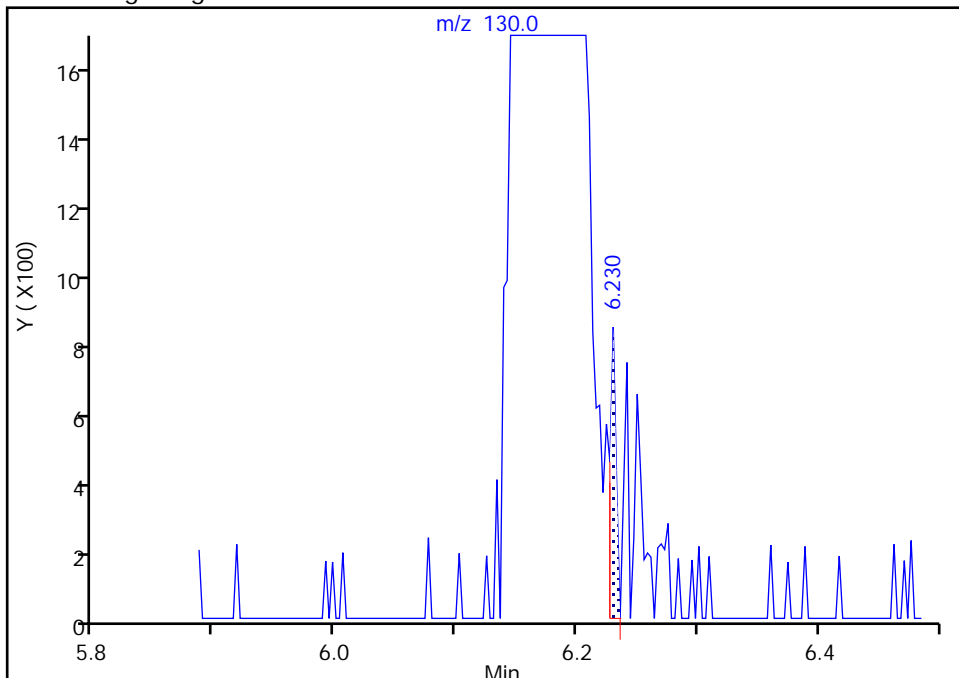
Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

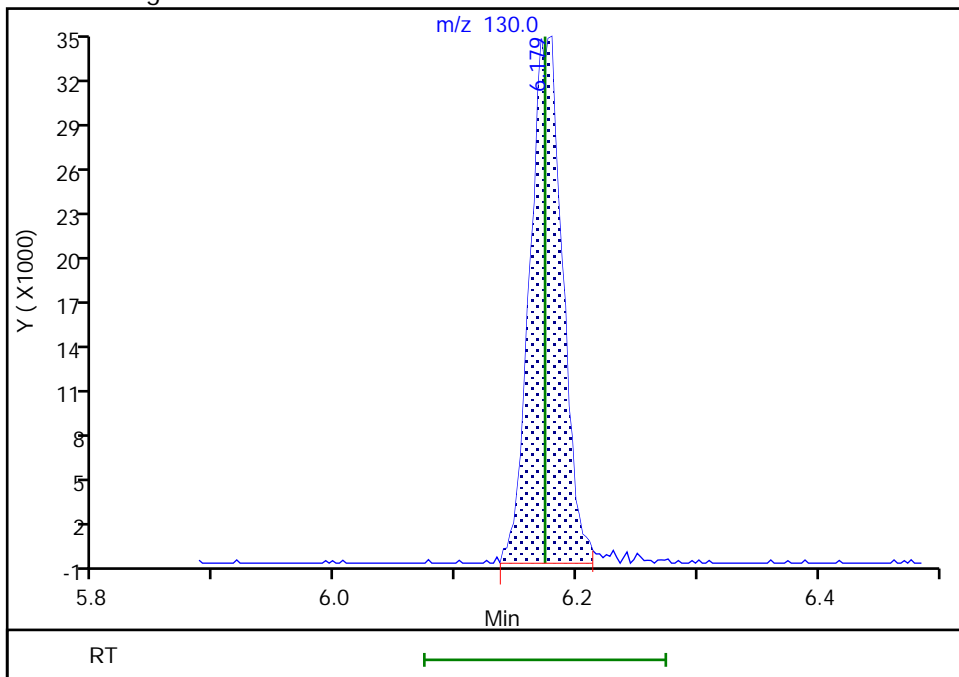
RT: 6.23
Area: 285
Amount: 0.104513
Amount Units: UG/L

Processing Integration Results



RT: 6.18
Area: 64814
Amount: 19.003018
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:07:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

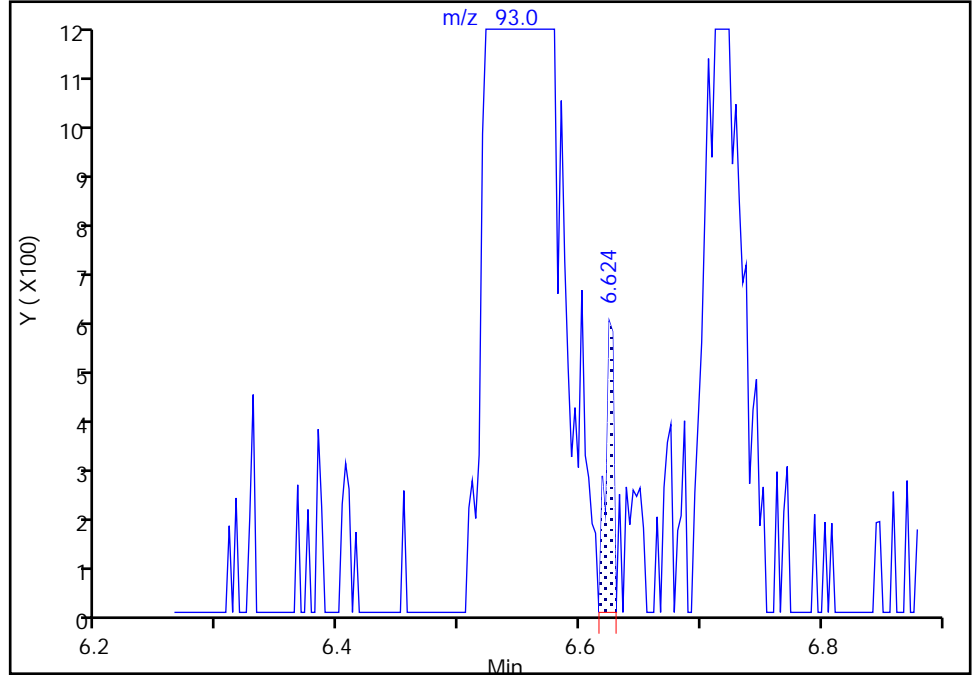
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Injection Date: 18-Jan-2022 12:50:30 Instrument ID: CMS16
Lims ID: STD3
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

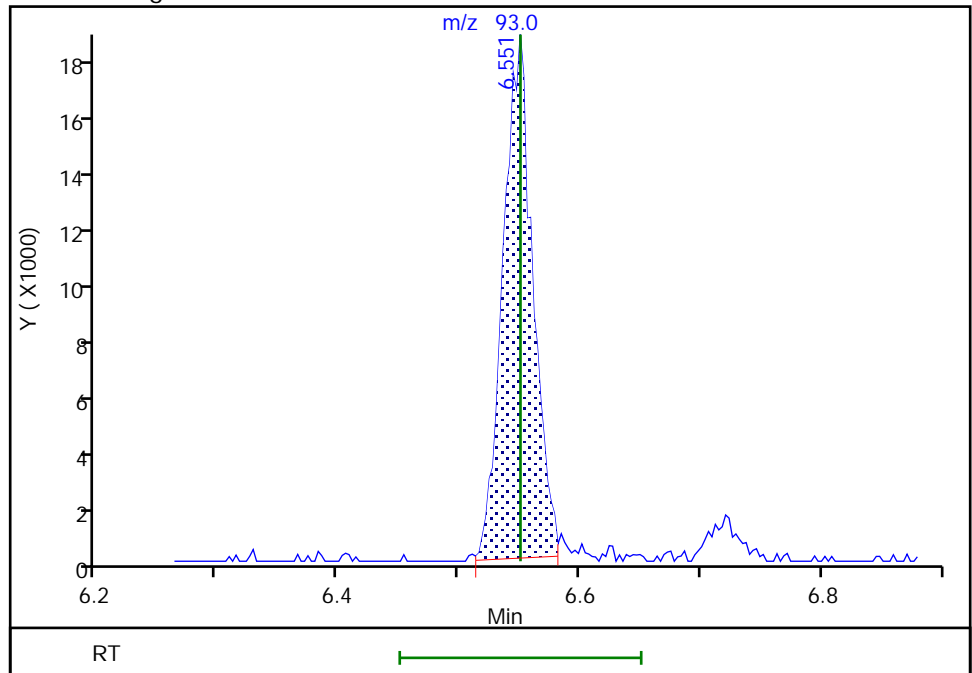
RT: 6.62
Area: 258
Amount: 0.182970
Amount Units: UG/L

Processing Integration Results



RT: 6.55
Area: 31669
Amount: 19.097330
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD30118.D

Injection Date: 18-Jan-2022 12:50:30

Instrument ID: CMS16

Lims ID: STD3

Client ID:

Operator ID:

ALS Bottle#: 4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)

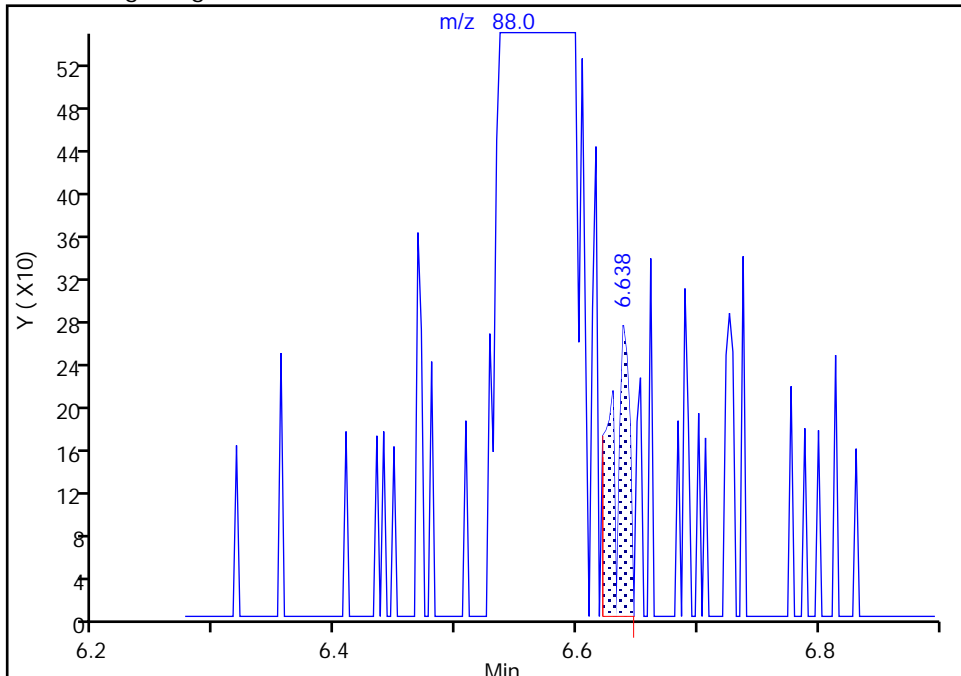
Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

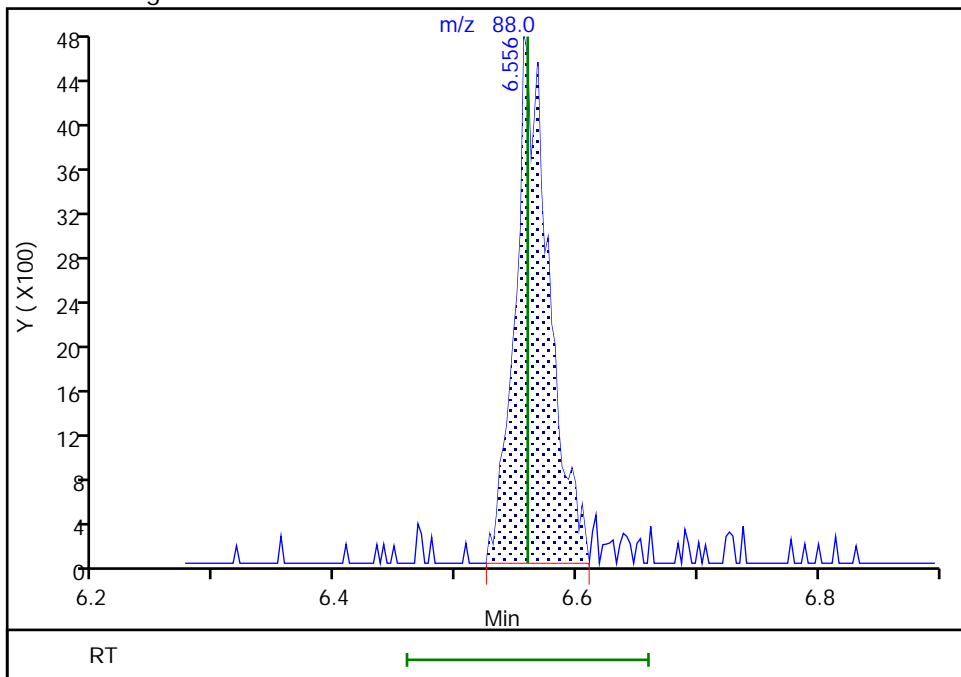
RT: 6.64
Area: 272
Amount: 14.962285
Amount Units: UG/L

Processing Integration Results



RT: 6.56
Area: 9246
Amount: 406.0649
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

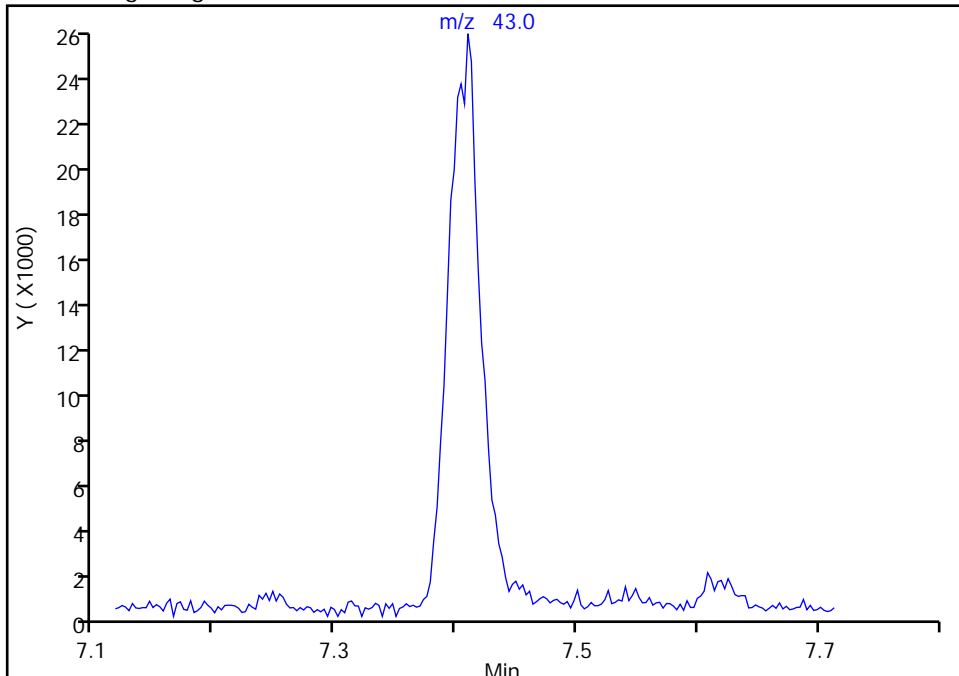
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Injection Date: 18-Jan-2022 12:50:30 Instrument ID: CMS16
Lims ID: STD3
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

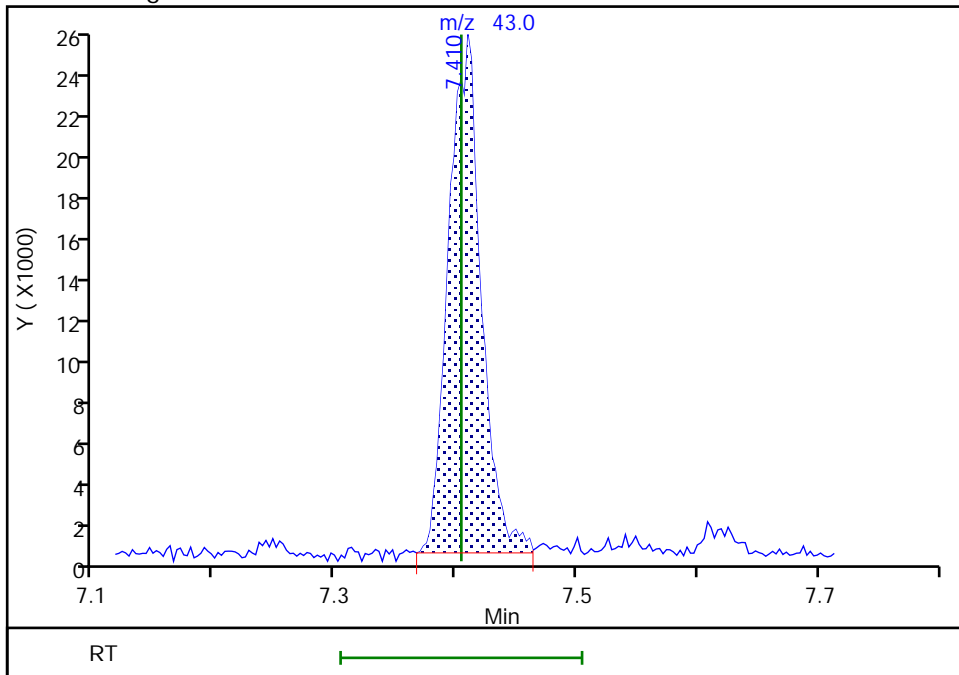
Not Detected
Expected RT: 7.40

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 47272
Amount: 18.676678
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:08:22
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

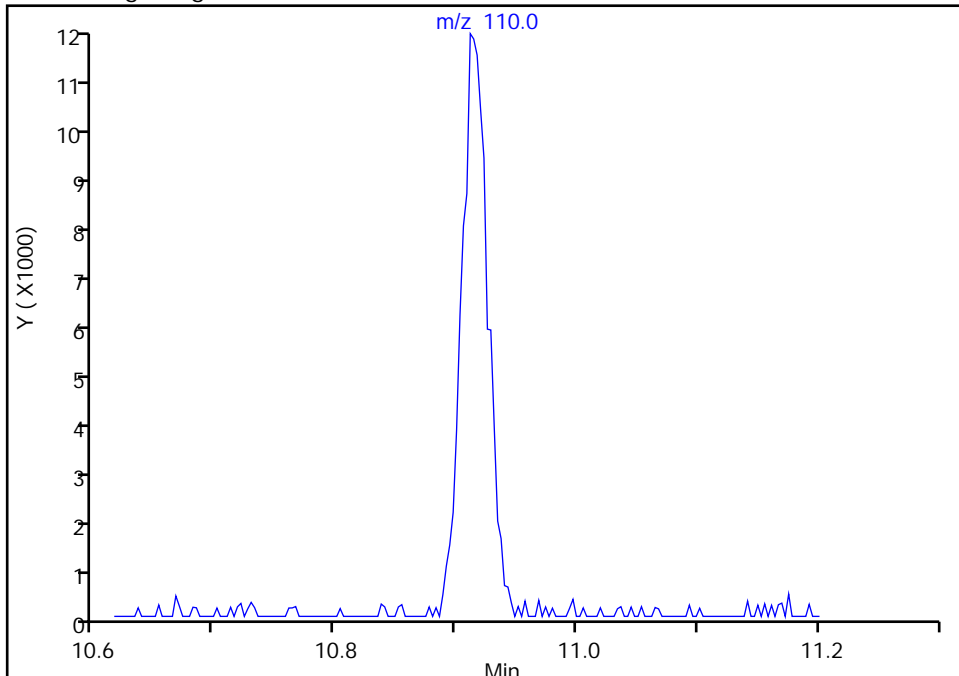
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Injection Date: 18-Jan-2022 12:50:30 Instrument ID: CMS16
Lims ID: STD3
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

97 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

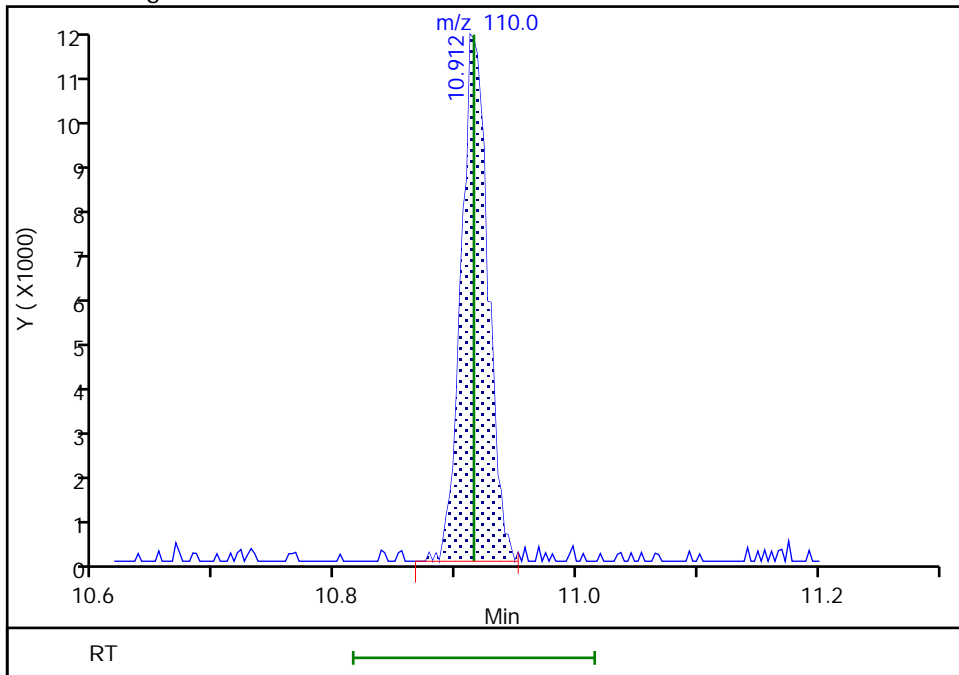
Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results

RT: 10.91
Area: 18157
Amount: 19.437994
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:09:50
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD40118.D
 Lims ID: STD4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 18-Jan-2022 13:15:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD4
 Misc. Info.: 500-0083302-006
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:42:58 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 14:50:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.523	1.523	0.000	99	249463	50.0	51.8	
2 Chloromethane	50	1.716	1.716	0.000	100	265303	50.0	48.4	
3 Vinyl chloride	62	1.832	1.832	0.000	100	249999	50.0	48.9	
4 Butadiene	39	1.849	1.849	0.000	97	273052	50.0	49.5	
5 Bromomethane	94	2.127	2.127	0.000	90	182844	50.0	50.5	
6 Chloroethane	64	2.232	2.232	0.000	99	148798	50.0	48.3	
7 Dichlorofluoromethane	67	2.442	2.442	0.000	100	340475	50.0	48.4	
8 Trichlorofluoromethane	101	2.476	2.476	0.000	97	304081	50.0	48.2	
11 Ethyl ether	59	2.757	2.757	0.000	91	124376	50.0	48.8	
12 Acrolein	56	2.879	2.879	0.000	96	553970	2000.0	1850.6	
13 1,1-Dichloroethene	96	2.964	2.964	0.000	97	164284	50.0	47.8	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.981	2.981	0.000	95	179751	50.0	45.3	
15 Acetone	43	3.023	3.023	0.000	100	44172	50.0	52.8	
16 Iodomethane	142	3.105	3.105	0.000	99	267095	50.0	46.9	
17 Carbon disulfide	76	3.168	3.168	0.000	100	584486	50.0	48.2	
20 3-Chloro-1-propene	76	3.304	3.304	0.000	94	104000	50.0	49.8	
21 Methyl acetate	43	3.327	3.327	0.000	97	167288	100.0	96.8	
22 Methylene Chloride	84	3.417	3.417	0.000	93	174211	50.0	48.3	
* 23 TBA-d9 (IS)	65	3.460	3.460	0.000	96	221110	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.531	3.531	0.000	98	129046	500.0	474.1	
25 Acrylonitrile	53	3.650	3.650	0.000	99	433555	500.0	473.7	
26 trans-1,2-Dichloroethene	96	3.675	3.675	0.000	78	176031	50.0	47.5	
27 Methyl tert-butyl ether	73	3.675	3.675	0.000	96	421620	50.0	47.5	
28 Hexane	57	3.928	3.928	0.000	94	266335	50.0	47.4	
29 1,1-Dichloroethane	63	4.070	4.070	0.000	97	293091	50.0	47.9	
30 Vinyl acetate	43	4.118	4.118	0.000	99	256557	50.0	48.4	
35 cis-1,2-Dichloroethene	96	4.625	4.625	0.000	98	179427	50.0	47.7	
34 2,2-Dichloropropane	41	4.628	4.628	0.000	69	131193	50.0	47.1	
36 2-Butanone (MEK)	43	4.637	4.637	0.000	45	53016	50.0	51.7	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.861	4.861	0.000	96	78672	50.0	47.7	
41 Tetrahydrofuran	42	4.909	4.909	0.000	86	71051	100.0	95.2	
42 Chloroform	83	4.940	4.940	0.000	96	269740	50.0	47.8	
\$ 43 Dibromofluoromethane	113	5.096	5.096	0.000	76	148554	50.0	49.9	
44 1,1,1-Trichloroethane	97	5.127	5.127	0.000	98	256329	50.0	47.5	
45 Cyclohexane	56	5.184	5.184	0.000	92	342086	50.0	47.8	
47 1,1-Dichloropropene	75	5.292	5.292	0.000	90	216333	50.0	47.6	
46 Carbon tetrachloride	117	5.292	5.292	0.000	90	233671	50.0	46.8	
49 Isobutyl alcohol	43	5.391	5.391	0.000	95	138426	1250.0	1239.3	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.442	5.442	0.000	96	154087	50.0	49.9	
50 Benzene	78	5.502	5.502	0.000	96	656914	50.0	48.2	
51 1,2-Dichloroethane	62	5.521	5.521	0.000	92	183881	50.0	47.9	
54 n-Heptane	43	5.765	5.765	0.000	92	273961	50.0	47.1	
* 55 Fluorobenzene (IS)	96	5.785	5.785	0.000	97	661329	53.4	53.4	
57 Trichloroethene	130	6.174	6.174	0.000	99	166492	50.0	48.1	
59 Methylcyclohexane	83	6.383	6.383	0.000	94	340596	50.0	47.5	
60 1,2-Dichloropropane	63	6.423	6.423	0.000	90	156760	50.0	48.6	
* 62 1,4-Dioxane-d8	96	6.502	6.502	0.000	77	19668	1068.6	1068.6	
63 Dibromomethane	93	6.551	6.551	0.000	90	81816	50.0	48.6	
65 1,4-Dioxane	88	6.559	6.559	0.000	45	21985	1000.0	824.2	
66 Dichlorobromomethane	83	6.721	6.721	0.000	98	197258	50.0	48.1	
68 2-Chloroethyl vinyl ether	63	7.058	7.058	0.000	93	51138	50.0	50.1	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	92	243820	50.0	49.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.404	7.404	0.000	97	134673	50.0	50.9	
\$ 71 Toluene-d8 (Surr)	98	7.540	7.540	0.000	94	599310	50.0	50.6	
72 Toluene	92	7.623	7.623	0.000	88	406828	50.0	47.9	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	97	208965	50.0	47.3	
74 Ethyl methacrylate	69	7.991	7.991	0.000	92	169253	50.0	49.2	
75 1,1,2-Trichloroethane	97	8.107	8.107	0.000	92	112465	50.0	47.4	
76 Tetrachloroethene	166	8.283	8.283	0.000	95	169365	50.0	47.7	
77 1,3-Dichloropropane	76	8.314	8.314	0.000	93	201789	50.0	49.0	
78 2-Hexanone	43	8.414	8.414	0.000	98	87654	50.0	49.8	
80 Chlorodibromomethane	129	8.589	8.589	0.000	87	139789	50.0	47.5	
81 Ethylene Dibromide	107	8.740	8.740	0.000	99	113141	50.0	47.7	
* 82 Chlorobenzene-d5	117	9.330	9.330	0.000	85	487105	53.4	53.4	
84 Chlorobenzene	112	9.366	9.366	0.000	95	438813	50.0	48.4	
85 1,1,1,2-Tetrachloroethane	131	9.474	9.474	0.000	94	168585	50.0	47.6	
86 Ethylbenzene	106	9.511	9.511	0.000	98	249318	50.0	48.5	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	98	589245	50.0	46.9	
88 o-Xylene	91	10.141	10.141	0.000	93	645790	50.0	48.4	
89 Styrene	104	10.158	10.158	0.000	95	517359	50.0	48.1	
90 Bromoform	173	10.359	10.359	0.000	96	91199	50.0	47.1	
91 Isopropylbenzene	105	10.557	10.557	0.000	98	839367	50.0	49.7	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	224702	50.0	51.4	
95 Bromobenzene	156	10.869	10.869	0.000	96	191816	50.0	48.8	
96 1,1,2,2-Tetrachloroethane	83	10.875	10.875	0.000	80	156497	50.0	48.1	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	87	44334	50.0	46.4	
98 trans-1,4-Dichloro-2-butene	53	10.935	10.935	0.000	92	47826	50.0	48.3	
99 N-Propylbenzene	91	10.986	10.986	0.000	98	983131	50.0	49.5	
100 2-Chlorotoluene	91	11.068	11.068	0.000	97	568474	50.0	49.8	
101 1,3,5-Trimethylbenzene	105	11.161	11.161	0.000	93	727252	50.0	49.2	
102 4-Chlorotoluene	91	11.176	11.176	0.000	93	670612	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.473	11.473	0.000	92	662942	50.0	49.5	
106 1,2,4-Trimethylbenzene	105	11.519	11.519	0.000	94	738750	50.0	49.3	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	1002085	50.0	49.4	
108 1,3-Dichlorobenzene	146	11.777	11.777	0.000	97	415041	50.0	48.6	
109 4-Isopropyltoluene	119	11.811	11.811	0.000	95	862556	50.0	49.0	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	294305	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.859	11.859	0.000	95	418684	50.0	47.9	
114 n-Butylbenzene	91	12.168	12.168	0.000	95	795797	50.0	48.8	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	97	398576	50.0	48.6	
116 1,2-Dibromo-3-Chloropropane	75	12.829	12.829	0.000	61	27645	50.0	48.3	
118 1,2,4-Trichlorobenzene	180	13.470	13.470	0.000	91	249230	50.0	48.6	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	96	152238	50.0	48.2	
120 Naphthalene	128	13.657	13.657	0.000	99	489259	50.0	50.0	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	95	204024	50.0	50.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624GASWK_01335	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00645	Amount Added: 2.50	Units: uL	
8260/624KETWK_00569	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01267	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00570	Amount Added: 2.50	Units: uL	
8260 LOWSS1_00186	Amount Added: 5.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD40118.D

Injection Date: 18-Jan-2022 13:15:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD4

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

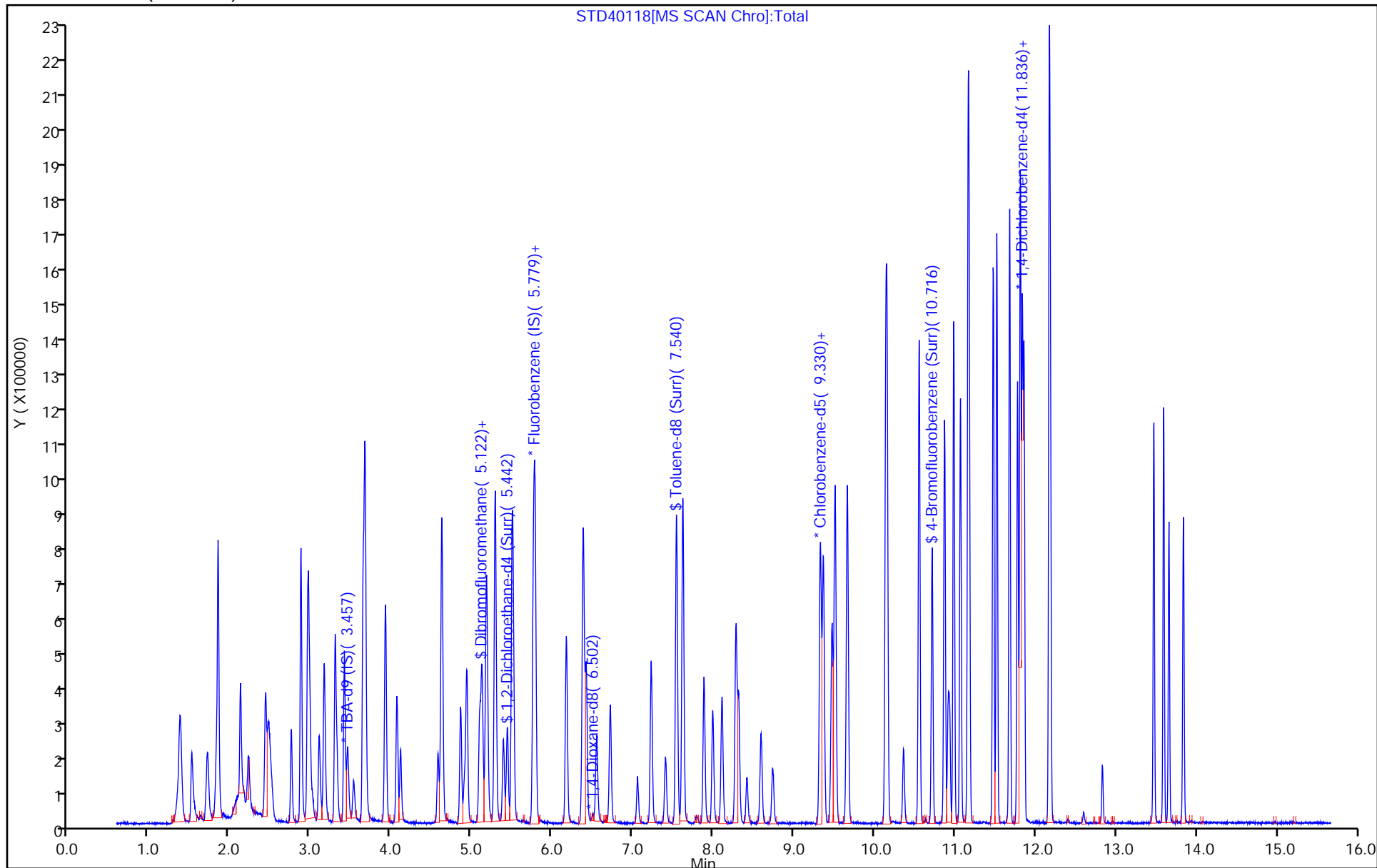
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

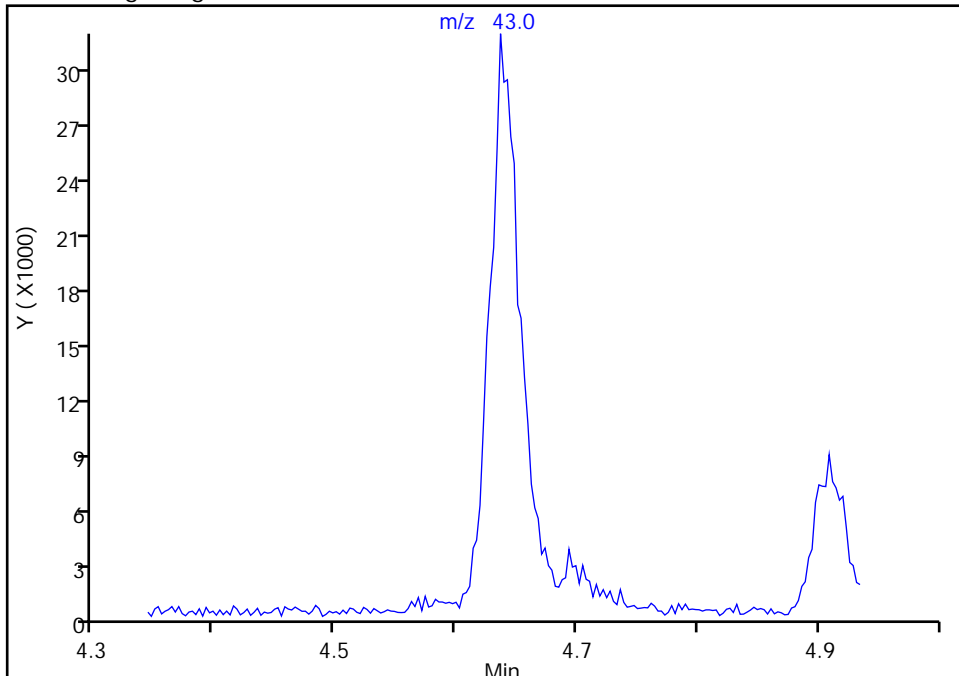
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD40118.D
Injection Date: 18-Jan-2022 13:15:30 Instrument ID: CMS16
Lims ID: STD4
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

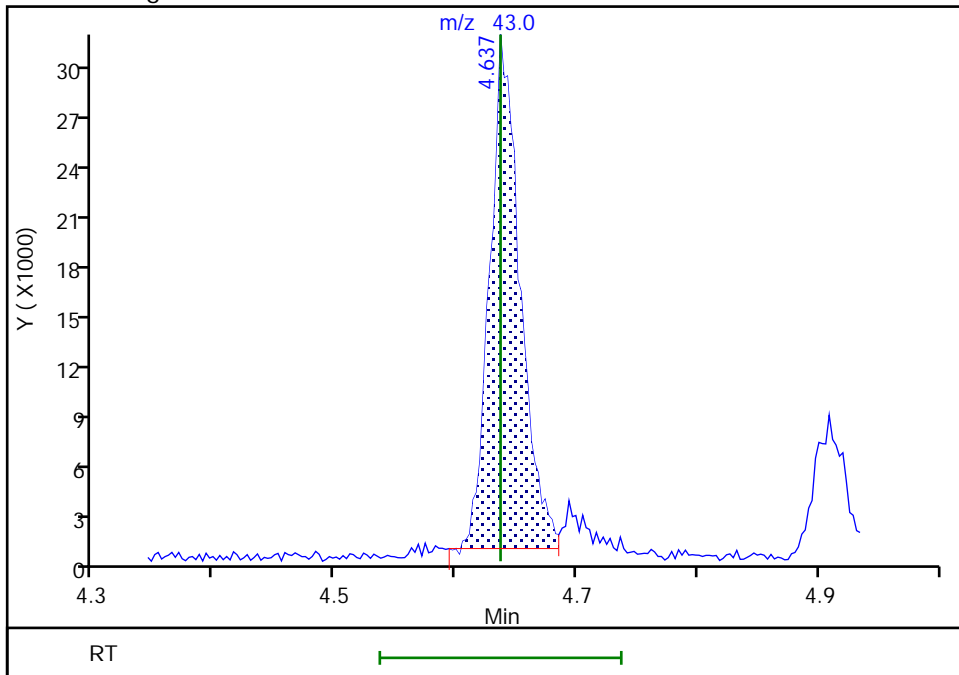
Not Detected
Expected RT: 4.64

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 53016
Amount: 51.663825
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 15:30:23
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD50118.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Jan-2022 13:41:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 500-0083302-007
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:01 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarellop

Date: 18-Jan-2022 15:31:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.520	1.523	-0.003	99	525523	100.0	106.5	
2 Chloromethane	50	1.719	1.716	0.003	99	570980	100.0	101.2	
3 Vinyl chloride	62	1.829	1.832	-0.003	100	545131	100.0	104.1	
4 Butadiene	39	1.849	1.849	0.000	96	580071	100.0	102.7	
5 Bromomethane	94	2.124	2.127	-0.003	92	340436	100.0	91.7	
6 Chloroethane	64	2.221	2.232	-0.011	98	318223	100.0	100.8	
7 Dichlorofluoromethane	67	2.436	2.442	-0.006	100	756024	100.0	104.7	
8 Trichlorofluoromethane	101	2.476	2.476	0.000	96	671083	100.0	103.9	
11 Ethyl ether	59	2.759	2.757	0.002	92	261169	100.0	99.9	
12 Acrolein	56	2.879	2.879	0.000	98	1194468	4000.0	3914.9	
13 1,1-Dichloroethene	96	2.964	2.964	0.000	98	352143	100.0	99.9	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.981	2.981	0.000	97	397170	100.0	97.6	
15 Acetone	43	3.029	3.023	0.006	97	87737	100.0	102.3	
16 Iodomethane	142	3.105	3.105	0.000	98	569611	100.0	97.6	
17 Carbon disulfide	76	3.165	3.168	-0.003	100	1242422	100.0	99.9	
20 3-Chloro-1-propene	76	3.304	3.304	0.000	95	204875	100.0	95.8	
21 Methyl acetate	43	3.327	3.327	0.000	97	370896	200.0	209.4	
22 Methylene Chloride	84	3.417	3.417	0.000	93	360061	100.0	97.4	
* 23 TBA-d9 (IS)	65	3.463	3.460	0.003	96	237948	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.539	3.531	0.008	98	299437	1000.0	1022.2	
25 Acrylonitrile	53	3.650	3.650	0.000	98	951314	1000.0	1014.0	
26 trans-1,2-Dichloroethene	96	3.673	3.675	-0.003	84	372955	100.0	98.2	
27 Methyl tert-butyl ether	73	3.678	3.675	0.003	91	907144	100.0	99.6	
28 Hexane	57	3.928	3.928	0.000	95	568266	100.0	98.7	
29 1,1-Dichloroethane	63	4.069	4.070	-0.001	97	623629	100.0	99.5	
30 Vinyl acetate	43	4.115	4.118	-0.003	99	583634	100.0	107.4	
35 cis-1,2-Dichloroethene	96	4.625	4.625	0.000	97	379239	100.0	98.3	
34 2,2-Dichloropropane	41	4.625	4.628	-0.003	67	265513	100.0	93.0	
36 2-Butanone (MEK)	43	4.639	4.637	0.002	52	113645	100.0	108.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.863	4.861	0.002	97	166545	100.0	98.5	
41 Tetrahydrofuran	42	4.909	4.909	0.000	86	153200	200.0	203.4	
42 Chloroform	83	4.937	4.940	-0.003	98	570219	100.0	98.5	
\$ 43 Dibromofluoromethane	113	5.096	5.096	0.000	76	297403	100.0	97.5	
44 1,1,1-Trichloroethane	97	5.124	5.127	-0.003	97	550152	100.0	99.4	
45 Cyclohexane	56	5.184	5.184	0.000	92	712617	100.0	97.1	
47 1,1-Dichloropropene	75	5.289	5.292	-0.003	91	457057	100.0	98.1	
46 Carbon tetrachloride	117	5.294	5.292	0.002	90	503885	100.0	98.5	
49 Isobutyl alcohol	43	5.394	5.391	0.003	97	309575	2500.0	2575.5	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.442	5.442	0.000	98	310868	100.0	98.2	
50 Benzene	78	5.501	5.502	-0.001	96	1393090	100.0	99.8	
51 1,2-Dichloroethane	62	5.518	5.521	-0.003	78	381776	100.0	97.0	
54 n-Heptane	43	5.762	5.765	-0.003	93	577868	100.0	97.0	
* 55 Fluorobenzene (IS)	96	5.785	5.785	0.000	96	677992	53.4	53.4	a
57 Trichloroethene	130	6.176	6.174	0.002	97	348311	100.0	98.2	
59 Methylcyclohexane	83	6.383	6.383	0.000	95	716933	100.0	97.6	
60 1,2-Dichloropropane	63	6.423	6.423	0.000	93	332526	100.0	100.7	
* 62 1,4-Dioxane-d8	96	6.502	6.502	0.000	80	16719	1068.6	1068.6	
63 Dibromomethane	93	6.551	6.551	0.000	92	174804	100.0	101.4	
65 1,4-Dioxane	88	6.559	6.559	0.000	50	48267	2000.0	2128.5	
66 Dichlorobromomethane	83	6.718	6.721	-0.003	98	417116	100.0	99.2	
68 2-Chloroethyl vinyl ether	63	7.061	7.058	0.003	93	113664	100.0	105.7	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	91	511760	100.0	97.8	
70 4-Methyl-2-pentanone (MIBK)	43	7.404	7.404	0.000	97	273408	100.0	98.2	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	84	1200900	100.0	96.2	
72 Toluene	92	7.620	7.623	-0.003	88	876243	100.0	97.9	
73 trans-1,3-Dichloropropene	75	7.881	7.883	-0.003	96	448037	100.0	96.3	
74 Ethyl methacrylate	69	7.991	7.991	0.000	92	358990	100.0	99.2	
75 1,1,2-Trichloroethane	97	8.105	8.107	-0.002	94	239368	100.0	95.7	
76 Tetrachloroethene	166	8.280	8.283	-0.003	95	362708	100.0	96.9	
77 1,3-Dichloropropane	76	8.314	8.314	0.000	94	419852	100.0	96.8	
78 2-Hexanone	43	8.414	8.414	0.000	97	183281	100.0	98.9	
80 Chlorodibromomethane	129	8.589	8.589	0.000	87	302874	100.0	97.7	
81 Ethylene Dibromide	107	8.734	8.740	-0.006	100	243917	100.0	97.7	
* 82 Chlorobenzene-d5	117	9.327	9.330	-0.003	86	513098	53.4	53.4	
84 Chlorobenzene	112	9.366	9.366	0.000	95	943046	100.0	98.6	
85 1,1,1,2-Tetrachloroethane	131	9.471	9.474	-0.003	95	358165	100.0	96.0	
86 Ethylbenzene	106	9.511	9.511	0.000	98	539045	100.0	99.6	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	99	1299168	100.0	98.3	
88 o-Xylene	91	10.140	10.141	-0.001	93	1391408	100.0	98.9	
89 Styrene	104	10.157	10.158	-0.001	95	1145146	100.0	101.0	
90 Bromoform	173	10.362	10.359	0.003	97	201433	100.0	98.8	
91 Isopropylbenzene	105	10.554	10.557	-0.003	97	1851439	100.0	98.5	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	469423	100.0	96.4	
95 Bromobenzene	156	10.869	10.869	0.000	94	427373	100.0	97.7	
96 1,1,2,2-Tetrachloroethane	83	10.872	10.875	-0.003	76	346895	100.0	95.6	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	89	100800	100.0	94.8	
98 trans-1,4-Dichloro-2-butene	53	10.934	10.935	0.000	91	105549	100.0	95.6	
99 N-Propylbenzene	91	10.985	10.986	-0.001	98	2173698	100.0	98.3	
100 2-Chlorotoluene	91	11.068	11.068	0.000	97	1259410	100.0	99.0	
101 1,3,5-Trimethylbenzene	105	11.161	11.161	0.000	93	1639208	100.0	99.7	
102 4-Chlorotoluene	91	11.175	11.176	-0.001	94	1481698	100.0	97.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.476	11.473	0.003	91	1468779	100.0	98.5	
106 1,2,4-Trimethylbenzene	105	11.519	11.519	0.000	94	1674730	100.0	100.3	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	2237528	100.0	99.1	
108 1,3-Dichlorobenzene	146	11.777	11.777	0.000	98	946151	100.0	99.5	
109 4-Isopropyltoluene	119	11.813	11.811	0.002	95	1967161	100.0	100.3	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	327740	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.859	11.859	0.000	96	959589	100.0	98.6	
114 n-Butylbenzene	91	12.171	12.168	0.003	95	1792499	100.0	98.7	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	97	919487	100.0	100.7	
116 1,2-Dibromo-3-Chloropropane	75	12.829	12.829	0.000	64	63672	100.0	99.8	
118 1,2,4-Trichlorobenzene	180	13.469	13.470	-0.001	94	575832	100.0	100.9	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	96	341632	100.0	97.1	
120 Naphthalene	128	13.657	13.657	0.000	99	1117837	100.0	102.7	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	94	461747	100.0	102.4	
S 124 Xylenes, Total	100				0			197.2	
S 125 1,2-Dichloroethene, Total	96				0			196.5	
S 128 Trimethylbenzene, Total	1				0			199.9	
S 127 Trihalomethanes, Total	1				0			394.1	
S 126 1,3-Dichloropropene, Total	1				0			194.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624GASWK_01335	Amount Added: 5.00	Units: uL	
8260/624ACRWK_00645	Amount Added: 5.00	Units: uL	
8260/624KETWK_00569	Amount Added: 5.00	Units: uL	
8260/624MEGWK_01267	Amount Added: 5.00	Units: uL	
8260VA/2CEVE_00570	Amount Added: 5.00	Units: uL	
8260 LOWSS1_00186	Amount Added: 10.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD50118.D

Injection Date: 18-Jan-2022 13:41:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD5

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

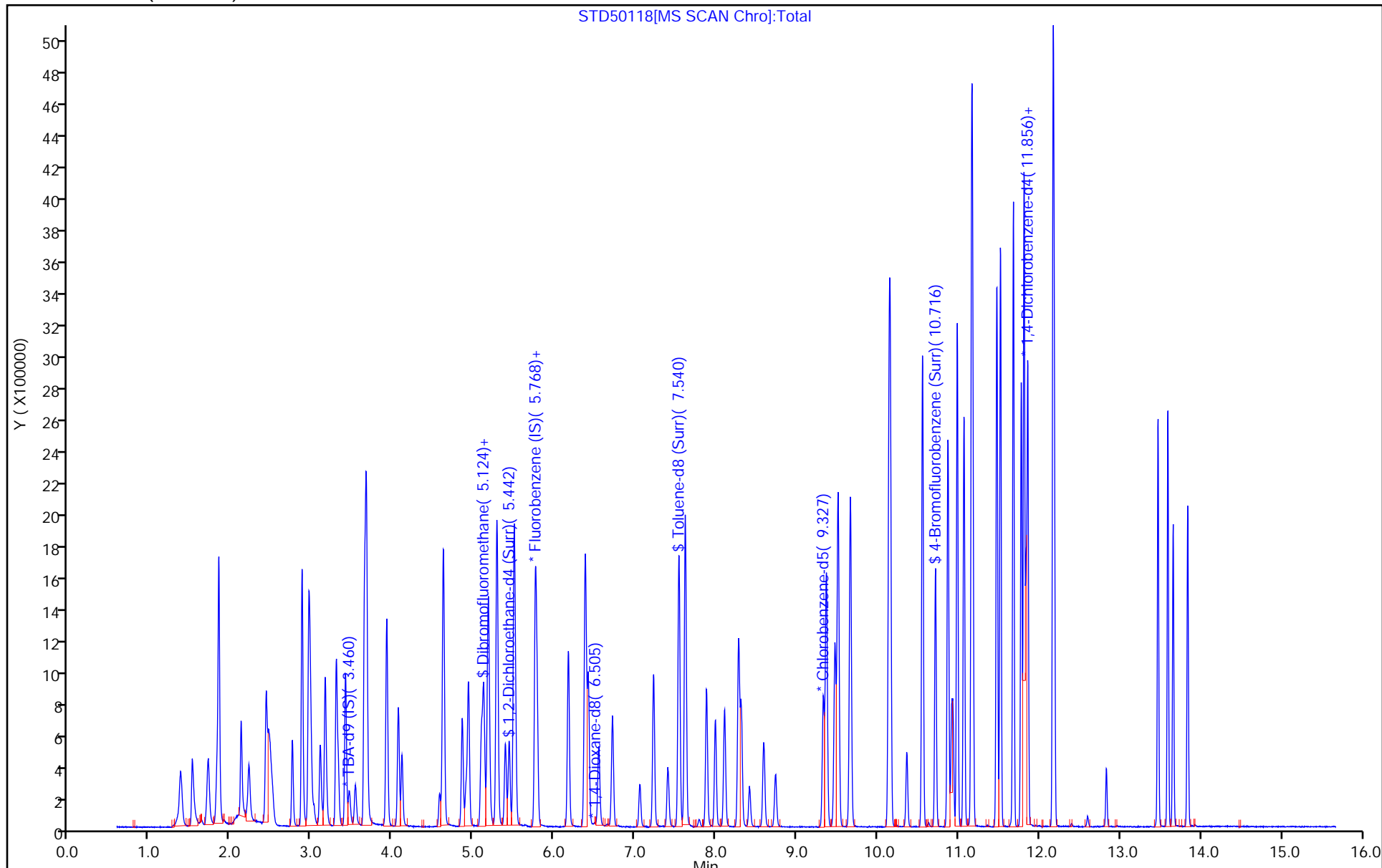
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



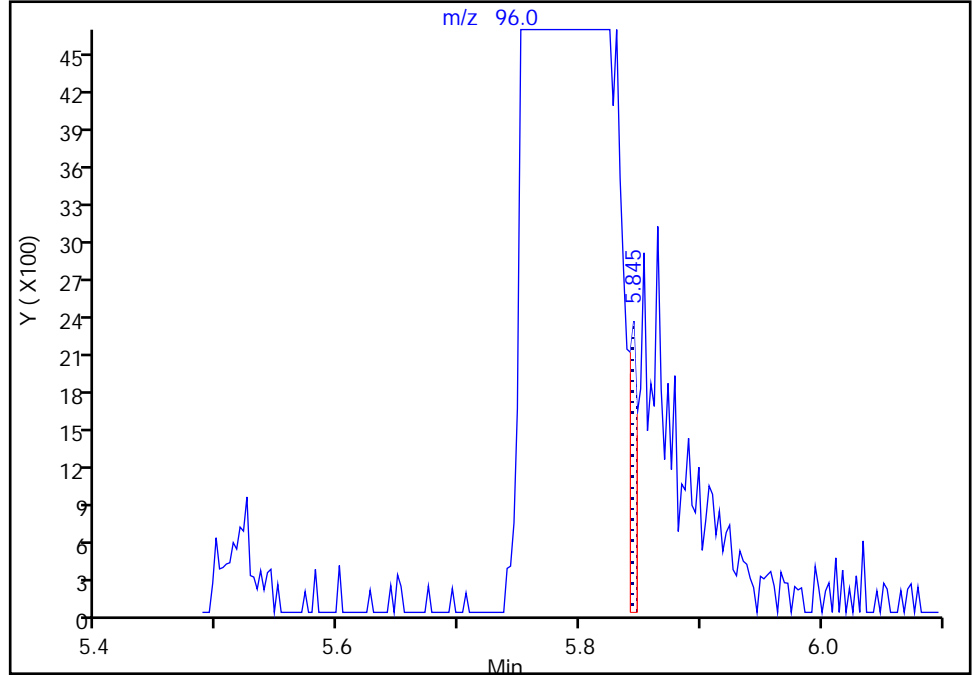
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD50118.D
Injection Date: 18-Jan-2022 13:41:30 Instrument ID: CMS16
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

* 55 Fluorobenzene (IS), CAS: 462-06-6
Signal: 1

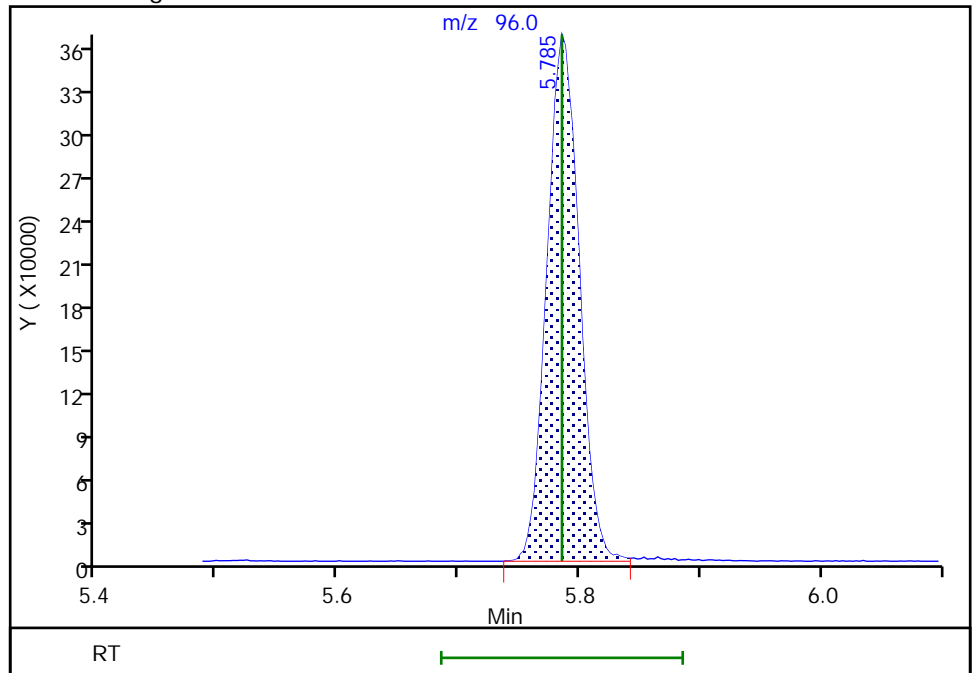
RT: 5.84
Area: 1015
Amount: 53.430000
Amount Units: UG/L

Processing Integration Results



RT: 5.79
Area: 677992
Amount: 53.430000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 15:31:23
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD60118.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Jan-2022 14:07:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD6
 Misc. Info.: 500-0083302-008
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:04 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 15:33:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.523	1.523	0.000	99	864362	150.0	173.1	
2 Chloromethane	50	1.716	1.716	0.000	99	909217	150.0	159.0	
3 Vinyl chloride	62	1.829	1.832	-0.003	100	857635	150.0	161.9	
4 Butadiene	39	1.849	1.849	0.000	96	933609	150.0	163.3	
5 Bromomethane	94	2.124	2.127	-0.003	90	545200	150.0	145.2	
6 Chloroethane	64	2.221	2.232	-0.011	99	495927	150.0	155.3	
7 Dichlorofluoromethane	67	2.436	2.442	-0.006	100	1179134	150.0	161.5	
8 Trichlorofluoromethane	101	2.470	2.476	-0.006	97	1058508	150.0	161.9	
11 Ethyl ether	59	2.762	2.757	0.005	91	413053	150.0	156.2	
12 Acrolein	56	2.879	2.879	0.000	96	1949044	6000.0	6327.2	
13 1,1-Dichloroethene	96	2.966	2.964	0.002	98	564971	150.0	158.4	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.978	2.981	-0.003	96	636575	150.0	154.6	
15 Acetone	43	3.029	3.023	0.006	98	131806	150.0	152.0	
16 Iodomethane	142	3.105	3.105	0.000	99	920484	150.0	156.0	
17 Carbon disulfide	76	3.168	3.168	0.000	100	1976455	150.0	157.1	
20 3-Chloro-1-propene	76	3.304	3.304	0.000	94	328216	150.0	151.7	
21 Methyl acetate	43	3.329	3.327	0.002	98	592296	300.0	330.5	
22 Methylene Chloride	84	3.417	3.417	0.000	94	580904	150.0	155.4	
* 23 TBA-d9 (IS)	65	3.463	3.460	0.003	96	256352	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.542	3.531	0.011	98	472225	1500.0	1496.3	
25 Acrylonitrile	53	3.653	3.650	0.003	99	1499586	1500.0	1579.9	
26 trans-1,2-Dichloroethene	96	3.673	3.675	-0.002	83	603213	150.0	157.0	
27 Methyl tert-butyl ether	73	3.678	3.675	0.003	91	1454567	150.0	157.9	
28 Hexane	57	3.928	3.928	0.000	94	907037	150.0	155.8	
29 1,1-Dichloroethane	63	4.072	4.070	0.002	97	997261	150.0	157.3	
30 Vinyl acetate	43	4.115	4.118	-0.003	99	910511	150.0	165.6	
35 cis-1,2-Dichloroethene	96	4.628	4.625	0.003	97	613811	150.0	157.2	
34 2,2-Dichloropropane	41	4.625	4.628	-0.003	66	416065	150.0	144.0	
36 2-Butanone (MEK)	43	4.637	4.637	0.000	44	175438	150.0	164.8	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.861	4.861	0.000	96	263826	150.0	154.3	
41 Tetrahydrofuran	42	4.909	4.909	0.000	87	243289	300.0	321.1	
42 Chloroform	83	4.937	4.940	-0.003	97	911484	150.0	155.6	
\$ 43 Dibromofluoromethane	113	5.096	5.096	0.000	86	481251	150.0	156.0	
44 1,1,1-Trichloroethane	97	5.124	5.127	-0.003	98	880313	150.0	157.2	
45 Cyclohexane	56	5.184	5.184	0.000	93	1161080	150.0	156.3	
47 1,1-Dichloropropene	75	5.289	5.292	-0.003	90	728360	150.0	154.5	
46 Carbon tetrachloride	117	5.294	5.292	0.002	91	831489	150.0	160.6	
49 Isobutyl alcohol	43	5.394	5.391	0.003	96	496844	3750.0	3836.8	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.442	5.442	0.000	98	491389	150.0	153.4	
50 Benzene	78	5.504	5.502	0.002	96	2220157	150.0	157.2	
51 1,2-Dichloroethane	62	5.521	5.521	0.000	89	612290	150.0	153.8	
54 n-Heptane	43	5.765	5.765	0.000	92	923629	150.0	153.2	
* 55 Fluorobenzene (IS)	96	5.788	5.785	0.003	96	685891	53.4	53.4	
57 Trichloroethene	130	6.174	6.174	0.000	98	554695	150.0	154.6	
59 Methylcyclohexane	83	6.386	6.383	0.003	94	1154987	150.0	155.4	
60 1,2-Dichloropropane	63	6.420	6.423	-0.003	92	523856	150.0	156.7	
* 62 1,4-Dioxane-d8	96	6.502	6.502	0.000	80	20903	1068.6	1068.6	
63 Dibromomethane	93	6.548	6.551	-0.003	90	274847	150.0	157.6	
65 1,4-Dioxane	88	6.562	6.559	0.003	52	73660	3000.0	2598.1	
66 Dichlorobromomethane	83	6.718	6.721	-0.003	98	663502	150.0	156.0	
68 2-Chloroethyl vinyl ether	63	7.061	7.058	0.003	92	173806	150.0	159.4	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	91	816690	150.0	153.9	
70 4-Methyl-2-pentanone (MIBK)	43	7.410	7.404	0.006	97	426664	150.0	151.2	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	84	1931364	150.0	152.6	
72 Toluene	92	7.620	7.623	-0.003	88	1398349	150.0	154.1	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	97	722751	150.0	153.2	
74 Ethyl methacrylate	69	7.991	7.991	0.000	91	592851	150.0	161.6	
75 1,1,2-Trichloroethane	97	8.110	8.107	0.003	92	382113	150.0	150.7	
76 Tetrachloroethene	166	8.283	8.283	0.000	95	591825	150.0	156.1	
77 1,3-Dichloropropane	76	8.314	8.314	0.000	94	676881	150.0	154.0	
78 2-Hexanone	43	8.414	8.414	0.000	98	299864	150.0	159.6	
80 Chlorodibromomethane	129	8.589	8.589	0.000	87	486314	150.0	154.7	
81 Ethylene Dibromide	107	8.737	8.740	-0.003	99	390908	150.0	154.5	
* 82 Chlorobenzene-d5	117	9.327	9.330	-0.003	86	520066	53.4	53.4	
84 Chlorobenzene	112	9.364	9.366	-0.002	96	1530325	150.0	157.9	
85 1,1,1,2-Tetrachloroethane	131	9.471	9.474	-0.003	94	595133	150.0	157.4	
86 Ethylbenzene	106	9.511	9.511	0.000	98	873841	150.0	159.3	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	99	2127144	150.0	158.7	
88 o-Xylene	91	10.140	10.141	-0.001	93	2320939	150.0	162.8	
89 Styrene	104	10.157	10.158	-0.001	95	1905752	150.0	165.8	
90 Bromoform	173	10.362	10.359	0.003	97	336312	150.0	162.7	
91 Isopropylbenzene	105	10.554	10.557	-0.003	98	3099201	150.0	155.4	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	784985	150.0	151.9	
95 Bromobenzene	156	10.869	10.869	0.000	95	719646	150.0	155.0	
96 1,1,2,2-Tetrachloroethane	83	10.872	10.875	-0.003	76	569230	150.0	147.9	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	88	169126	150.0	149.8	
98 trans-1,4-Dichloro-2-butene	53	10.937	10.935	0.003	93	172843	150.0	147.5	
99 N-Propylbenzene	91	10.985	10.986	-0.001	98	3633064	150.0	154.8	
100 2-Chlorotoluene	91	11.068	11.068	0.000	98	2092530	150.0	155.0	
101 1,3,5-Trimethylbenzene	105	11.164	11.161	0.003	92	2817735	150.0	161.4	
102 4-Chlorotoluene	91	11.178	11.176	0.002	94	2521118	150.0	156.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.476	11.473	0.003	90	2514494	150.0	158.9	
106 1,2,4-Trimethylbenzene	105	11.521	11.519	0.002	94	2885730	150.0	162.8	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	3825904	150.0	159.6	
108 1,3-Dichlorobenzene	146	11.777	11.777	0.000	98	1616234	150.0	160.1	
109 4-Isopropyltoluene	119	11.811	11.811	0.000	96	3415340	150.0	164.1	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	347829	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.859	11.859	0.000	95	1647142	150.0	159.4	
114 n-Butylbenzene	91	12.171	12.168	0.003	95	3086229	150.0	160.2	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	98	1617166	150.0	166.8	
116 1,2-Dibromo-3-Chloropropane	75	12.831	12.829	0.002	61	106248	150.0	157.0	
118 1,2,4-Trichlorobenzene	180	13.469	13.470	-0.001	94	971826	150.0	160.5	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	96	582085	150.0	155.9	
120 Naphthalene	128	13.657	13.657	0.000	99	1841751	150.0	159.4	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	94	748263	150.0	156.3	
S 124 Xylenes, Total	100				0			321.5	
S 125 1,2-Dichloroethene, Total	96				0			314.2	
S 128 Trimethylbenzene, Total	1				0			324.2	
S 127 Trihalomethanes, Total	1				0			629.1	
S 126 1,3-Dichloropropene, Total	1				0			307.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624GASWK_01335	Amount Added: 7.50	Units: uL	
8260/624ACRWK_00645	Amount Added: 7.50	Units: uL	
8260/624KETWK_00569	Amount Added: 7.50	Units: uL	
8260/624MEGWK_01267	Amount Added: 7.50	Units: uL	
8260VA/2CEVE_00570	Amount Added: 7.50	Units: uL	
8260 LOWSS1_00186	Amount Added: 15.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD60118.D

Injection Date: 18-Jan-2022 14:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD6

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

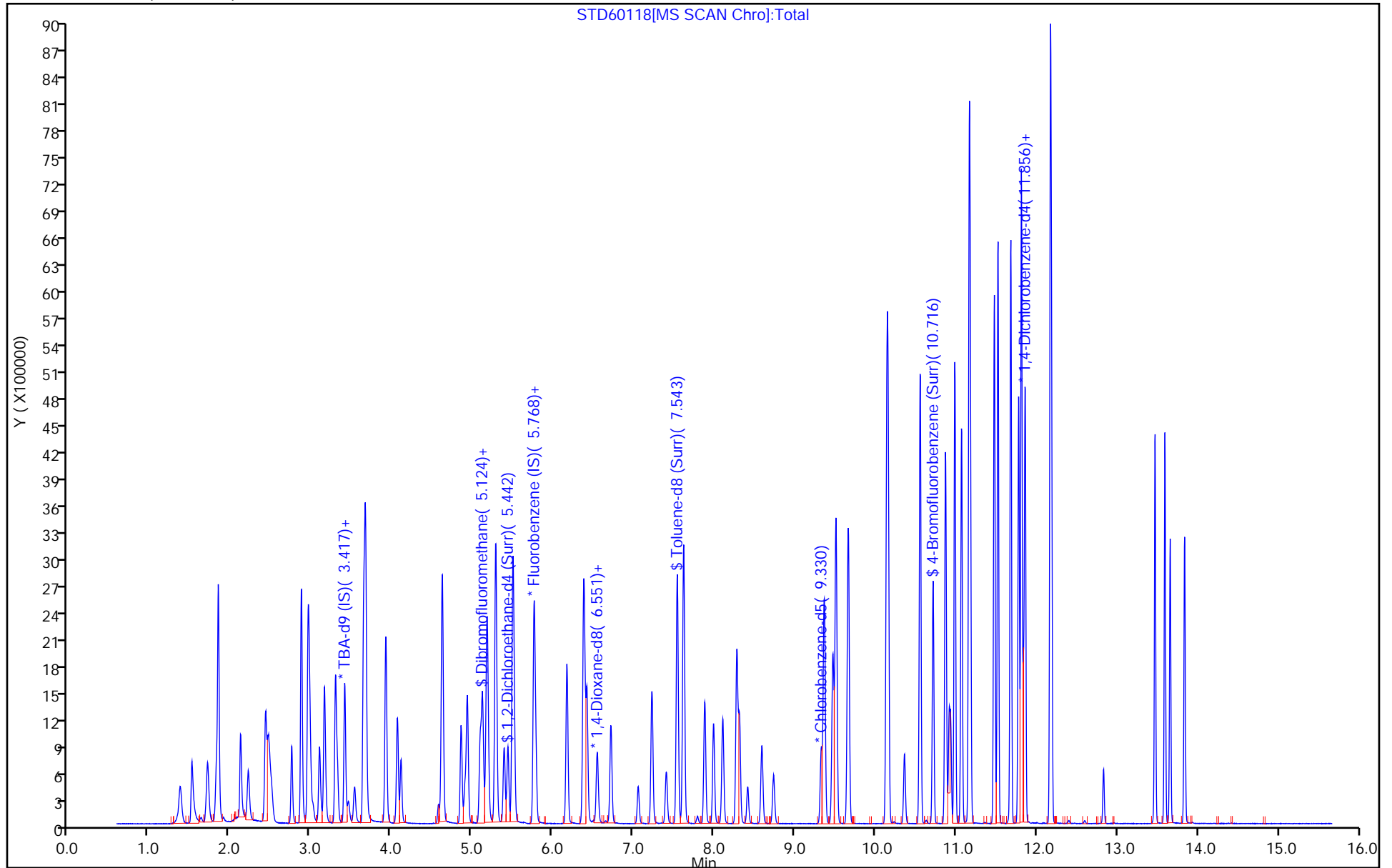
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD60118.D
Injection Date: 18-Jan-2022 14:07:30 Instrument ID: CMS16
Lims ID: STD6
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

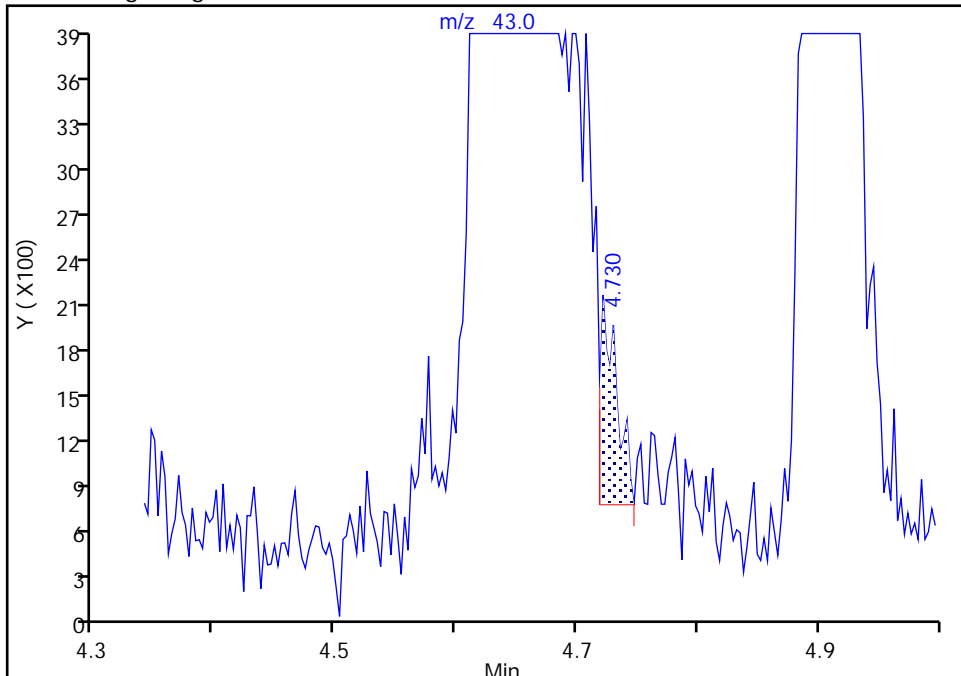
ALS Bottle#: 7 Worklist Smp#: 8
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

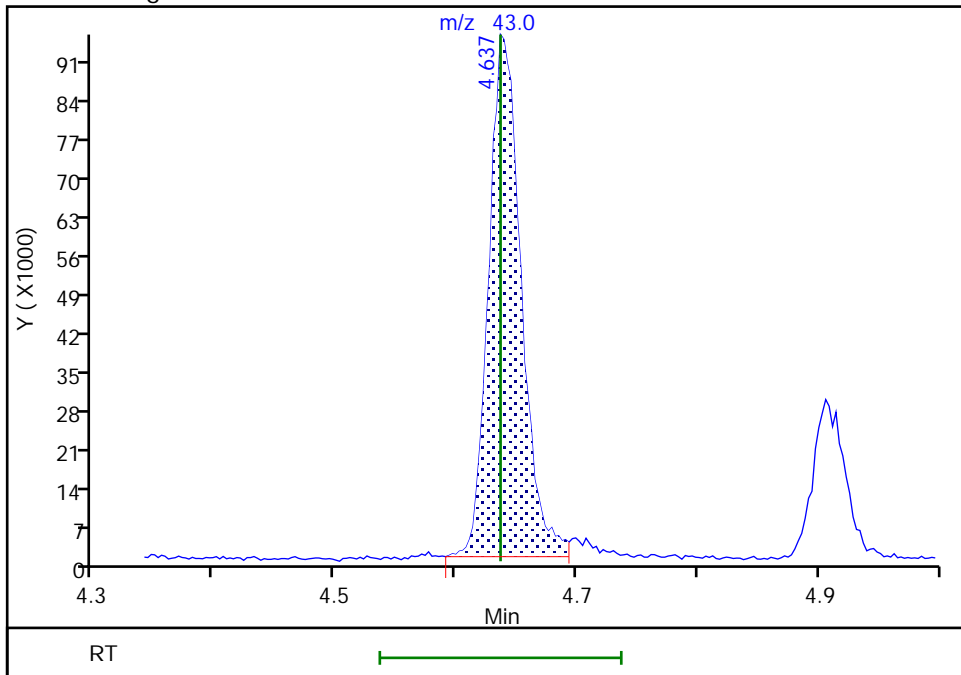
RT: 4.73
Area: 1268
Amount: 1.456195
Amount Units: UG/L

Processing Integration Results



RT: 4.64
Area: 175438
Amount: 164.8412
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD70118.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Jan-2022 14:32:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD7
 Misc. Info.: 500-0083302-009
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:07 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 15:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.526	1.523	0.003	100	1113164	200.0	213.7	
2 Chloromethane	50	1.719	1.716	0.003	99	1157721	200.0	194.0	
3 Vinyl chloride	62	1.832	1.832	0.000	100	1107517	200.0	200.5	
4 Butadiene	39	1.852	1.849	0.003	97	1215349	200.0	203.9	
5 Bromomethane	94	2.130	2.127	0.003	91	772345	200.0	197.2	
6 Chloroethane	64	2.229	2.232	-0.003	99	640333	200.0	192.3	
7 Dichlorofluoromethane	67	2.442	2.442	0.000	99	1506164	200.0	197.7	
8 Trichlorofluoromethane	101	2.484	2.476	0.008	96	1379200	200.0	202.3	
11 Ethyl ether	59	2.760	2.757	0.003	91	541719	200.0	196.4	
12 Acrolein	56	2.881	2.879	0.002	96	2510060	8000.0	7817.3	
13 1,1-Dichloroethene	96	2.967	2.964	0.003	98	740624	200.0	199.1	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.981	2.981	0.000	94	819304	200.0	190.8	
15 Acetone	43	3.026	3.023	0.003	97	165002	200.0	182.4	
16 Iodomethane	142	3.108	3.105	0.003	99	1204228	200.0	195.6	
17 Carbon disulfide	76	3.171	3.168	0.003	100	2609999	200.0	199.0	
20 3-Chloro-1-propene	76	3.307	3.304	0.003	94	421238	200.0	186.7	
21 Methyl acetate	43	3.327	3.327	0.000	98	739674	400.0	395.8	
22 Methylene Chloride	84	3.420	3.417	0.003	93	762596	200.0	195.6	
* 23 TBA-d9 (IS)	65	3.460	3.460	0.000	95	231567	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.534	3.531	0.003	98	562931	2000.0	1974.6	
25 Acrylonitrile	53	3.653	3.650	0.003	98	1887617	2000.0	1906.8	
26 trans-1,2-Dichloroethene	96	3.675	3.675	0.000	82	795379	200.0	198.5	
27 Methyl tert-butyl ether	73	3.678	3.675	0.003	90	1833629	200.0	190.8	
28 Hexane	57	3.928	3.928	0.000	94	1210984	200.0	199.4	
29 1,1-Dichloroethane	63	4.072	4.070	0.002	97	1327201	200.0	200.7	
30 Vinyl acetate	43	4.118	4.118	0.000	99	1238753	200.0	216.0	
35 cis-1,2-Dichloroethene	96	4.628	4.625	0.003	99	803923	200.0	197.4	
34 2,2-Dichloropropane	41	4.628	4.628	0.000	65	532989	200.0	176.9	
36 2-Butanone (MEK)	43	4.642	4.637	0.005	52	225747	200.0	203.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.861	4.861	0.000	97	349061	200.0	195.7	
41 Tetrahydrofuran	42	4.909	4.909	0.000	85	298538	400.0	378.3	
42 Chloroform	83	4.937	4.940	-0.003	97	1221097	200.0	199.9	
\$ 43 Dibromofluoromethane	113	5.096	5.096	0.000	86	647423	200.0	201.2	
44 1,1,1-Trichloroethane	97	5.127	5.127	0.000	97	1155056	200.0	197.8	
45 Cyclohexane	56	5.187	5.184	0.003	92	1507861	200.0	194.6	
47 1,1-Dichloropropene	75	5.289	5.292	-0.003	90	983274	200.0	199.9	
46 Carbon tetrachloride	117	5.295	5.292	0.003	91	1092218	200.0	202.3	
49 Isobutyl alcohol	43	5.394	5.391	0.003	96	615312	5000.0	5260.2	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.445	5.442	0.003	98	650660	200.0	194.8	
50 Benzene	78	5.504	5.502	0.002	96	2980434	200.0	202.4	
51 1,2-Dichloroethane	62	5.521	5.521	0.000	82	807207	200.0	194.4	
54 n-Heptane	43	5.768	5.765	0.003	92	1240480	200.0	197.3	
* 55 Fluorobenzene (IS)	96	5.788	5.785	0.003	95	715386	53.4	53.4	
57 Trichloroethene	130	6.176	6.174	0.002	97	739712	200.0	197.7	
59 Methylcyclohexane	83	6.383	6.383	0.000	94	1518297	200.0	195.8	
60 1,2-Dichloropropane	63	6.420	6.423	-0.003	92	694715	200.0	199.3	
* 62 1,4-Dioxane-d8	96	6.505	6.502	0.003	77	17659	1068.6	1068.6	
63 Dibromomethane	93	6.548	6.551	-0.003	95	358340	200.0	197.0	
65 1,4-Dioxane	88	6.562	6.559	0.003	51	98373	4000.0	4107.2	
66 Dichlorobromomethane	83	6.721	6.721	0.000	98	870891	200.0	196.4	
68 2-Chloroethyl vinyl ether	63	7.061	7.058	0.003	91	231210	200.0	205.0	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	91	1078670	200.0	196.5	
70 4-Methyl-2-pentanone (MIBK)	43	7.404	7.404	0.000	97	541656	200.0	185.5	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	84	2621640	200.0	200.3	
72 Toluene	92	7.623	7.623	0.000	88	1888976	200.0	201.3	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	96	946961	200.0	194.1	
74 Ethyl methacrylate	69	7.991	7.991	0.000	91	760575	200.0	200.3	
75 1,1,2-Trichloroethane	97	8.110	8.107	0.003	92	500157	200.0	190.7	
76 Tetrachloroethene	166	8.283	8.283	0.000	96	793330	200.0	202.2	
77 1,3-Dichloropropane	76	8.314	8.314	0.000	93	882345	200.0	194.1	
78 2-Hexanone	43	8.417	8.414	0.002	98	386740	200.0	199.0	
80 Chlorodibromomethane	129	8.589	8.589	0.000	89	639445	200.0	196.7	
81 Ethylene Dibromide	107	8.737	8.740	-0.003	98	504397	200.0	192.7	
* 82 Chlorobenzene-d5	117	9.327	9.330	-0.003	87	538014	53.4	53.4	
84 Chlorobenzene	112	9.366	9.366	0.000	95	2054257	200.0	204.9	
85 1,1,1,2-Tetrachloroethane	131	9.477	9.474	0.003	95	792815	200.0	202.7	
86 Ethylbenzene	106	9.514	9.511	0.003	98	1180703	200.0	208.0	
87 m-Xylene & p-Xylene	91	9.664	9.664	0.000	99	2884710	200.0	208.1	
88 o-Xylene	91	10.143	10.141	0.002	93	3112187	200.0	211.0	
89 Styrene	104	10.158	10.158	0.000	94	2594605	200.0	218.2	
90 Bromoform	173	10.362	10.359	0.003	98	433875	200.0	202.9	
91 Isopropylbenzene	105	10.555	10.557	-0.002	98	4184325	200.0	201.6	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	1063969	200.0	197.8	
95 Bromobenzene	156	10.872	10.869	0.003	93	968113	200.0	200.3	
96 1,1,2,2-Tetrachloroethane	83	10.875	10.875	0.000	76	711883	200.0	177.7	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	89	211768	200.0	180.2	
98 trans-1,4-Dichloro-2-butene	53	10.935	10.935	0.000	92	218277	200.0	179.0	
99 N-Propylbenzene	91	10.988	10.986	0.002	98	4863540	200.0	199.1	
100 2-Chlorotoluene	91	11.071	11.068	0.003	97	2796951	200.0	199.1	
101 1,3,5-Trimethylbenzene	105	11.164	11.161	0.003	92	3766274	200.0	207.3	
102 4-Chlorotoluene	91	11.178	11.176	0.002	94	3407369	200.0	203.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.476	11.473	0.003	91	3395219	200.0	206.1	
106 1,2,4-Trimethylbenzene	105	11.521	11.519	0.002	94	3840875	200.0	208.1	
107 sec-Butylbenzene	105	11.680	11.680	0.000	94	5083008	200.0	203.7	
108 1,3-Dichlorobenzene	146	11.780	11.777	0.003	99	2165648	200.0	206.1	
109 4-Isopropyltoluene	119	11.814	11.811	0.003	92	4564800	200.0	210.7	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	362090	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.859	11.859	0.000	96	2210029	200.0	205.5	
114 n-Butylbenzene	91	12.171	12.168	0.003	95	4094613	200.0	204.2	
115 1,2-Dichlorobenzene	146	12.185	12.185	0.000	98	2139450	200.0	212.0	
116 1,2-Dibromo-3-Chloropropane	75	12.829	12.829	0.000	64	130343	200.0	185.0	
118 1,2,4-Trichlorobenzene	180	13.470	13.470	0.000	91	1265849	200.0	200.8	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	95	772469	200.0	198.8	
120 Naphthalene	128	13.657	13.657	0.000	99	2281999	200.0	189.7	
121 1,2,3-Trichlorobenzene	180	13.835	13.835	0.000	94	938961	200.0	188.4	
S 124 Xylenes, Total	100				0			419.1	
S 125 1,2-Dichloroethene, Total	96				0			395.9	
S 128 Trimethylbenzene, Total	1				0			415.4	
S 127 Trihalomethanes, Total	1				0			795.8	
S 126 1,3-Dichloropropene, Total	1				0			390.6	

QC Flag Legend

Processing Flags

Reagents:

8260/624GASWK_01335	Amount Added: 10.00	Units: uL	
8260/624ACRWK_00645	Amount Added: 10.00	Units: uL	
8260/624KETWK_00569	Amount Added: 10.00	Units: uL	
8260/624MEGWK_01267	Amount Added: 10.00	Units: uL	
8260VA/2CEVE_00570	Amount Added: 10.00	Units: uL	
8260 LOWSS1_00186	Amount Added: 20.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD70118.D

Injection Date: 18-Jan-2022 14:32:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD7

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

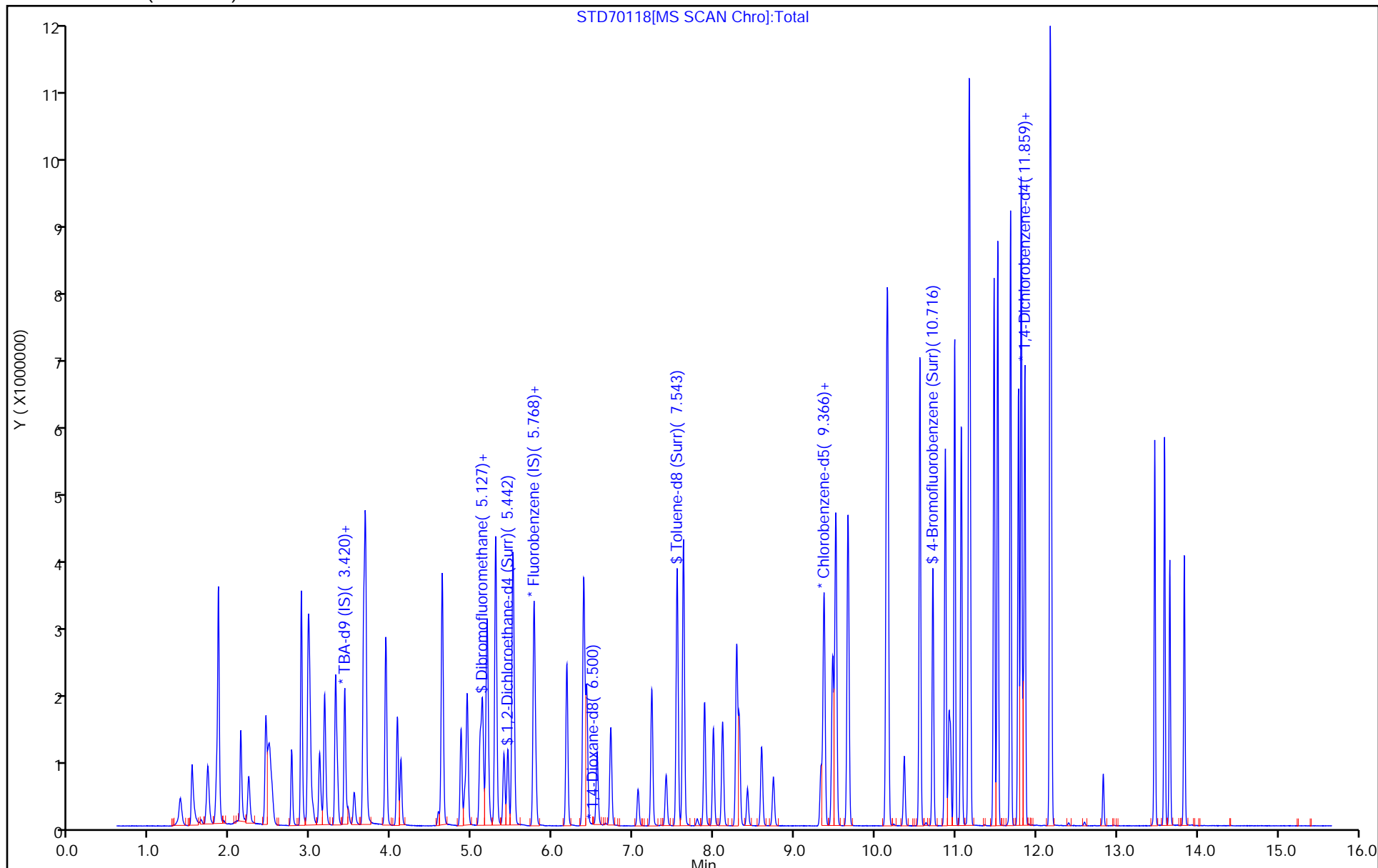
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Calibration

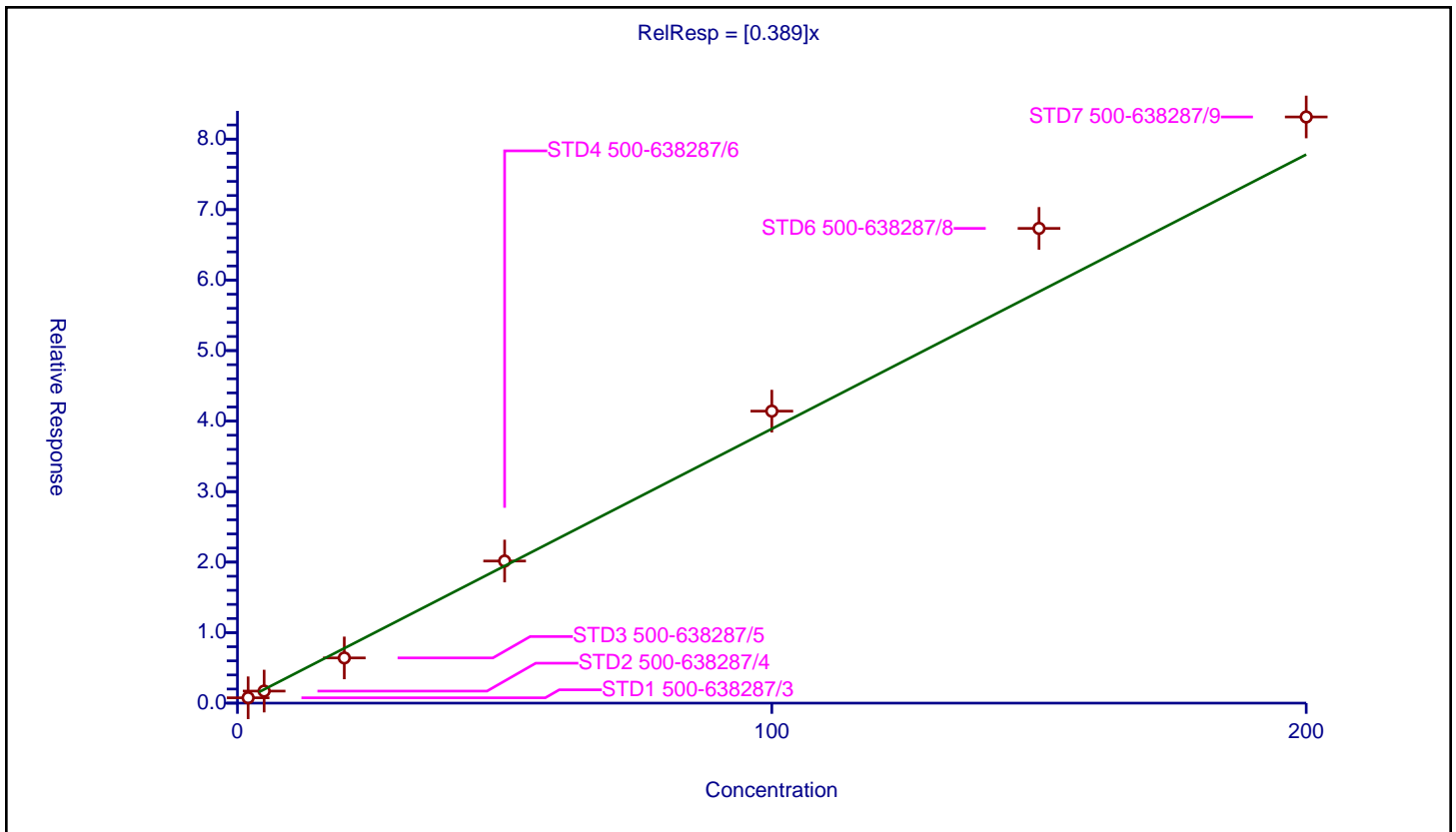
/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.389

Error Coefficients	
Standard Error:	623000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.757425	53.43	687499.0	0.378712	Y
2	STD2 500-638287/4	5.0	1.710413	53.43	660404.0	0.342083	Y
3	STD3 500-638287/5	20.0	6.412937	53.43	652114.0	0.320647	Y
4	STD4 500-638287/6	50.0	20.15458	53.43	661329.0	0.403092	Y
5	STD5 500-638287/7	100.0	41.414491	53.43	677992.0	0.414145	Y
6	STD6 500-638287/8	150.0	67.332654	53.43	685891.0	0.448884	Y
7	STD7 500-638287/9	200.0	83.138826	53.43	715386.0	0.415694	Y



Calibration

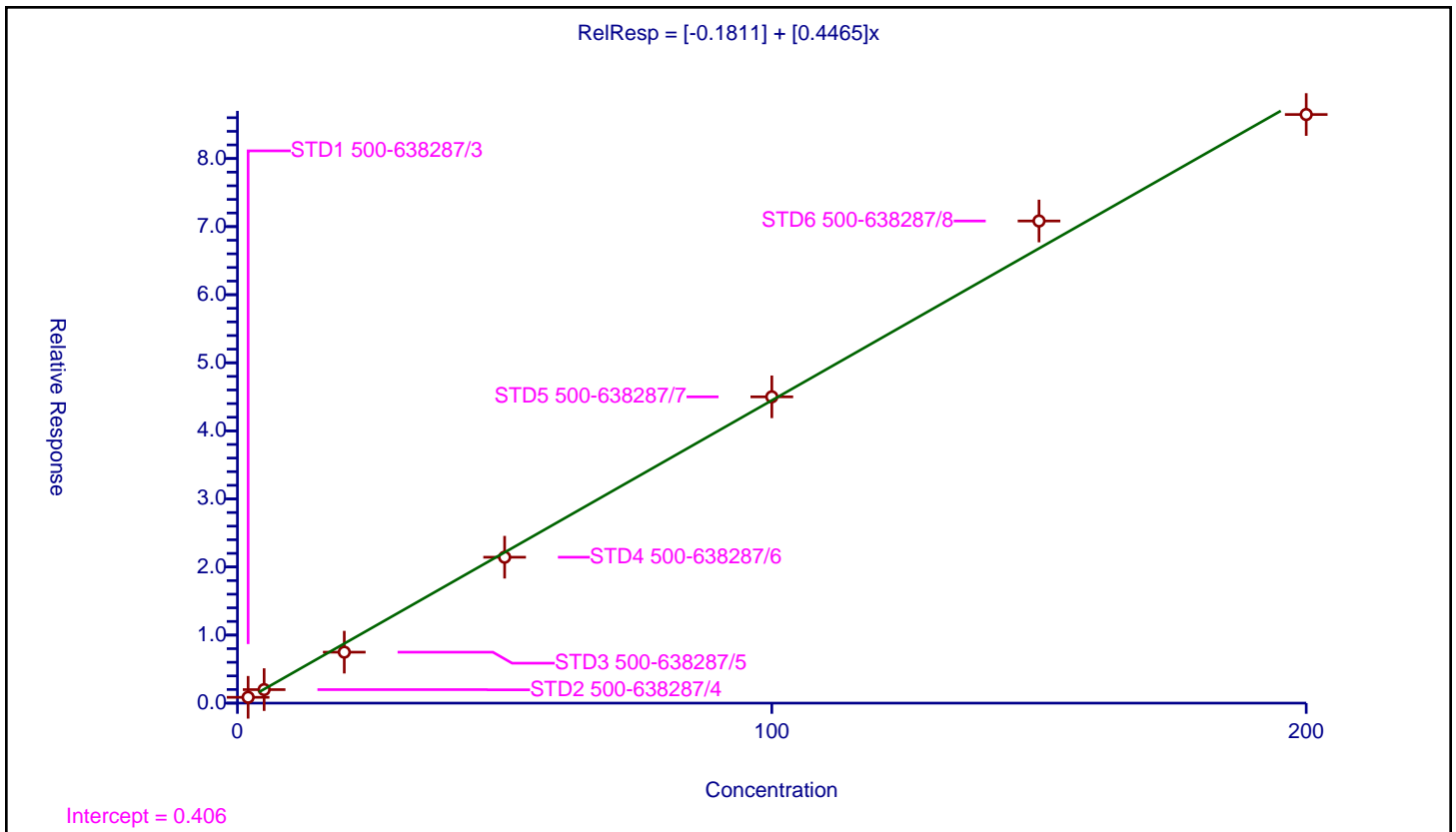
/ Chloromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.1811
Slope:	0.4465

Error Coefficients	
Standard Error:	717000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.855114	53.43	687499.0	0.427557	Y
2	STD2 500-638287/4	5.0	1.986218	53.43	660404.0	0.397244	Y
3	STD3 500-638287/5	20.0	7.487659	53.43	652114.0	0.374383	Y
4	STD4 500-638287/6	50.0	21.434323	53.43	661329.0	0.428686	Y
5	STD5 500-638287/7	100.0	44.996787	53.43	677992.0	0.449968	Y
6	STD6 500-638287/8	150.0	70.826799	53.43	685891.0	0.472179	Y
7	STD7 500-638287/9	200.0	86.466653	53.43	715386.0	0.432333	Y



Calibration

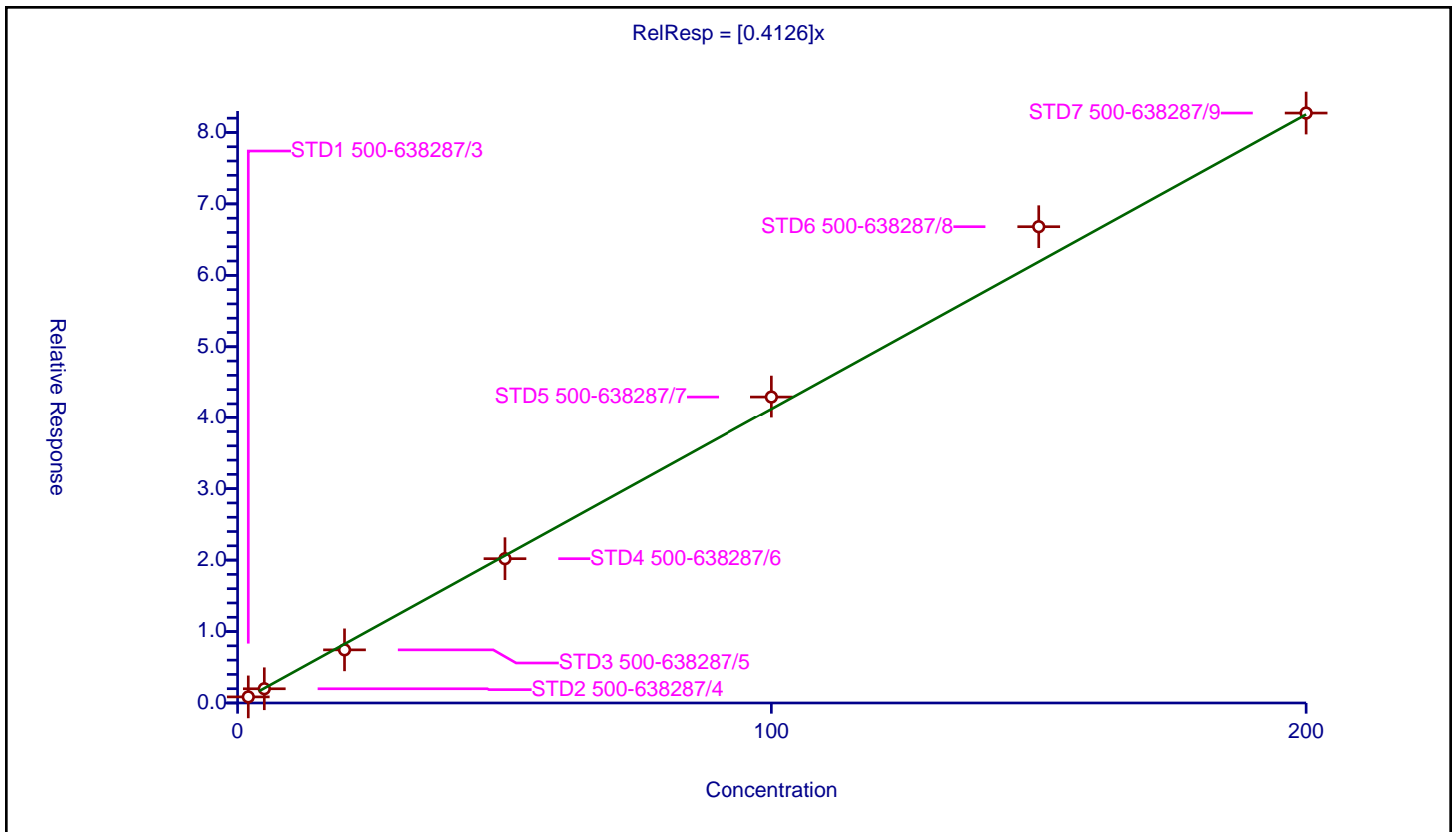
/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4126

Error Coefficients	
Standard Error:	623000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.851229	53.43	687499.0	0.425614	Y
2	STD2 500-638287/4	5.0	1.992367	53.43	660404.0	0.398473	Y
3	STD3 500-638287/5	20.0	7.435631	53.43	652114.0	0.371782	Y
4	STD4 500-638287/6	50.0	20.197884	53.43	661329.0	0.403958	Y
5	STD5 500-638287/7	100.0	42.959724	53.43	677992.0	0.429597	Y
6	STD6 500-638287/8	150.0	66.80863	53.43	685891.0	0.445391	Y
7	STD7 500-638287/9	200.0	82.717069	53.43	715386.0	0.413585	Y



Calibration

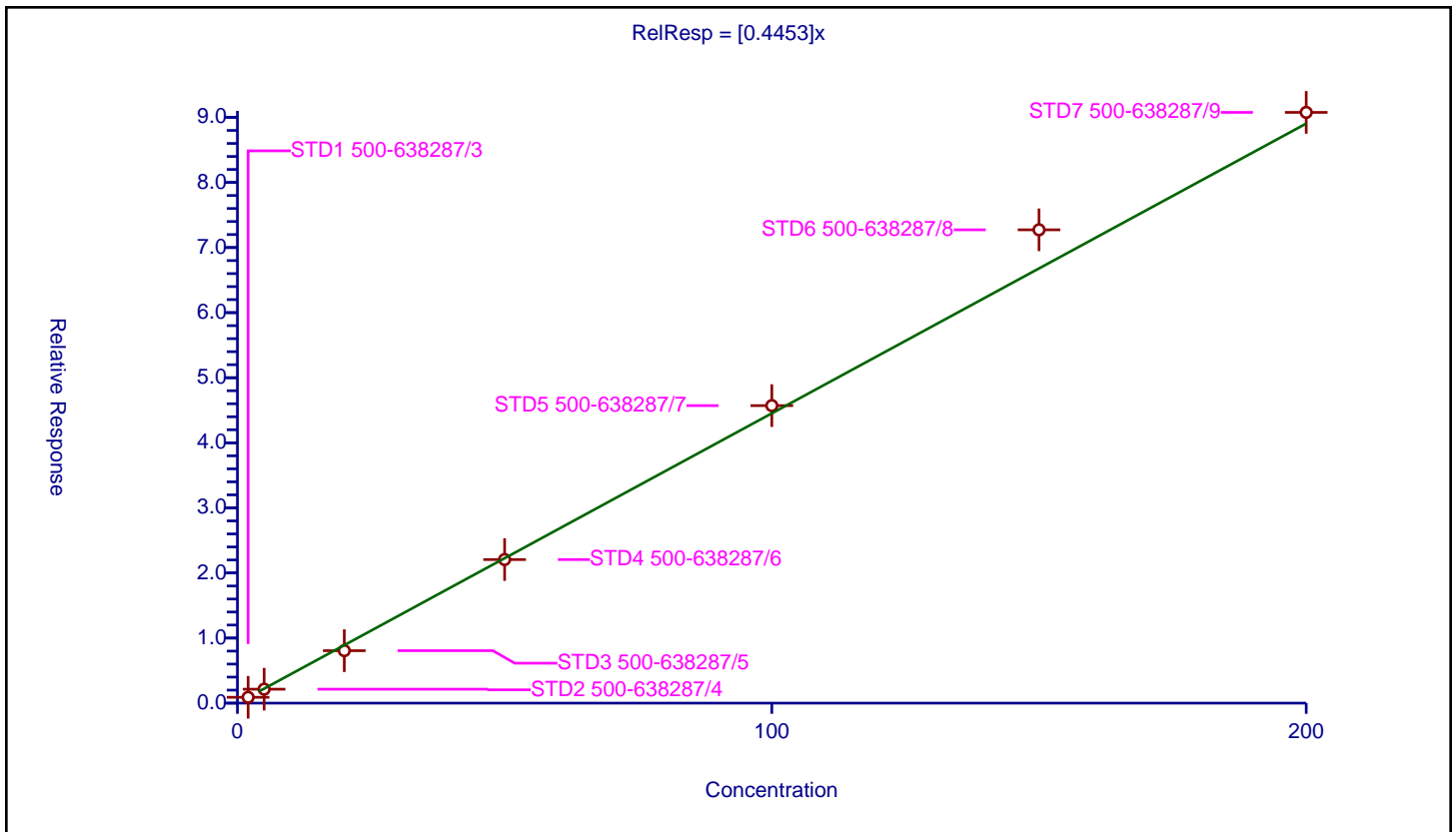
/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4453

Error Coefficients	
Standard Error:	679000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.89747	53.43	687499.0	0.448735	Y
2	STD2 500-638287/4	5.0	2.140585	53.43	660404.0	0.428117	Y
3	STD3 500-638287/5	20.0	8.06062	53.43	652114.0	0.403031	Y
4	STD4 500-638287/6	50.0	22.060379	53.43	661329.0	0.441208	Y
5	STD5 500-638287/7	100.0	45.713214	53.43	677992.0	0.457132	Y
6	STD6 500-638287/8	150.0	72.726904	53.43	685891.0	0.484846	Y
7	STD7 500-638287/9	200.0	90.770713	53.43	715386.0	0.453854	Y



Calibration

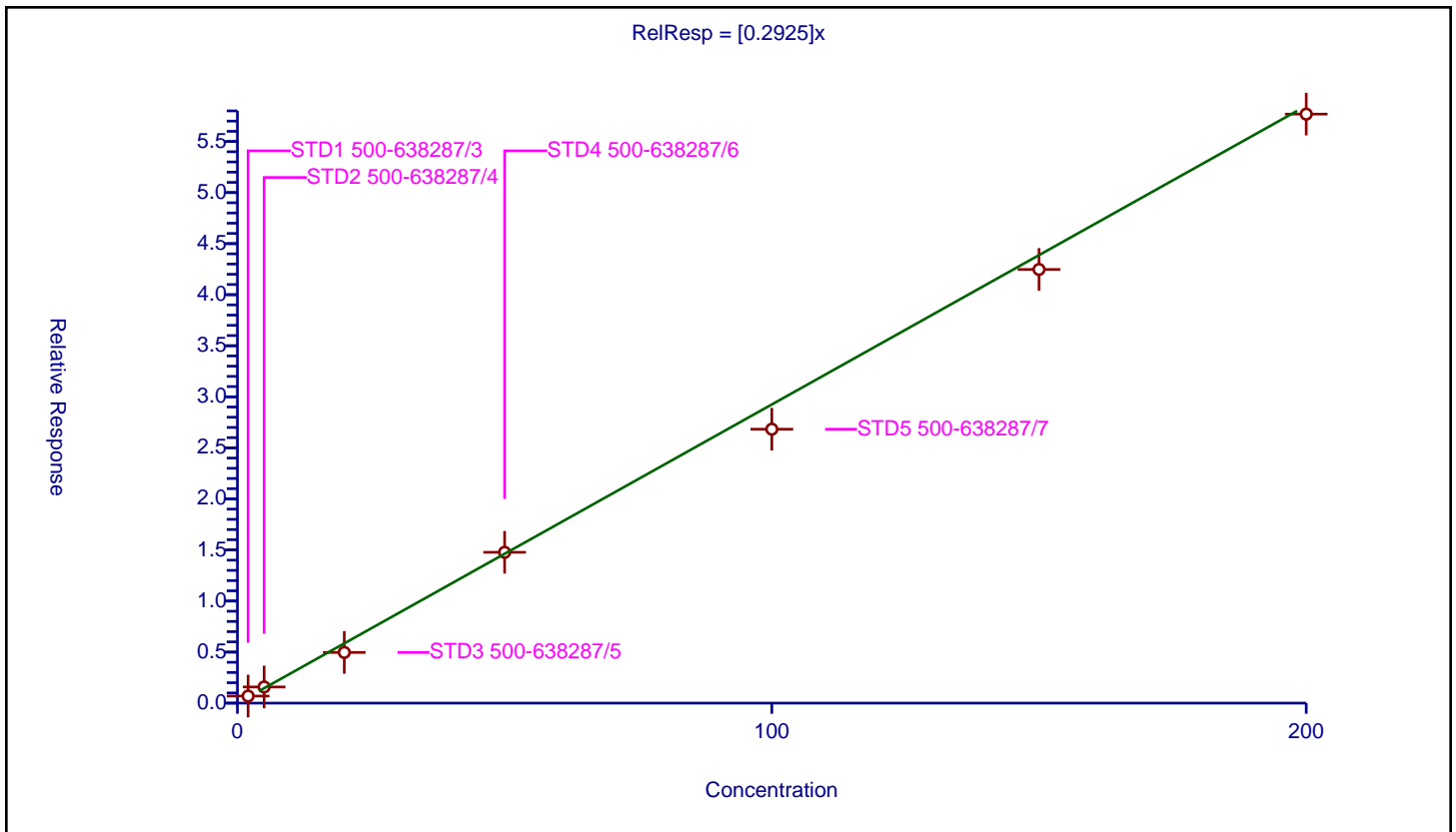
/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2925

Error Coefficients	
Standard Error:	418000
Relative Standard Error:	11.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.693697	53.43	687499.0	0.346849	Y
2	STD2 500-638287/4	5.0	1.585253	53.43	660404.0	0.317051	Y
3	STD3 500-638287/5	20.0	4.96468	53.43	652114.0	0.248234	Y
4	STD4 500-638287/6	50.0	14.772307	53.43	661329.0	0.295446	Y
5	STD5 500-638287/7	100.0	26.828481	53.43	677992.0	0.268285	Y
6	STD6 500-638287/8	150.0	42.470358	53.43	685891.0	0.283136	Y
7	STD7 500-638287/9	200.0	57.684094	53.43	715386.0	0.28842	Y



Calibration

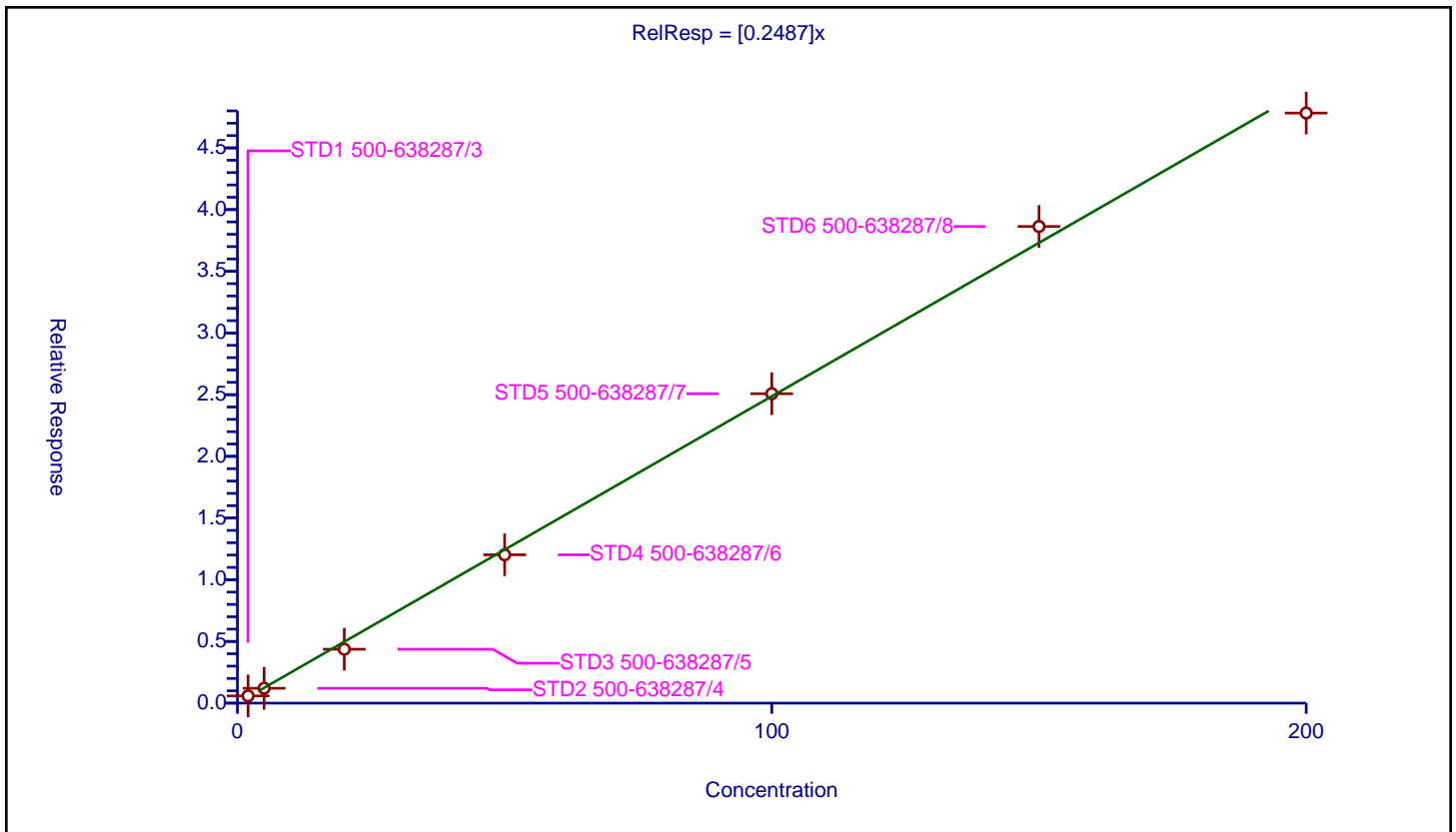
/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2487

Error Coefficients	
Standard Error:	361000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.586993	53.43	687499.0	0.293496	Y
2	STD2 500-638287/4	5.0	1.206213	53.43	660404.0	0.241243	Y
3	STD3 500-638287/5	20.0	4.367385	53.43	652114.0	0.218369	Y
4	STD4 500-638287/6	50.0	12.021667	53.43	661329.0	0.240433	Y
5	STD5 500-638287/7	100.0	25.077958	53.43	677992.0	0.25078	Y
6	STD6 500-638287/8	150.0	38.632056	53.43	685891.0	0.257547	Y
7	STD7 500-638287/9	200.0	47.82452	53.43	715386.0	0.239123	Y



Calibration

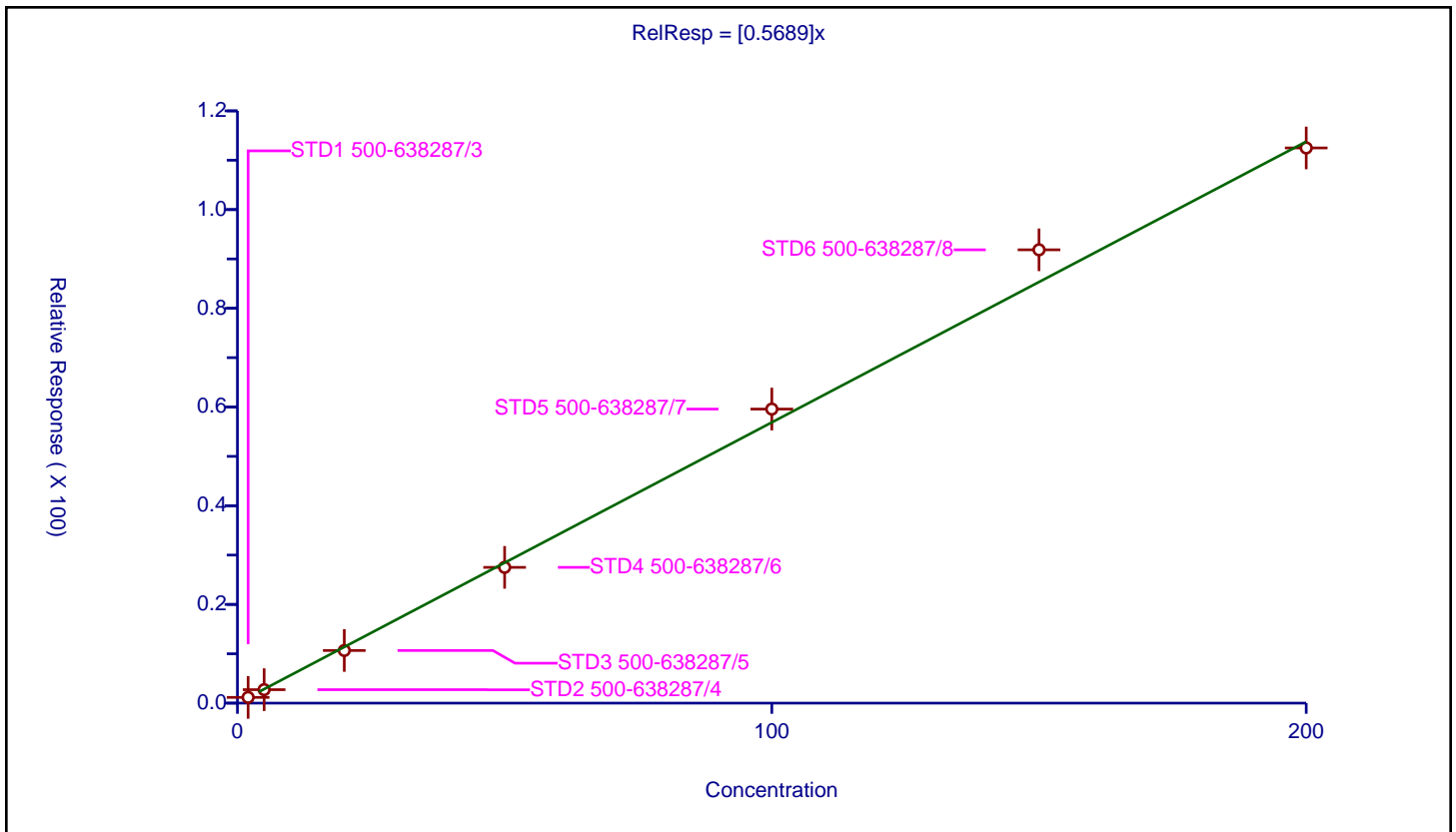
/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5689

Error Coefficients	
Standard Error:	853000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.164193	53.43	687499.0	0.582096	Y
2	STD2 500-638287/4	5.0	2.729493	53.43	660404.0	0.545899	Y
3	STD3 500-638287/5	20.0	10.665615	53.43	652114.0	0.533281	Y
4	STD4 500-638287/6	50.0	27.507609	53.43	661329.0	0.550152	Y
5	STD5 500-638287/7	100.0	59.579408	53.43	677992.0	0.595794	Y
6	STD6 500-638287/8	150.0	91.852976	53.43	685891.0	0.612353	Y
7	STD7 500-638287/9	200.0	112.490799	53.43	715386.0	0.562454	Y



Calibration

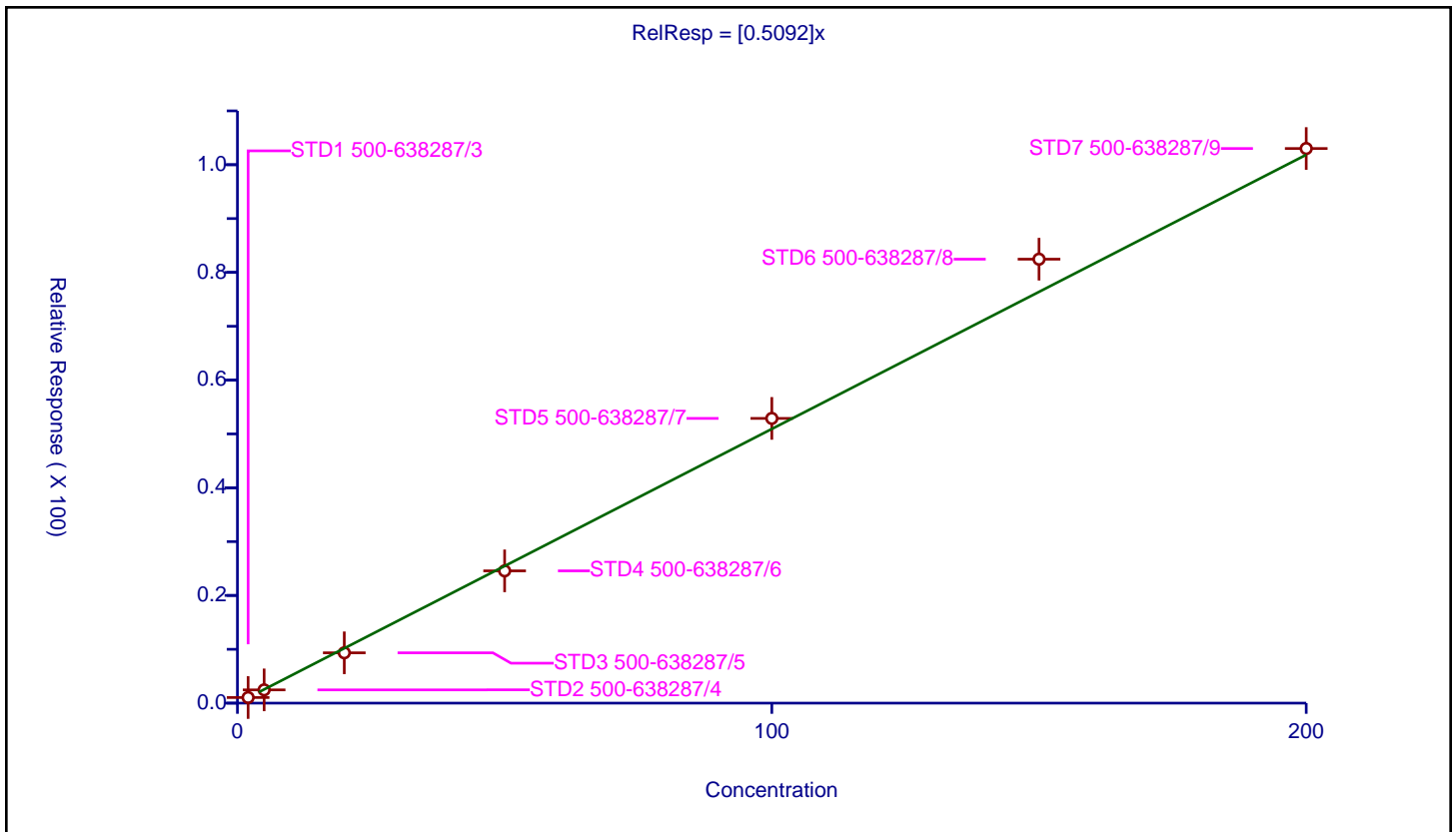
/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5092

Error Coefficients	
Standard Error:	772000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.04039	53.43	687499.0	0.520195	Y
2	STD2 500-638287/4	5.0	2.460403	53.43	660404.0	0.492081	Y
3	STD3 500-638287/5	20.0	9.349435	53.43	652114.0	0.467472	Y
4	STD4 500-638287/6	50.0	24.56727	53.43	661329.0	0.491345	Y
5	STD5 500-638287/7	100.0	52.885528	53.43	677992.0	0.528855	Y
6	STD6 500-638287/8	150.0	82.456371	53.43	685891.0	0.549709	Y
7	STD7 500-638287/9	200.0	103.008245	53.43	715386.0	0.515041	Y



Calibration

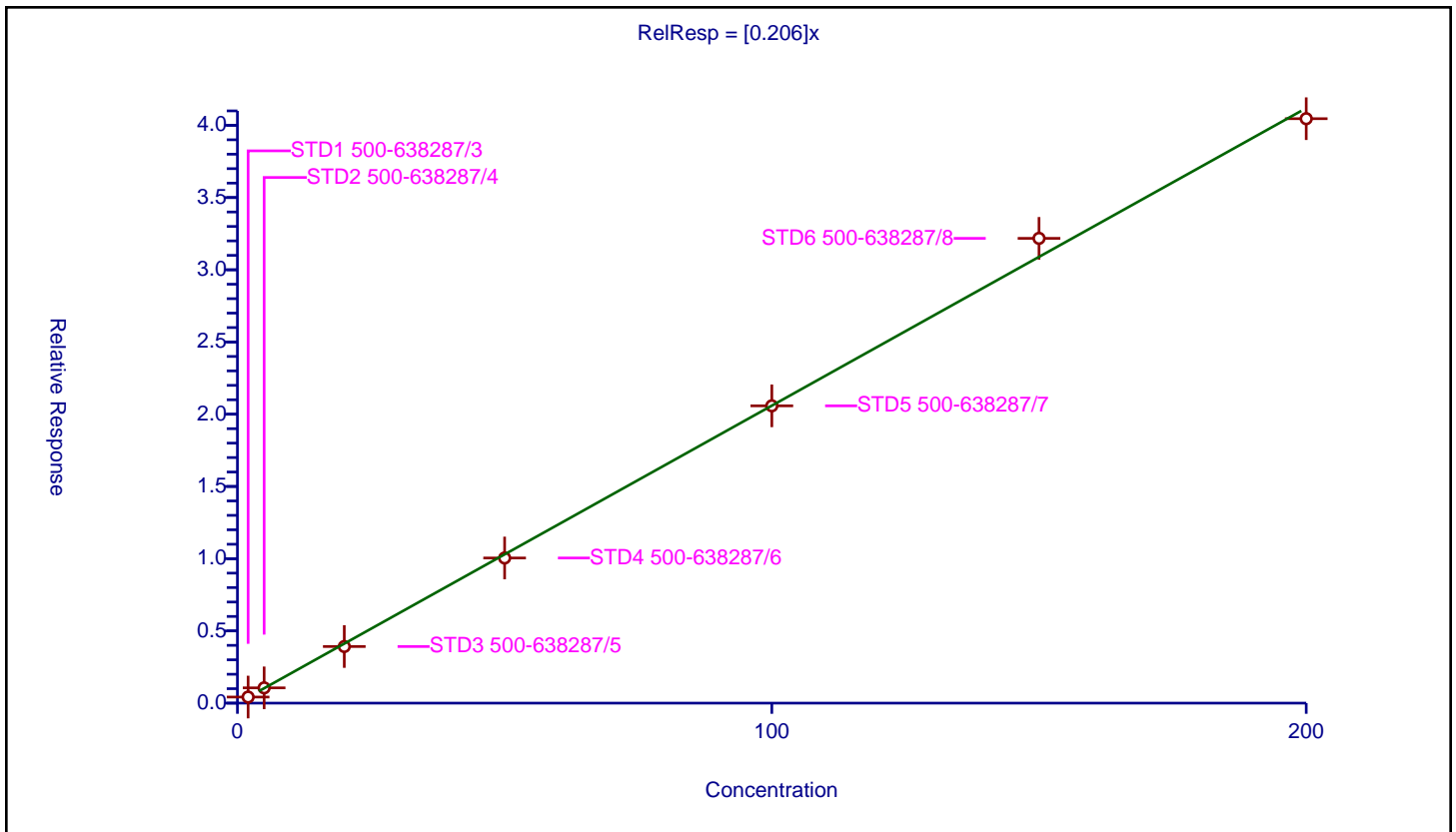
/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.206

Error Coefficients	
Standard Error:	303000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.42099	53.43	687499.0	0.210495	Y
2	STD2 500-638287/4	5.0	1.058319	53.43	660404.0	0.211664	Y
3	STD3 500-638287/5	20.0	3.918389	53.43	652114.0	0.195919	Y
4	STD4 500-638287/6	50.0	10.048568	53.43	661329.0	0.200971	Y
5	STD5 500-638287/7	100.0	20.581747	53.43	677992.0	0.205817	Y
6	STD6 500-638287/8	150.0	32.176281	53.43	685891.0	0.214509	Y
7	STD7 500-638287/9	200.0	40.459341	53.43	715386.0	0.202297	Y



Calibration

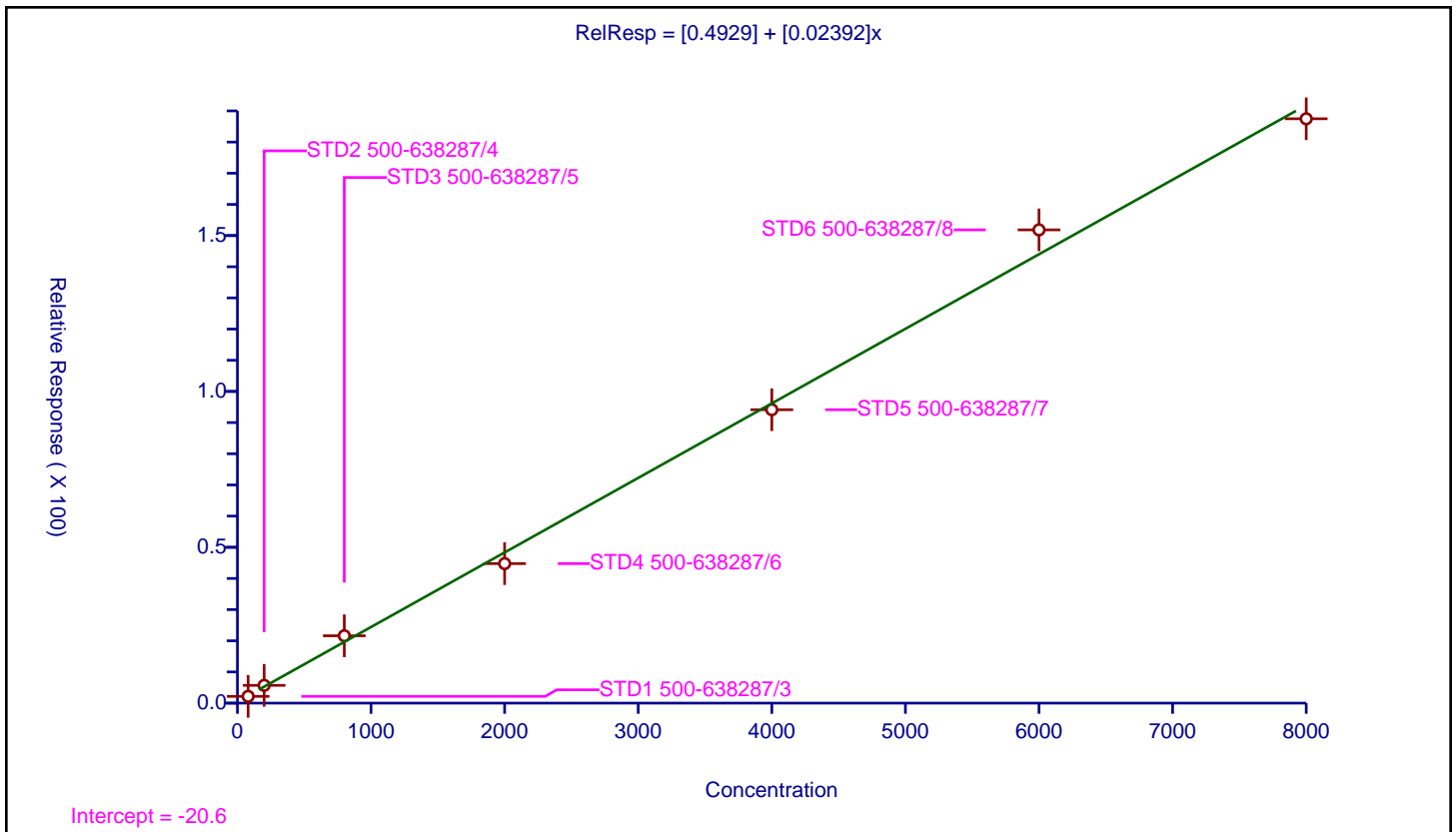
/ Acrolein

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.4929
Slope:	0.02392

Error Coefficients	
Standard Error:	1540000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	80.0	2.161995	53.43	687499.0	0.027025	Y
2	STD2 500-638287/4	200.0	5.701701	53.43	660404.0	0.028509	Y
3	STD3 500-638287/5	800.0	21.600873	53.43	652114.0	0.027001	Y
4	STD4 500-638287/6	2000.0	44.756267	53.43	661329.0	0.022378	Y
5	STD5 500-638287/7	4000.0	94.131531	53.43	677992.0	0.023533	Y
6	STD6 500-638287/8	6000.0	151.827945	53.43	685891.0	0.025305	Y
7	STD7 500-638287/9	8000.0	187.468731	53.43	715386.0	0.023434	Y



Calibration

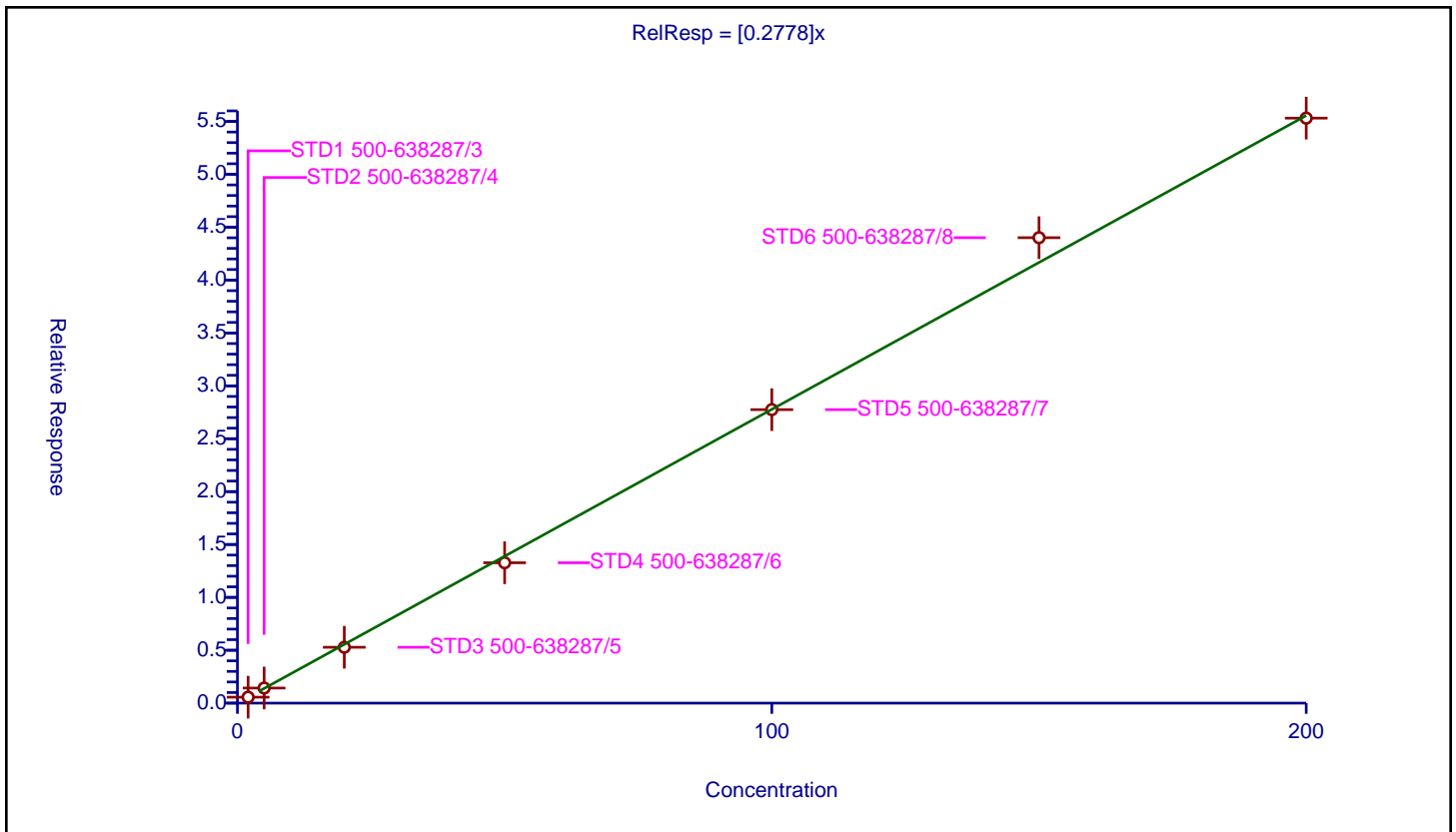
/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2778

Error Coefficients	
Standard Error:	413000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.563988	53.43	687499.0	0.281994	Y
2	STD2 500-638287/4	5.0	1.427003	53.43	660404.0	0.285401	Y
3	STD3 500-638287/5	20.0	5.282336	53.43	652114.0	0.264117	Y
4	STD4 500-638287/6	50.0	13.27281	53.43	661329.0	0.265456	Y
5	STD5 500-638287/7	100.0	27.751066	53.43	677992.0	0.277511	Y
6	STD6 500-638287/8	150.0	44.010492	53.43	685891.0	0.293403	Y
7	STD7 500-638287/9	200.0	55.314949	53.43	715386.0	0.276575	Y



Calibration

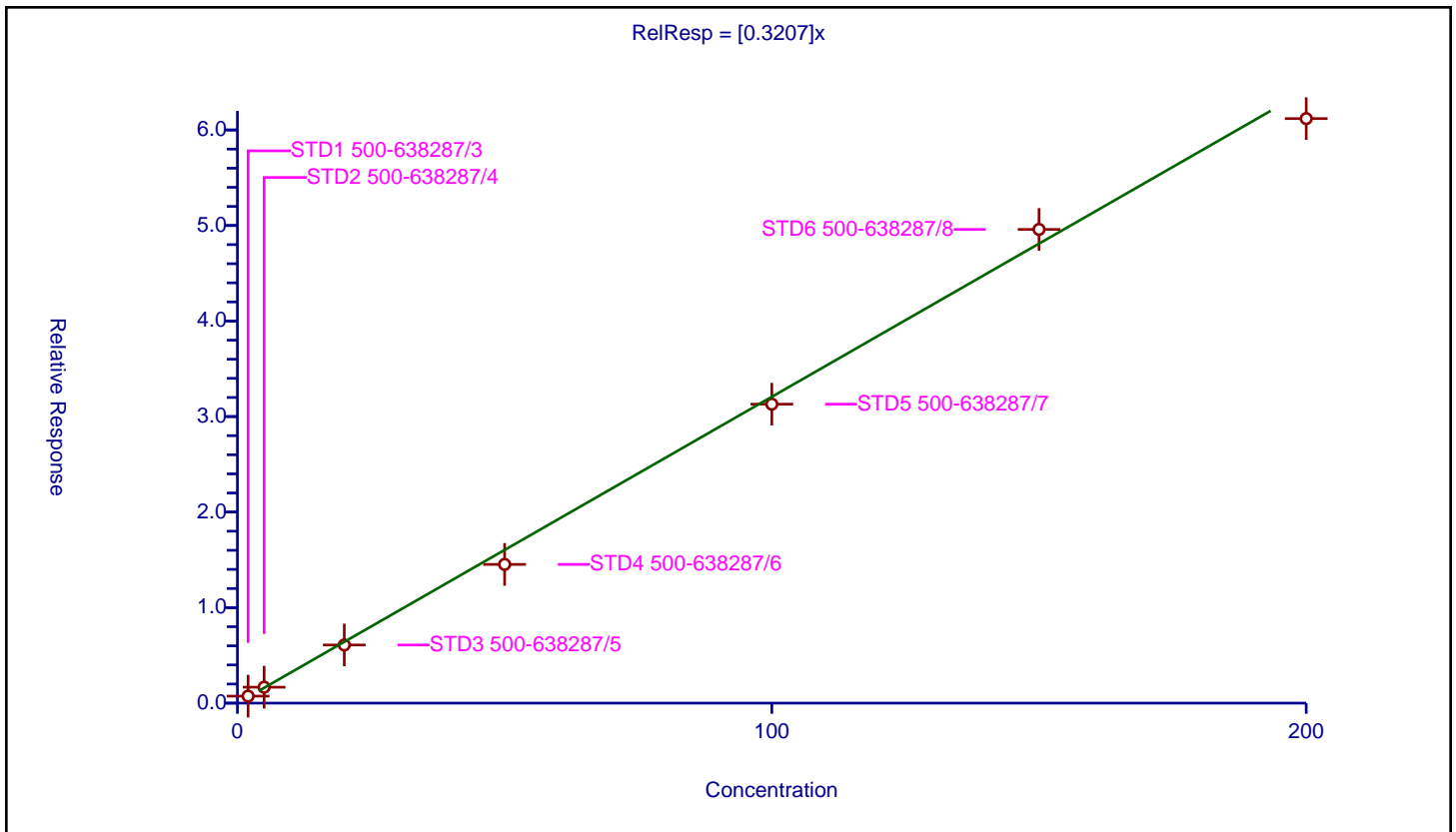
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3207

Error Coefficients	
Standard Error:	461000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.733566	53.43	687499.0	0.366783	Y
2	STD2 500-638287/4	5.0	1.667938	53.43	660404.0	0.333588	Y
3	STD3 500-638287/5	20.0	6.087497	53.43	652114.0	0.304375	Y
4	STD4 500-638287/6	50.0	14.522418	53.43	661329.0	0.290448	Y
5	STD5 500-638287/7	100.0	31.299474	53.43	677992.0	0.312995	Y
6	STD6 500-638287/8	150.0	49.588349	53.43	685891.0	0.330589	Y
7	STD7 500-638287/9	200.0	61.191319	53.43	715386.0	0.305957	Y



Calibration

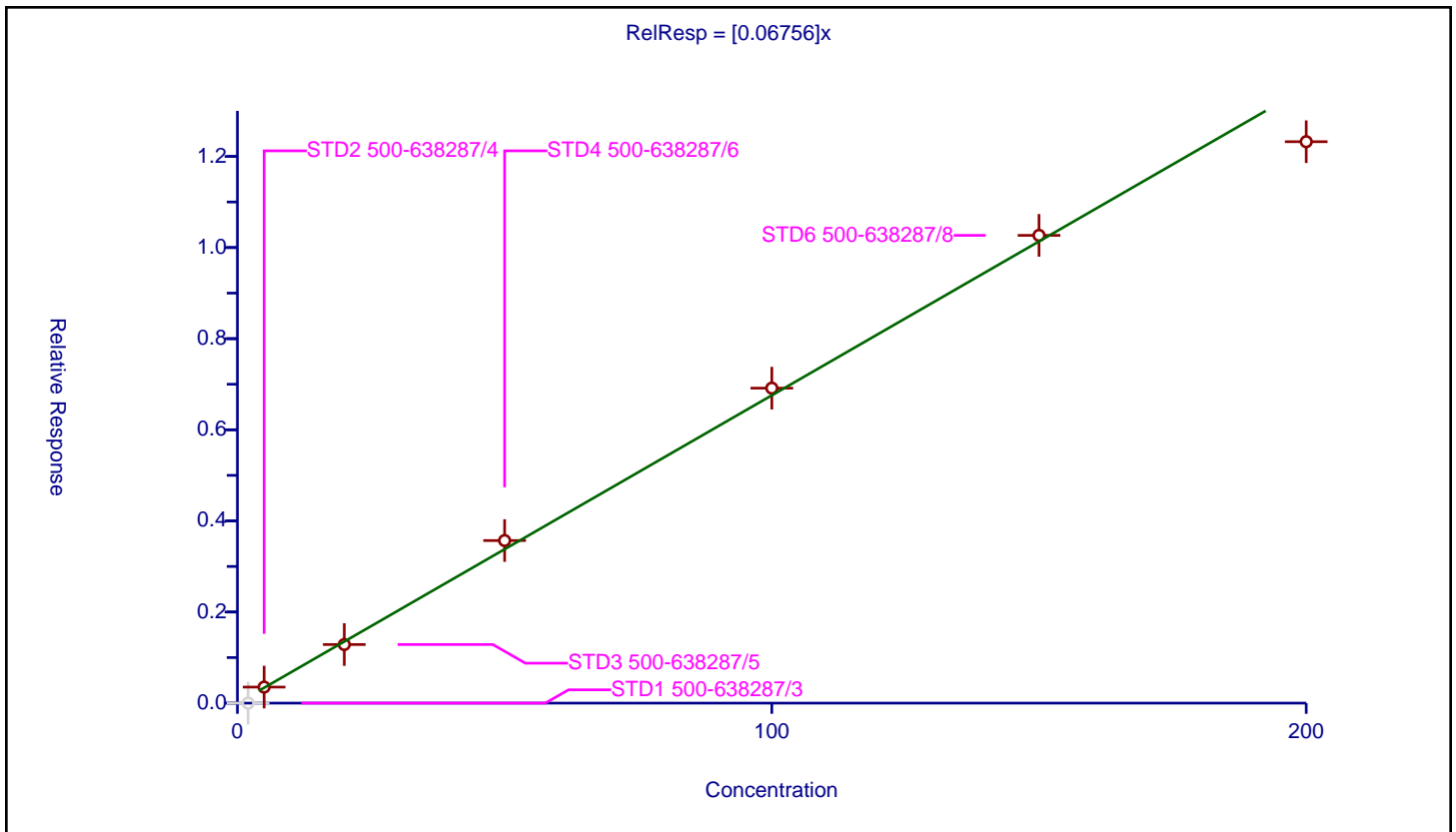
/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06756

Error Coefficients	
Standard Error:	104000
Relative Standard Error:	5.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.0	53.43	687499.0	0.0	N
2	STD2 500-638287/4	5.0	0.352422	53.43	660404.0	0.070484	Y
3	STD3 500-638287/5	20.0	1.286193	53.43	652114.0	0.06431	Y
4	STD4 500-638287/6	50.0	3.568738	53.43	661329.0	0.071375	Y
5	STD5 500-638287/7	100.0	6.914223	53.43	677992.0	0.069142	Y
6	STD6 500-638287/8	150.0	10.267513	53.43	685891.0	0.06845	Y
7	STD7 500-638287/9	200.0	12.323496	53.43	715386.0	0.061617	Y



Calibration

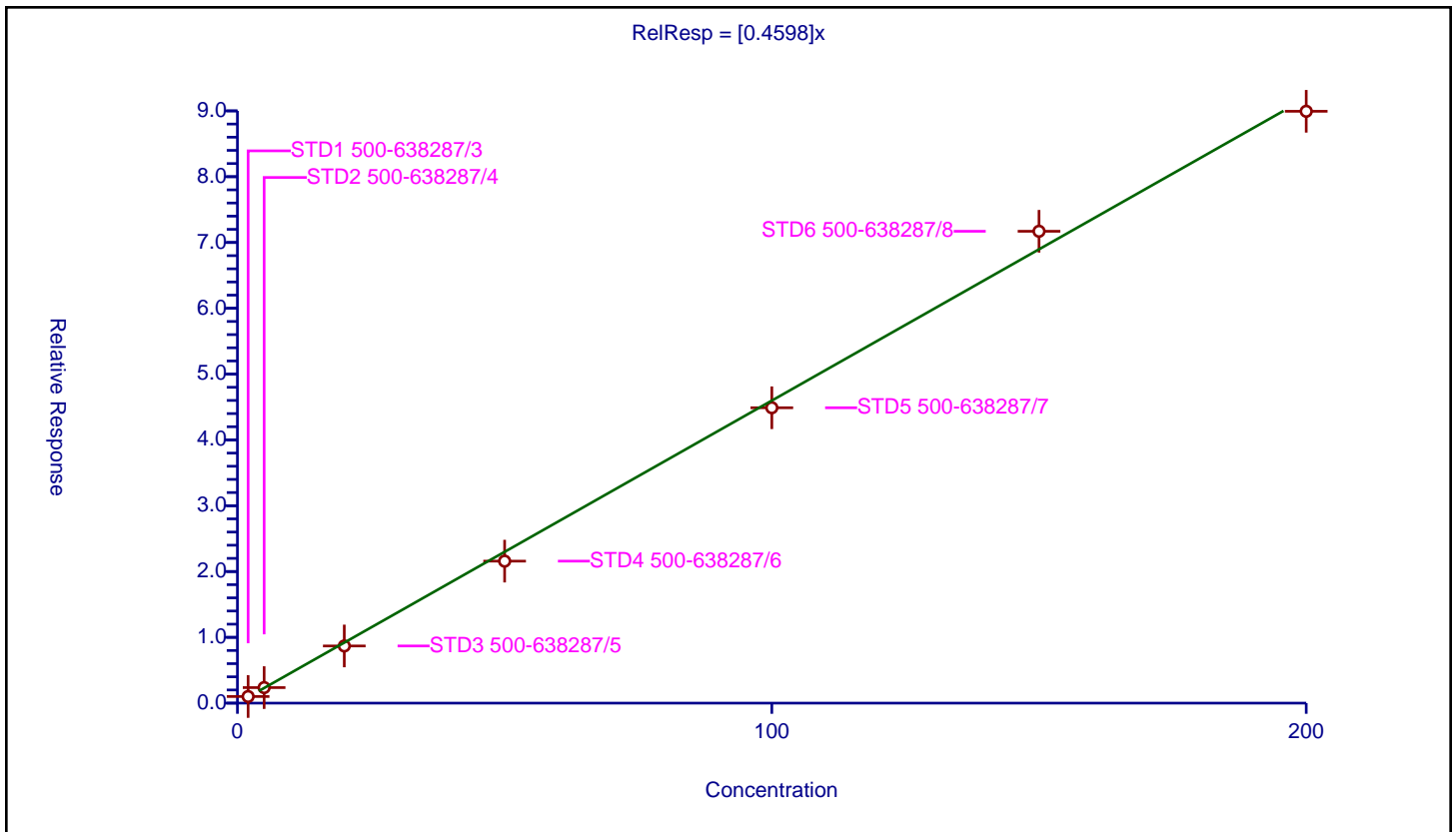
/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4598

Error Coefficients	
Standard Error:	671000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.006662	53.43	687499.0	0.503331	Y
2	STD2 500-638287/4	5.0	2.362022	53.43	660404.0	0.472404	Y
3	STD3 500-638287/5	20.0	8.687248	53.43	652114.0	0.434362	Y
4	STD4 500-638287/6	50.0	21.579102	53.43	661329.0	0.431582	Y
5	STD5 500-638287/7	100.0	44.888901	53.43	677992.0	0.448889	Y
6	STD6 500-638287/8	150.0	71.704484	53.43	685891.0	0.47803	Y
7	STD7 500-638287/9	200.0	89.940119	53.43	715386.0	0.449701	Y



Calibration

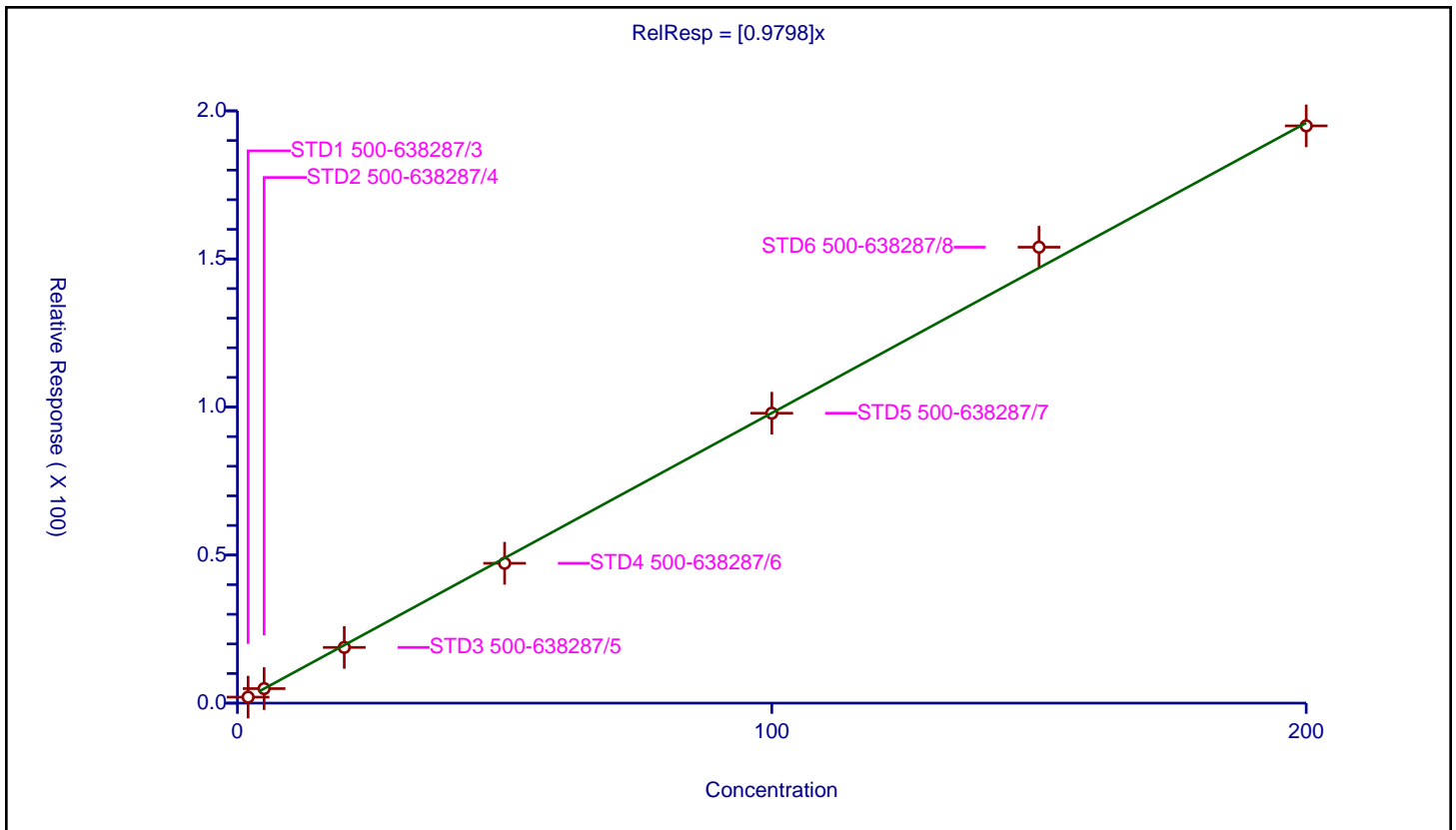
/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9798

Error Coefficients	
Standard Error:	1450000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.024514	53.43	687499.0	1.012257	Y
2	STD2 500-638287/4	5.0	4.90422	53.43	660404.0	0.980844	Y
3	STD3 500-638287/5	20.0	18.81202	53.43	652114.0	0.940601	Y
4	STD4 500-638287/6	50.0	47.221711	53.43	661329.0	0.944434	Y
5	STD5 500-638287/7	100.0	97.910606	53.43	677992.0	0.979106	Y
6	STD6 500-638287/8	150.0	153.963225	53.43	685891.0	1.026422	Y
7	STD7 500-638287/9	200.0	194.932871	53.43	715386.0	0.974664	Y



Calibration

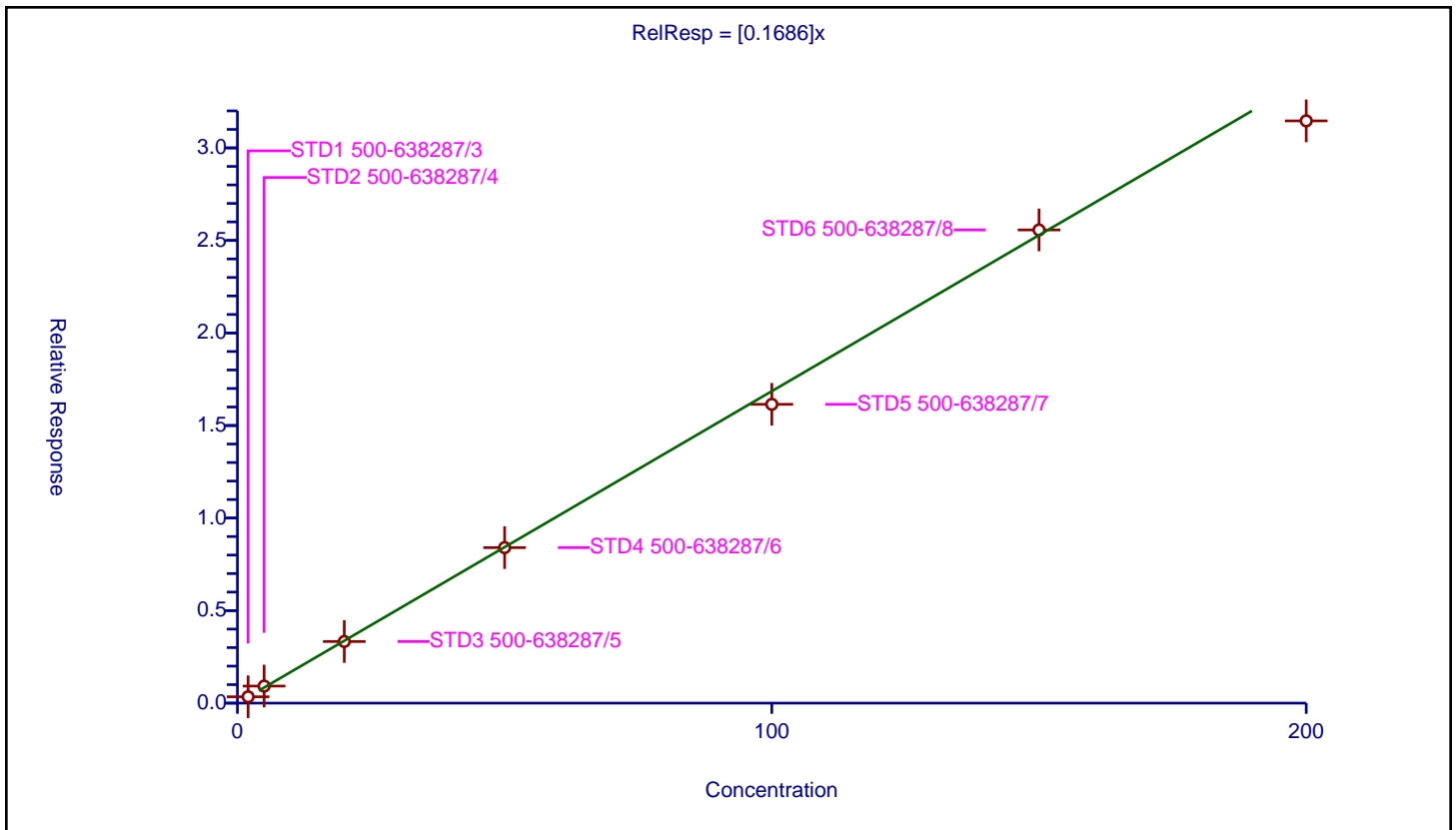
/ 3-Chloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1686

Error Coefficients	
Standard Error:	238000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.343585	53.43	687499.0	0.171792	Y
2	STD2 500-638287/4	5.0	0.92167	53.43	660404.0	0.184334	Y
3	STD3 500-638287/5	20.0	3.32986	53.43	652114.0	0.166493	Y
4	STD4 500-638287/6	50.0	8.402353	53.43	661329.0	0.168047	Y
5	STD5 500-638287/7	100.0	16.145428	53.43	677992.0	0.161454	Y
6	STD6 500-638287/8	150.0	25.567591	53.43	685891.0	0.170451	Y
7	STD7 500-638287/9	200.0	31.460982	53.43	715386.0	0.157305	Y



Calibration

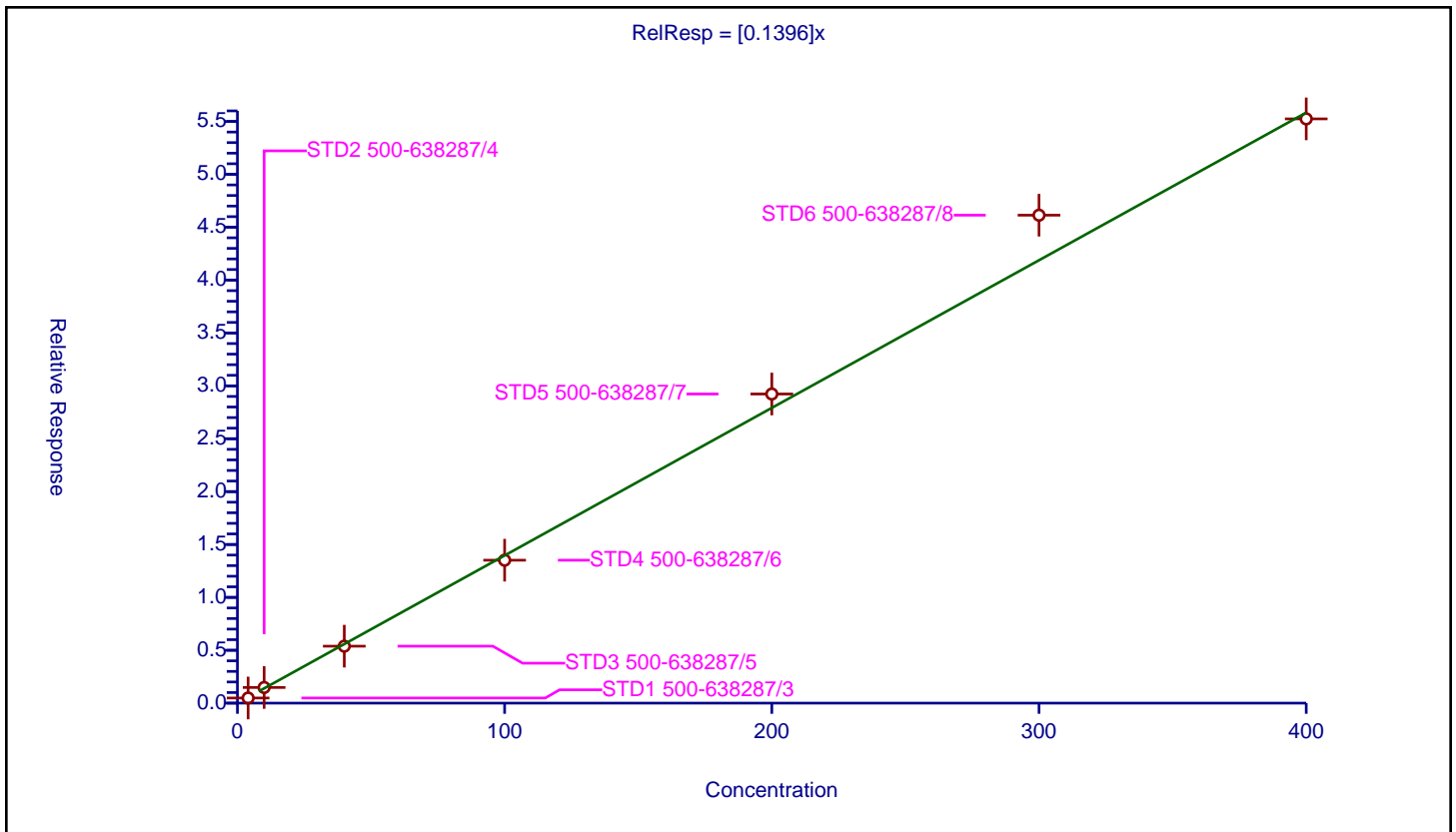
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1396

Error Coefficients	
Standard Error:	422000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	4.0	0.484873	53.43	687499.0	0.121218	Y
2	STD2 500-638287/4	10.0	1.4804	53.43	660404.0	0.14804	Y
3	STD3 500-638287/5	40.0	5.386802	53.43	652114.0	0.13467	Y
4	STD4 500-638287/6	100.0	13.515509	53.43	661329.0	0.135155	Y
5	STD5 500-638287/7	200.0	29.228919	53.43	677992.0	0.146145	Y
6	STD6 500-638287/8	300.0	46.139074	53.43	685891.0	0.153797	Y
7	STD7 500-638287/9	400.0	55.243997	53.43	715386.0	0.13811	Y



Calibration

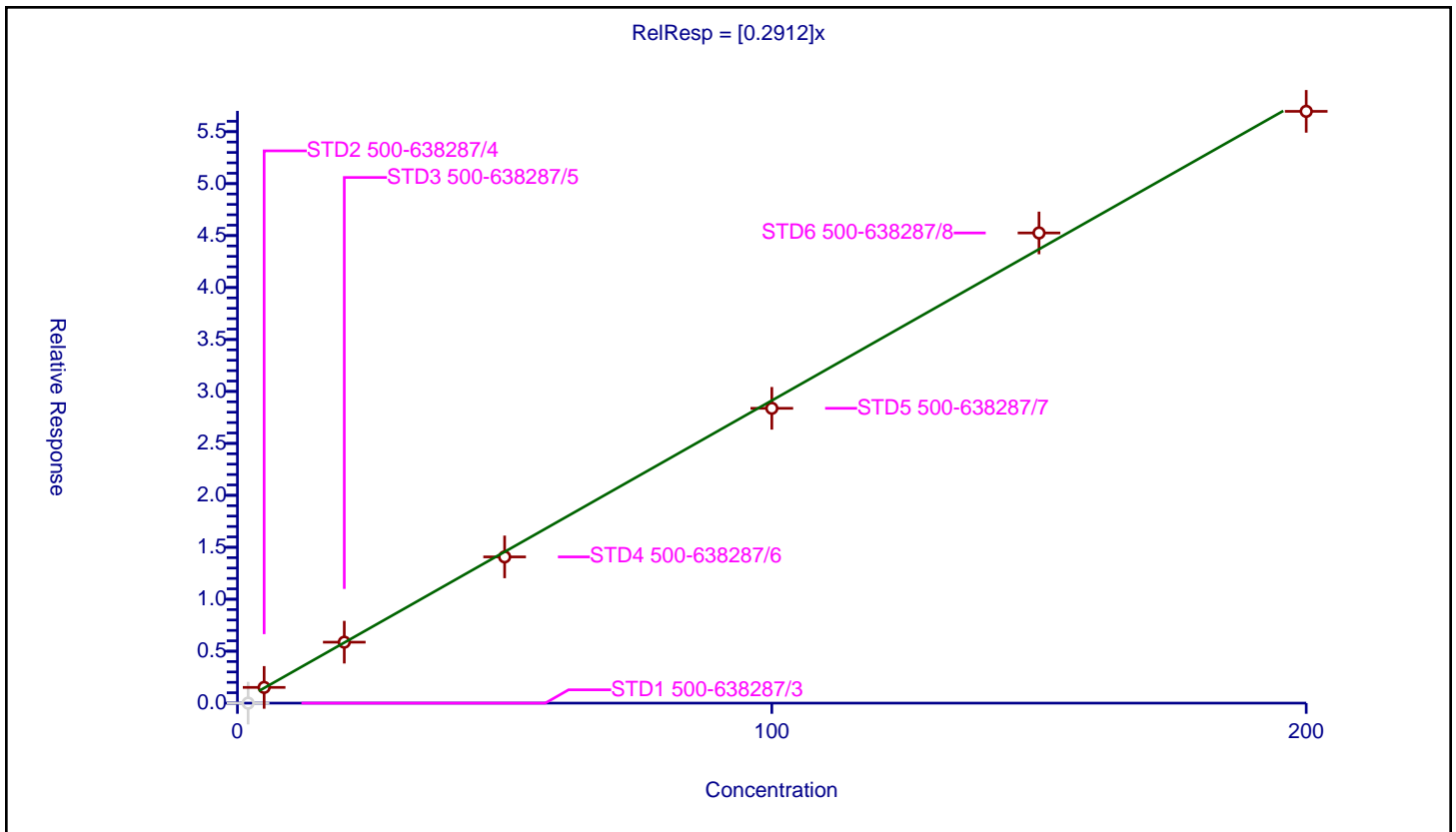
/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2912

Error Coefficients	
Standard Error:	466000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.0	53.43	687499.0	0.0	N
2	STD2 500-638287/4	5.0	1.512681	53.43	660404.0	0.302536	Y
3	STD3 500-638287/5	20.0	5.864966	53.43	652114.0	0.293248	Y
4	STD4 500-638287/6	50.0	14.074831	53.43	661329.0	0.281497	Y
5	STD5 500-638287/7	100.0	28.375053	53.43	677992.0	0.283751	Y
6	STD6 500-638287/8	150.0	45.251652	53.43	685891.0	0.301678	Y
7	STD7 500-638287/9	200.0	56.955971	53.43	715386.0	0.28478	Y



Calibration

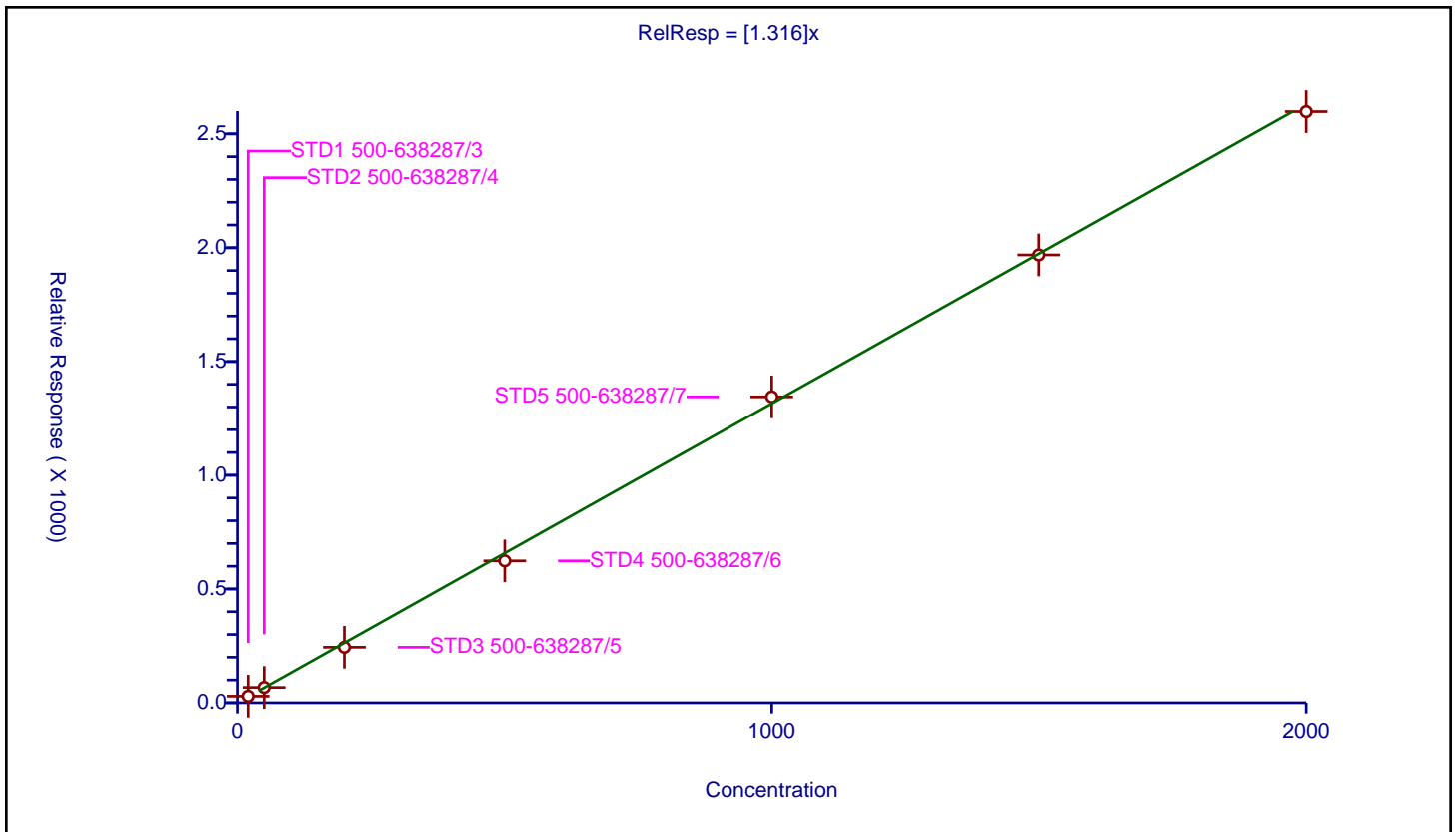
/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.316

Error Coefficients	
Standard Error:	328000
Relative Standard Error:	5.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	20.0	28.869862	1068.6	262580.0	1.443493	Y
2	STD2 500-638287/4	50.0	67.171968	1068.6	255012.0	1.343439	Y
3	STD3 500-638287/5	200.0	243.79993	1068.6	235732.0	1.219	Y
4	STD4 500-638287/6	500.0	623.664943	1068.6	221110.0	1.24733	Y
5	STD5 500-638287/7	1000.0	1344.740776	1068.6	237948.0	1.344741	Y
6	STD6 500-638287/8	1500.0	1968.463811	1068.6	256352.0	1.312309	Y
7	STD7 500-638287/9	2000.0	2597.727943	1068.6	231567.0	1.298864	Y



Calibration

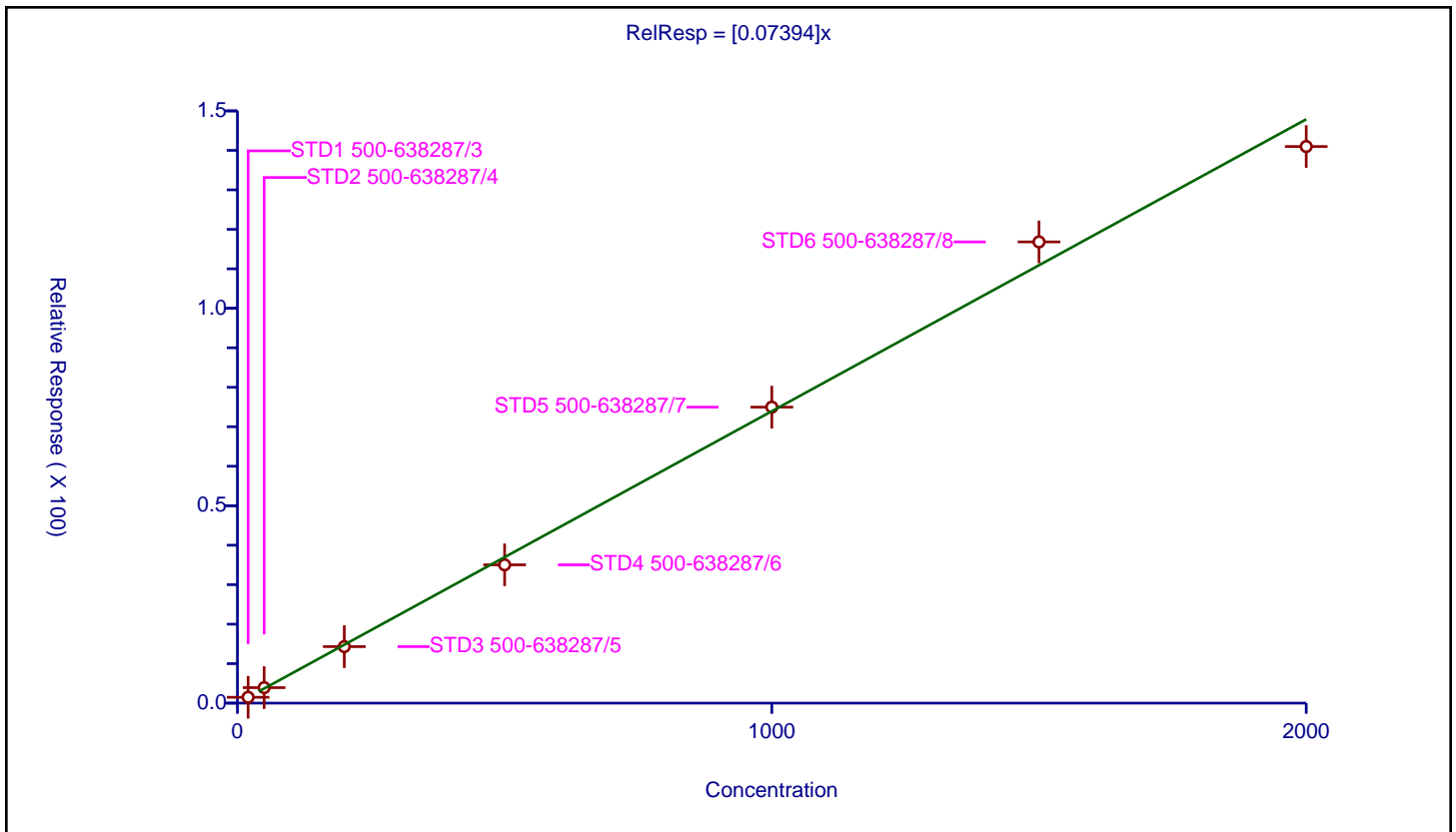
/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07394

Error Coefficients	
Standard Error:	1080000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	20.0	1.482753	53.43	687499.0	0.074138	Y
2	STD2 500-638287/4	50.0	3.923651	53.43	660404.0	0.078473	Y
3	STD3 500-638287/5	200.0	14.311903	53.43	652114.0	0.07156	Y
4	STD4 500-638287/6	500.0	35.027715	53.43	661329.0	0.070055	Y
5	STD5 500-638287/7	1000.0	74.969479	53.43	677992.0	0.074969	Y
6	STD6 500-638287/8	1500.0	116.815762	53.43	685891.0	0.077877	Y
7	STD7 500-638287/9	2000.0	140.980361	53.43	715386.0	0.07049	Y



Calibration

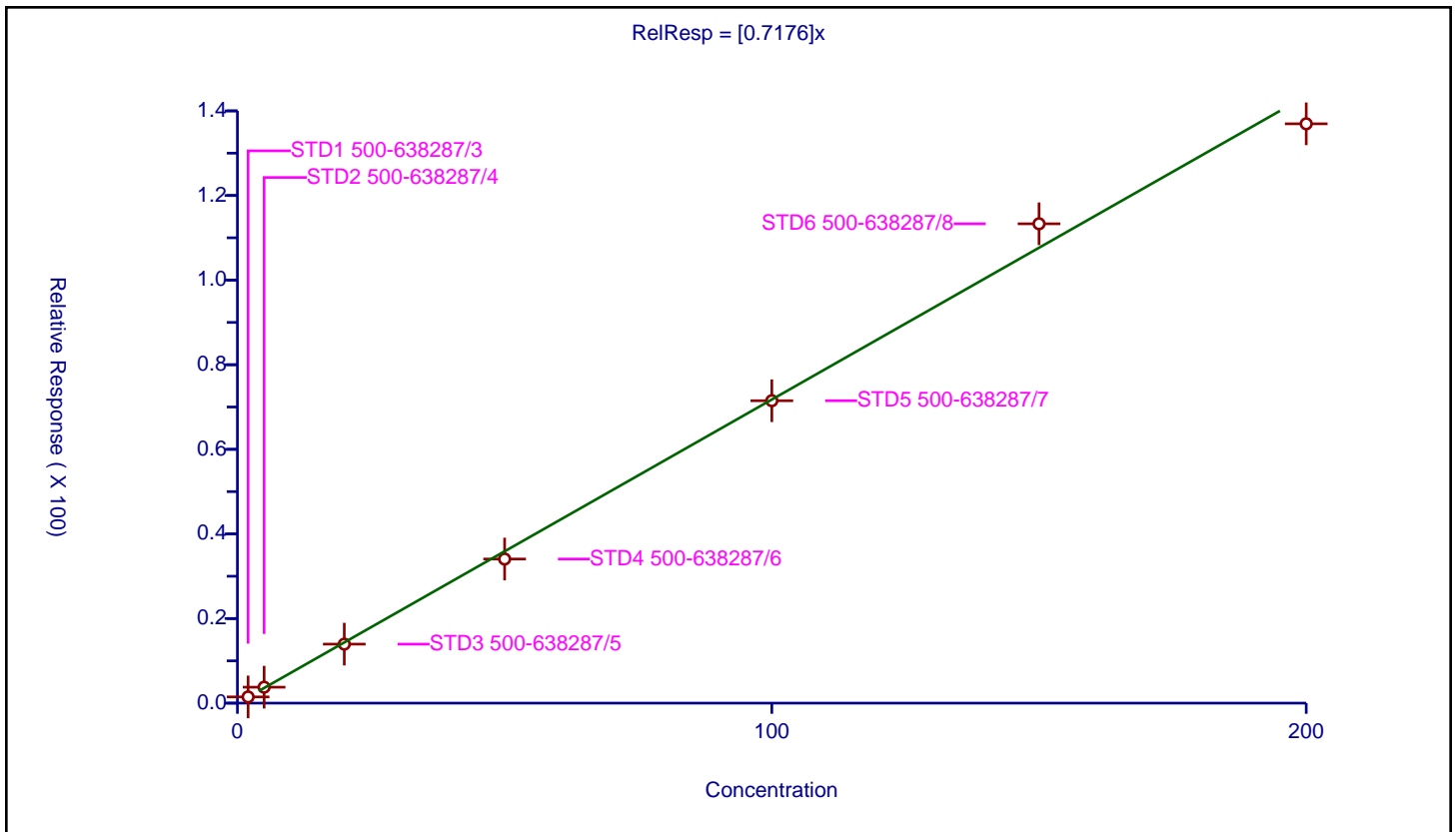
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7176

Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.472494	53.43	687499.0	0.736247	Y
2	STD2 500-638287/4	5.0	3.7671	53.43	660404.0	0.75342	Y
3	STD3 500-638287/5	20.0	13.950084	53.43	652114.0	0.697504	Y
4	STD4 500-638287/6	50.0	34.063464	53.43	661329.0	0.681269	Y
5	STD5 500-638287/7	100.0	71.488607	53.43	677992.0	0.714886	Y
6	STD6 500-638287/8	150.0	113.308842	53.43	685891.0	0.755392	Y
7	STD7 500-638287/9	200.0	136.948162	53.43	715386.0	0.684741	Y



Calibration

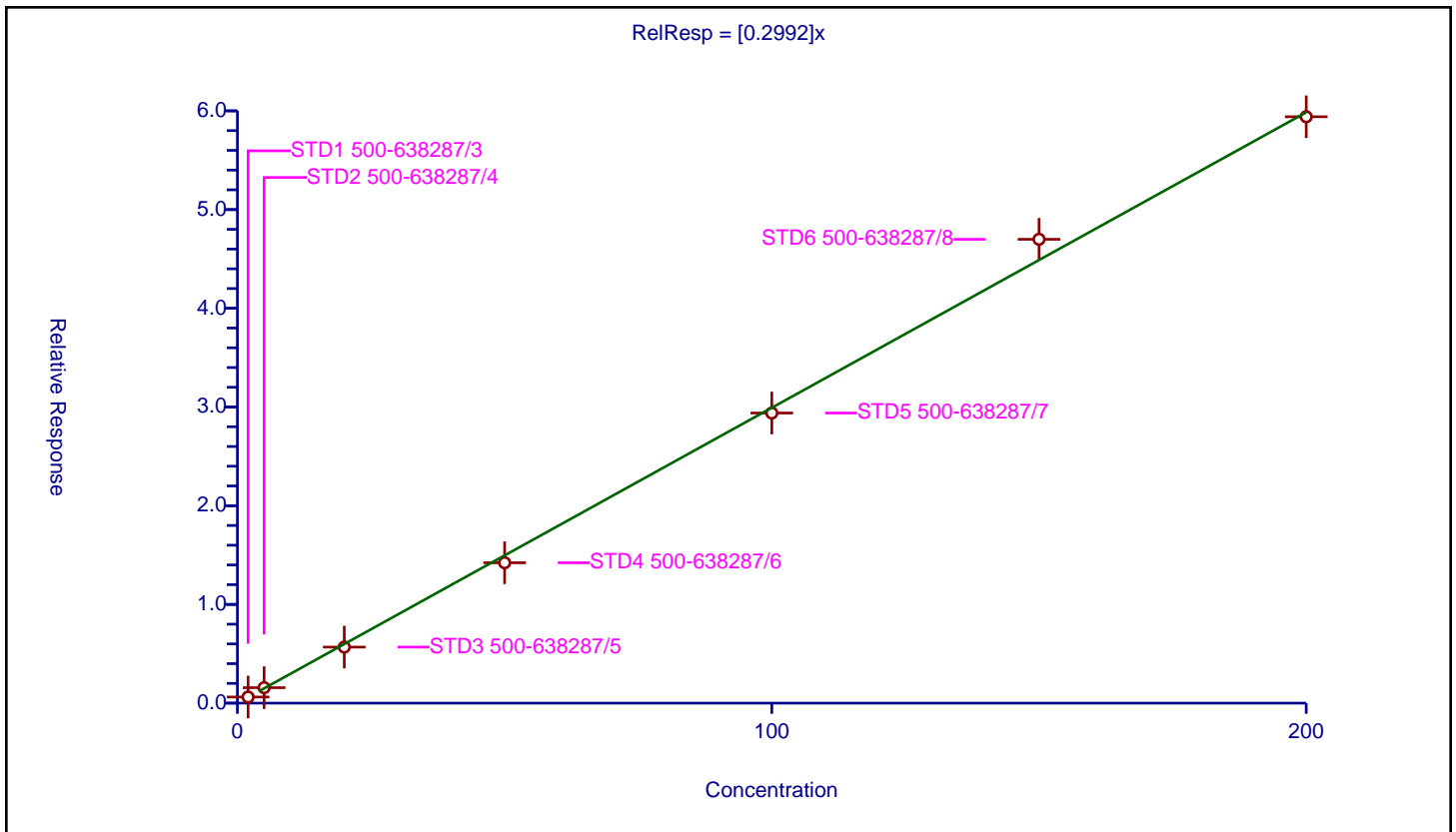
/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2992

Error Coefficients	
Standard Error:	442000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.618001	53.43	687499.0	0.309001	Y
2	STD2 500-638287/4	5.0	1.565917	53.43	660404.0	0.313183	Y
3	STD3 500-638287/5	20.0	5.678403	53.43	652114.0	0.28392	Y
4	STD4 500-638287/6	50.0	14.221872	53.43	661329.0	0.284437	Y
5	STD5 500-638287/7	100.0	29.391181	53.43	677992.0	0.293912	Y
6	STD6 500-638287/8	150.0	46.989493	53.43	685891.0	0.313263	Y
7	STD7 500-638287/9	200.0	59.404433	53.43	715386.0	0.297022	Y



Calibration

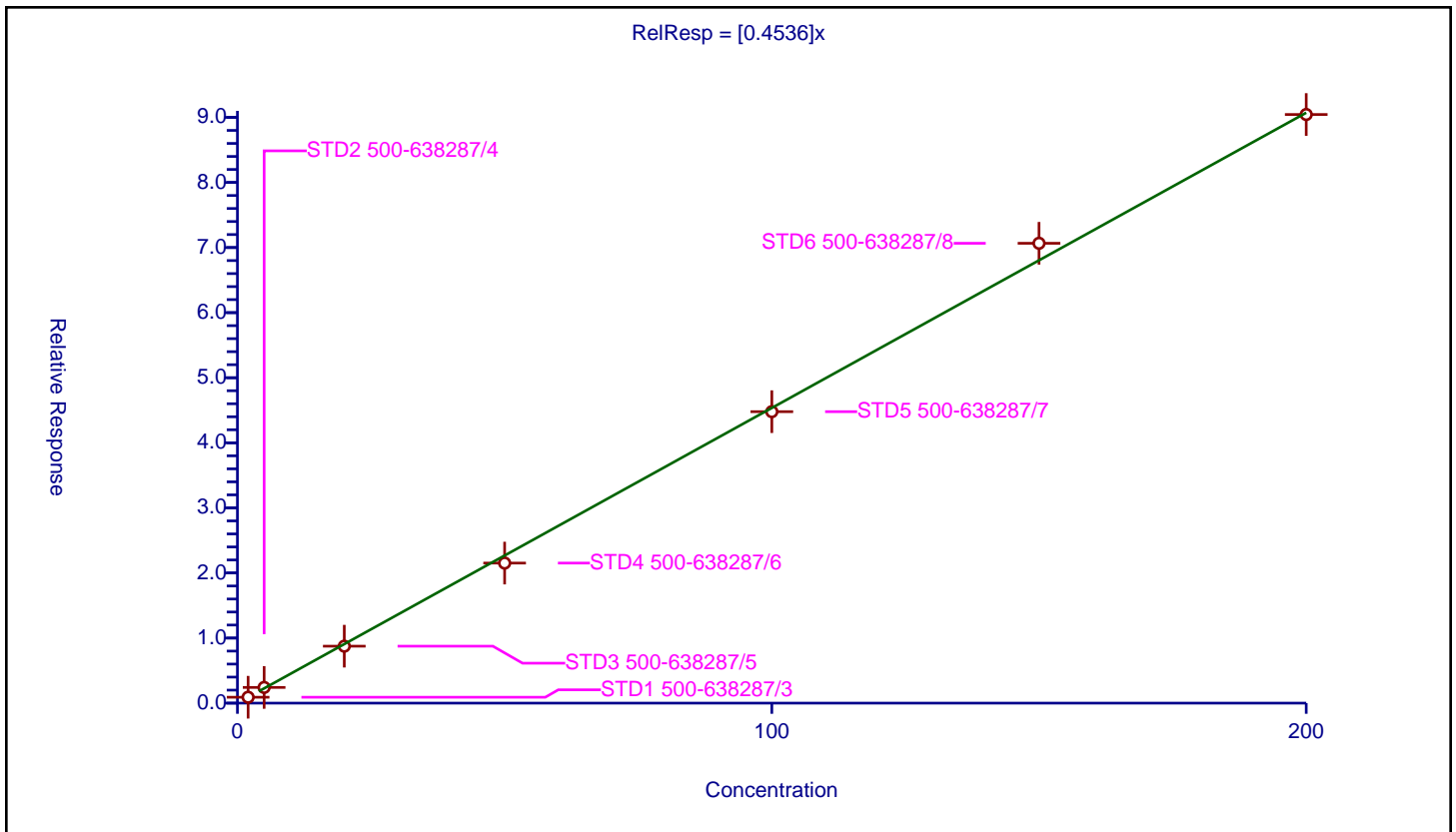
/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4536

Error Coefficients	
Standard Error:	670000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.906718	53.43	687499.0	0.453359	Y
2	STD2 500-638287/4	5.0	2.413316	53.43	660404.0	0.482663	Y
3	STD3 500-638287/5	20.0	8.751894	53.43	652114.0	0.437595	Y
4	STD4 500-638287/6	50.0	21.5177	53.43	661329.0	0.430354	Y
5	STD5 500-638287/7	100.0	44.782907	53.43	677992.0	0.447829	Y
6	STD6 500-638287/8	150.0	70.65698	53.43	685891.0	0.471047	Y
7	STD7 500-638287/9	200.0	90.444704	53.43	715386.0	0.452224	Y



Calibration

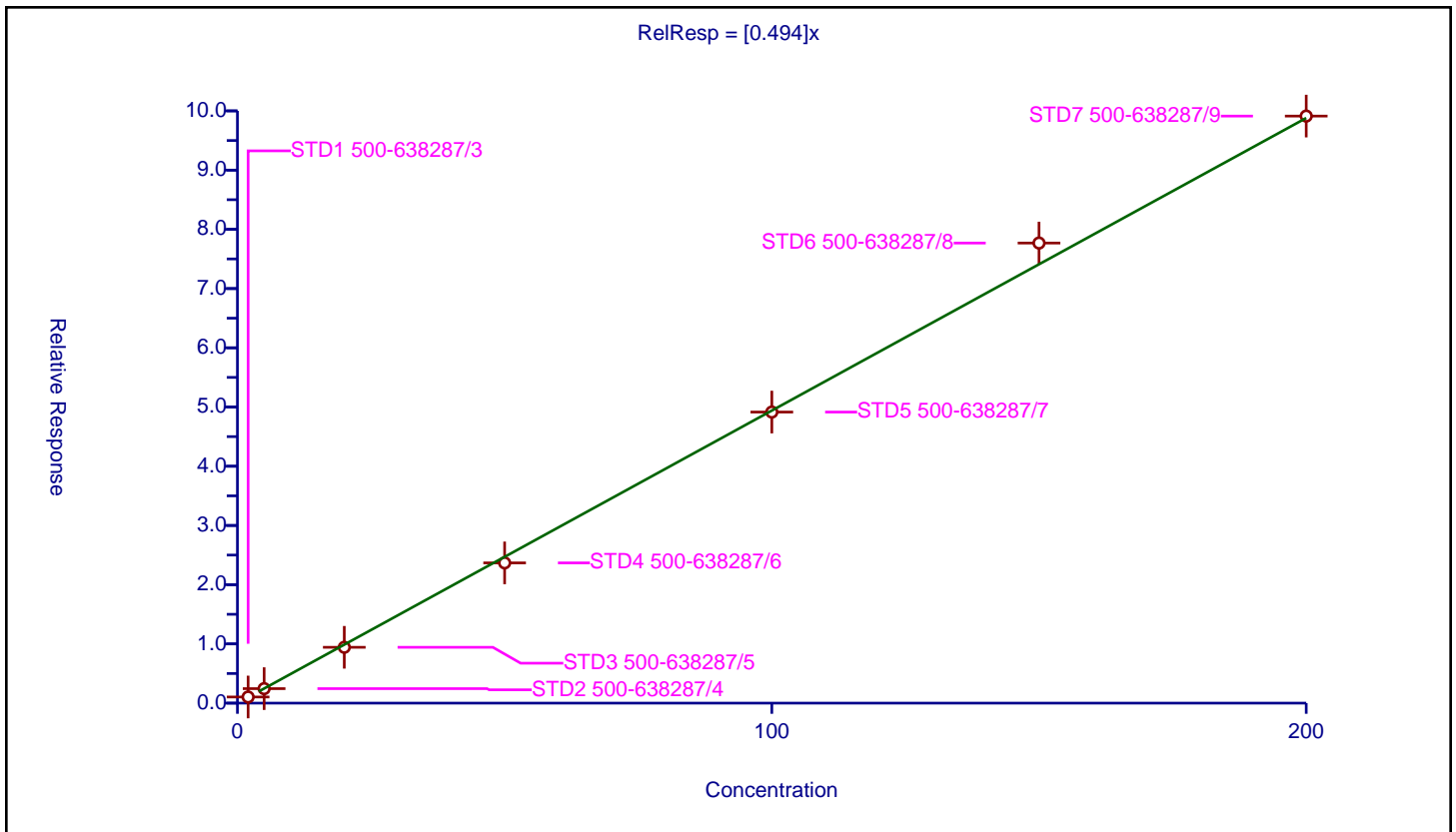
/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.494

Error Coefficients	
Standard Error:	735000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.036427	53.43	687499.0	0.518213	Y
2	STD2 500-638287/4	5.0	2.448024	53.43	660404.0	0.489605	Y
3	STD3 500-638287/5	20.0	9.430385	53.43	652114.0	0.471519	Y
4	STD4 500-638287/6	50.0	23.679367	53.43	661329.0	0.473587	Y
5	STD5 500-638287/7	100.0	49.145856	53.43	677992.0	0.491459	Y
6	STD6 500-638287/8	150.0	77.68531	53.43	685891.0	0.517902	Y
7	STD7 500-638287/9	200.0	99.124598	53.43	715386.0	0.495623	Y



Calibration

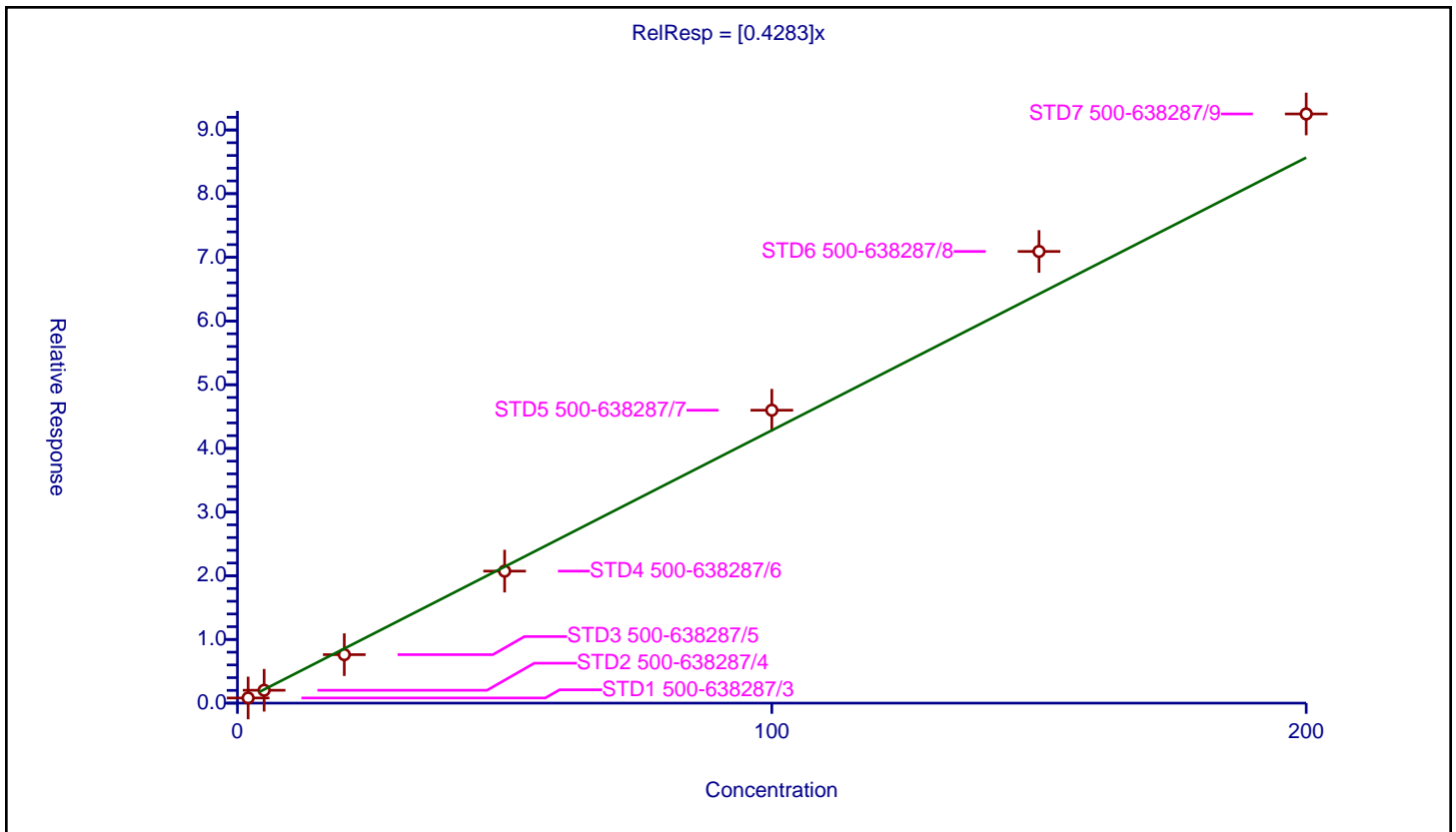
/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4283

Error Coefficients	
Standard Error:	681000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.807319	53.43	687499.0	0.403659	Y
2	STD2 500-638287/4	5.0	2.020037	53.43	660404.0	0.404007	Y
3	STD3 500-638287/5	20.0	7.613673	53.43	652114.0	0.380684	Y
4	STD4 500-638287/6	50.0	20.727717	53.43	661329.0	0.414554	Y
5	STD5 500-638287/7	100.0	45.994001	53.43	677992.0	0.45994	Y
6	STD6 500-638287/8	150.0	70.9276	53.43	685891.0	0.472851	Y
7	STD7 500-638287/9	200.0	92.518686	53.43	715386.0	0.462593	Y



Calibration

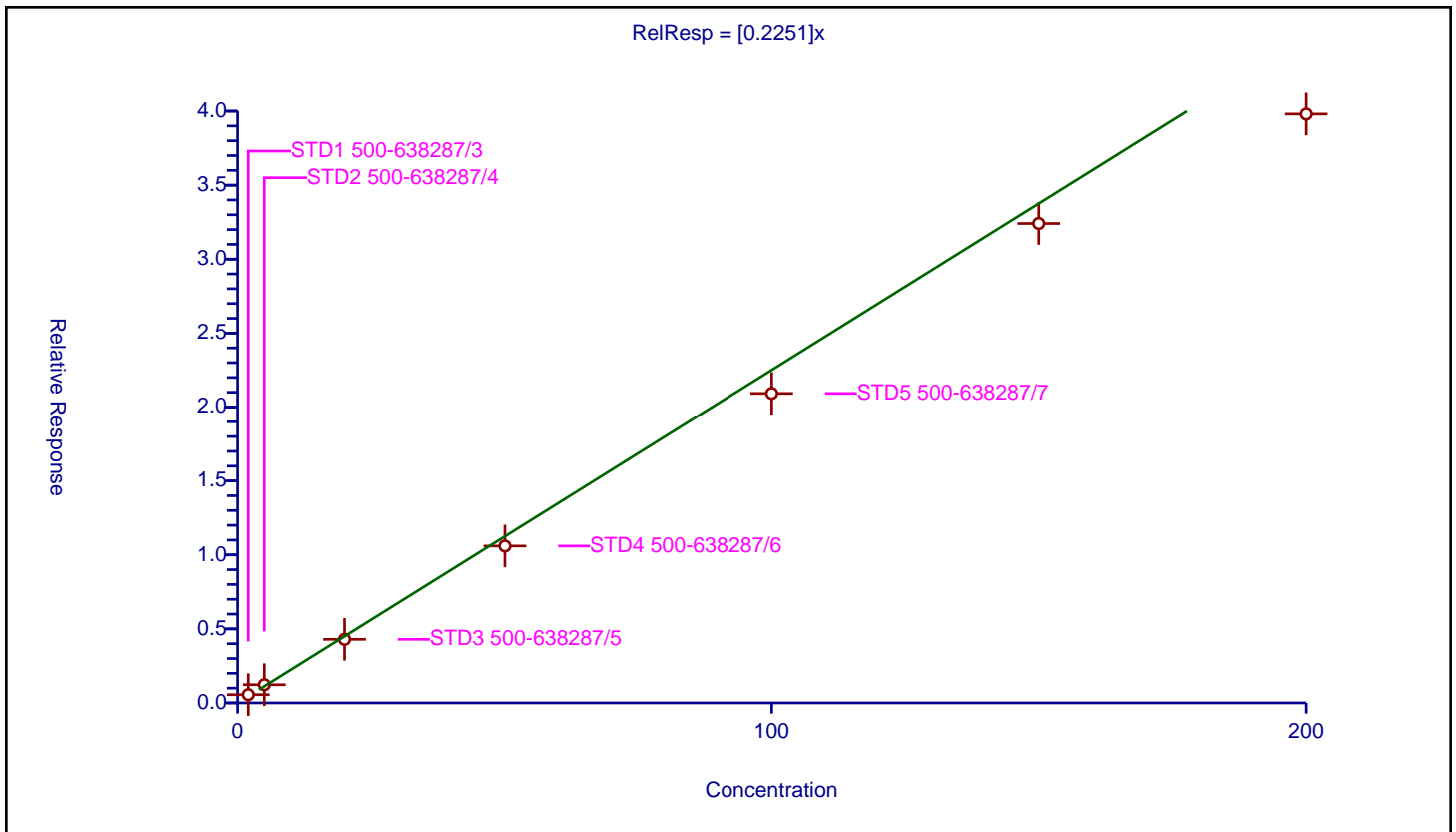
/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2251

Error Coefficients	
Standard Error:	302000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.557072	53.43	687499.0	0.278536	Y
2	STD2 500-638287/4	5.0	1.229109	53.43	660404.0	0.245822	Y
3	STD3 500-638287/5	20.0	4.294628	53.43	652114.0	0.214731	Y
4	STD4 500-638287/6	50.0	10.599326	53.43	661329.0	0.211987	Y
5	STD5 500-638287/7	100.0	20.924081	53.43	677992.0	0.209241	Y
6	STD6 500-638287/8	150.0	32.410912	53.43	685891.0	0.216073	Y
7	STD7 500-638287/9	200.0	39.807324	53.43	715386.0	0.199037	Y



Calibration

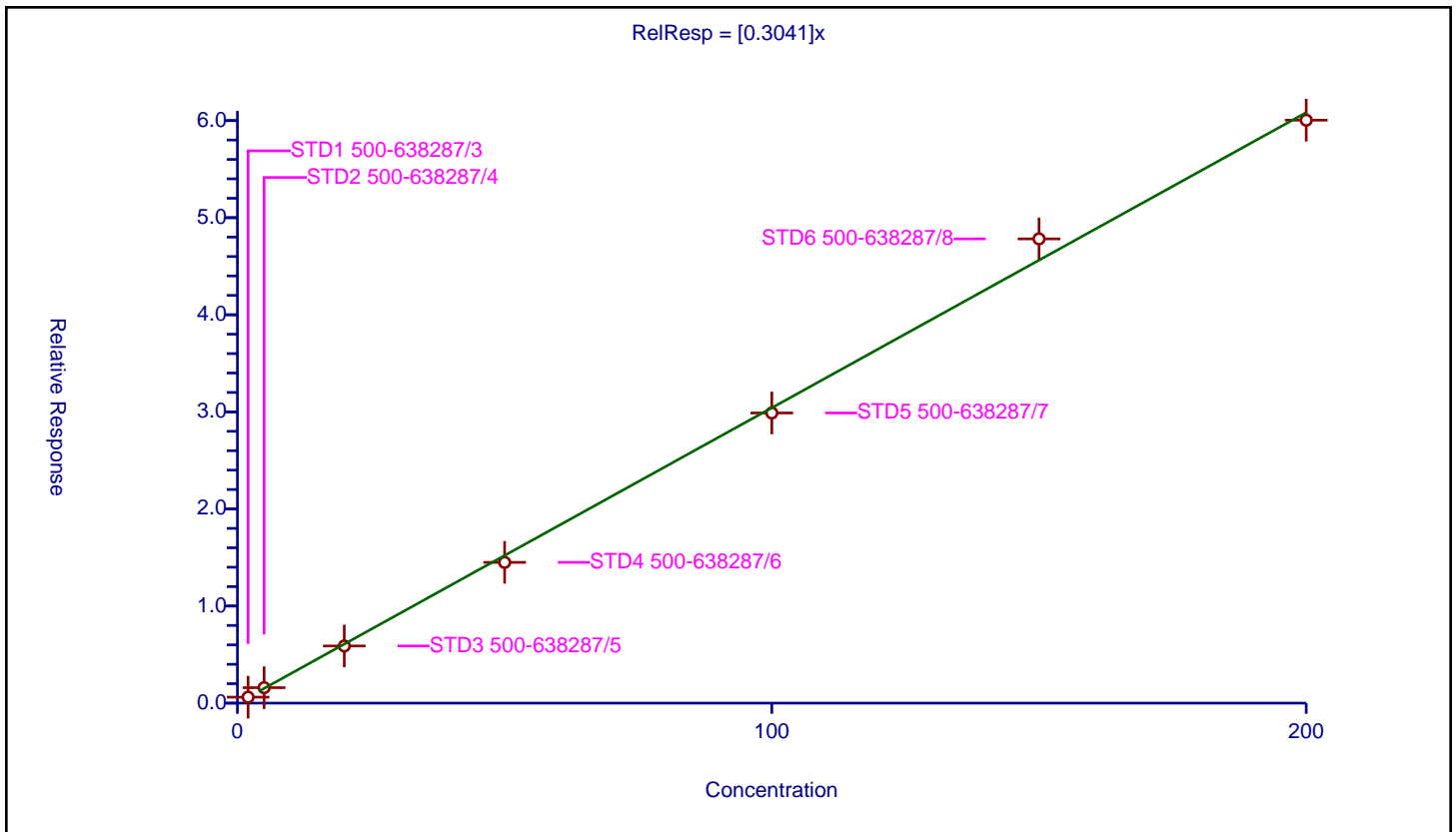
/ cis-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3041

Error Coefficients	
Standard Error:	448000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.61668	53.43	687499.0	0.30834	Y
2	STD2 500-638287/4	5.0	1.593343	53.43	660404.0	0.318669	Y
3	STD3 500-638287/5	20.0	5.884794	53.43	652114.0	0.29424	Y
4	STD4 500-638287/6	50.0	14.496241	53.43	661329.0	0.289925	Y
5	STD5 500-638287/7	100.0	29.8864	53.43	677992.0	0.298864	Y
6	STD6 500-638287/8	150.0	47.815064	53.43	685891.0	0.318767	Y
7	STD7 500-638287/9	200.0	60.042559	53.43	715386.0	0.300213	Y



Calibration

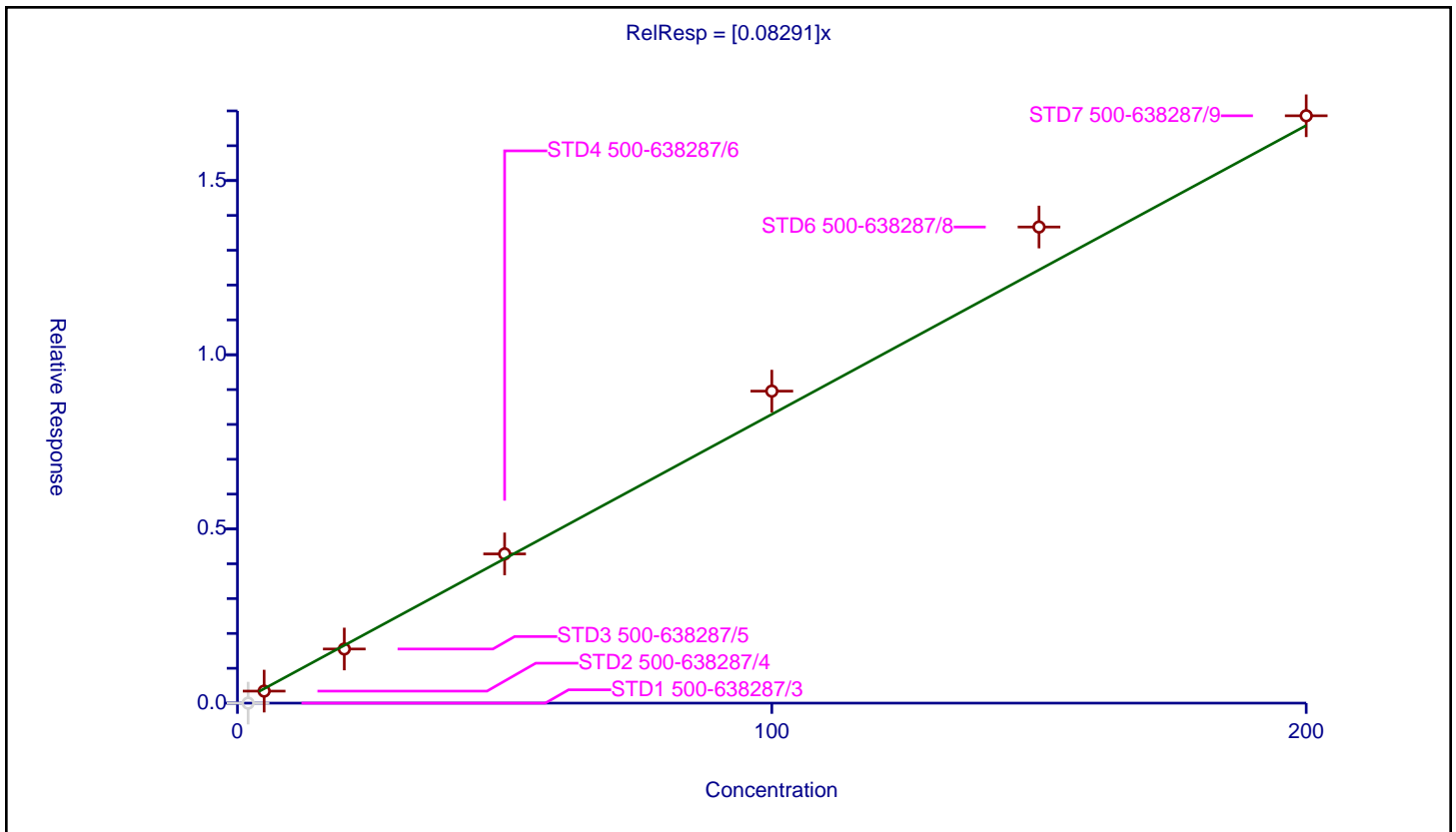
/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08291

Error Coefficients	
Standard Error:	140000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.0	53.43	687499.0	0.0	N
2	STD2 500-638287/4	5.0	0.345464	53.43	660404.0	0.069093	Y
3	STD3 500-638287/5	20.0	1.554197	53.43	652114.0	0.07771	Y
4	STD4 500-638287/6	50.0	4.283261	53.43	661329.0	0.085665	Y
5	STD5 500-638287/7	100.0	8.955935	53.43	677992.0	0.089559	Y
6	STD6 500-638287/8	150.0	13.666388	53.43	685891.0	0.091109	Y
7	STD7 500-638287/9	200.0	16.860355	53.43	715386.0	0.084302	Y



Calibration

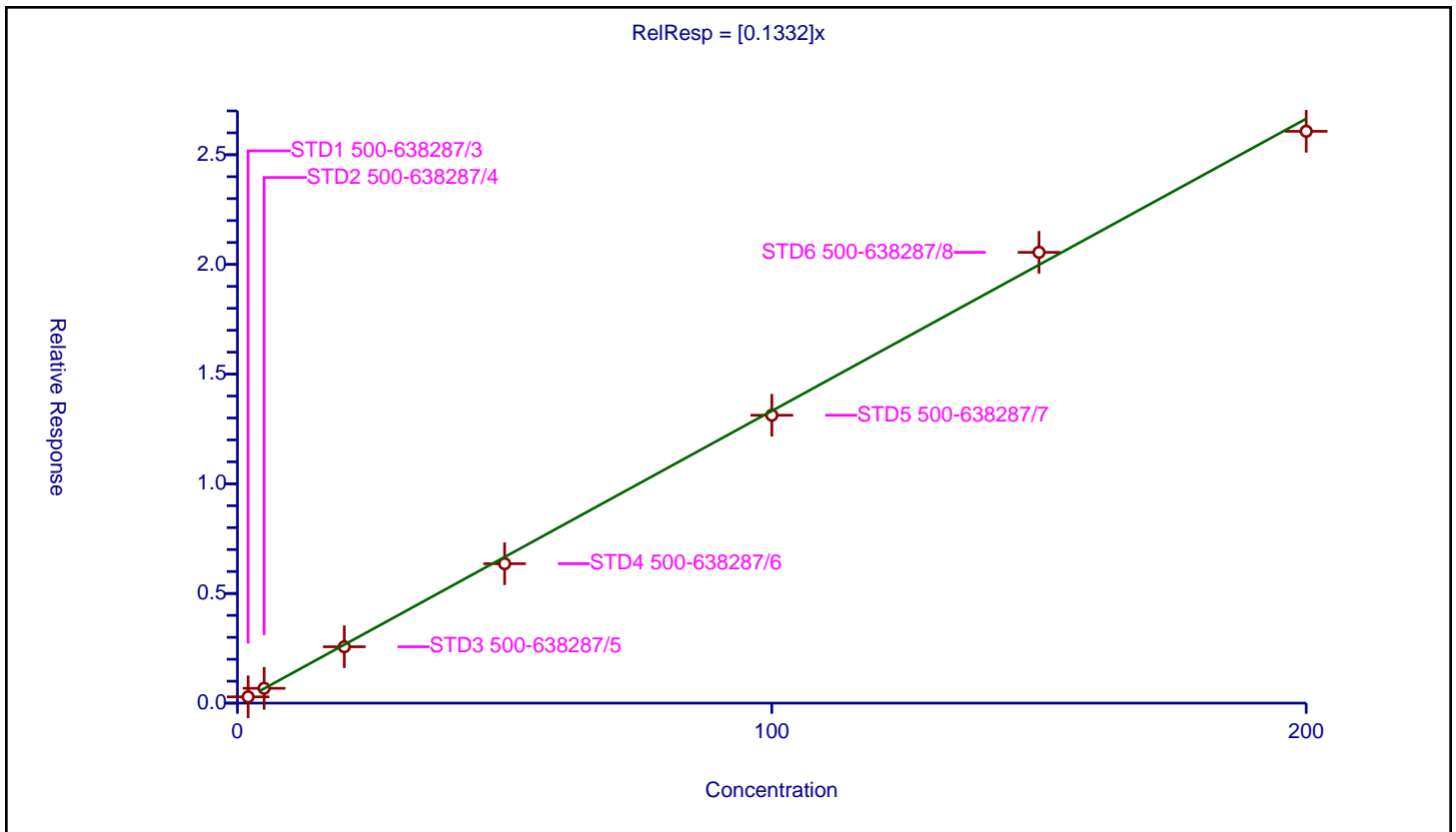
/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1332

Error Coefficients	
Standard Error:	194000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.285997	53.43	687499.0	0.142998	Y
2	STD2 500-638287/4	5.0	0.676285	53.43	660404.0	0.135257	Y
3	STD3 500-638287/5	20.0	2.569763	53.43	652114.0	0.128488	Y
4	STD4 500-638287/6	50.0	6.356057	53.43	661329.0	0.127121	Y
5	STD5 500-638287/7	100.0	13.124785	53.43	677992.0	0.131248	Y
6	STD6 500-638287/8	150.0	20.551696	53.43	685891.0	0.137011	Y
7	STD7 500-638287/9	200.0	26.070302	53.43	715386.0	0.130352	Y



Calibration

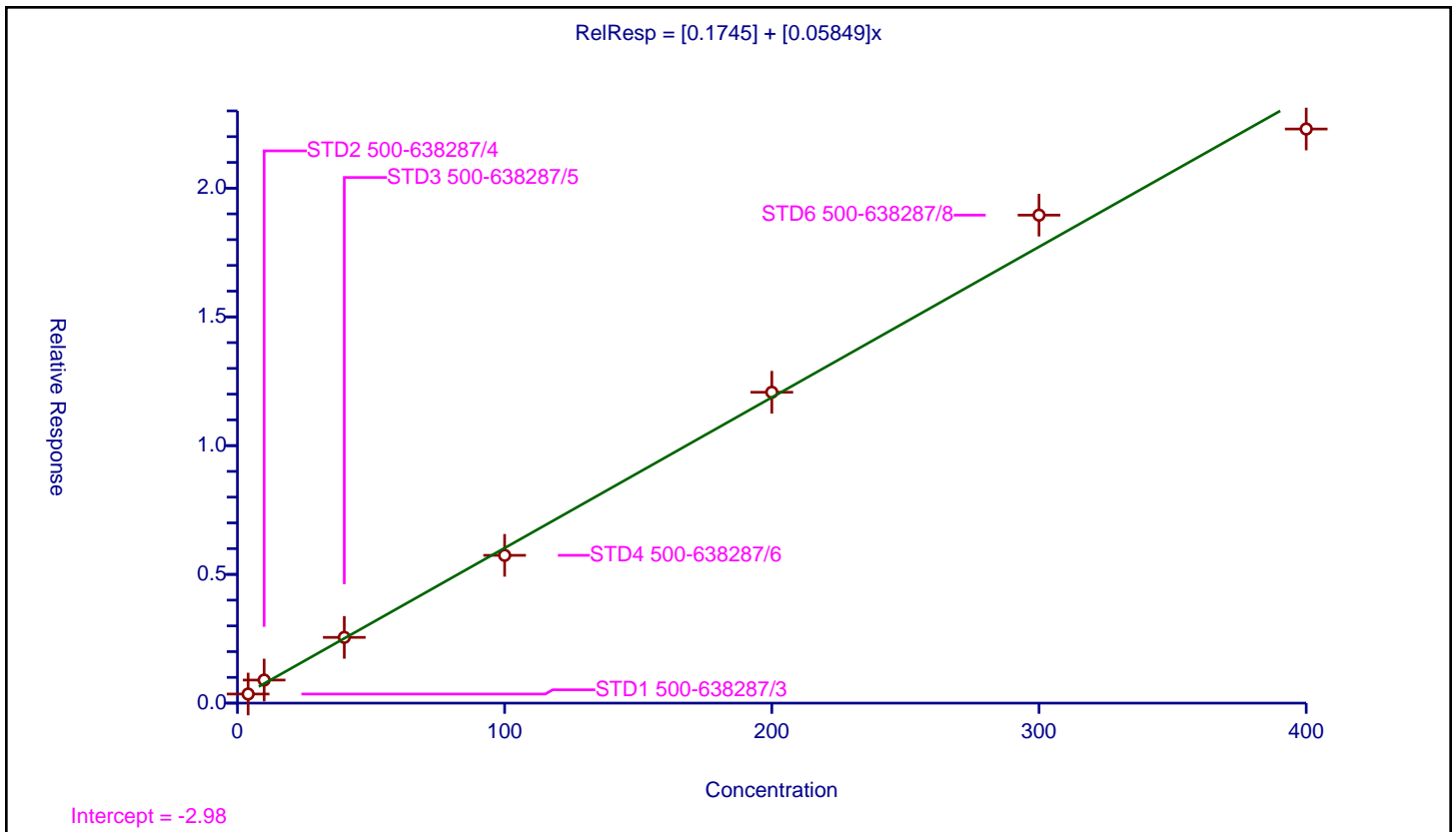
/ Tetrahydrofuran

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1745
Slope:	0.05849

Error Coefficients	
Standard Error:	189000
Relative Standard Error:	15.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	4.0	0.353455	53.43	687499.0	0.088364	Y
2	STD2 500-638287/4	10.0	0.895861	53.43	660404.0	0.089586	Y
3	STD3 500-638287/5	40.0	2.553131	53.43	652114.0	0.063828	Y
4	STD4 500-638287/6	100.0	5.740342	53.43	661329.0	0.057403	Y
5	STD5 500-638287/7	200.0	12.073116	53.43	677992.0	0.060366	Y
6	STD6 500-638287/8	300.0	18.951891	53.43	685891.0	0.063173	Y
7	STD7 500-638287/9	400.0	22.296893	53.43	715386.0	0.055742	Y



Calibration

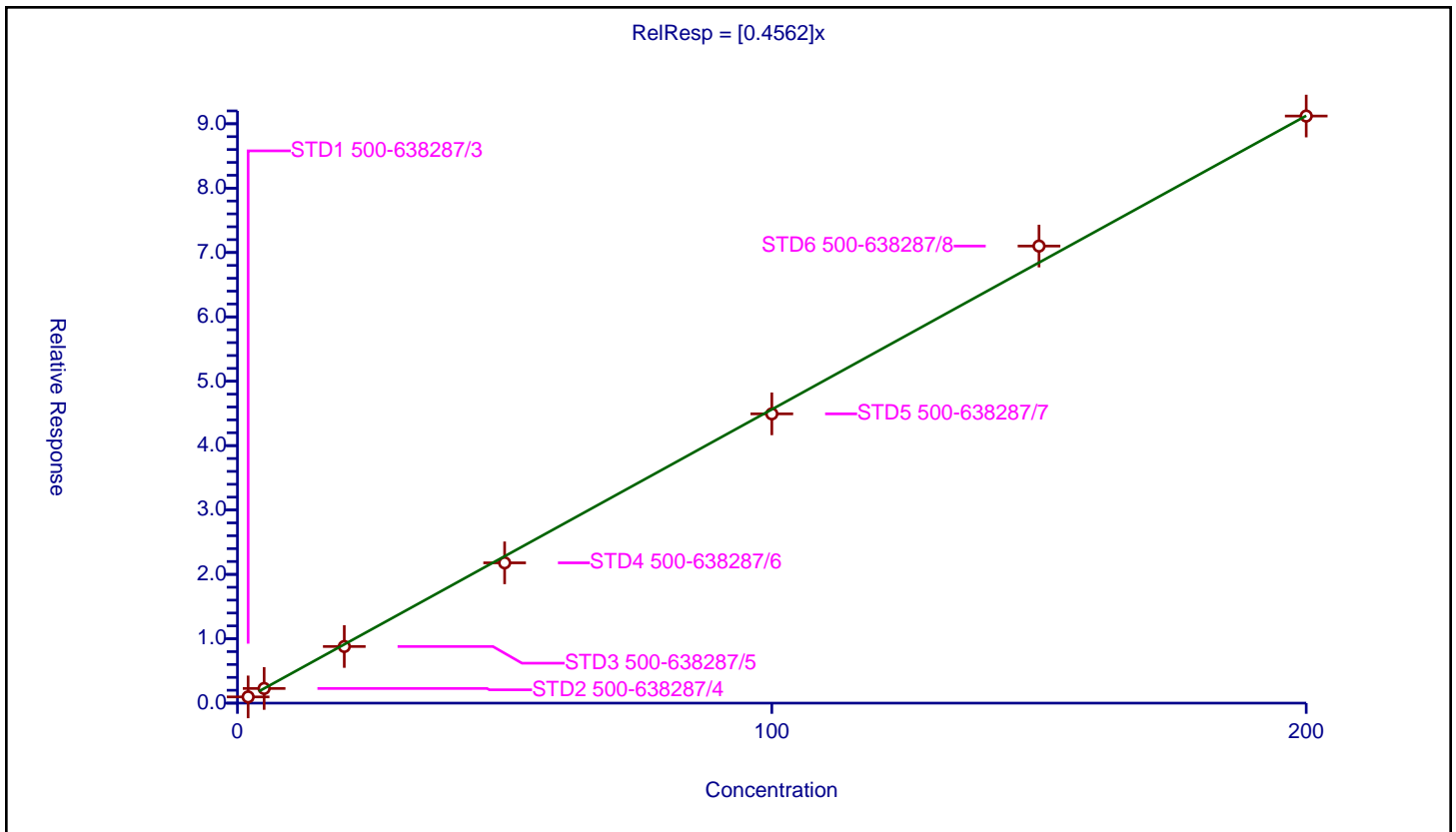
/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4562

Error Coefficients	
Standard Error:	675000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.966948	53.43	687499.0	0.483474	Y
2	STD2 500-638287/4	5.0	2.278366	53.43	660404.0	0.455673	Y
3	STD3 500-638287/5	20.0	8.798841	53.43	652114.0	0.439942	Y
4	STD4 500-638287/6	50.0	21.792796	53.43	661329.0	0.435856	Y
5	STD5 500-638287/7	100.0	44.936815	53.43	677992.0	0.449368	Y
6	STD6 500-638287/8	150.0	71.003396	53.43	685891.0	0.473356	Y
7	STD7 500-638287/9	200.0	91.200013	53.43	715386.0	0.456	Y



Calibration

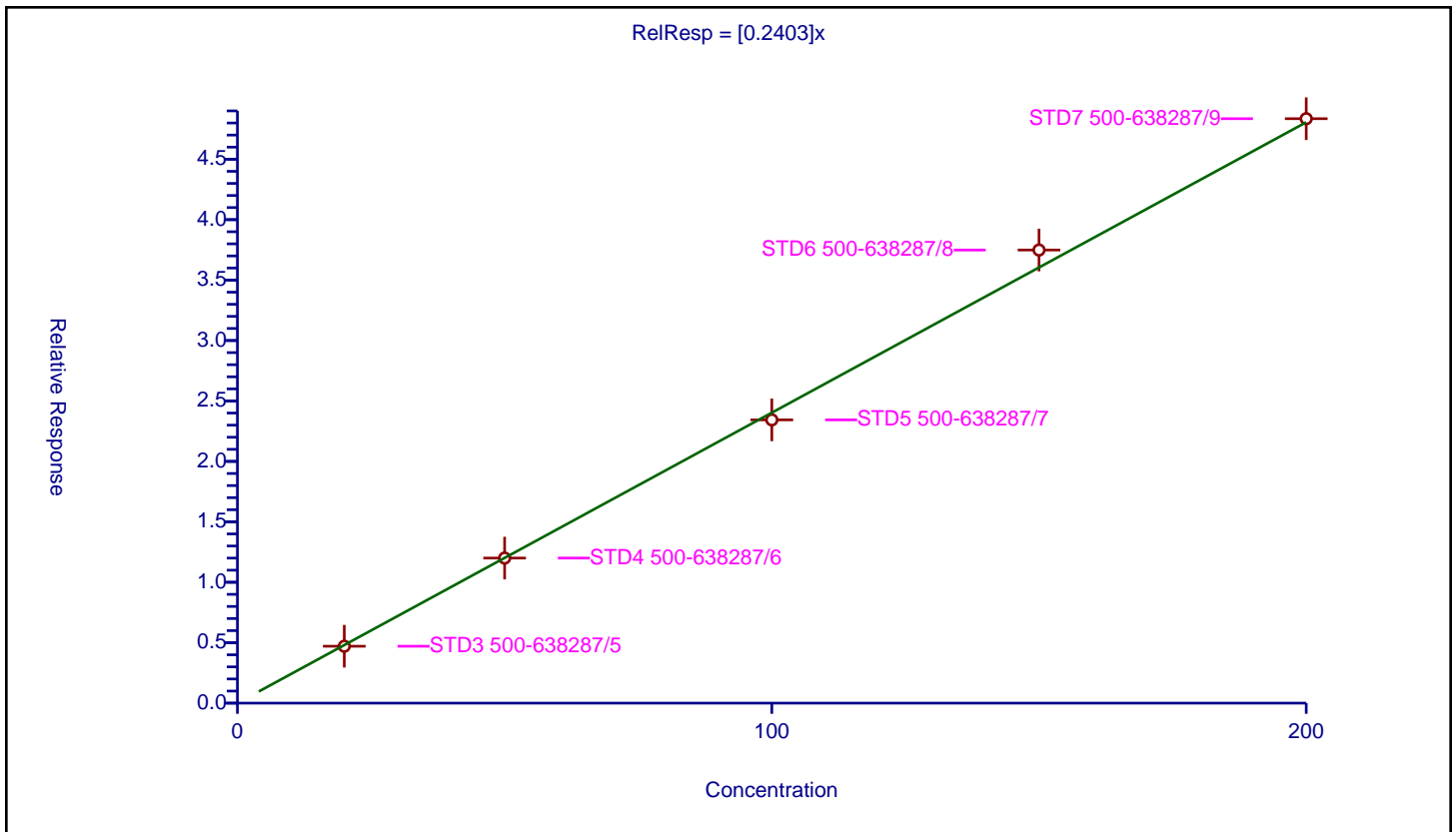
/ Dibromofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2403

Error Coefficients	
Standard Error:	437000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD3 500-638287/5	20.0	4.707081	53.43	652114.0	0.235354	Y
2	STD4 500-638287/6	50.0	12.001954	53.43	661329.0	0.240039	Y
3	STD5 500-638287/7	100.0	23.437212	53.43	677992.0	0.234372	Y
4	STD6 500-638287/8	150.0	37.488815	53.43	685891.0	0.249925	Y
5	STD7 500-638287/9	200.0	48.354051	53.43	715386.0	0.24177	Y



Calibration

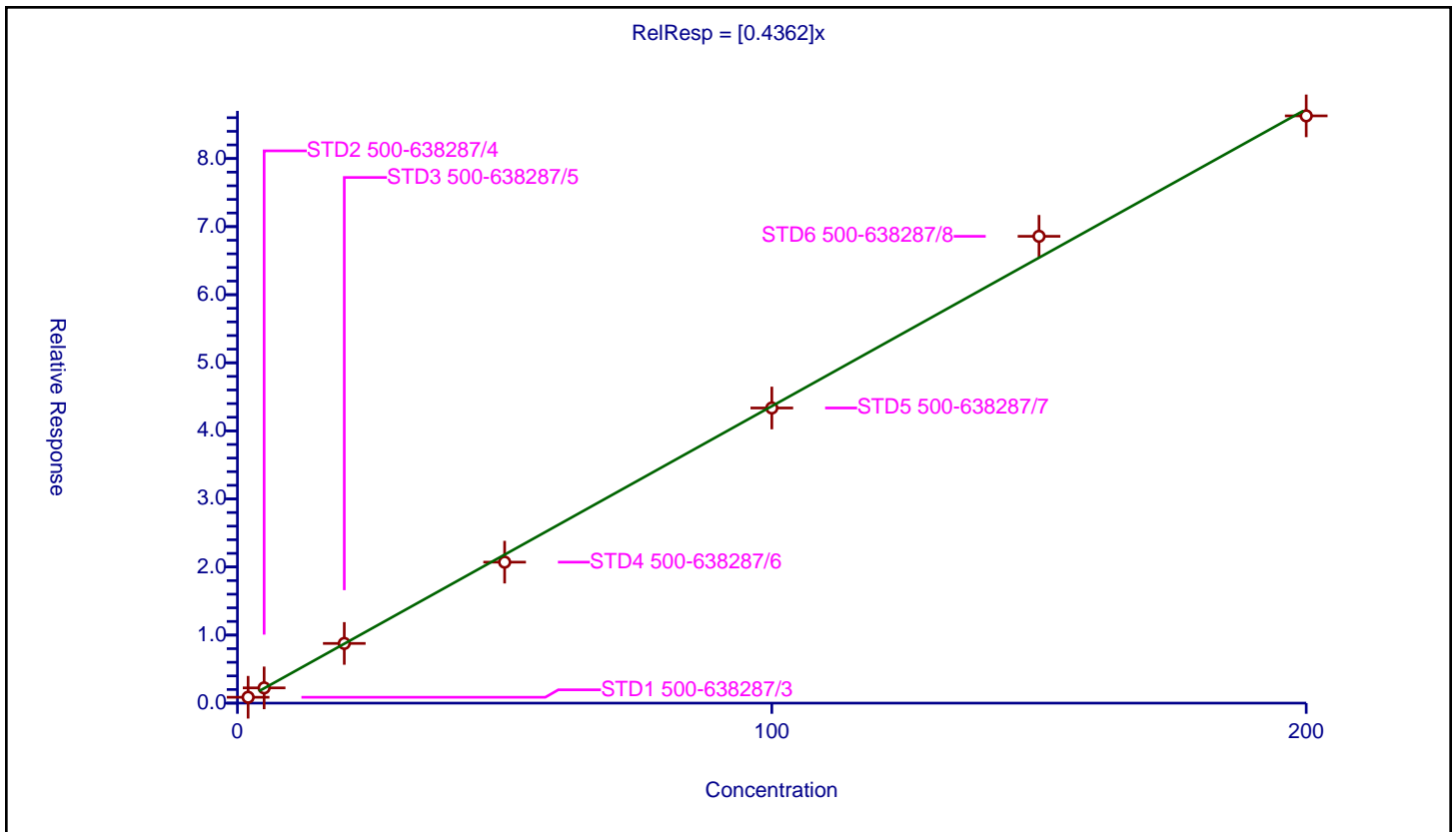
/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4362

Error Coefficients	
Standard Error:	644000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.861254	53.43	687499.0	0.430627	Y
2	STD2 500-638287/4	5.0	2.240017	53.43	660404.0	0.448003	Y
3	STD3 500-638287/5	20.0	8.770984	53.43	652114.0	0.438549	Y
4	STD4 500-638287/6	50.0	20.709297	53.43	661329.0	0.414186	Y
5	STD5 500-638287/7	100.0	43.35541	53.43	677992.0	0.433554	Y
6	STD6 500-638287/8	150.0	68.575216	53.43	685891.0	0.457168	Y
7	STD7 500-638287/9	200.0	86.267612	53.43	715386.0	0.431338	Y



Calibration

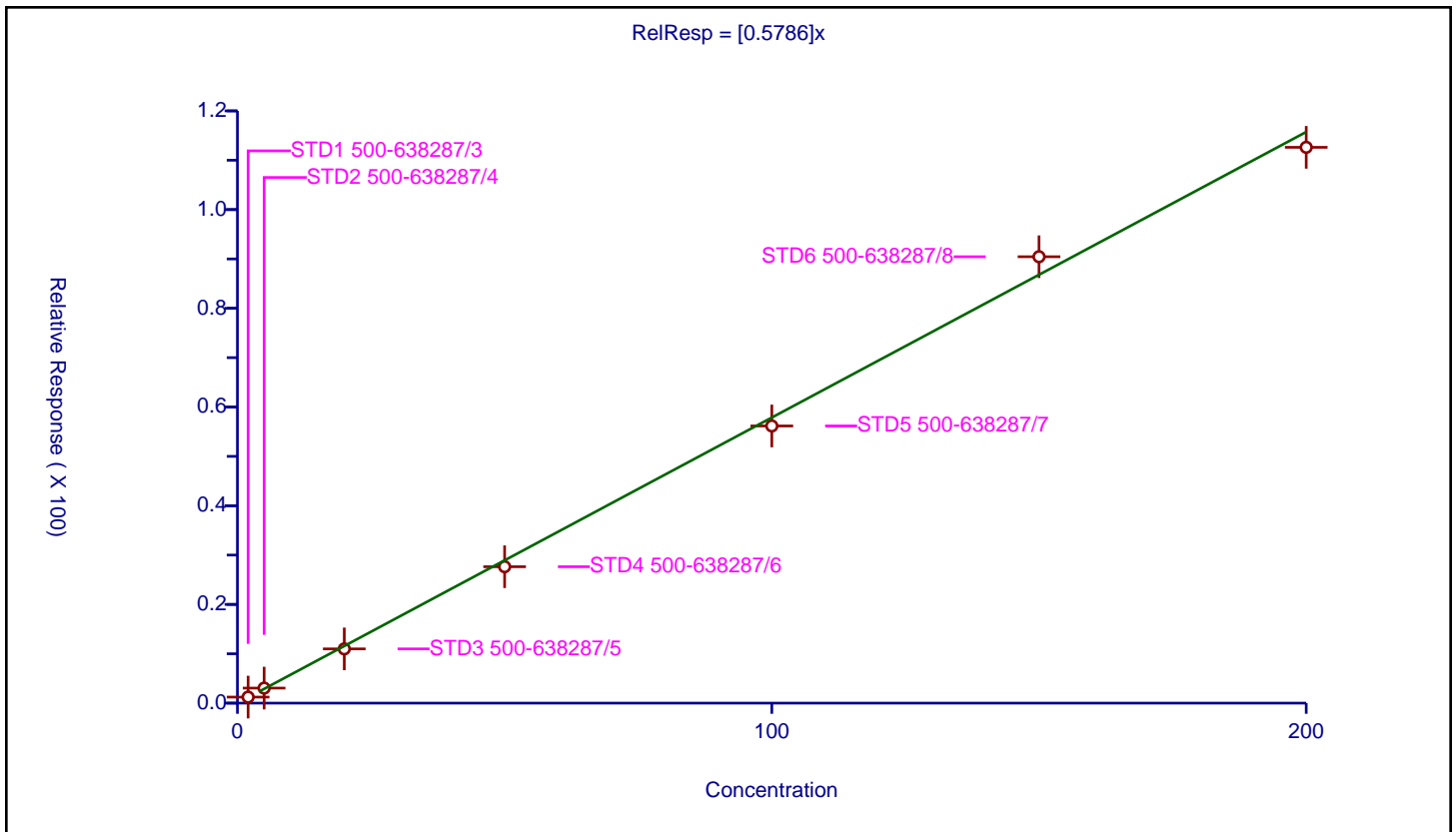
/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5786

Error Coefficients	
Standard Error:	843000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.223646	53.43	687499.0	0.611823	Y
2	STD2 500-638287/4	5.0	3.044213	53.43	660404.0	0.608843	Y
3	STD3 500-638287/5	20.0	10.988843	53.43	652114.0	0.549442	Y
4	STD4 500-638287/6	50.0	27.637764	53.43	661329.0	0.552755	Y
5	STD5 500-638287/7	100.0	56.158666	53.43	677992.0	0.561587	Y
6	STD6 500-638287/8	150.0	90.446593	53.43	685891.0	0.602977	Y
7	STD7 500-638287/9	200.0	112.617542	53.43	715386.0	0.563088	Y



Calibration

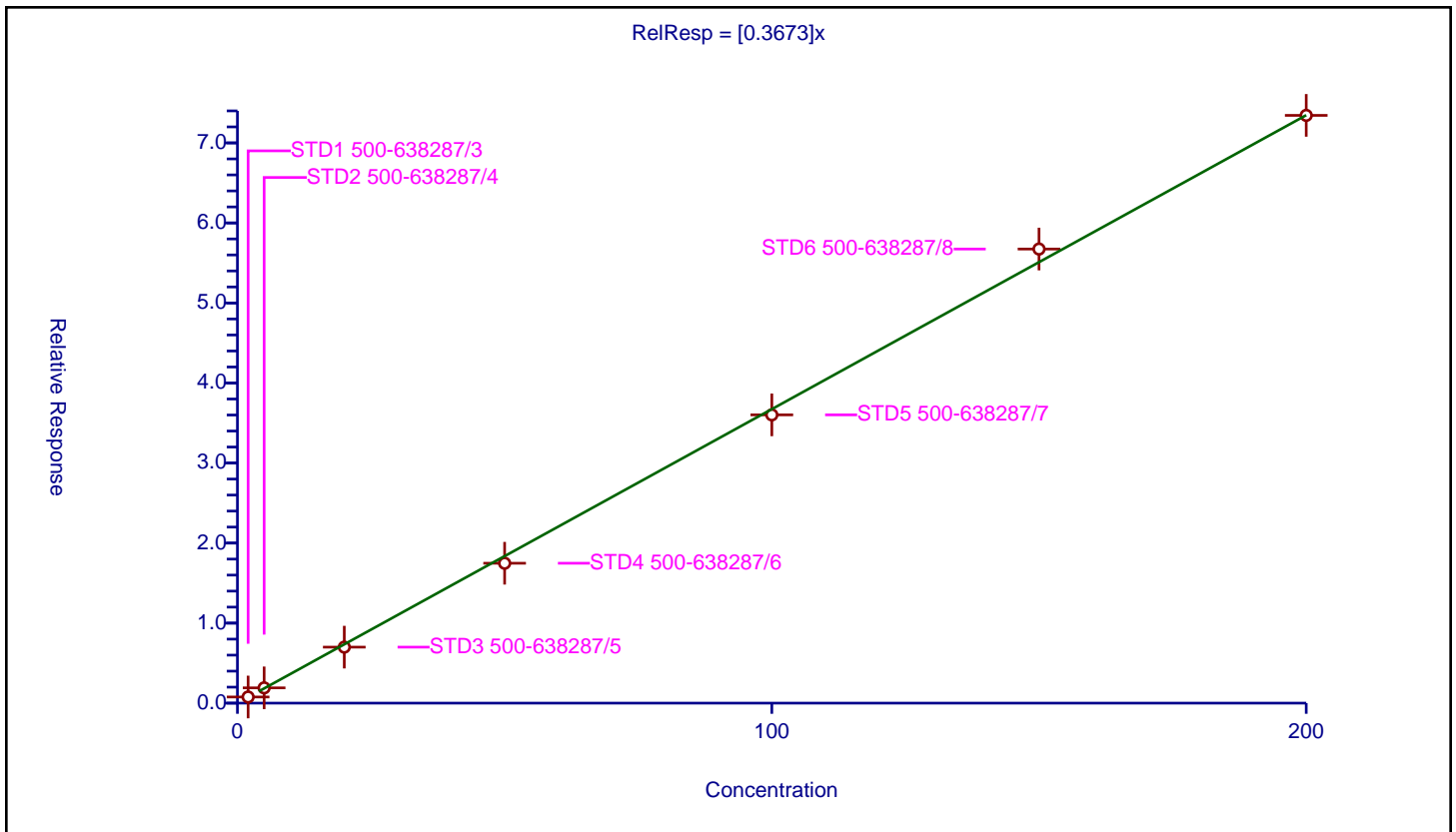
/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3673

Error Coefficients	
Standard Error:	542000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.768694	53.43	687499.0	0.384347	Y
2	STD2 500-638287/4	5.0	1.908954	53.43	660404.0	0.381791	Y
3	STD3 500-638287/5	20.0	6.998106	53.43	652114.0	0.349905	Y
4	STD4 500-638287/6	50.0	17.477945	53.43	661329.0	0.349559	Y
5	STD5 500-638287/7	100.0	36.018943	53.43	677992.0	0.360189	Y
6	STD6 500-638287/8	150.0	56.738279	53.43	685891.0	0.378255	Y
7	STD7 500-638287/9	200.0	73.437738	53.43	715386.0	0.367189	Y



Calibration

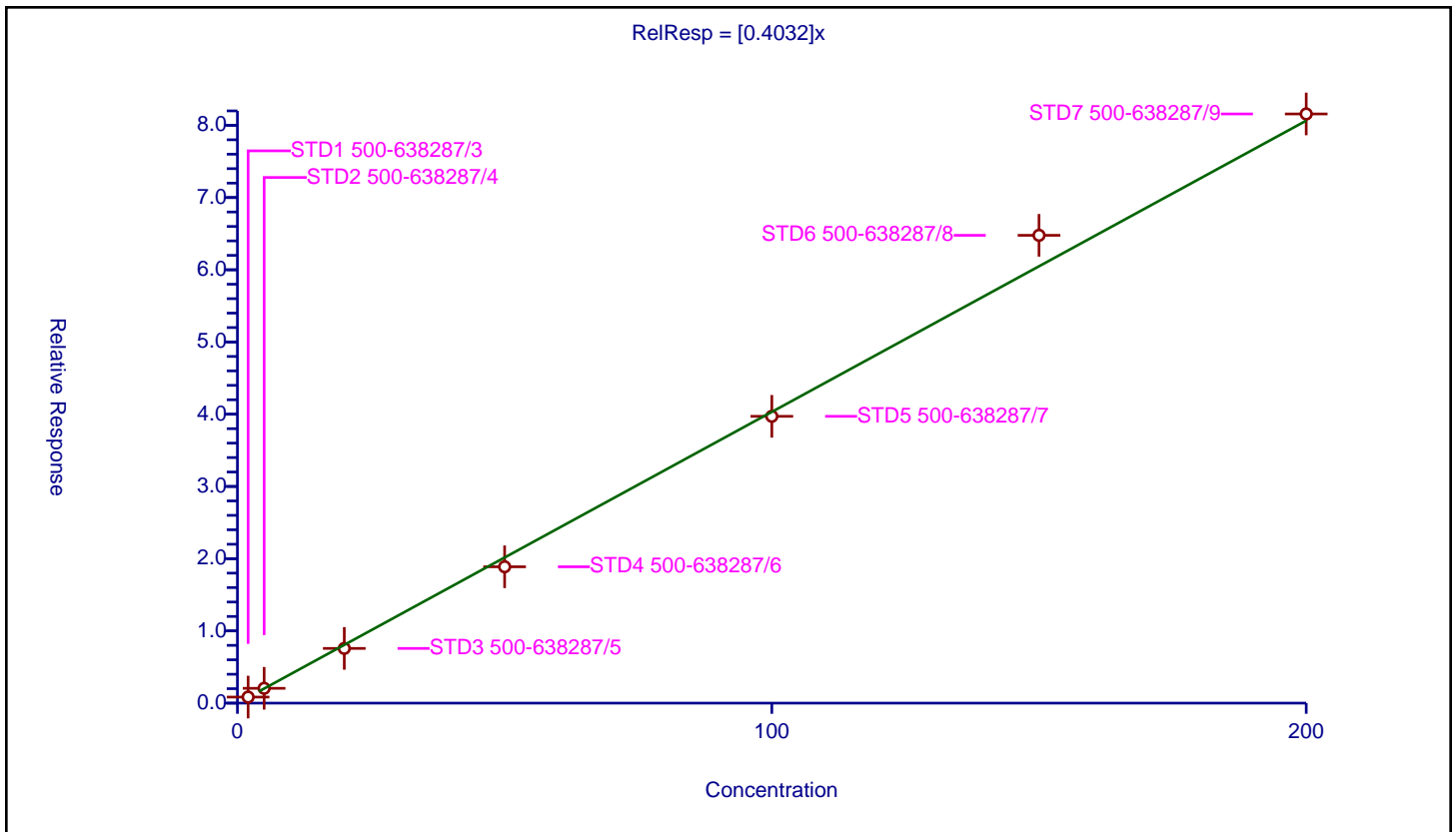
/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4032

Error Coefficients	
Standard Error:	606000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.837628	53.43	687499.0	0.418814	Y
2	STD2 500-638287/4	5.0	2.053369	53.43	660404.0	0.410674	Y
3	STD3 500-638287/5	20.0	7.574918	53.43	652114.0	0.378746	Y
4	STD4 500-638287/6	50.0	18.878715	53.43	661329.0	0.377574	Y
5	STD5 500-638287/7	100.0	39.709282	53.43	677992.0	0.397093	Y
6	STD6 500-638287/8	150.0	64.771891	53.43	685891.0	0.431813	Y
7	STD7 500-638287/9	200.0	81.574434	53.43	715386.0	0.407872	Y



Calibration

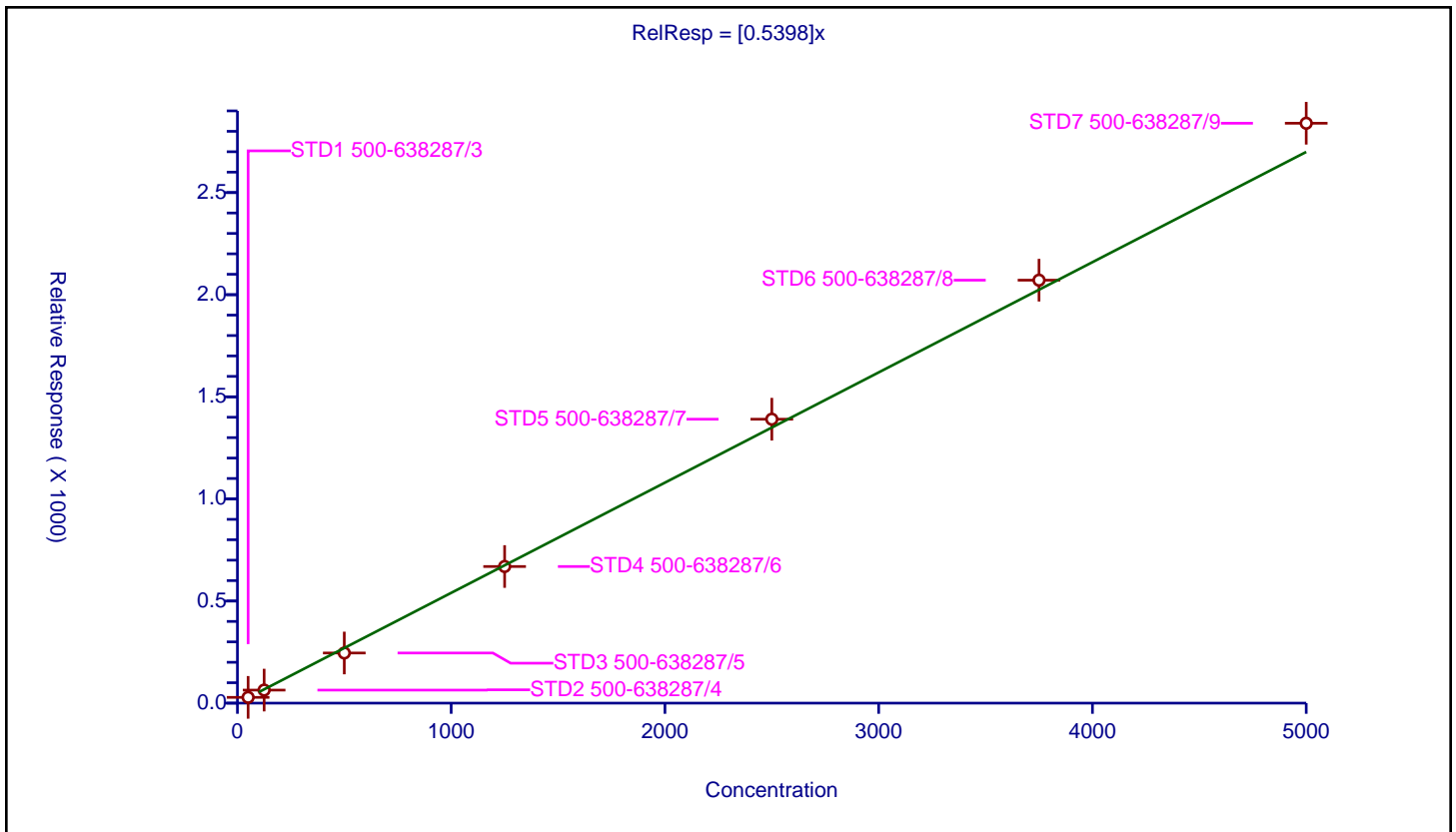
/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5398

Error Coefficients	
Standard Error:	351000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	50.0	28.247211	1068.6	262580.0	0.564944	Y
2	STD2 500-638287/4	125.0	63.878321	1068.6	255012.0	0.511027	Y
3	STD3 500-638287/5	500.0	245.563312	1068.6	235732.0	0.491127	Y
4	STD4 500-638287/6	1250.0	668.997438	1068.6	221110.0	0.535198	Y
5	STD5 500-638287/7	2500.0	1390.269492	1068.6	237948.0	0.556108	Y
6	STD6 500-638287/8	3750.0	2071.087795	1068.6	256352.0	0.55229	Y
7	STD7 500-638287/9	5000.0	2839.447776	1068.6	231567.0	0.56789	Y



Calibration

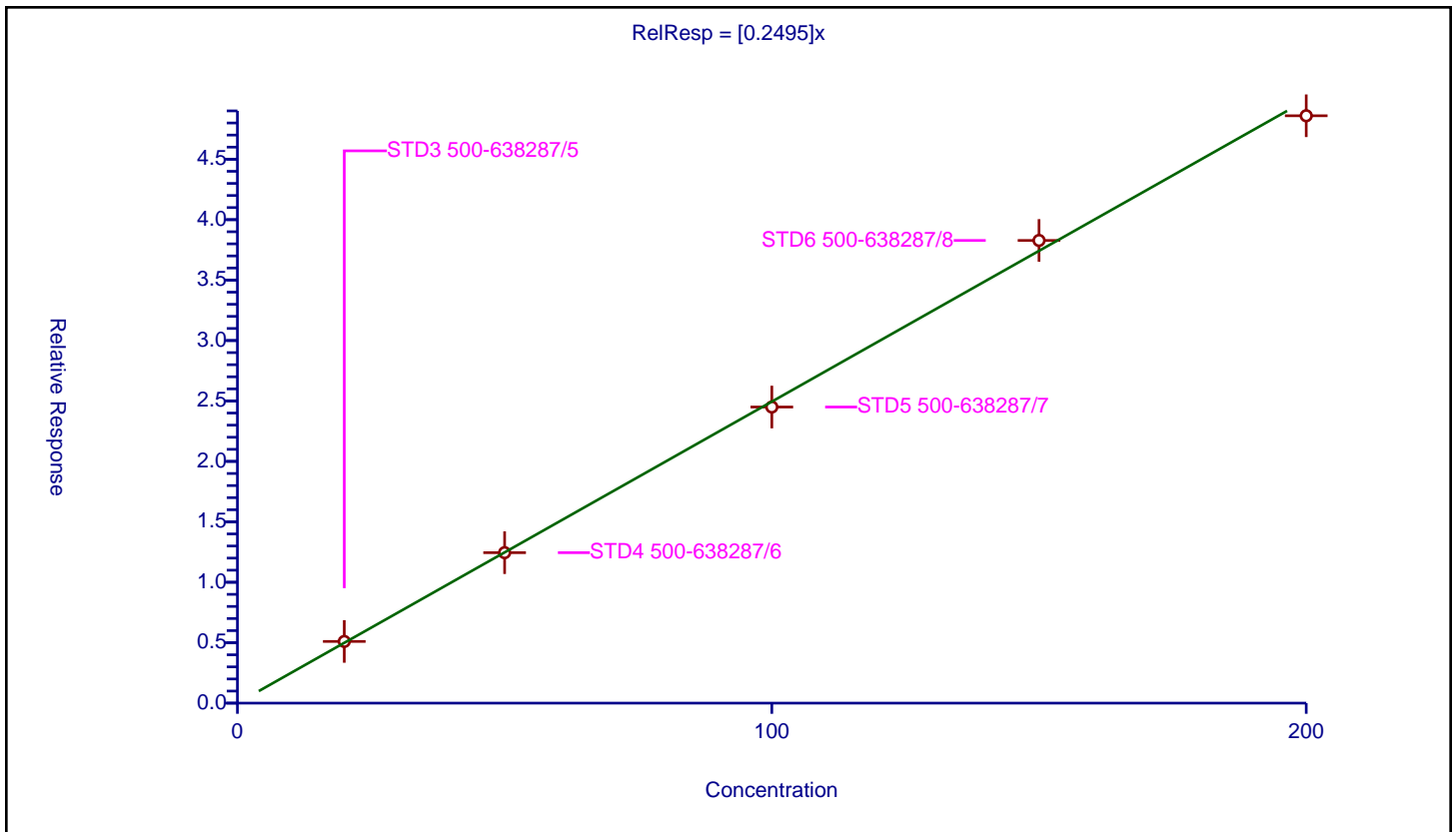
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2495

Error Coefficients	
Standard Error:	444000
Relative Standard Error:	2.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD3 500-638287/5	20.0	5.103721	53.43	652114.0	0.255186	Y
2	STD4 500-638287/6	50.0	12.448975	53.43	661329.0	0.24898	Y
3	STD5 500-638287/7	100.0	24.498338	53.43	677992.0	0.244983	Y
4	STD6 500-638287/8	150.0	38.278552	53.43	685891.0	0.25519	Y
5	STD7 500-638287/9	200.0	48.595812	53.43	715386.0	0.242979	Y



Calibration

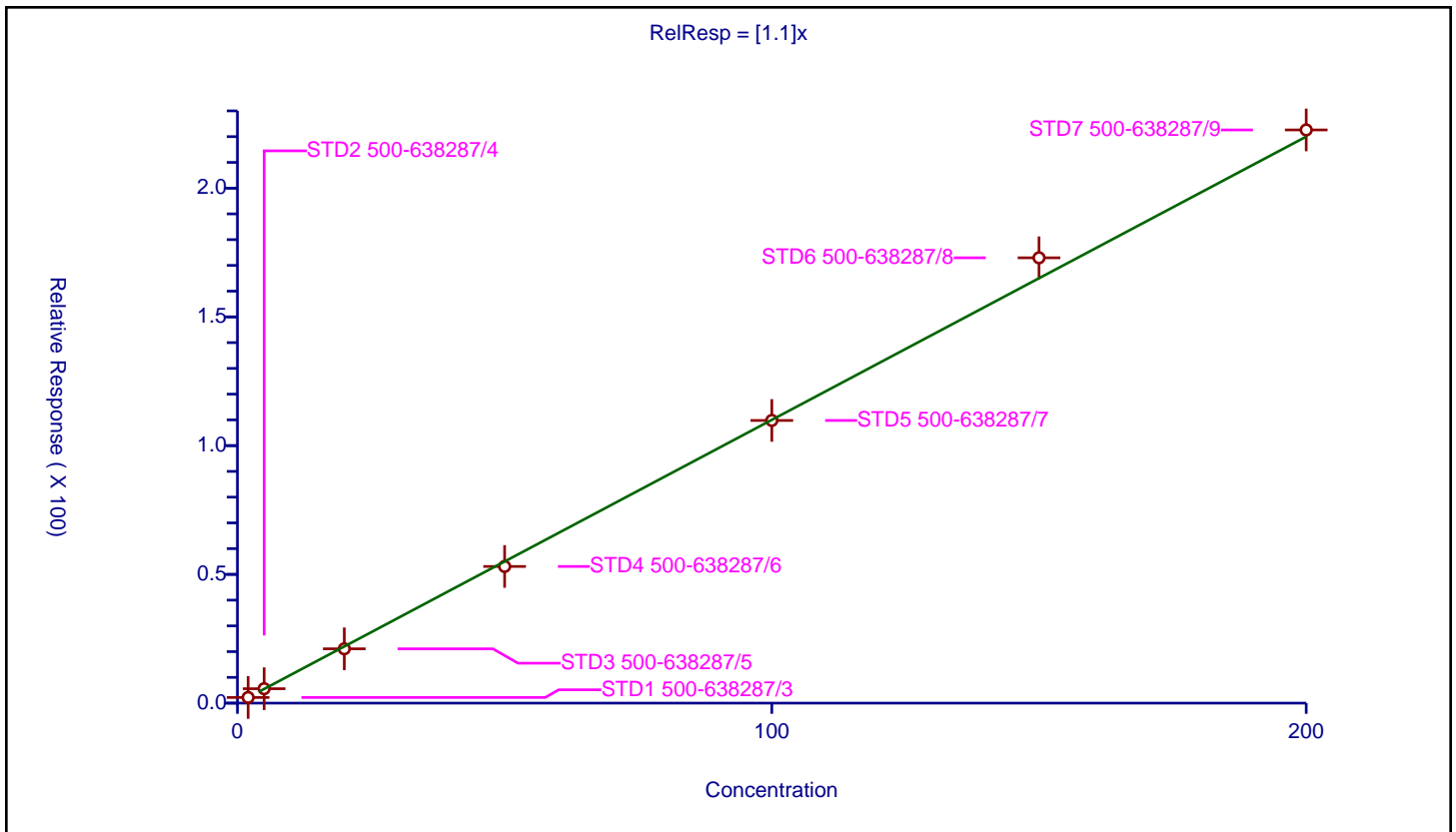
/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.1

Error Coefficients	
Standard Error:	1650000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.19891	53.43	687499.0	1.099455	Y
2	STD2 500-638287/4	5.0	5.602673	53.43	660404.0	1.120535	Y
3	STD3 500-638287/5	20.0	21.09903	53.43	652114.0	1.054952	Y
4	STD4 500-638287/6	50.0	53.073304	53.43	661329.0	1.061466	Y
5	STD5 500-638287/7	100.0	109.784184	53.43	677992.0	1.097842	Y
6	STD6 500-638287/8	150.0	172.947288	53.43	685891.0	1.152982	Y
7	STD7 500-638287/9	200.0	222.599532	53.43	715386.0	1.112998	Y



Calibration

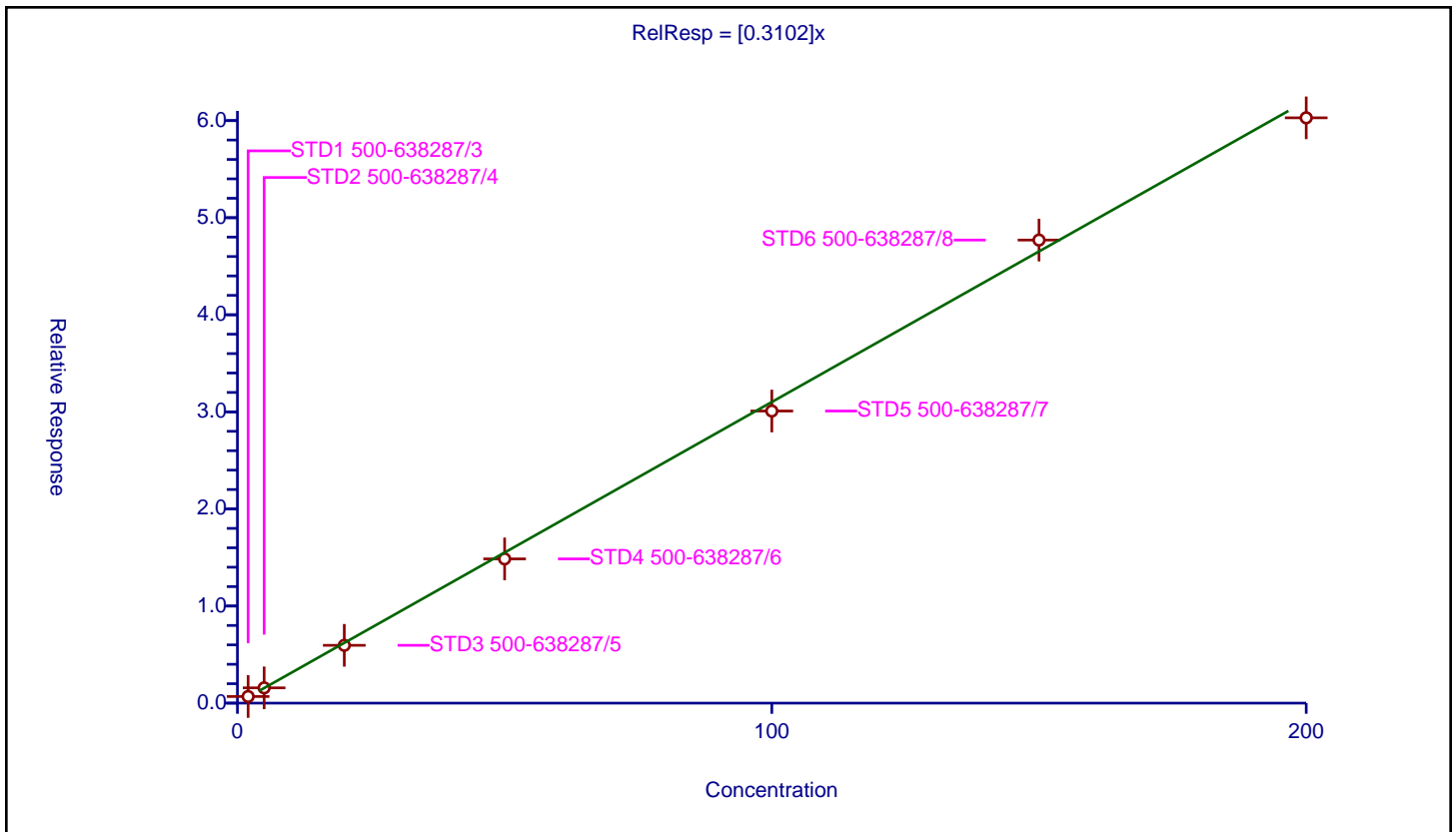
/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3102

Error Coefficients	
Standard Error:	449000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.682972	53.43	687499.0	0.341486	Y
2	STD2 500-638287/4	5.0	1.572632	53.43	660404.0	0.314526	Y
3	STD3 500-638287/5	20.0	5.954027	53.43	652114.0	0.297701	Y
4	STD4 500-638287/6	50.0	14.856088	53.43	661329.0	0.297122	Y
5	STD5 500-638287/7	100.0	30.086331	53.43	677992.0	0.300863	Y
6	STD6 500-638287/8	150.0	47.69658	53.43	685891.0	0.317977	Y
7	STD7 500-638287/9	200.0	60.287831	53.43	715386.0	0.301439	Y



Calibration

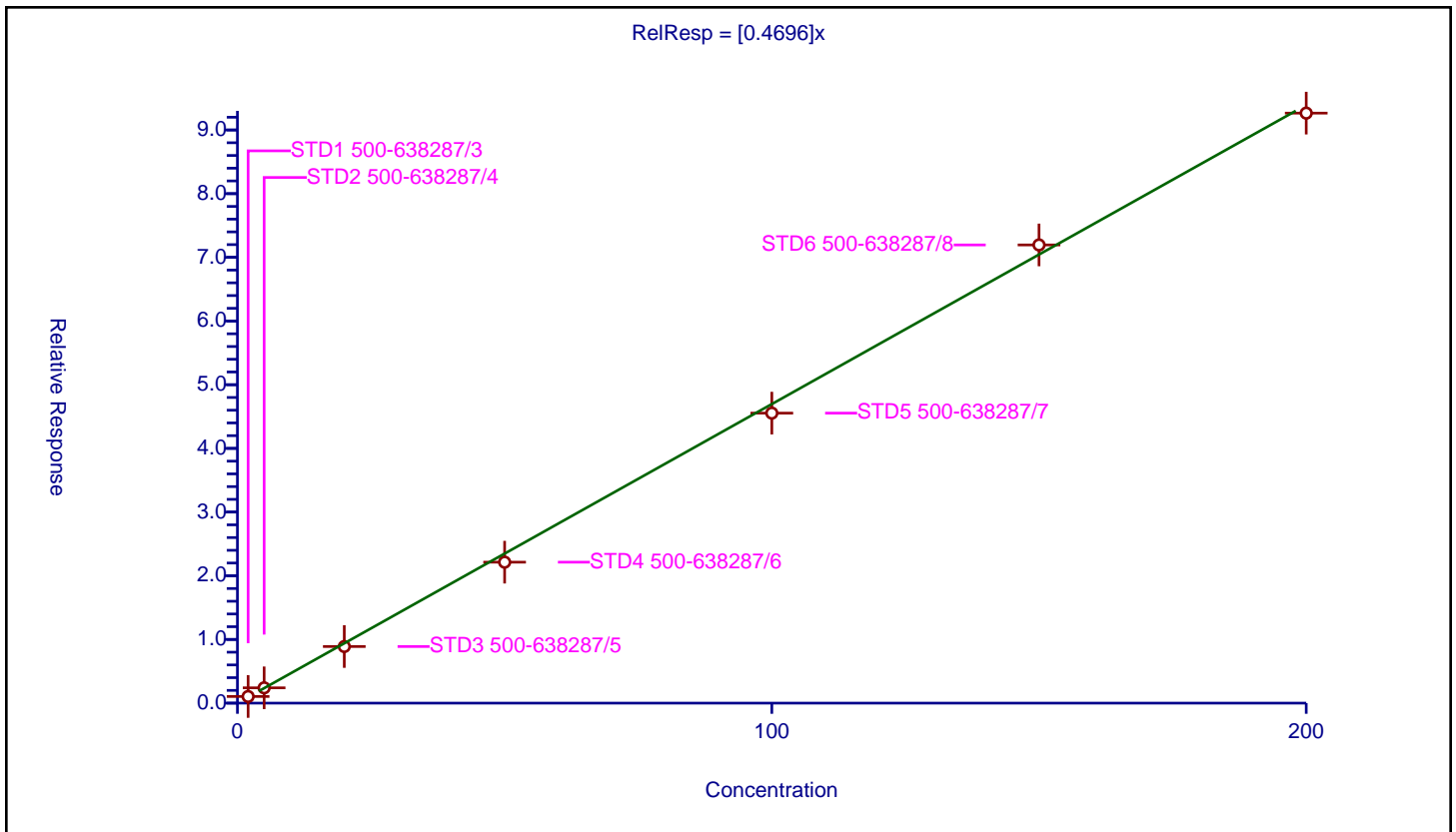
/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4696

Error Coefficients	
Standard Error:	685000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.043111	53.43	687499.0	0.521555	Y
2	STD2 500-638287/4	5.0	2.401423	53.43	660404.0	0.480285	Y
3	STD3 500-638287/5	20.0	8.888804	53.43	652114.0	0.444444	Y
4	STD4 500-638287/6	50.0	22.133819	53.43	661329.0	0.442676	Y
5	STD5 500-638287/7	100.0	45.539604	53.43	677992.0	0.455396	Y
6	STD6 500-638287/8	150.0	71.949475	53.43	685891.0	0.479663	Y
7	STD7 500-638287/9	200.0	92.64767	53.43	715386.0	0.463238	Y



Calibration

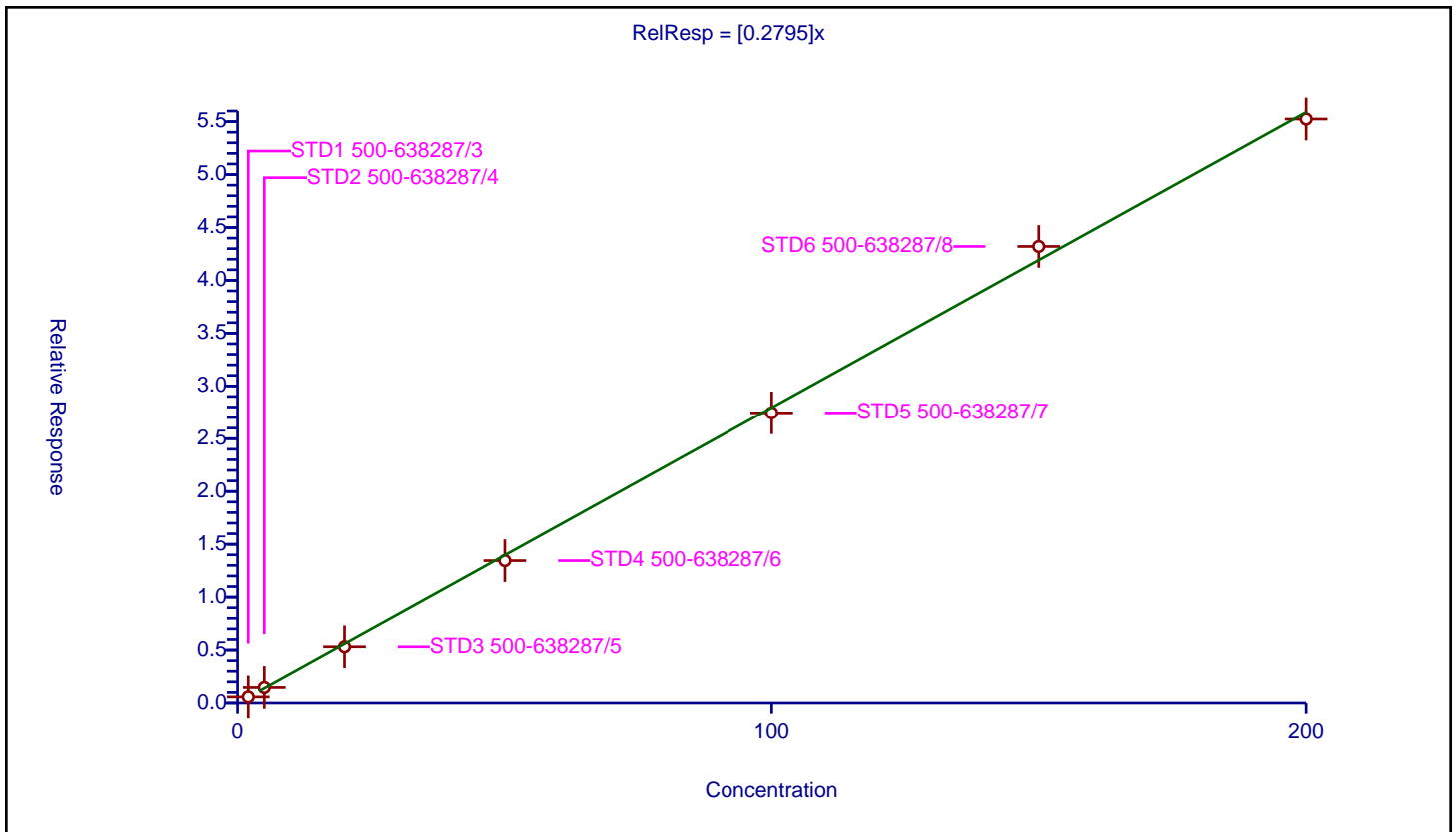
/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2795

Error Coefficients	
Standard Error:	410000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.578288	53.43	687499.0	0.289144	Y
2	STD2 500-638287/4	5.0	1.468426	53.43	660404.0	0.293685	Y
3	STD3 500-638287/5	20.0	5.31044	53.43	652114.0	0.265522	Y
4	STD4 500-638287/6	50.0	13.451198	53.43	661329.0	0.269024	Y
5	STD5 500-638287/7	100.0	27.44908	53.43	677992.0	0.274491	Y
6	STD6 500-638287/8	150.0	43.210005	53.43	685891.0	0.288067	Y
7	STD7 500-638287/9	200.0	55.246835	53.43	715386.0	0.276234	Y



Calibration

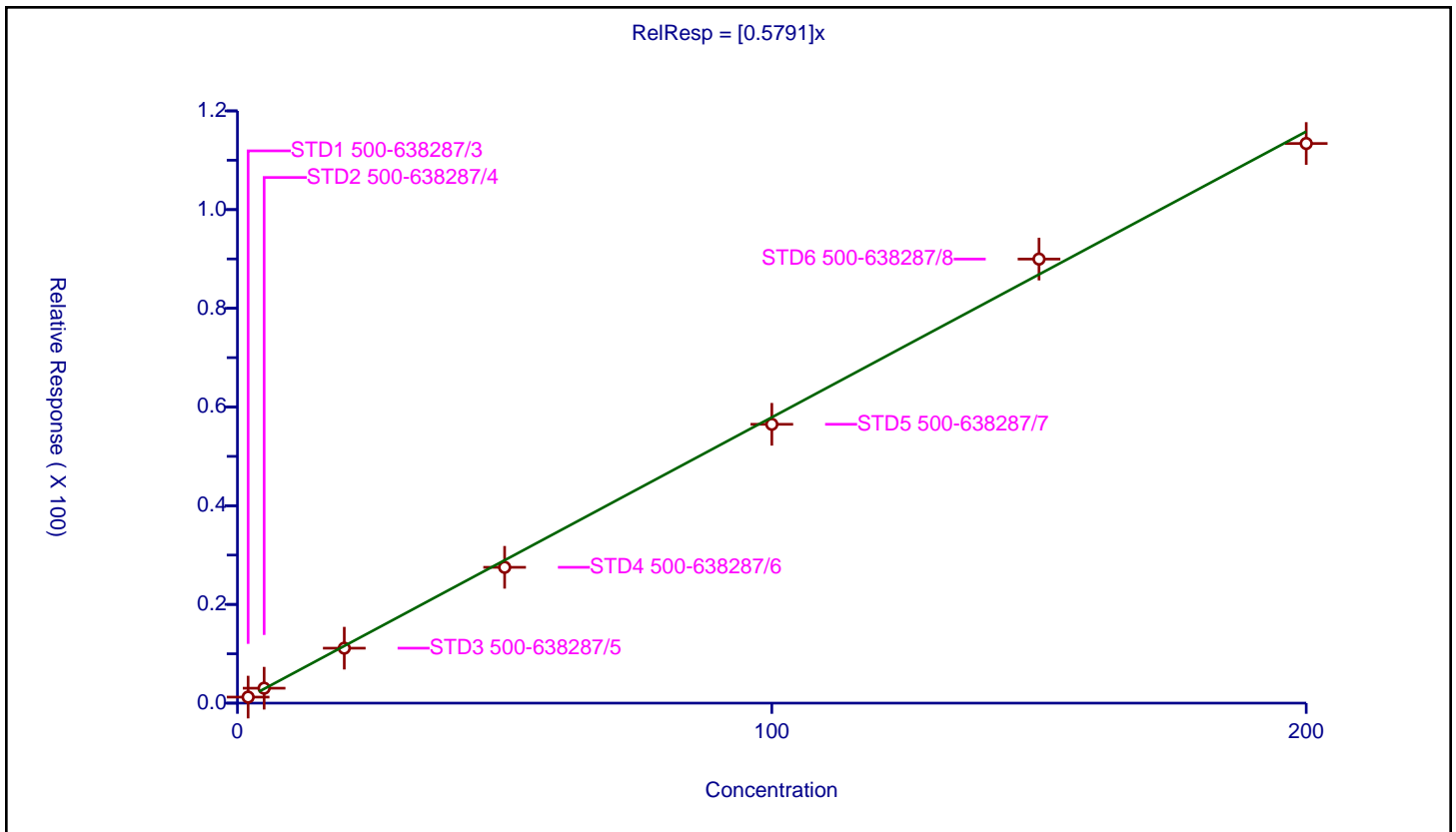
/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5791

Error Coefficients	
Standard Error:	845000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.220071	53.43	687499.0	0.610035	Y
2	STD2 500-638287/4	5.0	3.023259	53.43	660404.0	0.604652	Y
3	STD3 500-638287/5	20.0	11.13534	53.43	652114.0	0.556767	Y
4	STD4 500-638287/6	50.0	27.517384	53.43	661329.0	0.550348	Y
5	STD5 500-638287/7	100.0	56.498794	53.43	677992.0	0.564988	Y
6	STD6 500-638287/8	150.0	89.971957	53.43	685891.0	0.599813	Y
7	STD7 500-638287/9	200.0	113.396975	53.43	715386.0	0.566985	Y



Calibration

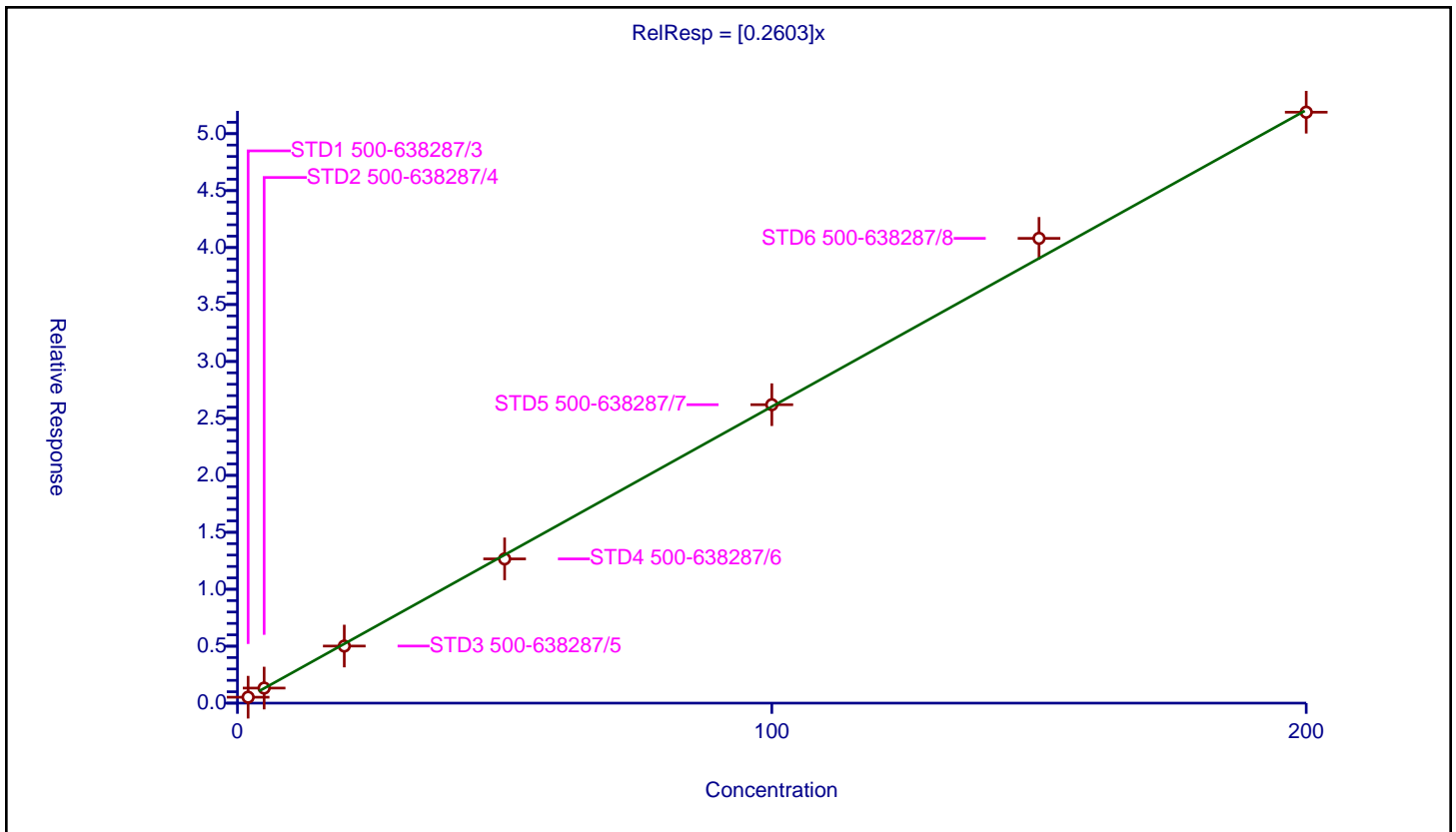
/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2603

Error Coefficients	
Standard Error:	386000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.521011	53.43	687499.0	0.260506	Y
2	STD2 500-638287/4	5.0	1.322393	53.43	660404.0	0.264479	Y
3	STD3 500-638287/5	20.0	5.01212	53.43	652114.0	0.250606	Y
4	STD4 500-638287/6	50.0	12.664932	53.43	661329.0	0.253299	Y
5	STD5 500-638287/7	100.0	26.205124	53.43	677992.0	0.262051	Y
6	STD6 500-638287/8	150.0	40.807688	53.43	685891.0	0.272051	Y
7	STD7 500-638287/9	200.0	51.886146	53.43	715386.0	0.259431	Y



Calibration

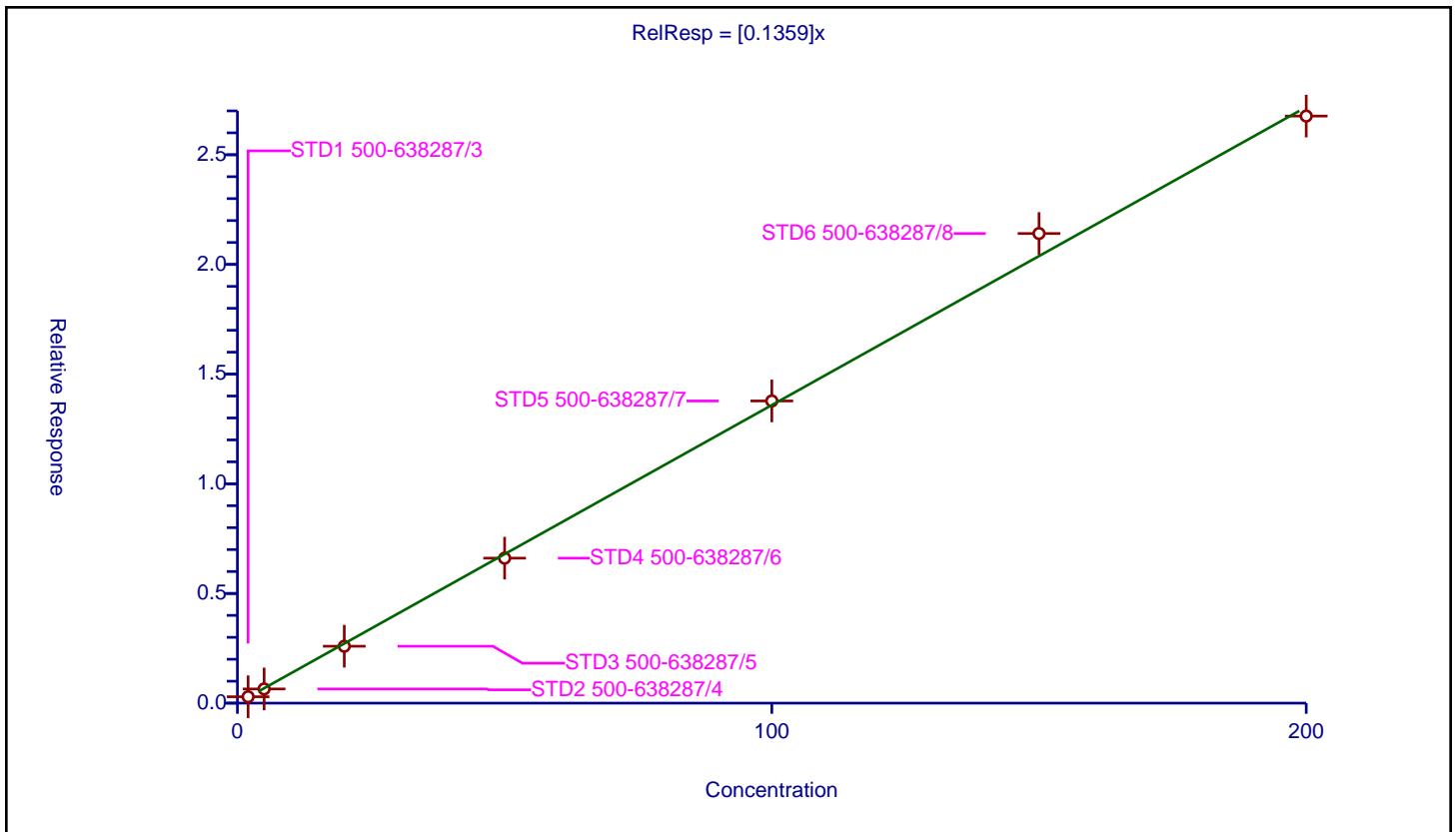
/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1359

Error Coefficients	
Standard Error:	201000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.291048	53.43	687499.0	0.145524	Y
2	STD2 500-638287/4	5.0	0.646593	53.43	660404.0	0.129319	Y
3	STD3 500-638287/5	20.0	2.594753	53.43	652114.0	0.129738	Y
4	STD4 500-638287/6	50.0	6.610067	53.43	661329.0	0.132201	Y
5	STD5 500-638287/7	100.0	13.775646	53.43	677992.0	0.137756	Y
6	STD6 500-638287/8	150.0	21.410217	53.43	685891.0	0.142735	Y
7	STD7 500-638287/9	200.0	26.763322	53.43	715386.0	0.133817	Y



Calibration

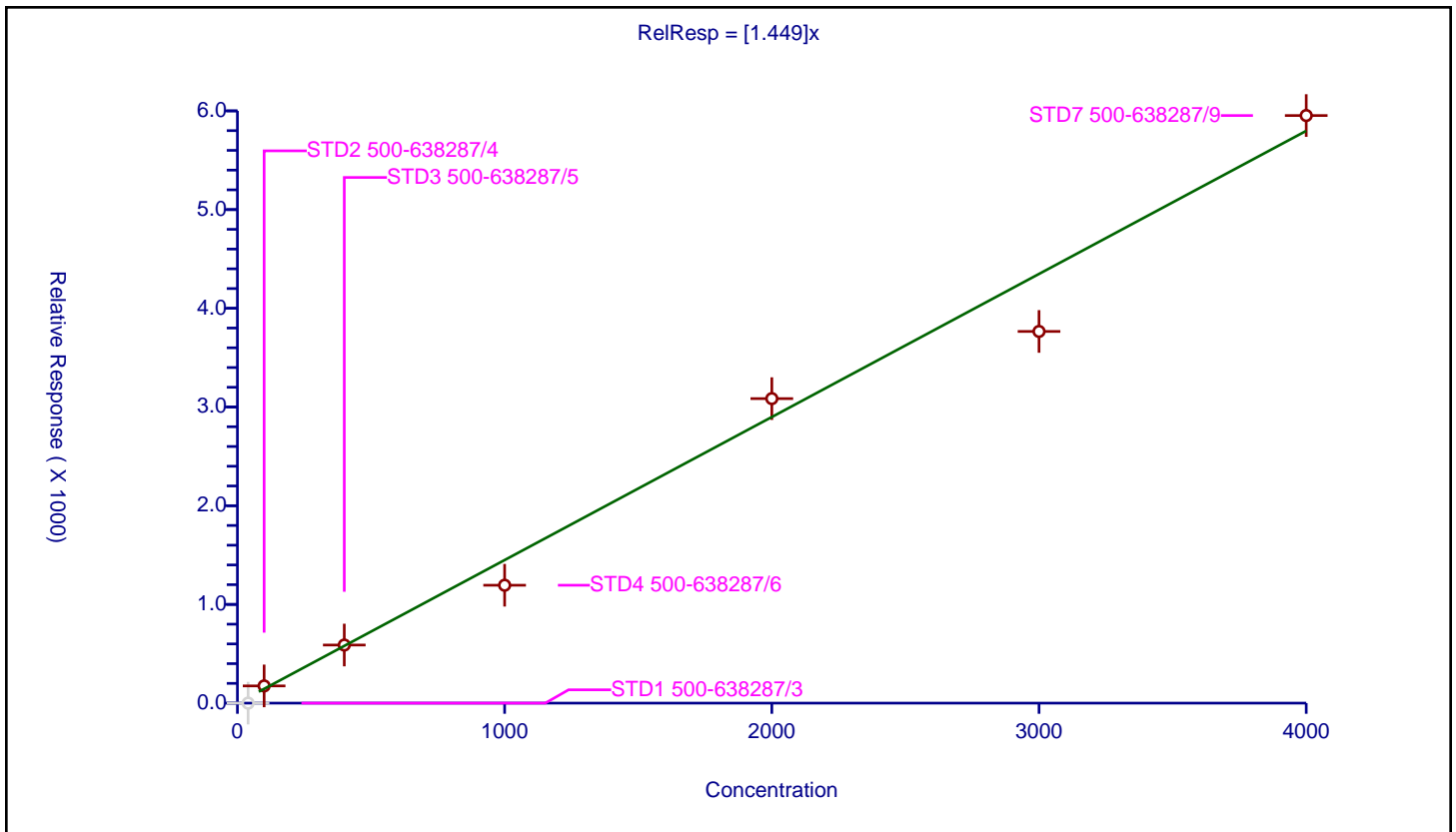
/ 1,4-Dioxane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.449

Error Coefficients	
Standard Error:	56500
Relative Standard Error:	13.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	40.0	0.0	1068.6	19545.0	0.0	N
2	STD2 500-638287/4	100.0	174.438503	1068.6	17900.0	1.744385	Y
3	STD3 500-638287/5	400.0	588.532023	1068.6	16788.0	1.47133	Y
4	STD4 500-638287/6	1000.0	1194.487035	1068.6	19668.0	1.194487	Y
5	STD5 500-638287/7	2000.0	3085.000072	1068.6	16719.0	1.5425	Y
6	STD6 500-638287/8	3000.0	3765.635363	1068.6	20903.0	1.255212	Y
7	STD7 500-638287/9	4000.0	5952.850546	1068.6	17659.0	1.488213	Y



Calibration

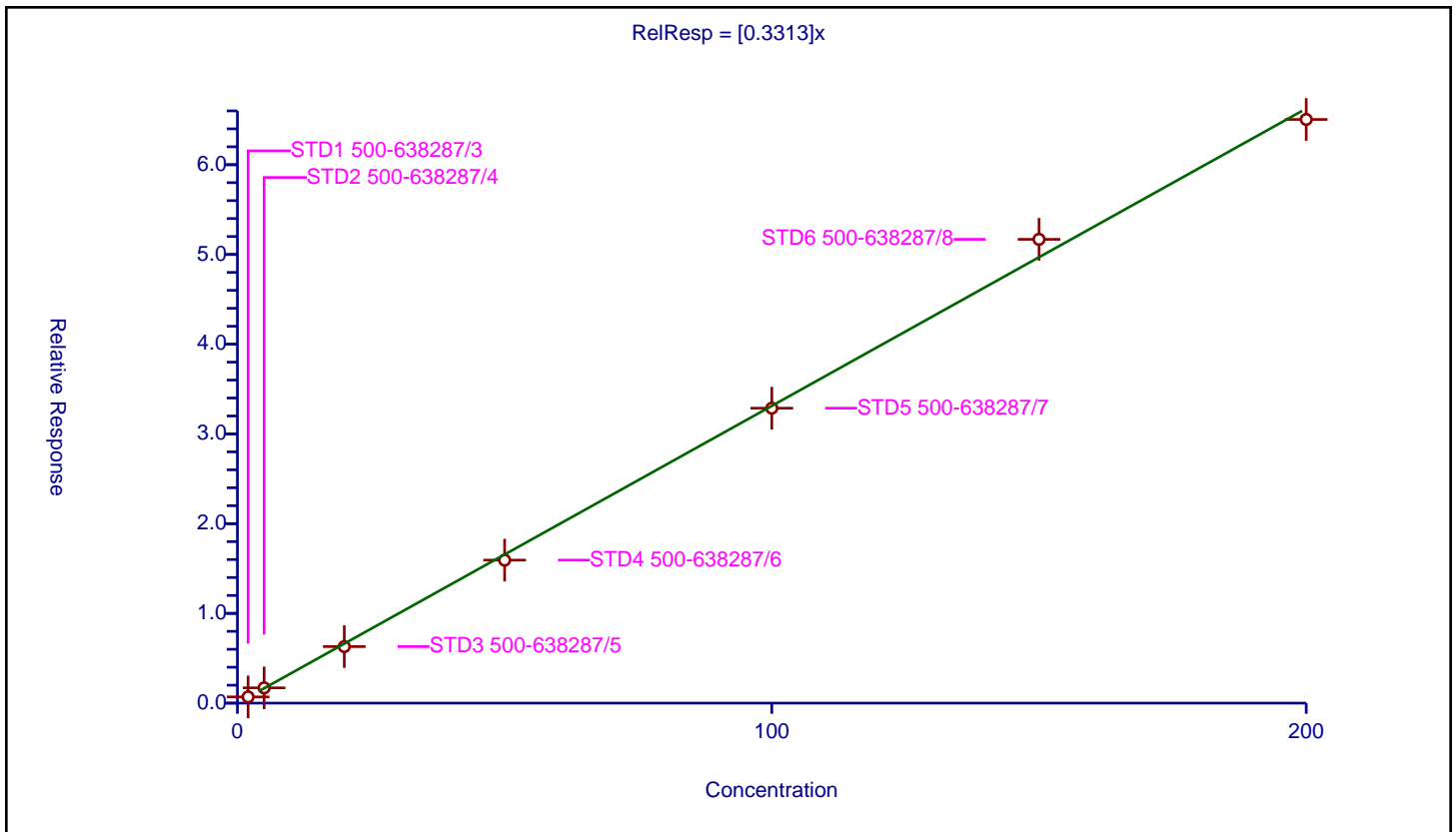
/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3313

Error Coefficients	
Standard Error:	486000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.692687	53.43	687499.0	0.346343	Y
2	STD2 500-638287/4	5.0	1.700947	53.43	660404.0	0.340189	Y
3	STD3 500-638287/5	20.0	6.301426	53.43	652114.0	0.315071	Y
4	STD4 500-638287/6	50.0	15.936841	53.43	661329.0	0.318737	Y
5	STD5 500-638287/7	100.0	32.871343	53.43	677992.0	0.328713	Y
6	STD6 500-638287/8	150.0	51.685927	53.43	685891.0	0.344573	Y
7	STD7 500-638287/9	200.0	65.044195	53.43	715386.0	0.325221	Y



Calibration

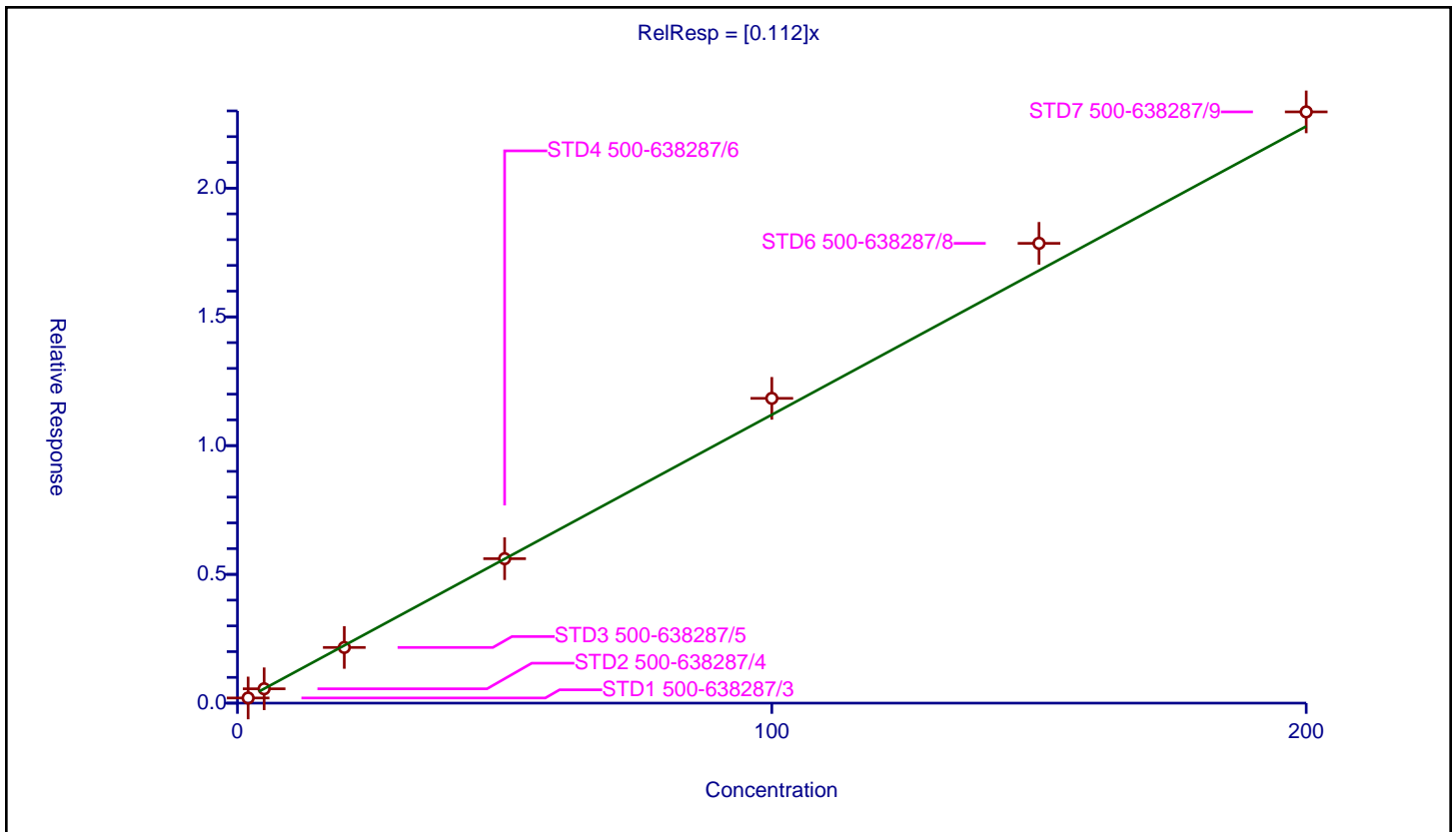
/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.112

Error Coefficients	
Standard Error:	129000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.200507	53.43	508167.0	0.100253	Y
2	STD2 500-638287/4	5.0	0.556584	53.43	476046.0	0.111317	Y
3	STD3 500-638287/5	20.0	2.161771	53.43	466388.0	0.108089	Y
4	STD4 500-638287/6	50.0	5.60927	53.43	487105.0	0.112185	Y
5	STD5 500-638287/7	100.0	11.836077	53.43	513098.0	0.118361	Y
6	STD6 500-638287/8	150.0	17.8563	53.43	520066.0	0.119042	Y
7	STD7 500-638287/9	200.0	22.961392	53.43	538014.0	0.114807	Y



Calibration

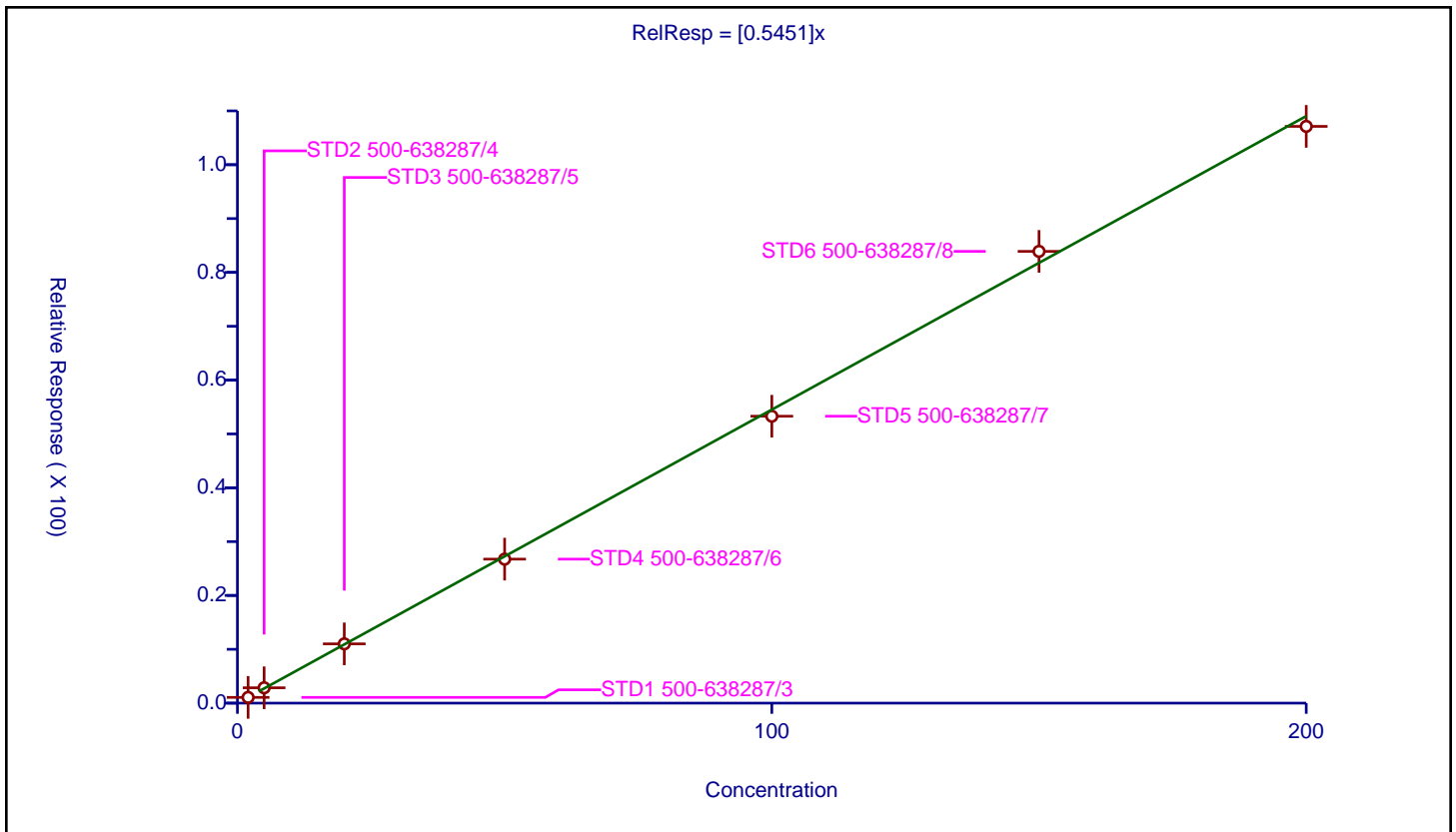
/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5451

Error Coefficients	
Standard Error:	600000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.064043	53.43	508167.0	0.532022	Y
2	STD2 500-638287/4	5.0	2.853066	53.43	476046.0	0.570613	Y
3	STD3 500-638287/5	20.0	11.0114	53.43	466388.0	0.55057	Y
4	STD4 500-638287/6	50.0	26.744342	53.43	487105.0	0.534887	Y
5	STD5 500-638287/7	100.0	53.290671	53.43	513098.0	0.532907	Y
6	STD6 500-638287/8	150.0	83.904248	53.43	520066.0	0.559362	Y
7	STD7 500-638287/9	200.0	107.122376	53.43	538014.0	0.535612	Y



Calibration

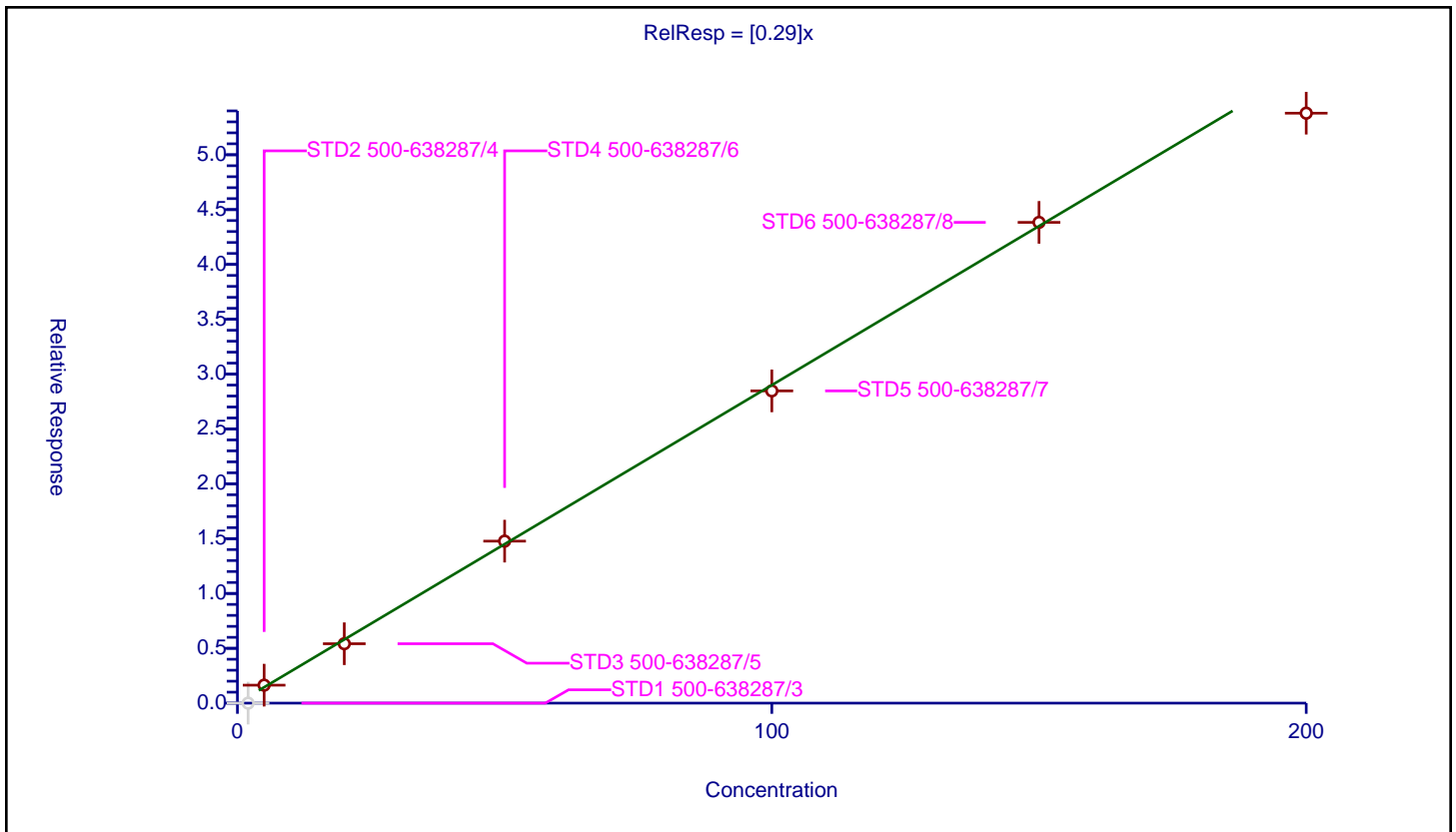
/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.29

Error Coefficients	
Standard Error:	338000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.0	53.43	508167.0	0.0	N
2	STD2 500-638287/4	5.0	1.638324	53.43	476046.0	0.327665	Y
3	STD3 500-638287/5	20.0	5.41554	53.43	466388.0	0.270777	Y
4	STD4 500-638287/6	50.0	14.77213	53.43	487105.0	0.295443	Y
5	STD5 500-638287/7	100.0	28.470564	53.43	513098.0	0.284706	Y
6	STD6 500-638287/8	150.0	43.834162	53.43	520066.0	0.292228	Y
7	STD7 500-638287/9	200.0	53.791686	53.43	538014.0	0.268958	Y



Calibration

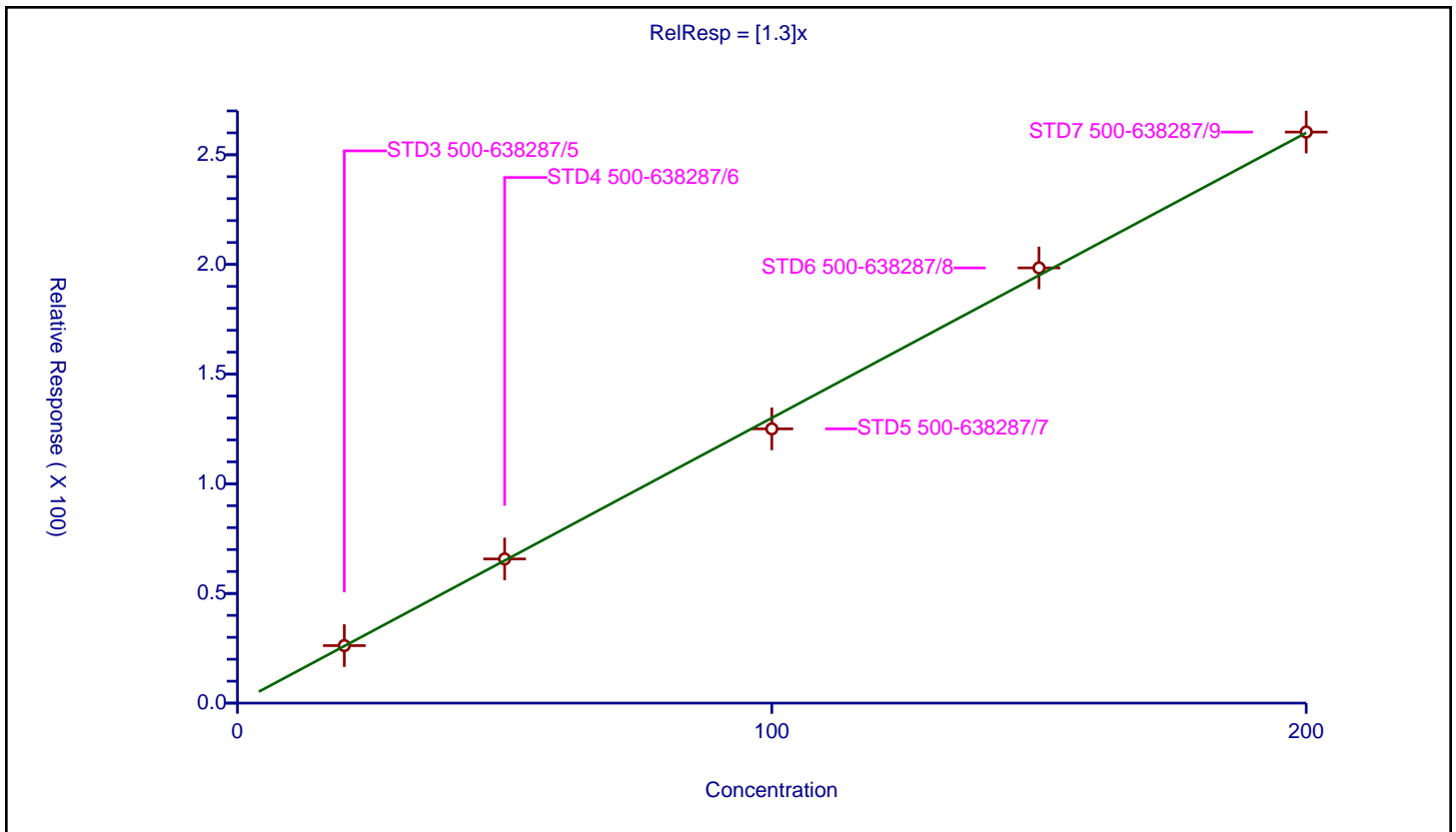
/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.3

Error Coefficients	
Standard Error:	1760000
Relative Standard Error:	2.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD3 500-638287/5	20.0	26.216544	53.43	466388.0	1.310827	Y
2	STD4 500-638287/6	50.0	65.73764	53.43	487105.0	1.314753	Y
3	STD5 500-638287/7	100.0	125.052304	53.43	513098.0	1.250523	Y
4	STD6 500-638287/8	150.0	198.422467	53.43	520066.0	1.322816	Y
5	STD7 500-638287/9	200.0	260.354238	53.43	538014.0	1.301771	Y



Calibration

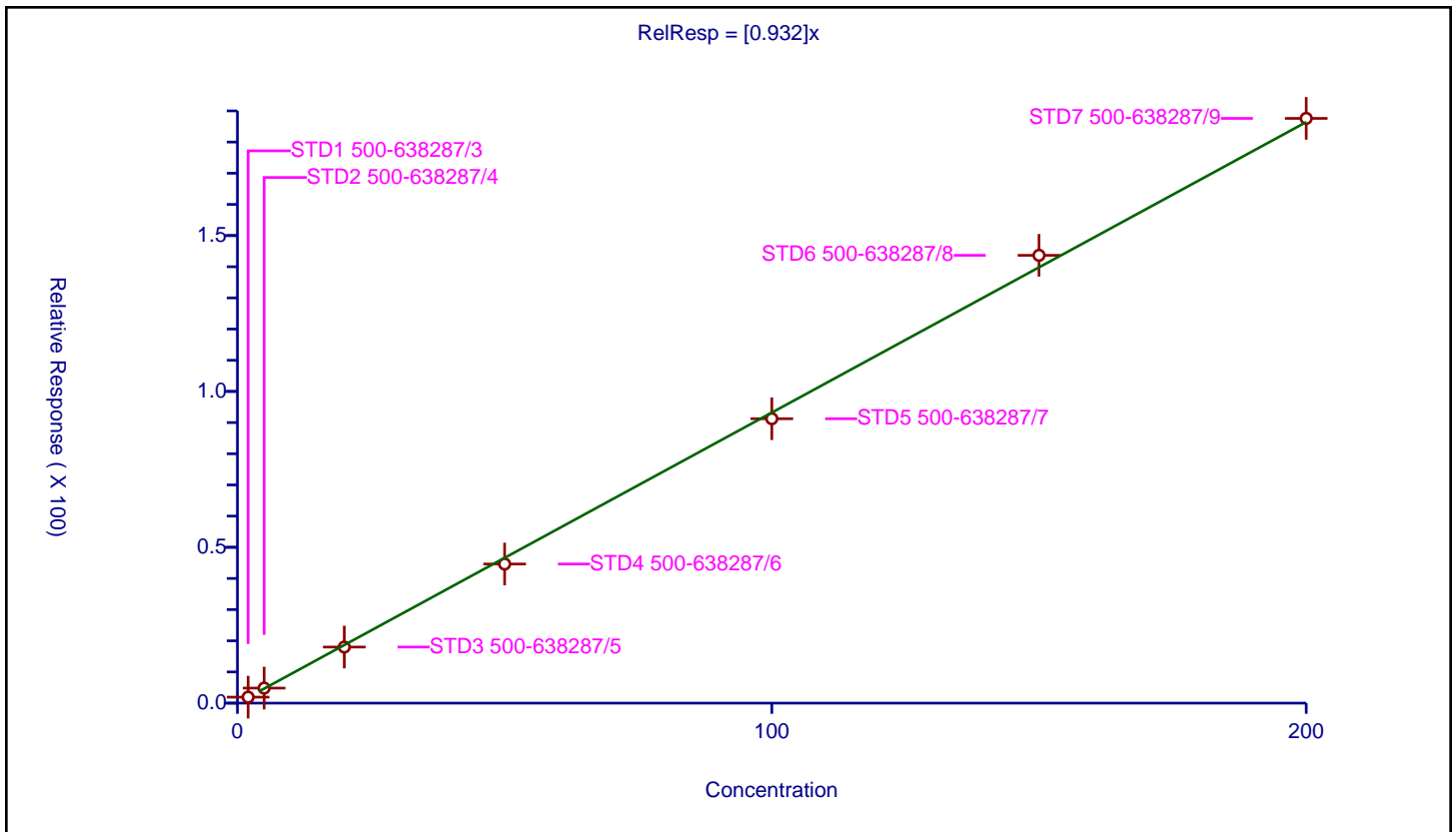
/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.932

Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	3.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.919063	53.43	508167.0	0.959531	Y
2	STD2 500-638287/4	5.0	4.822265	53.43	476046.0	0.964453	Y
3	STD3 500-638287/5	20.0	17.992993	53.43	466388.0	0.89965	Y
4	STD4 500-638287/6	50.0	44.624506	53.43	487105.0	0.89249	Y
5	STD5 500-638287/7	100.0	91.245071	53.43	513098.0	0.912451	Y
6	STD6 500-638287/8	150.0	143.662126	53.43	520066.0	0.957748	Y
7	STD7 500-638287/9	200.0	187.593608	53.43	538014.0	0.937968	Y



Calibration

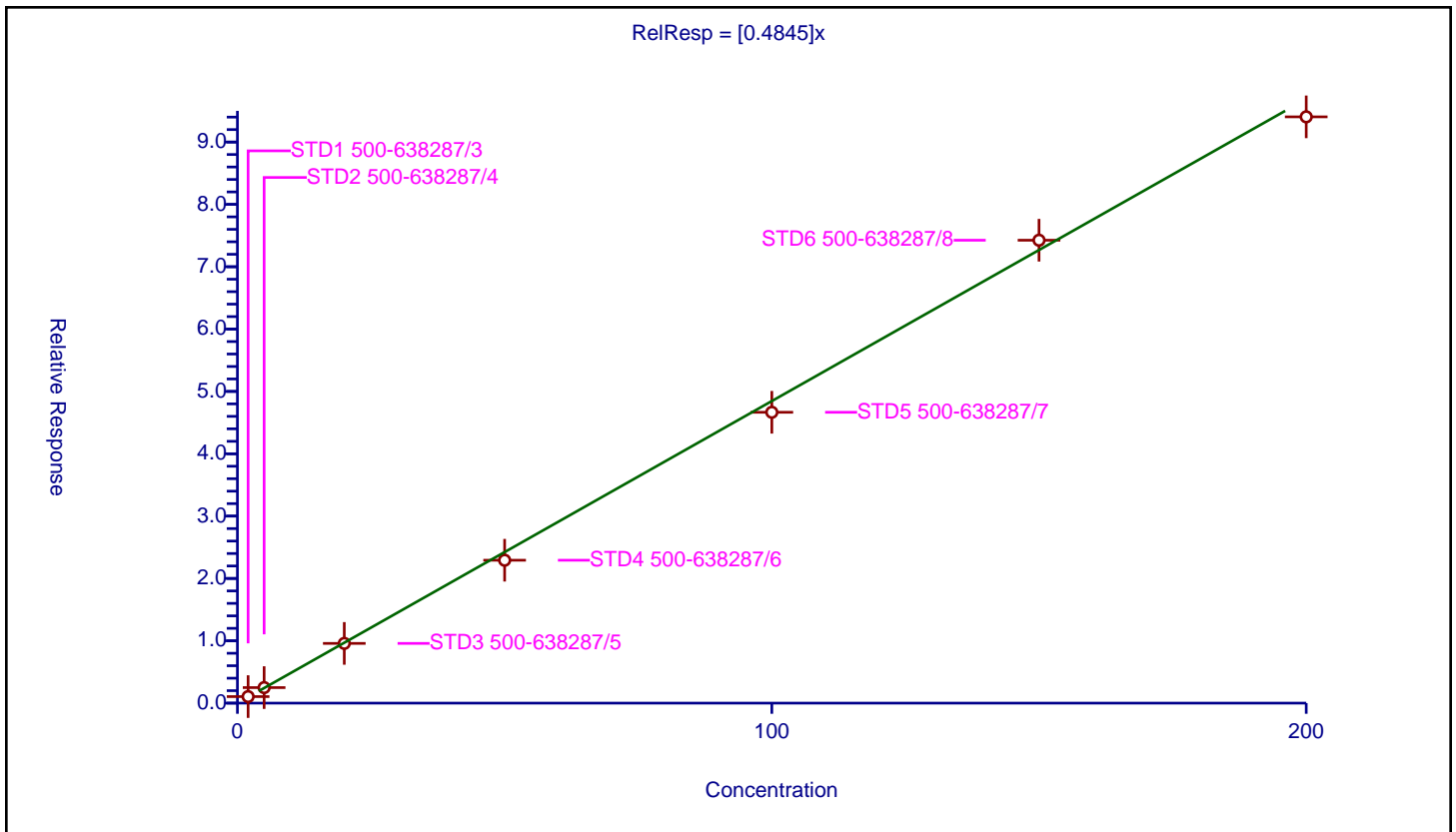
/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4845

Error Coefficients	
Standard Error:	528000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.048692	53.43	508167.0	0.524346	Y
2	STD2 500-638287/4	5.0	2.490877	53.43	476046.0	0.498175	Y
3	STD3 500-638287/5	20.0	9.580988	53.43	466388.0	0.479049	Y
4	STD4 500-638287/6	50.0	22.921136	53.43	487105.0	0.458423	Y
5	STD5 500-638287/7	100.0	46.655058	53.43	513098.0	0.466551	Y
6	STD6 500-638287/8	150.0	74.253241	53.43	520066.0	0.495022	Y
7	STD7 500-638287/9	200.0	94.042397	53.43	538014.0	0.470212	Y



Calibration

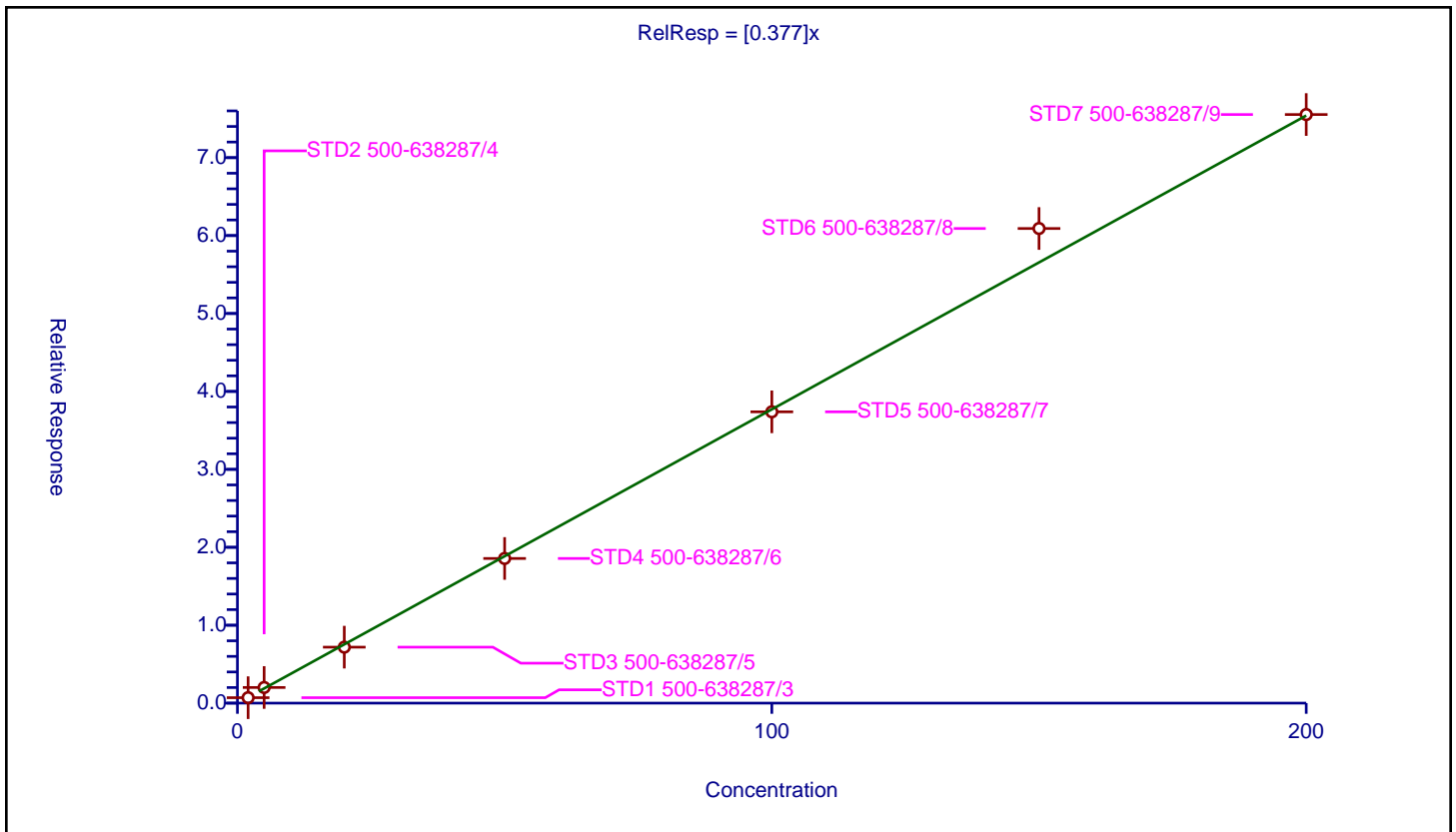
/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.377

Error Coefficients	
Standard Error:	427000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.698462	53.43	508167.0	0.349231	Y
2	STD2 500-638287/4	5.0	2.008819	53.43	476046.0	0.401764	Y
3	STD3 500-638287/5	20.0	7.183908	53.43	466388.0	0.359195	Y
4	STD4 500-638287/6	50.0	18.565171	53.43	487105.0	0.371303	Y
5	STD5 500-638287/7	100.0	37.382402	53.43	513098.0	0.373824	Y
6	STD6 500-638287/8	150.0	60.90771	53.43	520066.0	0.406051	Y
7	STD7 500-638287/9	200.0	75.532462	53.43	538014.0	0.377662	Y



Calibration

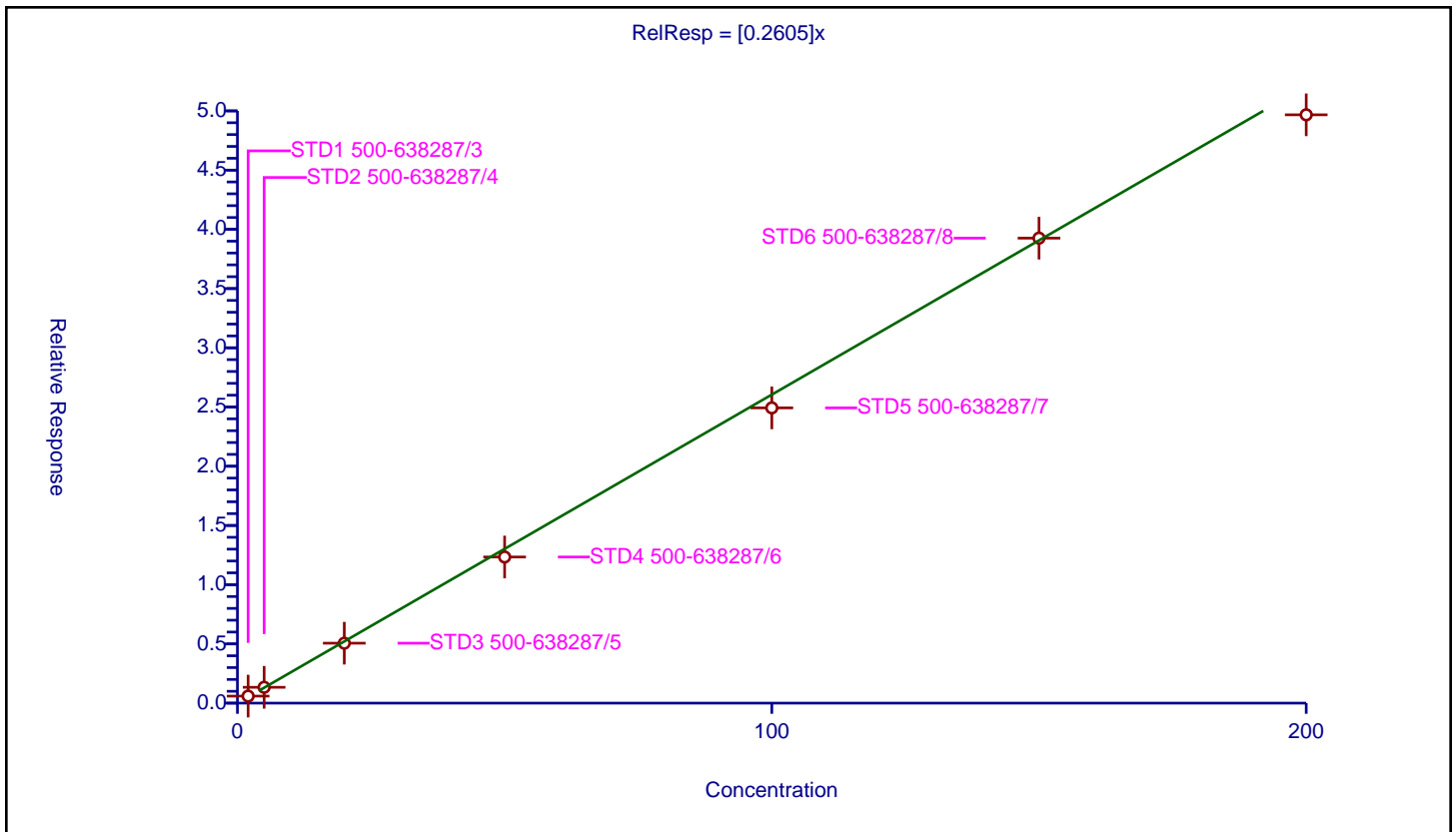
/ 1,1,2-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2605

Error Coefficients	
Standard Error:	279000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.593215	53.43	508167.0	0.296607	Y
2	STD2 500-638287/4	5.0	1.337641	53.43	476046.0	0.267528	Y
3	STD3 500-638287/5	20.0	5.060629	53.43	466388.0	0.253031	Y
4	STD4 500-638287/6	50.0	12.336159	53.43	487105.0	0.246723	Y
5	STD5 500-638287/7	100.0	24.925905	53.43	513098.0	0.249259	Y
6	STD6 500-638287/8	150.0	39.257128	53.43	520066.0	0.261714	Y
7	STD7 500-638287/9	200.0	49.670433	53.43	538014.0	0.248352	Y



Calibration

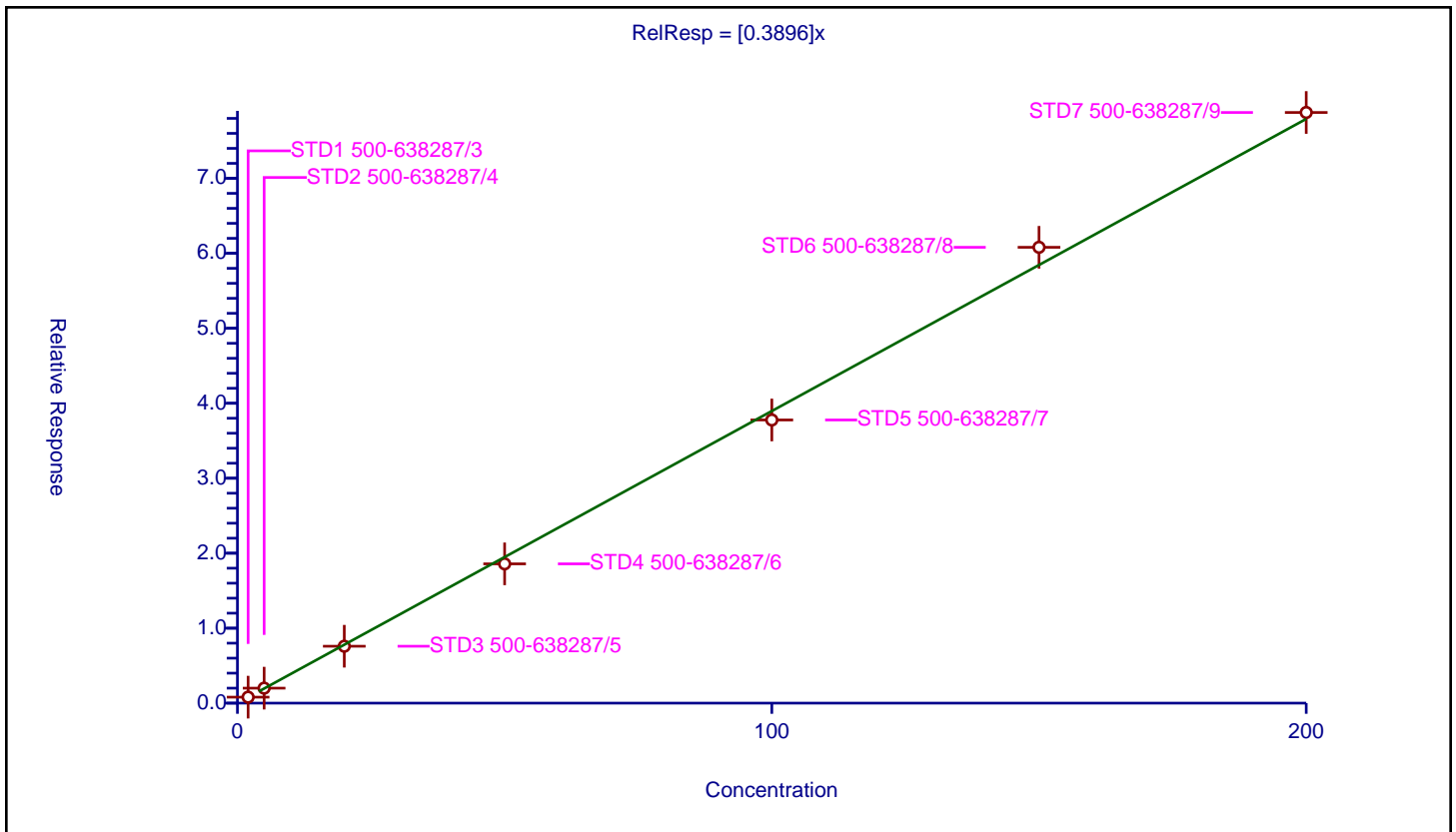
/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3896

Error Coefficients	
Standard Error:	437000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.799294	53.43	508167.0	0.399647	Y
2	STD2 500-638287/4	5.0	1.998268	53.43	476046.0	0.399654	Y
3	STD3 500-638287/5	20.0	7.59209	53.43	466388.0	0.379604	Y
4	STD4 500-638287/6	50.0	18.577457	53.43	487105.0	0.371549	Y
5	STD5 500-638287/7	100.0	37.769565	53.43	513098.0	0.377696	Y
6	STD6 500-638287/8	150.0	60.802302	53.43	520066.0	0.405349	Y
7	STD7 500-638287/9	200.0	78.785351	53.43	538014.0	0.393927	Y



Calibration

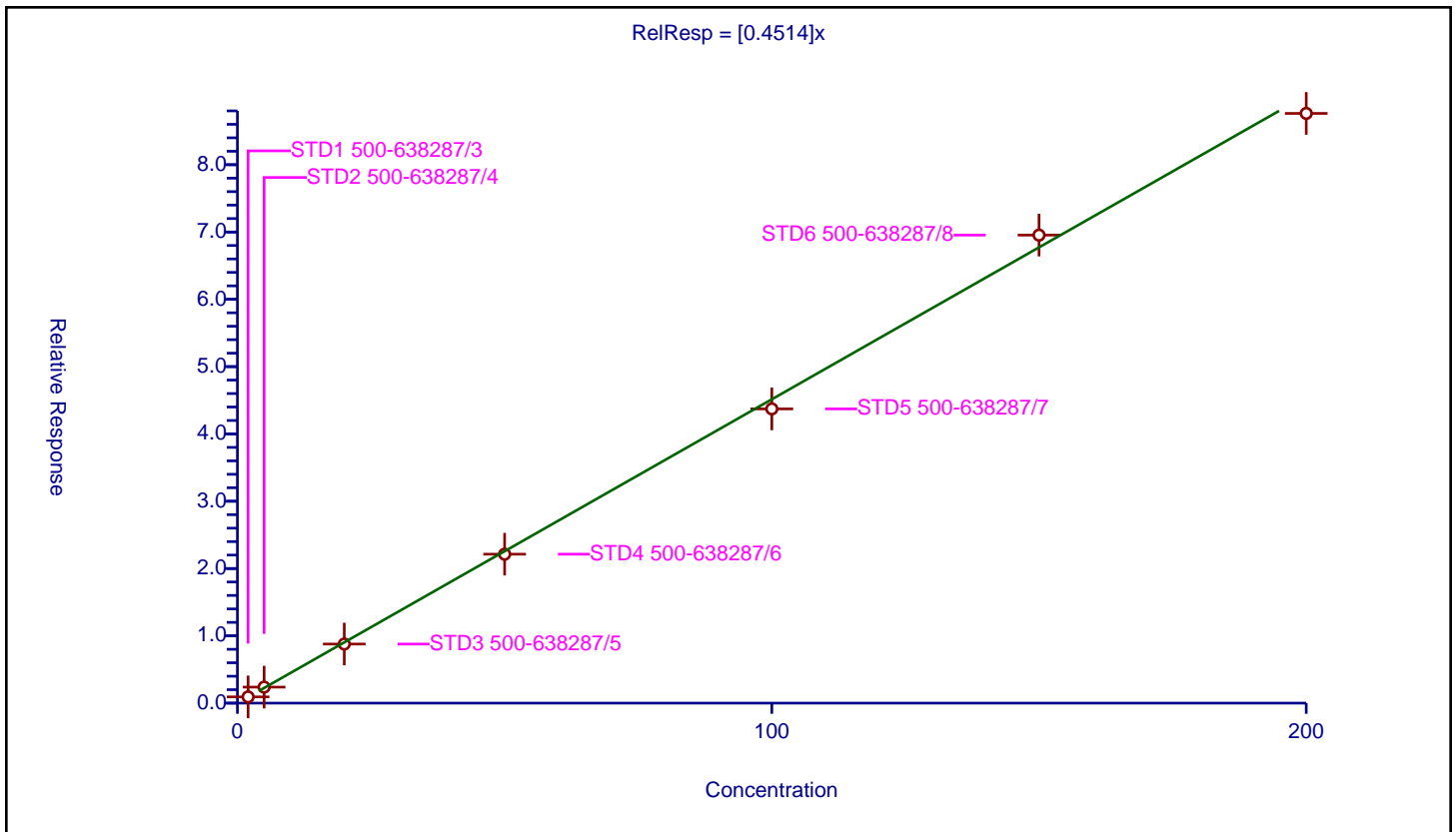
/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4514

Error Coefficients	
Standard Error:	493000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.926306	53.43	508167.0	0.463153	Y
2	STD2 500-638287/4	5.0	2.381895	53.43	476046.0	0.476379	Y
3	STD3 500-638287/5	20.0	8.779746	53.43	466388.0	0.438987	Y
4	STD4 500-638287/6	50.0	22.134009	53.43	487105.0	0.44268	Y
5	STD5 500-638287/7	100.0	43.720093	53.43	513098.0	0.437201	Y
6	STD6 500-638287/8	150.0	69.540696	53.43	520066.0	0.463605	Y
7	STD7 500-638287/9	200.0	87.625403	53.43	538014.0	0.438127	Y



Calibration

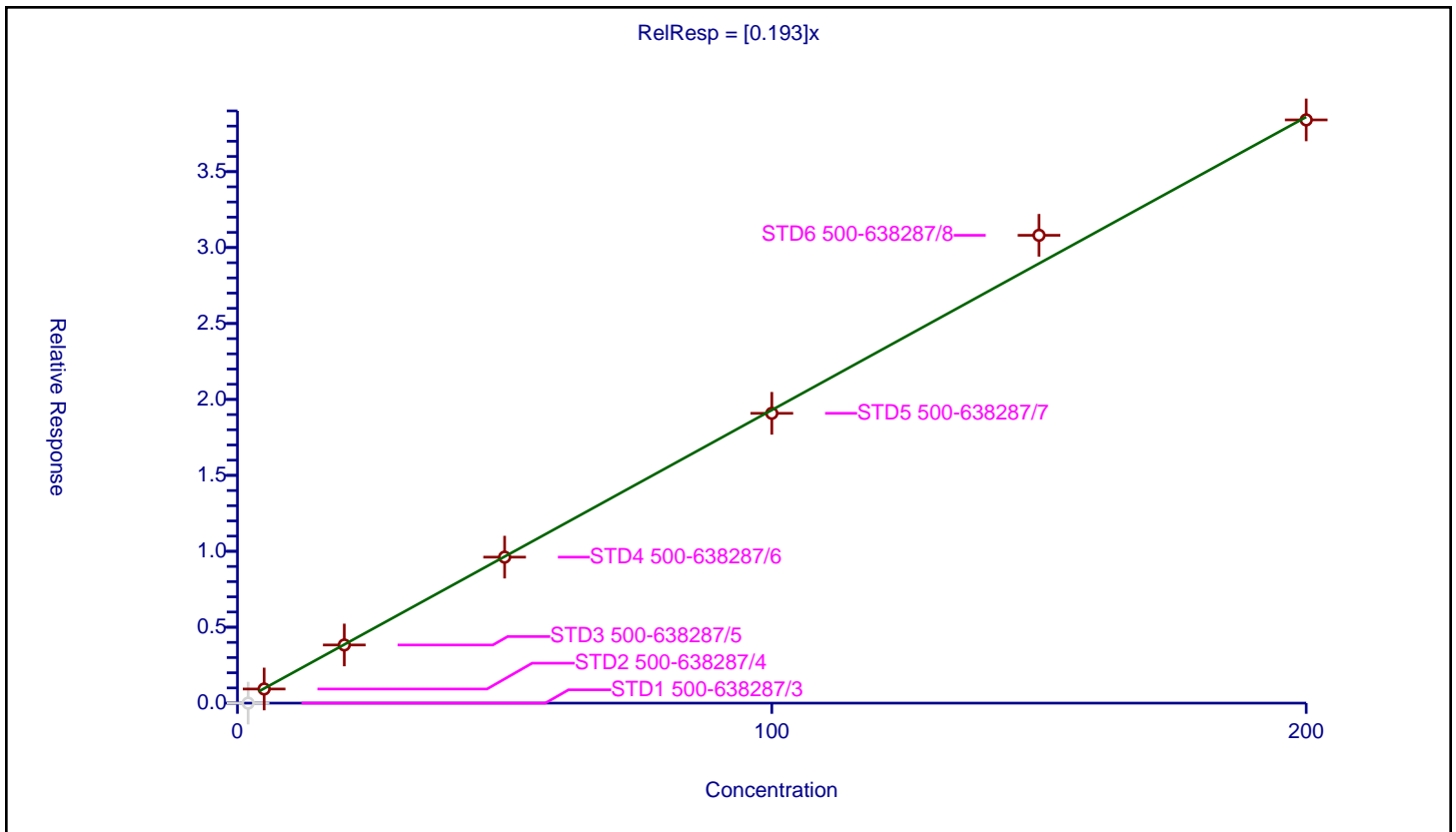
/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.193

Error Coefficients	
Standard Error:	237000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.0	53.43	508167.0	0.0	N
2	STD2 500-638287/4	5.0	0.929996	53.43	476046.0	0.185999	Y
3	STD3 500-638287/5	20.0	3.828981	53.43	466388.0	0.191449	Y
4	STD4 500-638287/6	50.0	9.614669	53.43	487105.0	0.192293	Y
5	STD5 500-638287/7	100.0	19.085445	53.43	513098.0	0.190854	Y
6	STD6 500-638287/8	150.0	30.807116	53.43	520066.0	0.205381	Y
7	STD7 500-638287/9	200.0	38.407027	53.43	538014.0	0.192035	Y



Calibration

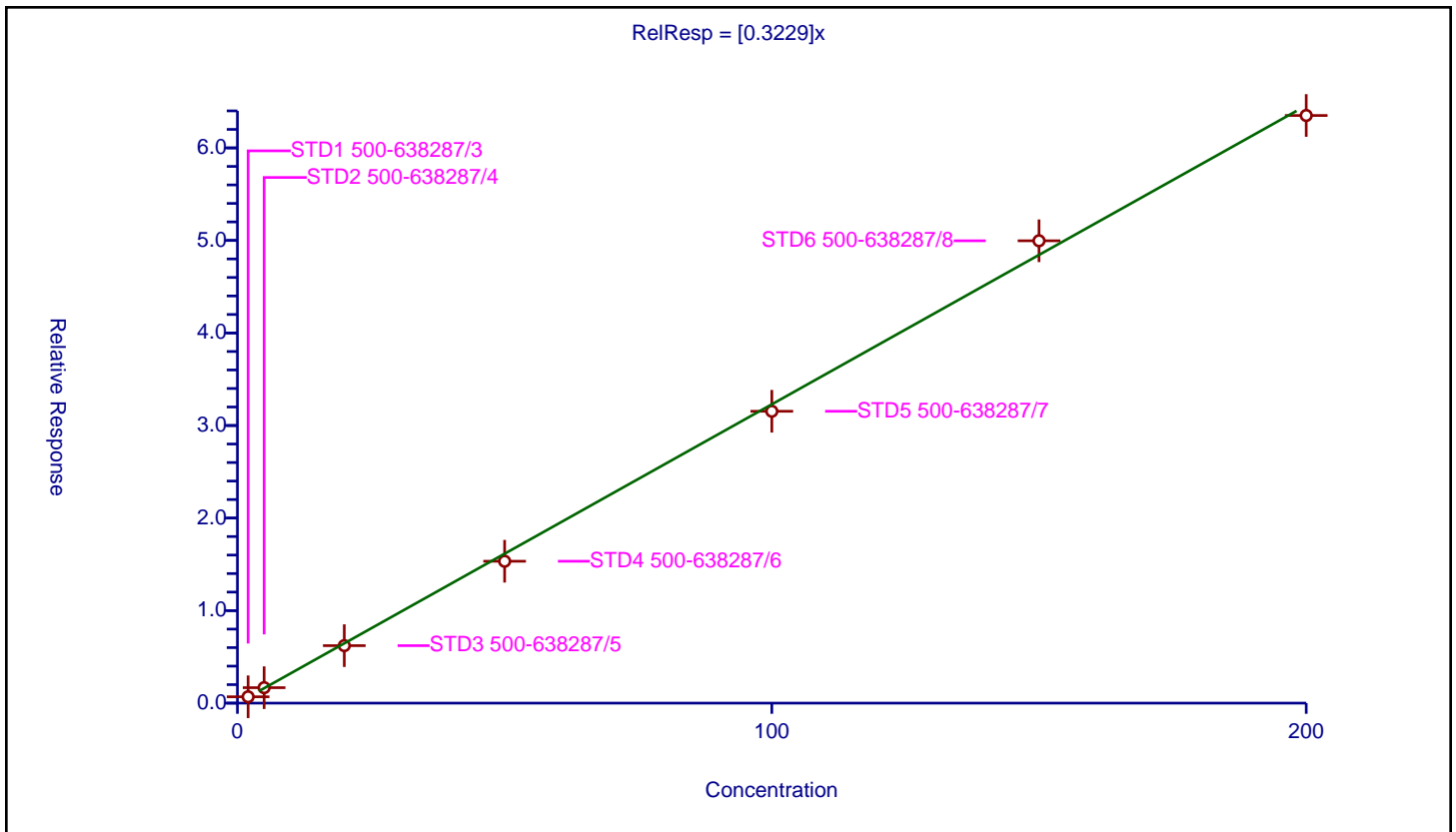
/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3229

Error Coefficients	
Standard Error:	356000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.685845	53.43	508167.0	0.342923	Y
2	STD2 500-638287/4	5.0	1.67121	53.43	476046.0	0.334242	Y
3	STD3 500-638287/5	20.0	6.211397	53.43	466388.0	0.31057	Y
4	STD4 500-638287/6	50.0	15.333298	53.43	487105.0	0.306666	Y
5	STD5 500-638287/7	100.0	31.538922	53.43	513098.0	0.315389	Y
6	STD6 500-638287/8	150.0	49.962422	53.43	520066.0	0.333083	Y
7	STD7 500-638287/9	200.0	63.50308	53.43	538014.0	0.317515	Y



Calibration

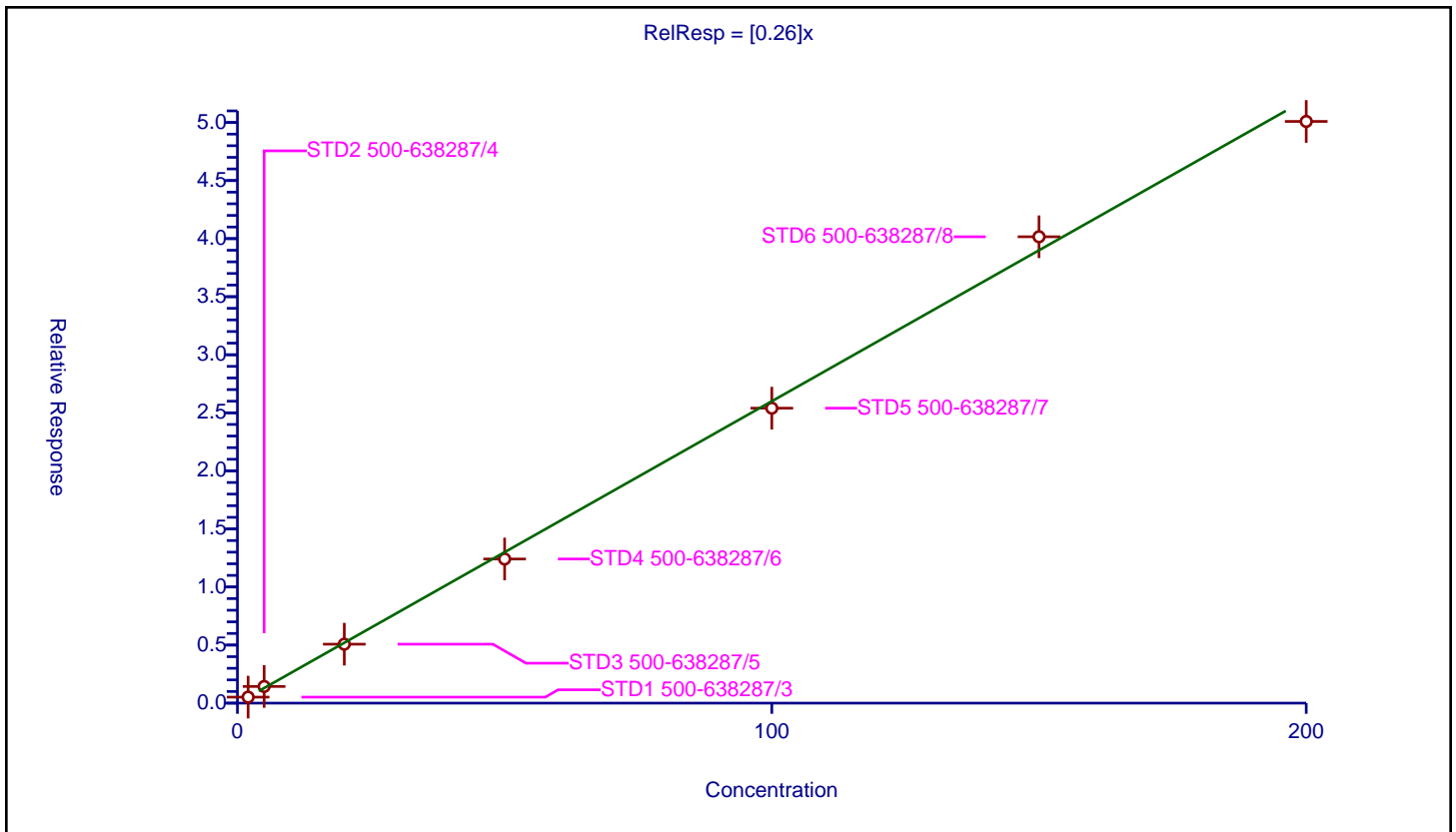
/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.26

Error Coefficients	
Standard Error:	283000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.517827	53.43	508167.0	0.258914	Y
2	STD2 500-638287/4	5.0	1.433492	53.43	476046.0	0.286698	Y
3	STD3 500-638287/5	20.0	5.075751	53.43	466388.0	0.253788	Y
4	STD4 500-638287/6	50.0	12.410309	53.43	487105.0	0.248206	Y
5	STD5 500-638287/7	100.0	25.399603	53.43	513098.0	0.253996	Y
6	STD6 500-638287/8	150.0	40.1607	53.43	520066.0	0.267738	Y
7	STD7 500-638287/9	200.0	50.091506	53.43	538014.0	0.250458	Y



Calibration

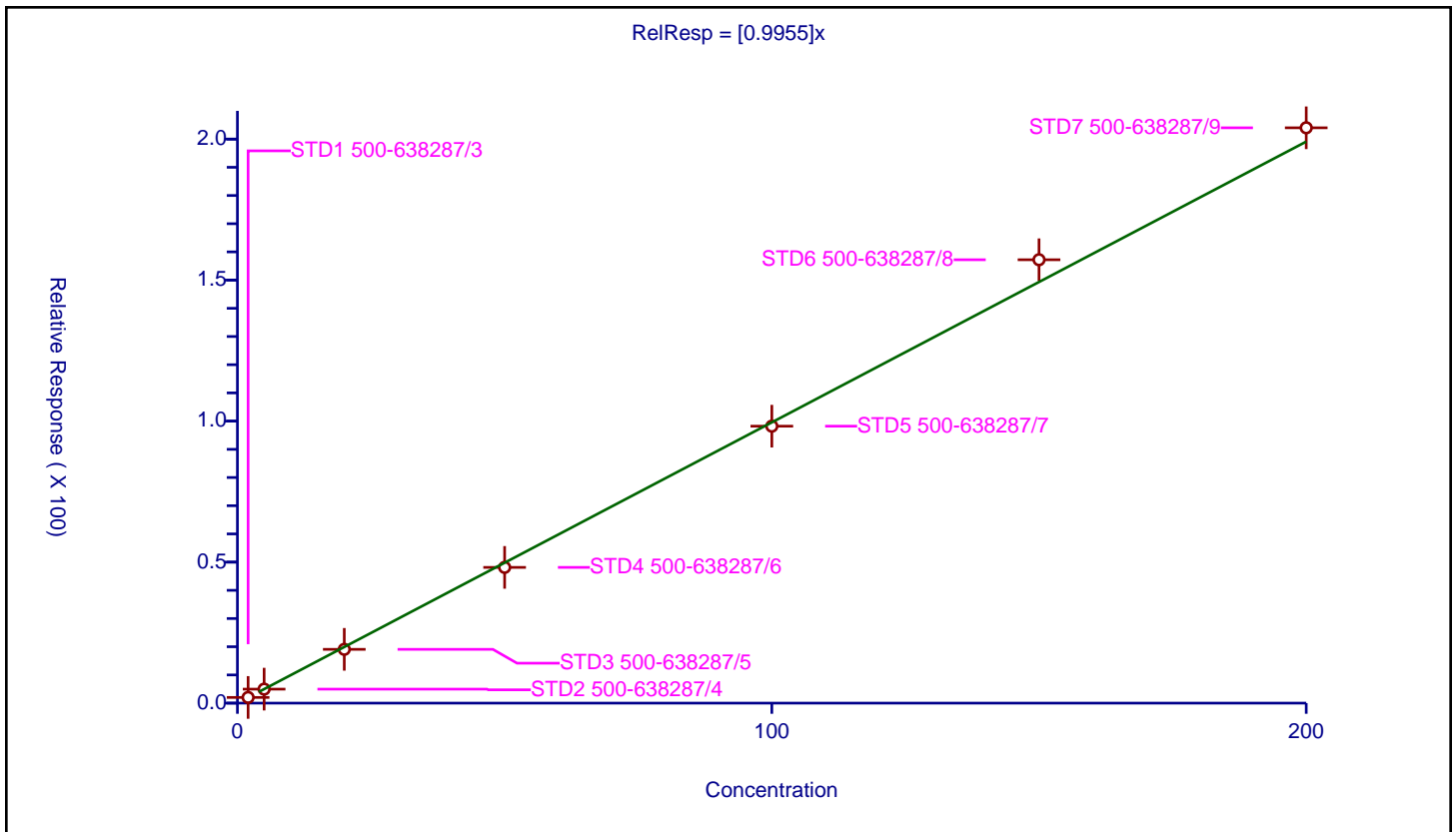
/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9955

Error Coefficients	
Standard Error:	1130000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.020841	53.43	508167.0	1.01042	Y
2	STD2 500-638287/4	5.0	4.959194	53.43	476046.0	0.991839	Y
3	STD3 500-638287/5	20.0	19.069181	53.43	466388.0	0.953459	Y
4	STD4 500-638287/6	50.0	48.132905	53.43	487105.0	0.962658	Y
5	STD5 500-638287/7	100.0	98.201411	53.43	513098.0	0.982014	Y
6	STD6 500-638287/8	150.0	157.220939	53.43	520066.0	1.04814	Y
7	STD7 500-638287/9	200.0	204.007612	53.43	538014.0	1.020038	Y



Calibration

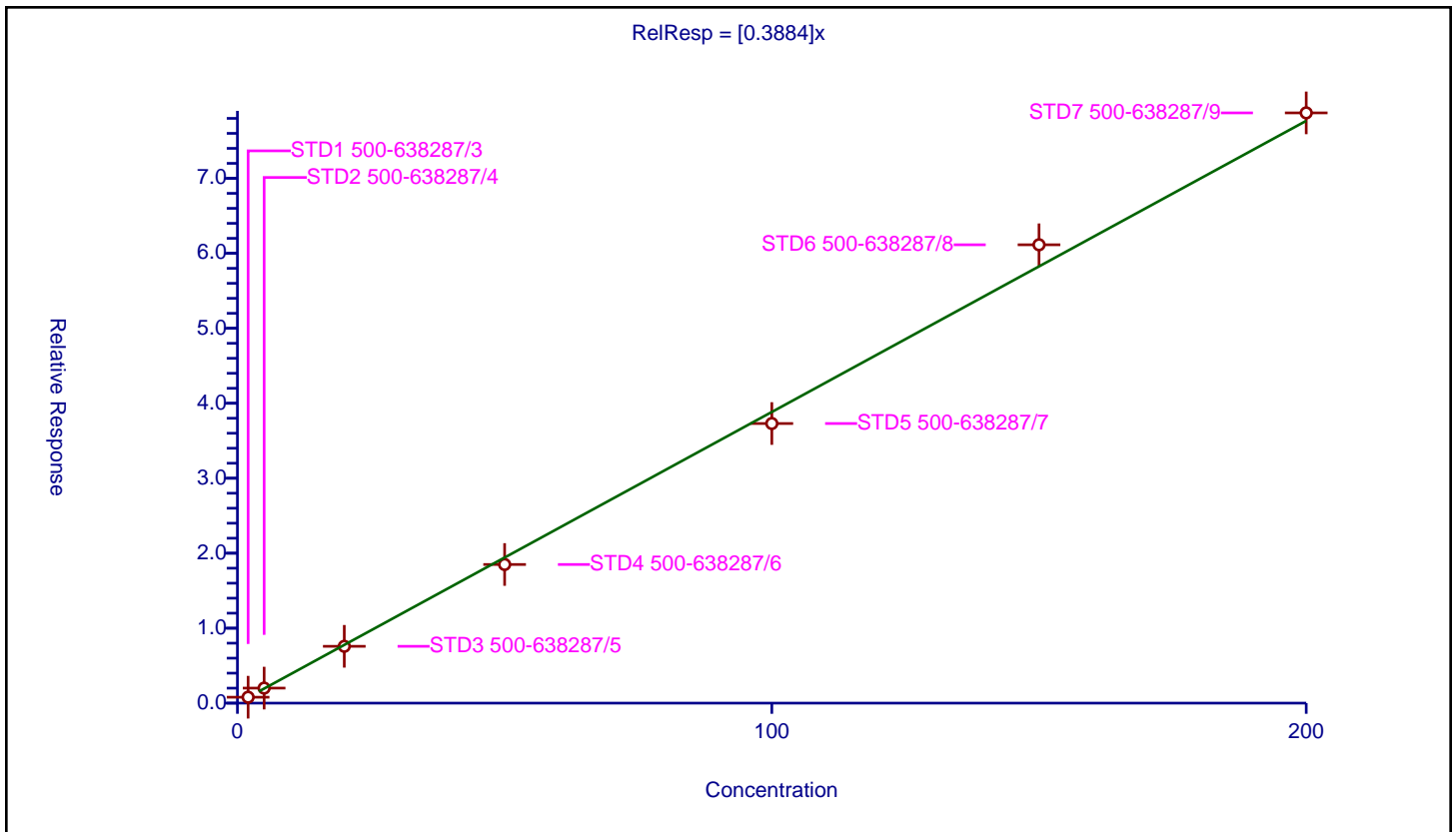
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3884

Error Coefficients	
Standard Error:	437000
Relative Standard Error:	3.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.789095	53.43	508167.0	0.394548	Y
2	STD2 500-638287/4	5.0	2.004105	53.43	476046.0	0.400821	Y
3	STD3 500-638287/5	20.0	7.581321	53.43	466388.0	0.379066	Y
4	STD4 500-638287/6	50.0	18.491899	53.43	487105.0	0.369838	Y
5	STD5 500-638287/7	100.0	37.296493	53.43	513098.0	0.372965	Y
6	STD6 500-638287/8	150.0	61.142155	53.43	520066.0	0.407614	Y
7	STD7 500-638287/9	200.0	78.734207	53.43	538014.0	0.393671	Y



Calibration

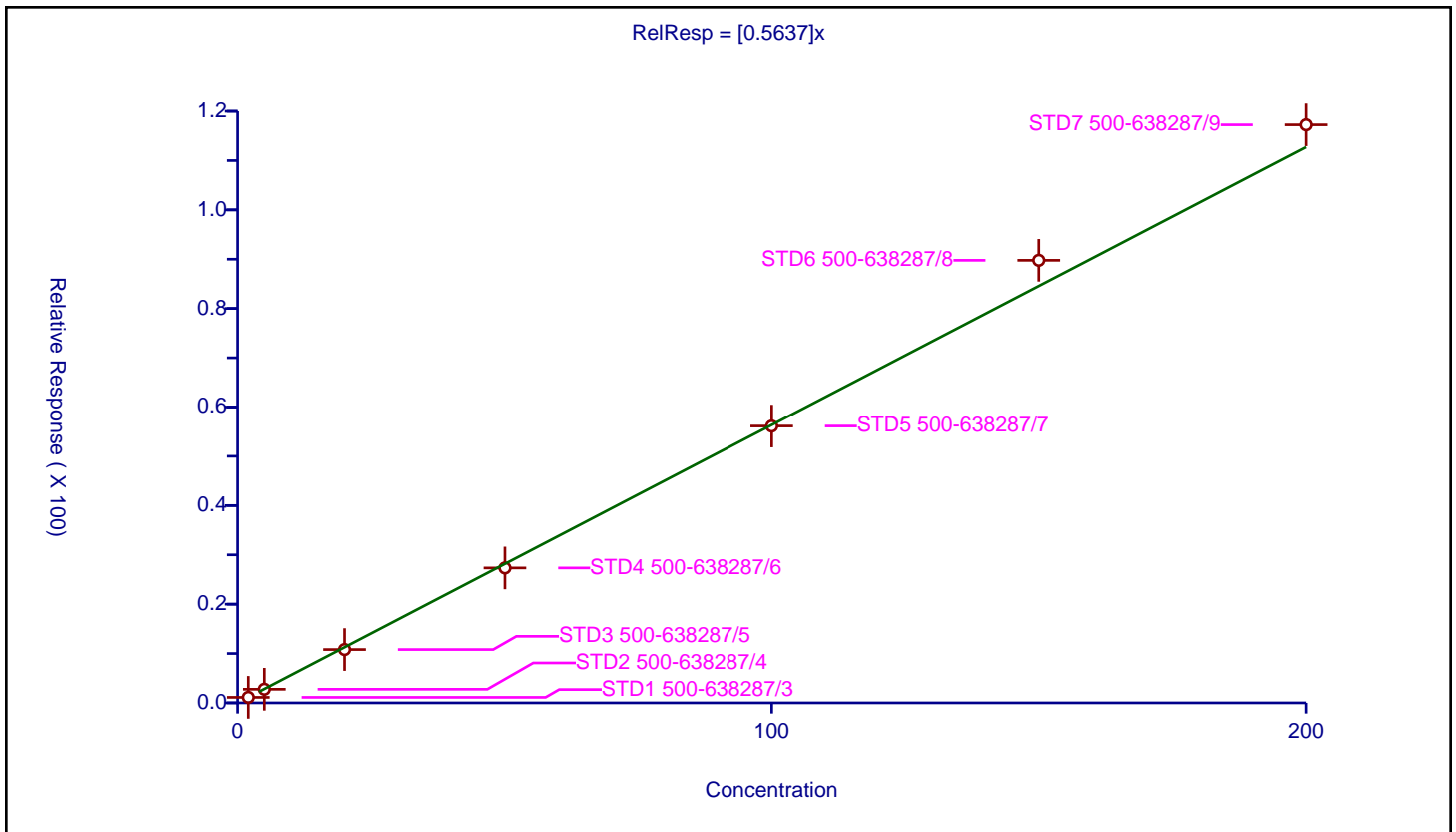
/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5637

Error Coefficients	
Standard Error:	648000
Relative Standard Error:	3.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.119874	53.43	508167.0	0.559937	Y
2	STD2 500-638287/4	5.0	2.761817	53.43	476046.0	0.552363	Y
3	STD3 500-638287/5	20.0	10.805075	53.43	466388.0	0.540254	Y
4	STD4 500-638287/6	50.0	27.347411	53.43	487105.0	0.546948	Y
5	STD5 500-638287/7	100.0	56.131917	53.43	513098.0	0.561319	Y
6	STD6 500-638287/8	150.0	89.775768	53.43	520066.0	0.598505	Y
7	STD7 500-638287/9	200.0	117.255241	53.43	538014.0	0.586276	Y



Calibration

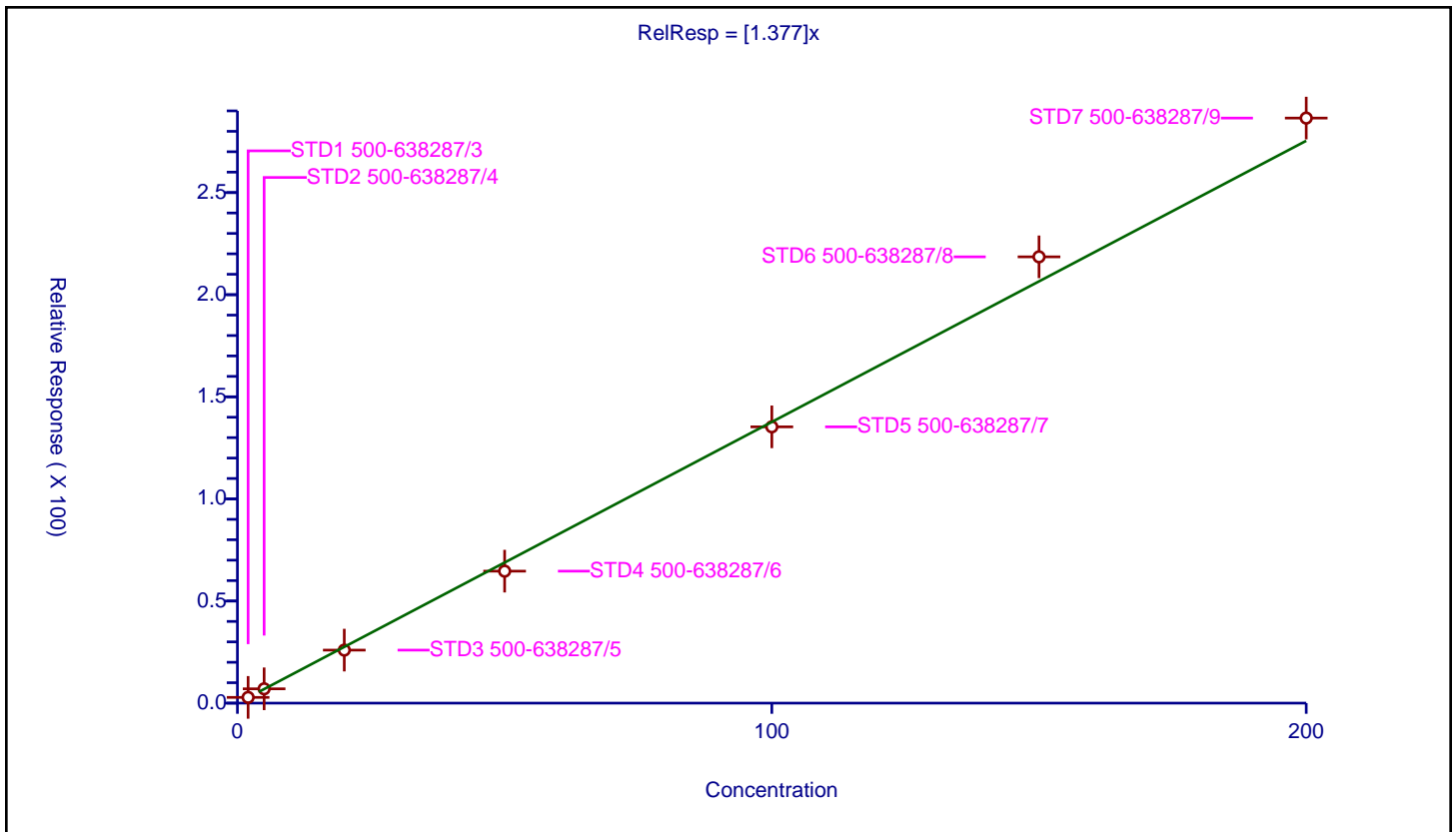
/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.377

Error Coefficients	
Standard Error:	1580000
Relative Standard Error:	4.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.804994	53.43	508167.0	1.402497	Y
2	STD2 500-638287/4	5.0	7.010214	53.43	476046.0	1.402043	Y
3	STD3 500-638287/5	20.0	25.964395	53.43	466388.0	1.29822	Y
4	STD4 500-638287/6	50.0	64.633622	53.43	487105.0	1.292672	Y
5	STD5 500-638287/7	100.0	135.285162	53.43	513098.0	1.352852	Y
6	STD6 500-638287/8	150.0	218.536309	53.43	520066.0	1.456909	Y
7	STD7 500-638287/9	200.0	286.479637	53.43	538014.0	1.432398	Y



Calibration

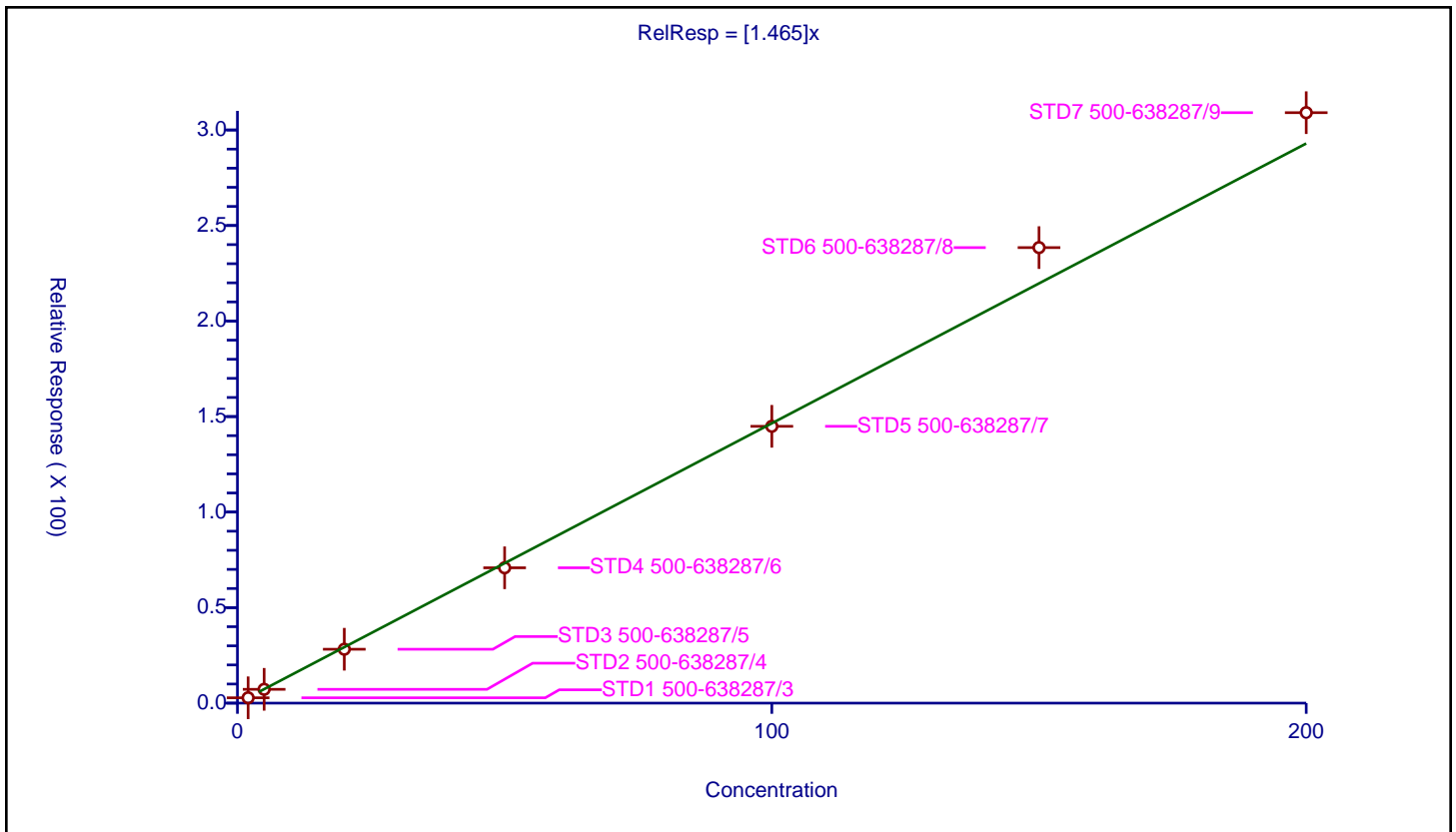
/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.465

Error Coefficients	
Standard Error:	1710000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.793639	53.43	508167.0	1.396819	Y
2	STD2 500-638287/4	5.0	7.224587	53.43	476046.0	1.444917	Y
3	STD3 500-638287/5	20.0	28.204067	53.43	466388.0	1.410203	Y
4	STD4 500-638287/6	50.0	70.835979	53.43	487105.0	1.41672	Y
5	STD5 500-638287/7	100.0	144.890312	53.43	513098.0	1.448903	Y
6	STD6 500-638287/8	150.0	238.446218	53.43	520066.0	1.589641	Y
7	STD7 500-638287/9	200.0	309.070306	53.43	538014.0	1.545352	Y



Calibration

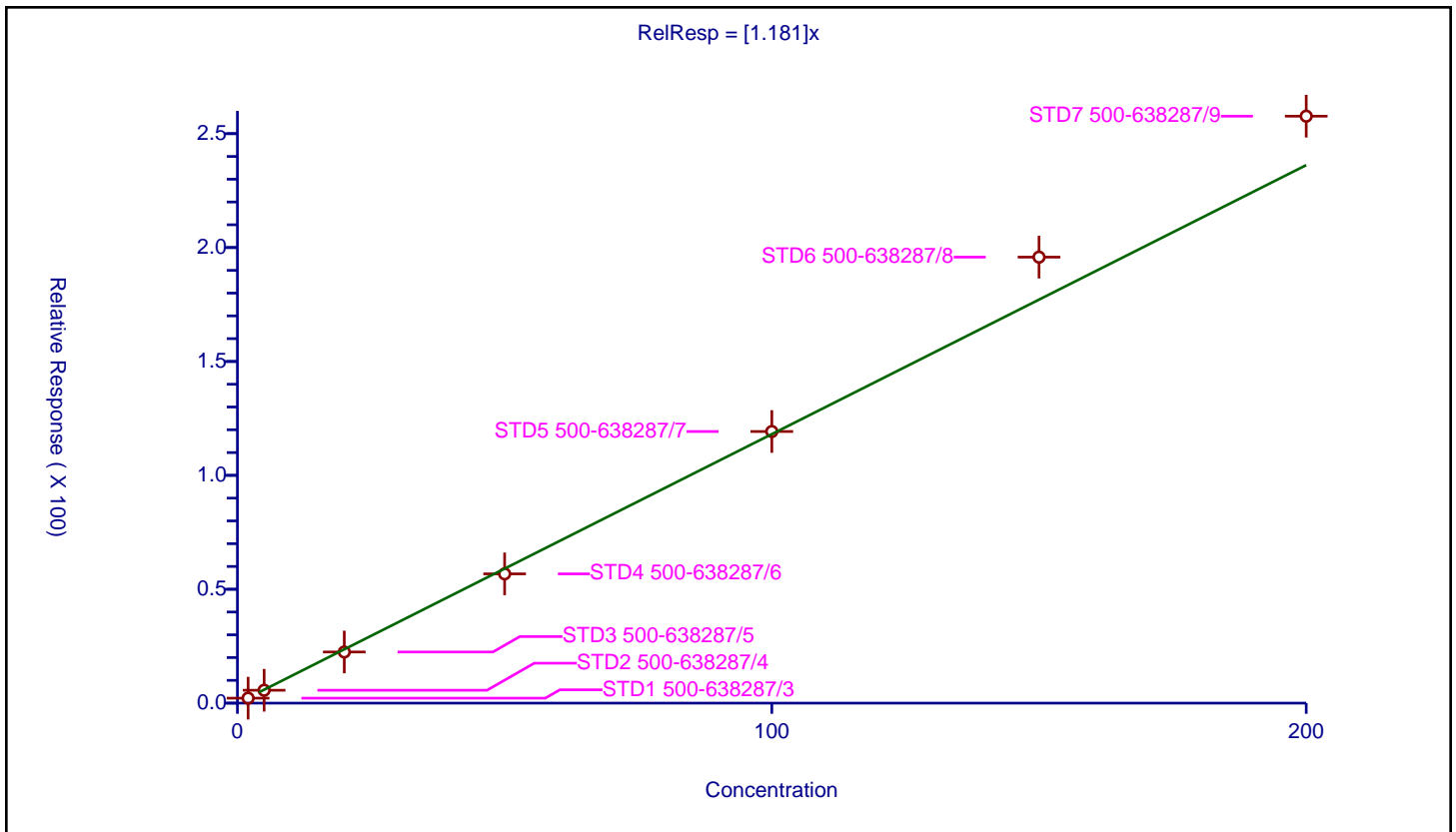
/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.181

Error Coefficients	
Standard Error:	1410000
Relative Standard Error:	7.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.184758	53.43	508167.0	1.092379	Y
2	STD2 500-638287/4	5.0	5.65035	53.43	476046.0	1.13007	Y
3	STD3 500-638287/5	20.0	22.454696	53.43	466388.0	1.122735	Y
4	STD4 500-638287/6	50.0	56.748527	53.43	487105.0	1.134971	Y
5	STD5 500-638287/7	100.0	119.24652	53.43	513098.0	1.192465	Y
6	STD6 500-638287/8	150.0	195.791168	53.43	520066.0	1.305274	Y
7	STD7 500-638287/9	200.0	257.669401	53.43	538014.0	1.288347	Y



Calibration

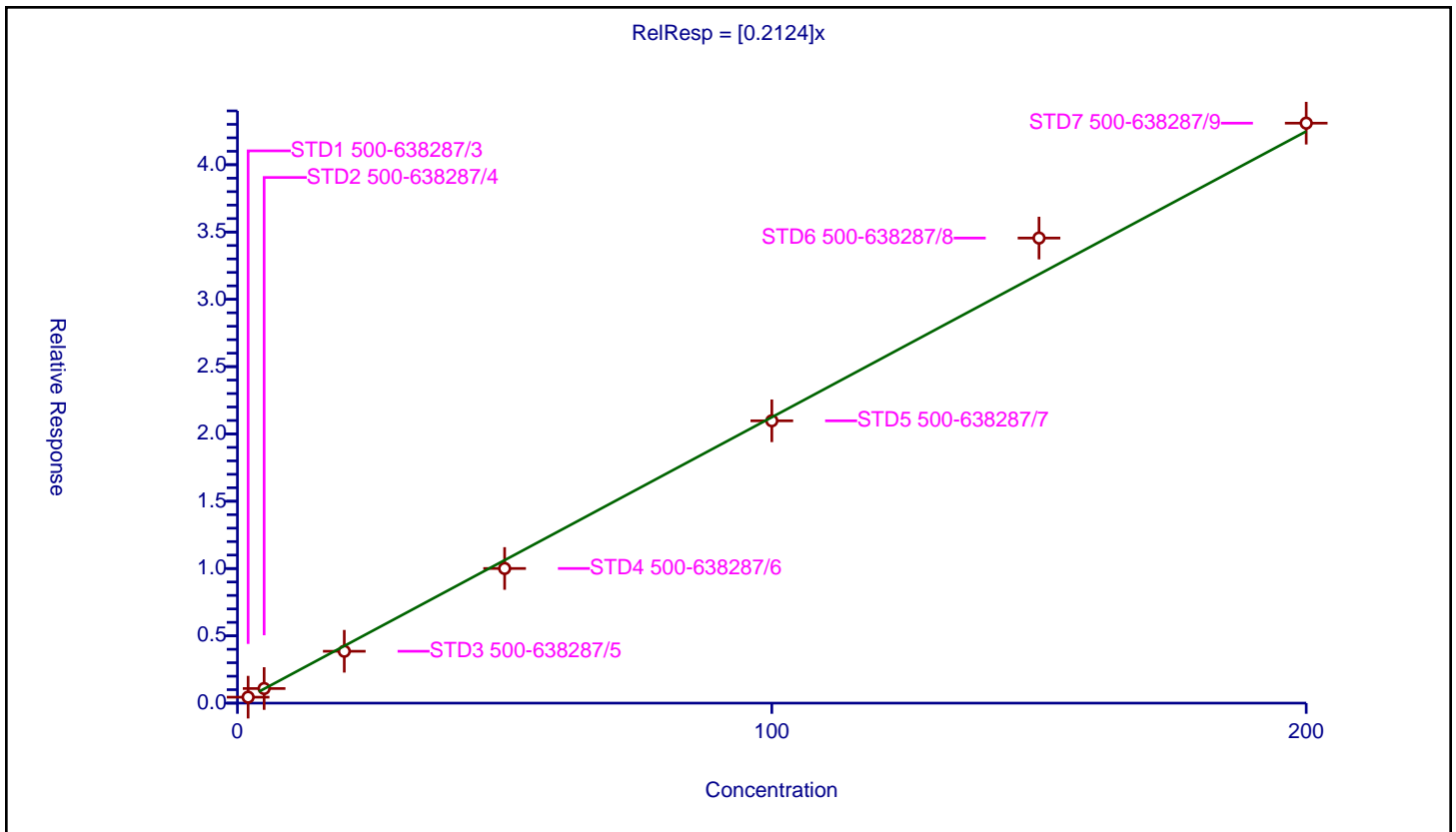
/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2124

Error Coefficients	
Standard Error:	242000
Relative Standard Error:	6.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.442861	53.43	508167.0	0.22143	Y
2	STD2 500-638287/4	5.0	1.085557	53.43	476046.0	0.217111	Y
3	STD3 500-638287/5	20.0	3.852925	53.43	466388.0	0.192646	Y
4	STD4 500-638287/6	50.0	10.003516	53.43	487105.0	0.20007	Y
5	STD5 500-638287/7	100.0	20.975652	53.43	513098.0	0.209757	Y
6	STD6 500-638287/8	150.0	34.551673	53.43	520066.0	0.230344	Y
7	STD7 500-638287/9	200.0	43.087989	53.43	538014.0	0.21544	Y



Calibration

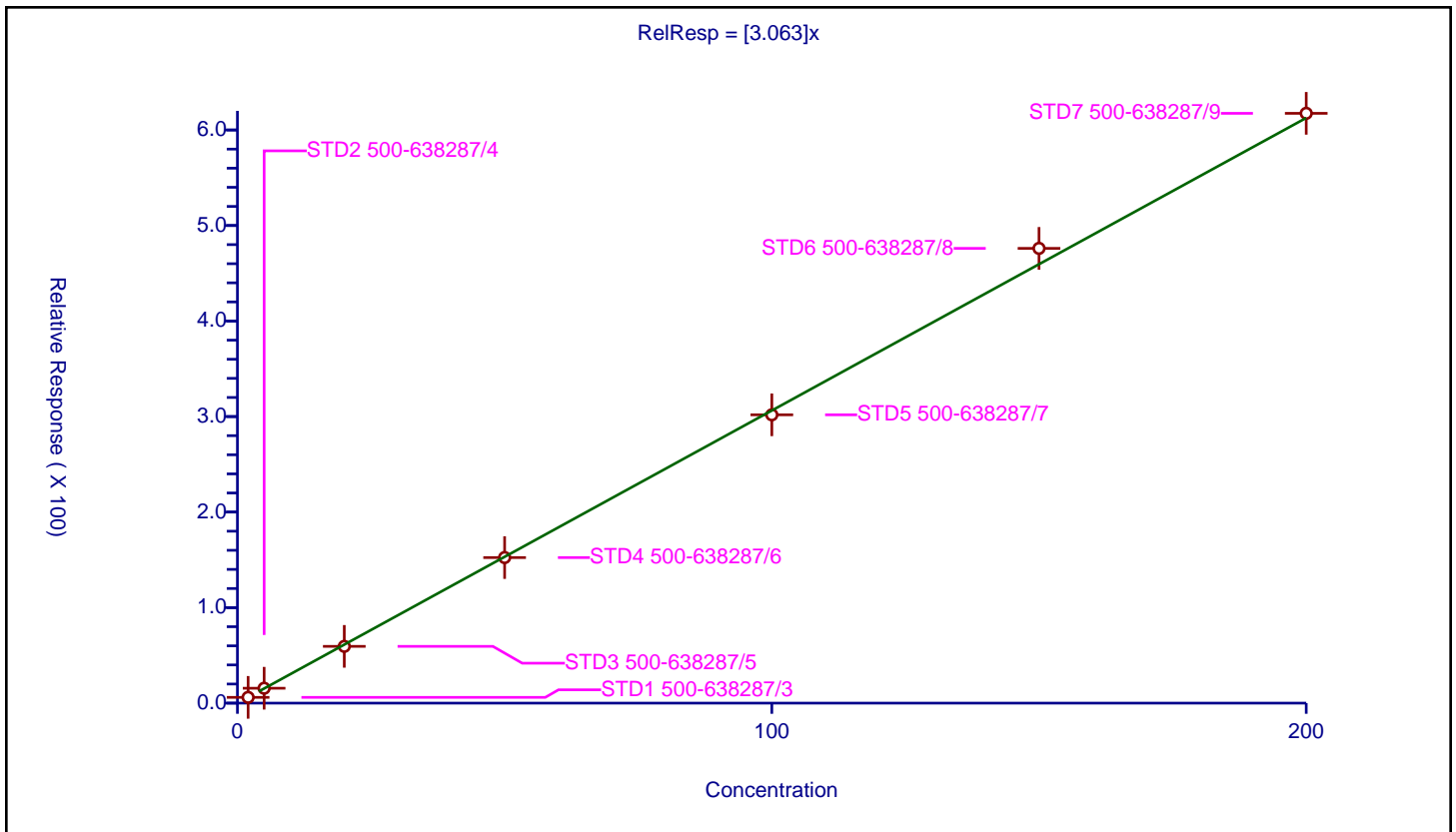
/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.063

Error Coefficients	
Standard Error:	2290000
Relative Standard Error:	2.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	6.048574	53.43	306734.0	3.024287	Y
2	STD2 500-638287/4	5.0	15.595152	53.43	286628.0	3.11903	Y
3	STD3 500-638287/5	20.0	59.439919	53.43	287868.0	2.971996	Y
4	STD4 500-638287/6	50.0	152.384019	53.43	294305.0	3.04768	Y
5	STD5 500-638287/7	100.0	301.831897	53.43	327740.0	3.018319	Y
6	STD6 500-638287/8	150.0	476.068153	53.43	347829.0	3.173788	Y
7	STD7 500-638287/9	200.0	617.438992	53.43	362090.0	3.087195	Y



Calibration

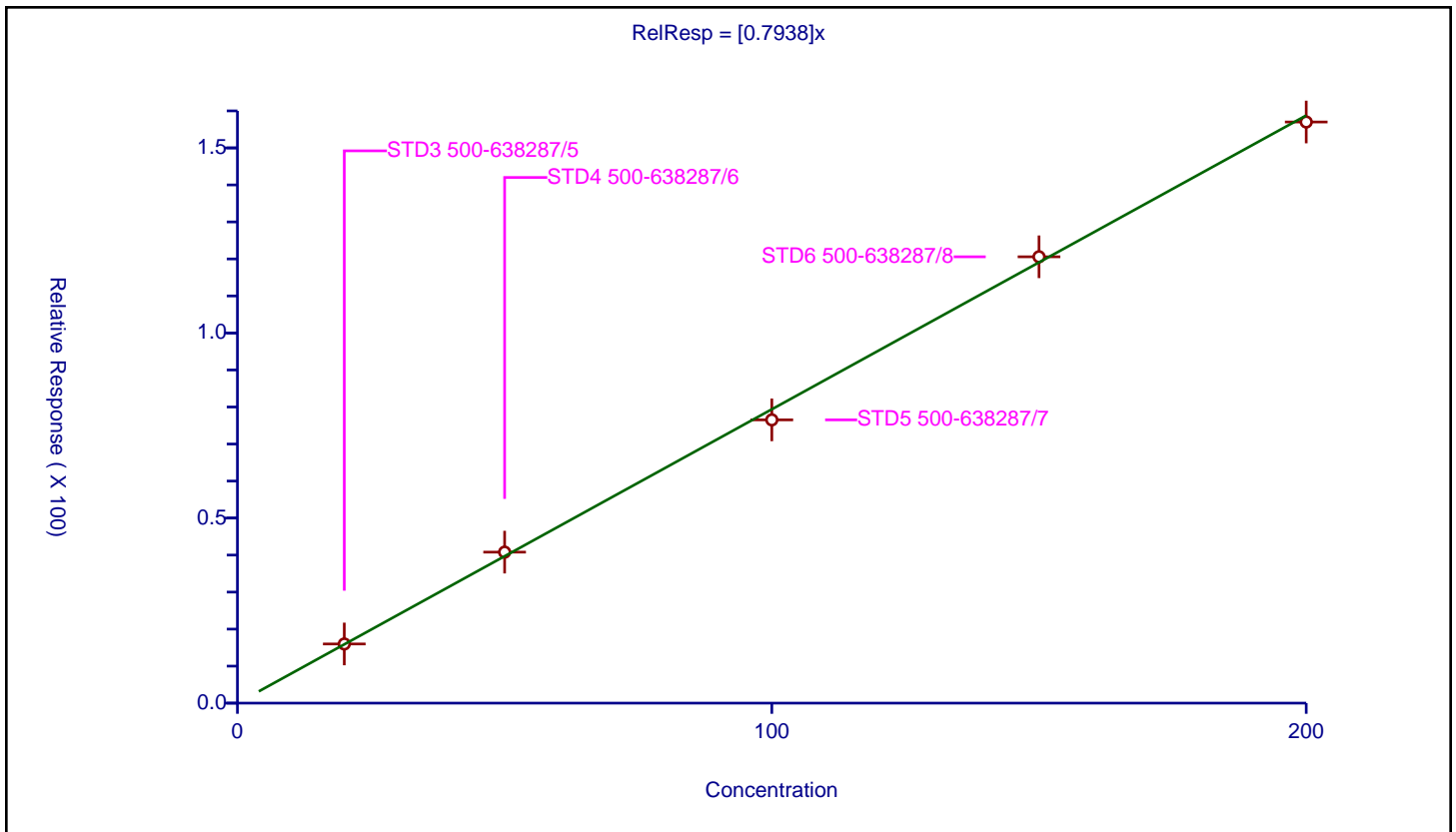
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7938

Error Coefficients	
Standard Error:	712000
Relative Standard Error:	2.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD3 500-638287/5	20.0	15.981596	53.43	287868.0	0.79908	Y
2	STD4 500-638287/6	50.0	40.793829	53.43	294305.0	0.815877	Y
3	STD5 500-638287/7	100.0	76.527952	53.43	327740.0	0.76528	Y
4	STD6 500-638287/8	150.0	120.581517	53.43	347829.0	0.803877	Y
5	STD7 500-638287/9	200.0	156.999264	53.43	362090.0	0.784996	Y



Calibration

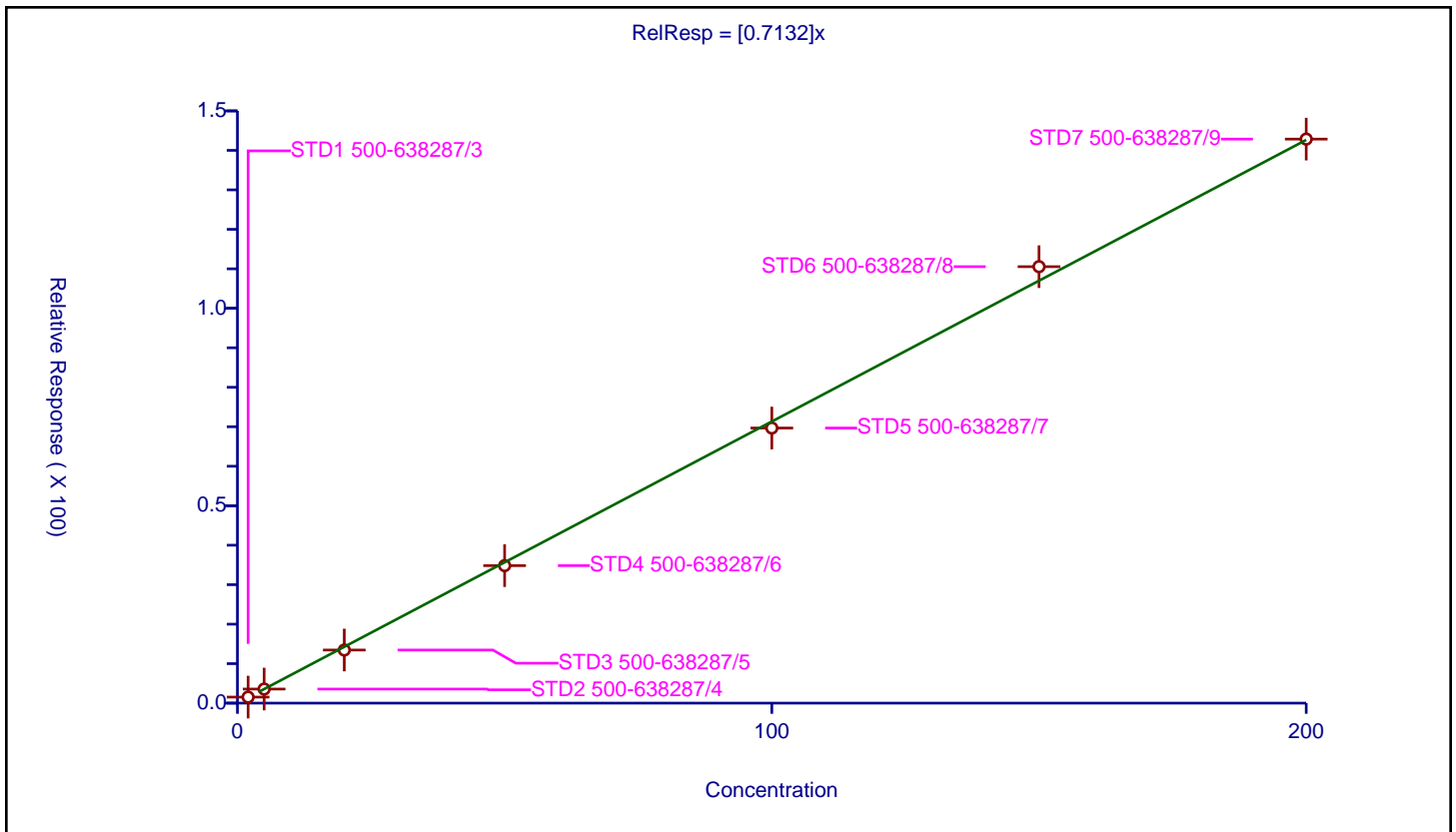
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7132

Error Coefficients	
Standard Error:	529000
Relative Standard Error:	4.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.525556	53.43	306734.0	0.762778	Y
2	STD2 500-638287/4	5.0	3.565256	53.43	286628.0	0.713051	Y
3	STD3 500-638287/5	20.0	13.44622	53.43	287868.0	0.672311	Y
4	STD4 500-638287/6	50.0	34.823496	53.43	294305.0	0.69647	Y
5	STD5 500-638287/7	100.0	69.672727	53.43	327740.0	0.696727	Y
6	STD6 500-638287/8	150.0	110.544796	53.43	347829.0	0.736965	Y
7	STD7 500-638287/9	200.0	142.854753	53.43	362090.0	0.714274	Y



Calibration

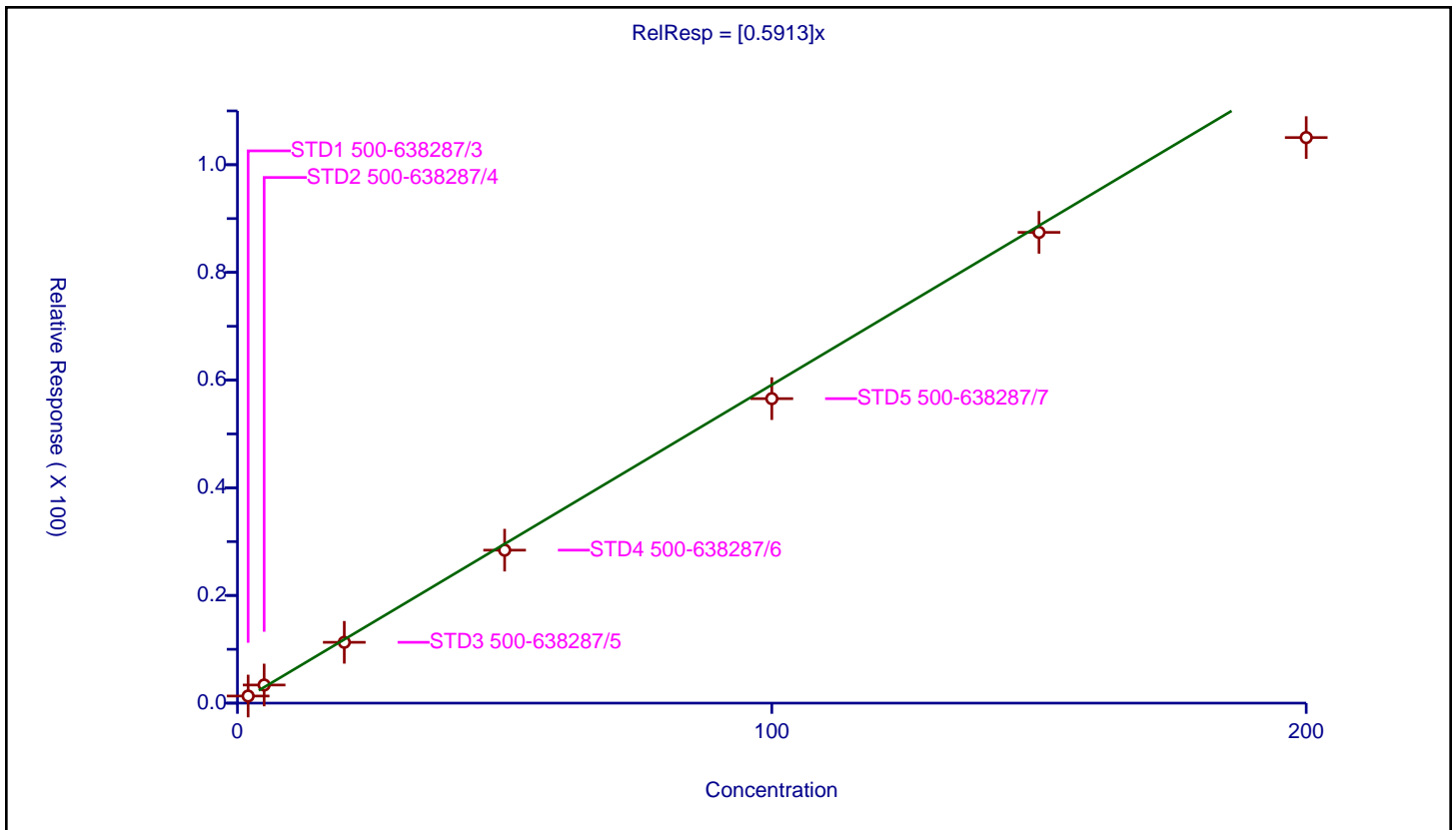
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5913

Error Coefficients	
Standard Error:	404000
Relative Standard Error:	9.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.317399	53.43	306734.0	0.6587	Y
2	STD2 500-638287/4	5.0	3.367103	53.43	286628.0	0.673421	Y
3	STD3 500-638287/5	20.0	11.296903	53.43	287868.0	0.564845	Y
4	STD4 500-638287/6	50.0	28.41146	53.43	294305.0	0.568229	Y
5	STD5 500-638287/7	100.0	56.552755	53.43	327740.0	0.565528	Y
6	STD6 500-638287/8	150.0	87.4394	53.43	347829.0	0.582929	Y
7	STD7 500-638287/9	200.0	105.045455	53.43	362090.0	0.525227	Y



Calibration

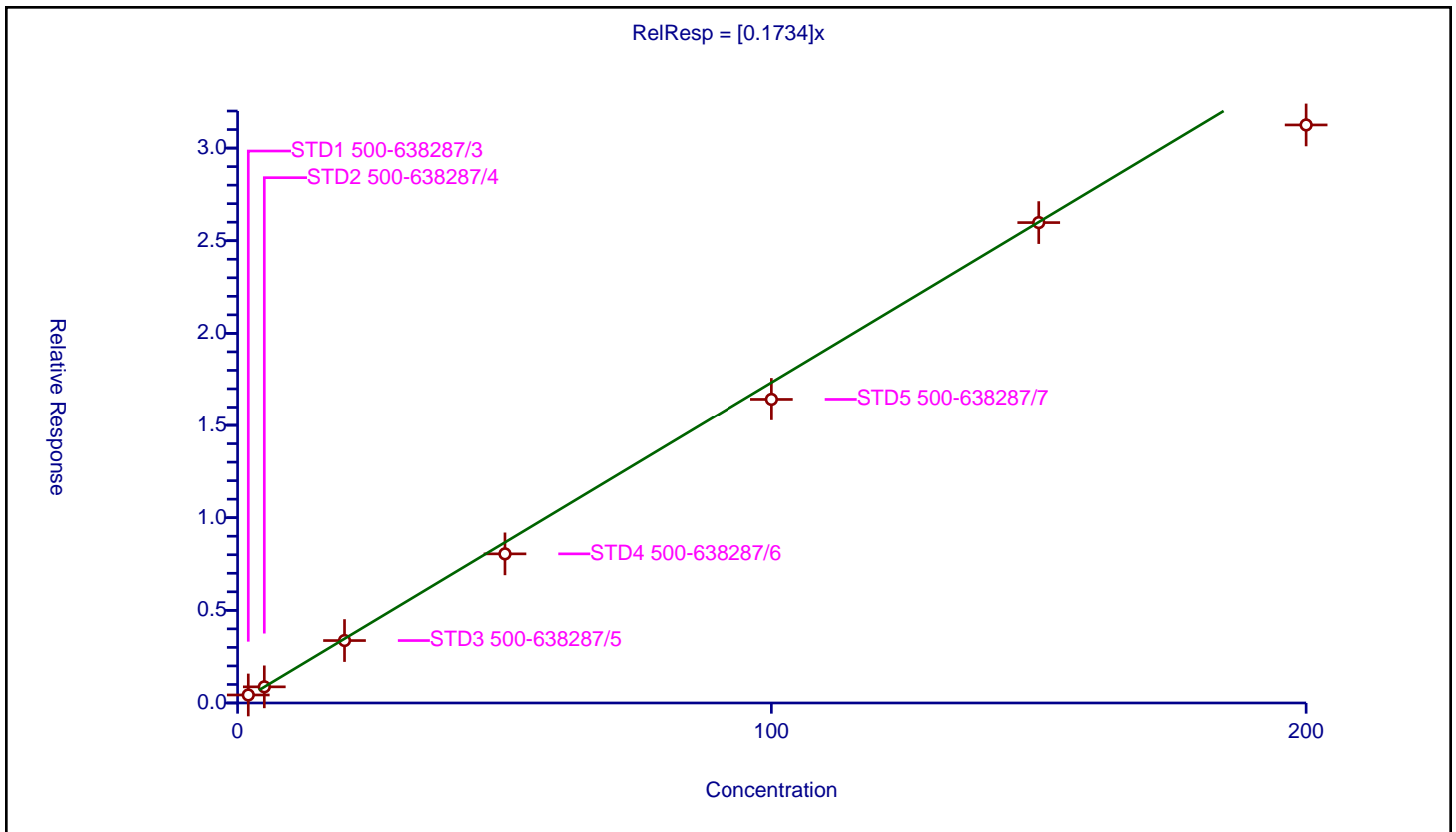
/ 1,2,3-Trichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1734

Error Coefficients	
Standard Error:	120000
Relative Standard Error:	11.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.432165	53.43	306734.0	0.216083	Y
2	STD2 500-638287/4	5.0	0.871461	53.43	286628.0	0.174292	Y
3	STD3 500-638287/5	20.0	3.370046	53.43	287868.0	0.168502	Y
4	STD4 500-638287/6	50.0	8.048676	53.43	294305.0	0.160974	Y
5	STD5 500-638287/7	100.0	16.432977	53.43	327740.0	0.16433	Y
6	STD6 500-638287/8	150.0	25.979439	53.43	347829.0	0.173196	Y
7	STD7 500-638287/9	200.0	31.248486	53.43	362090.0	0.156242	Y



Calibration

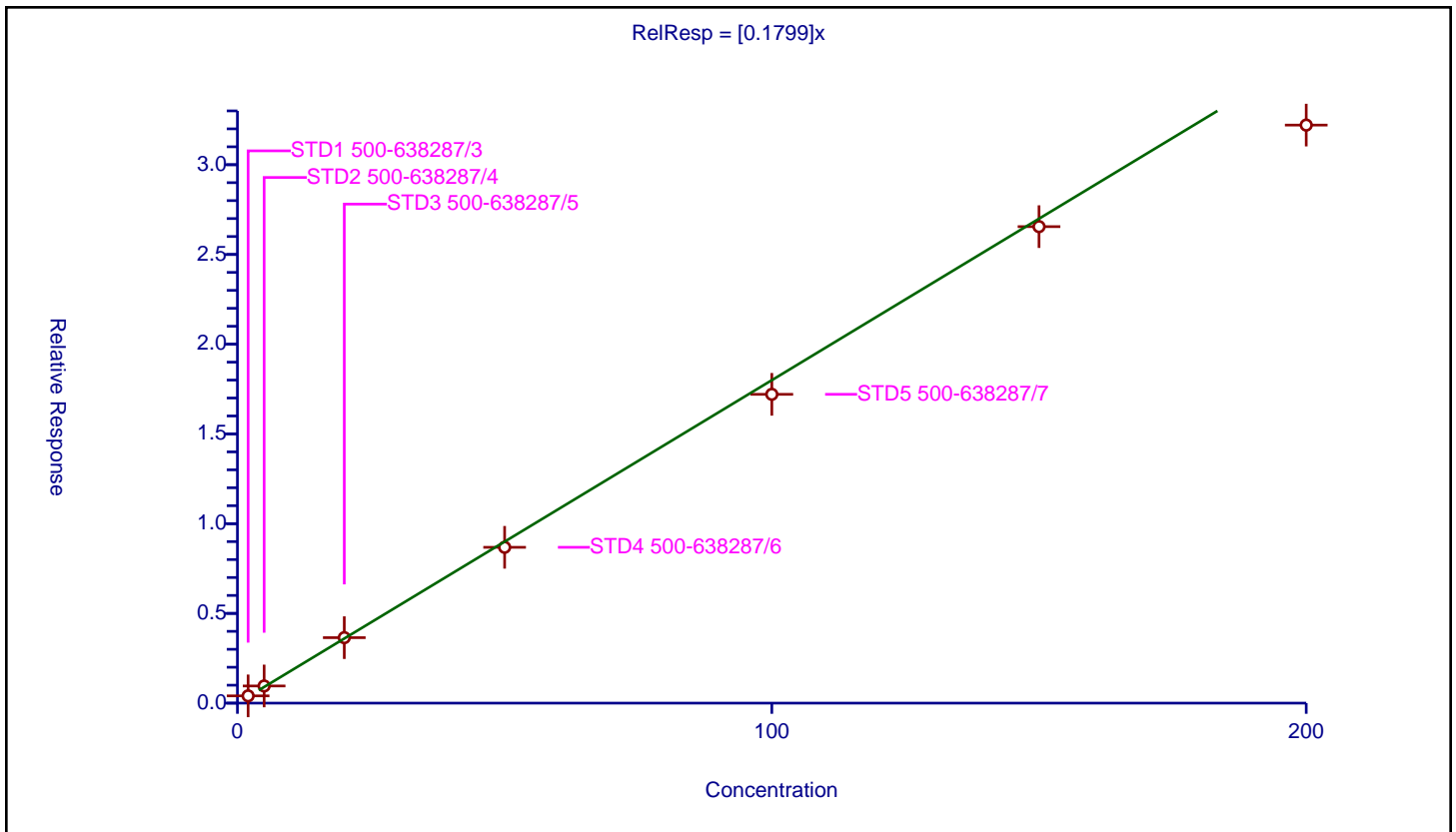
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1799

Error Coefficients	
Standard Error:	123000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.404469	53.43	306734.0	0.202235	Y
2	STD2 500-638287/4	5.0	0.956091	53.43	286628.0	0.191218	Y
3	STD3 500-638287/5	20.0	3.648084	53.43	287868.0	0.182404	Y
4	STD4 500-638287/6	50.0	8.682636	53.43	294305.0	0.173653	Y
5	STD5 500-638287/7	100.0	17.207186	53.43	327740.0	0.172072	Y
6	STD6 500-638287/8	150.0	26.550407	53.43	347829.0	0.177003	Y
7	STD7 500-638287/9	200.0	32.208954	53.43	362090.0	0.161045	Y



Calibration

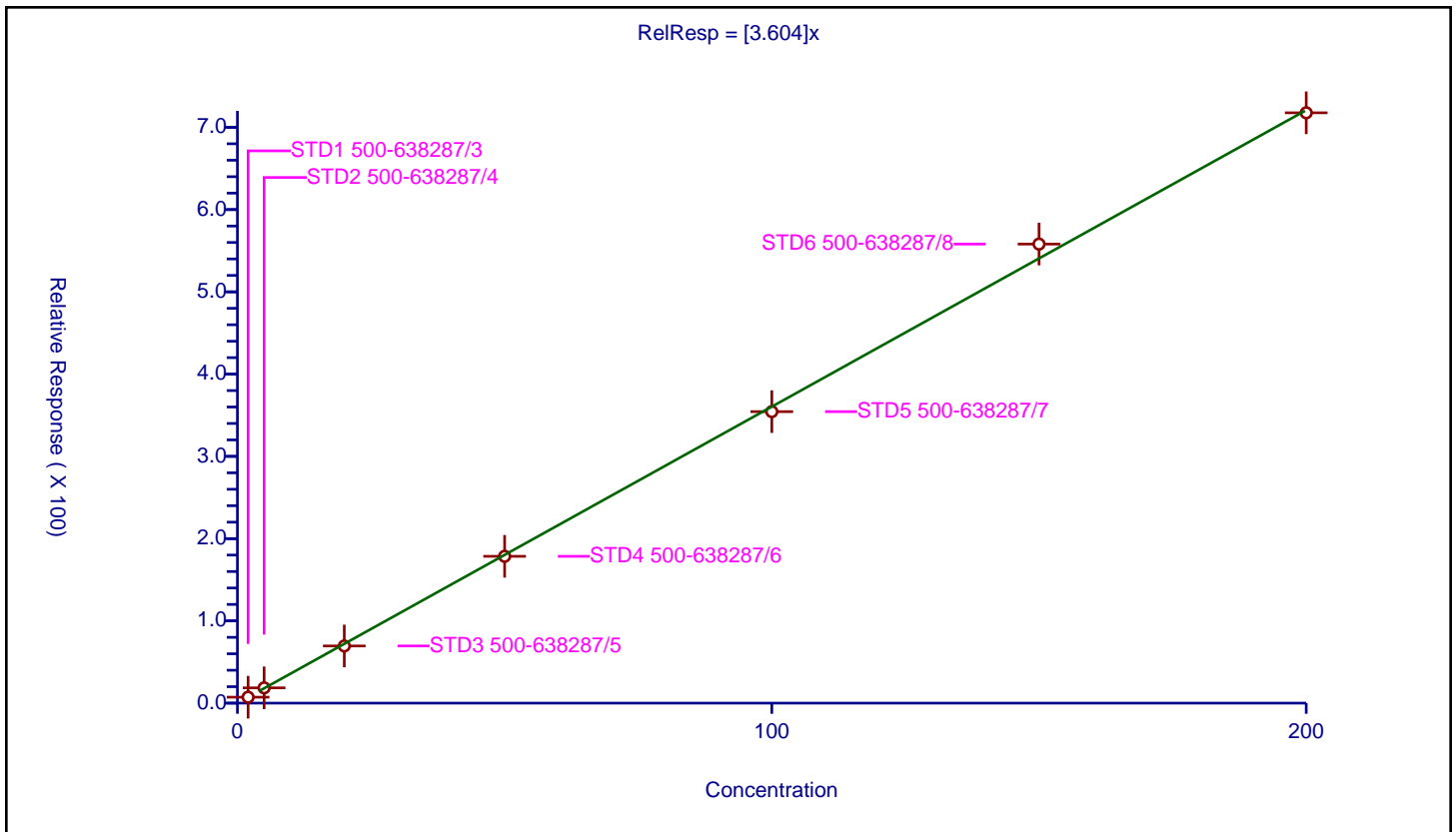
/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.604

Error Coefficients	
Standard Error:	2670000
Relative Standard Error:	2.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	7.234111	53.43	306734.0	3.617056	Y
2	STD2 500-638287/4	5.0	18.572474	53.43	286628.0	3.714495	Y
3	STD3 500-638287/5	20.0	69.509411	53.43	287868.0	3.475471	Y
4	STD4 500-638287/6	50.0	178.48385	53.43	294305.0	3.569677	Y
5	STD5 500-638287/7	100.0	354.368353	53.43	327740.0	3.543684	Y
6	STD6 500-638287/8	150.0	558.074828	53.43	347829.0	3.720499	Y
7	STD7 500-638287/9	200.0	717.663957	53.43	362090.0	3.58832	Y



Calibration

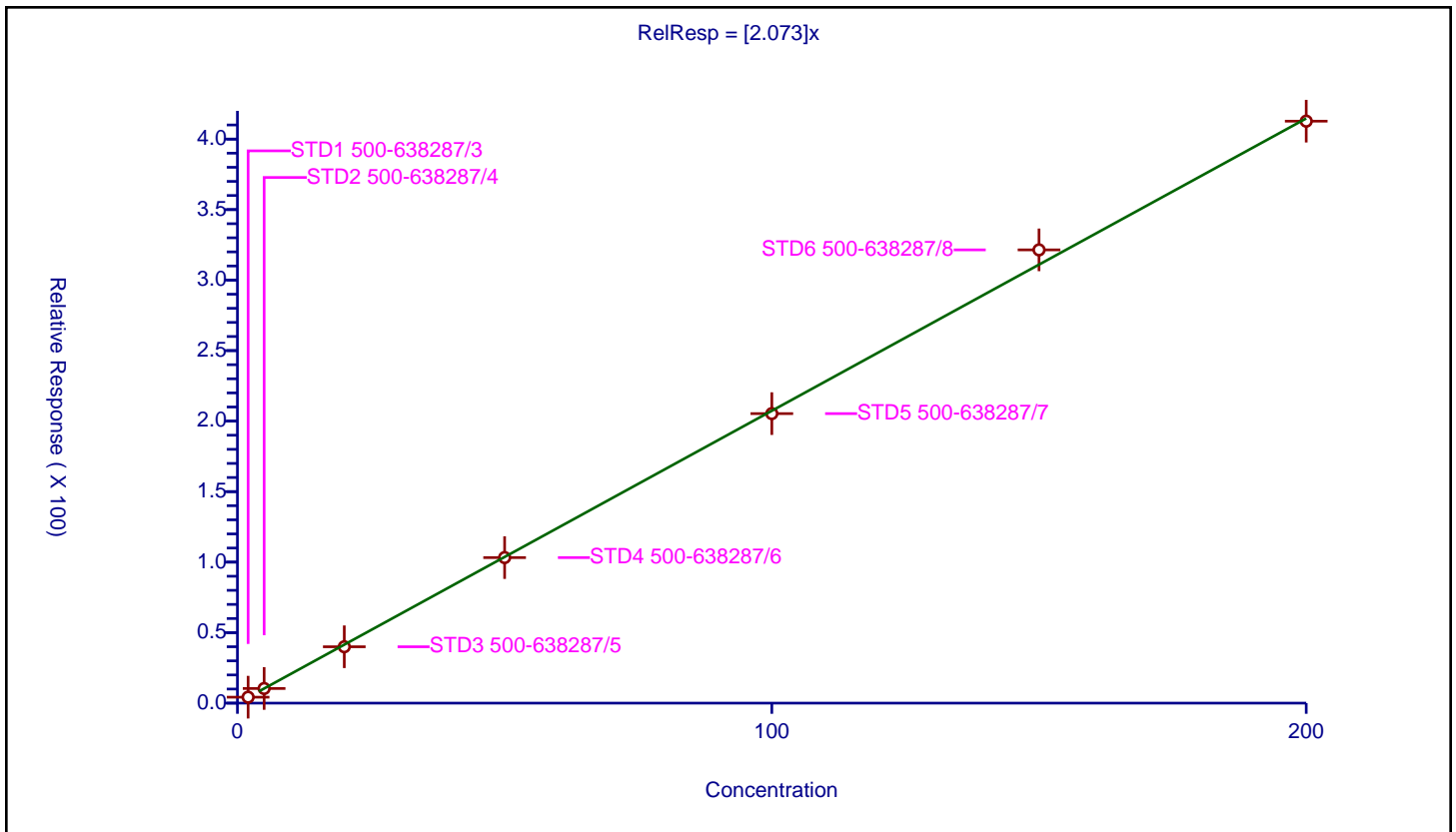
/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.073

Error Coefficients	
Standard Error:	1540000
Relative Standard Error:	2.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	4.224282	53.43	306734.0	2.112141	Y
2	STD2 500-638287/4	5.0	10.388193	53.43	286628.0	2.077639	Y
3	STD3 500-638287/5	20.0	39.981924	53.43	287868.0	1.999096	Y
4	STD4 500-638287/6	50.0	103.204383	53.43	294305.0	2.064088	Y
5	STD5 500-638287/7	100.0	205.316032	53.43	327740.0	2.05316	Y
6	STD6 500-638287/8	150.0	321.433457	53.43	347829.0	2.14289	Y
7	STD7 500-638287/9	200.0	412.718086	53.43	362090.0	2.06359	Y



Calibration

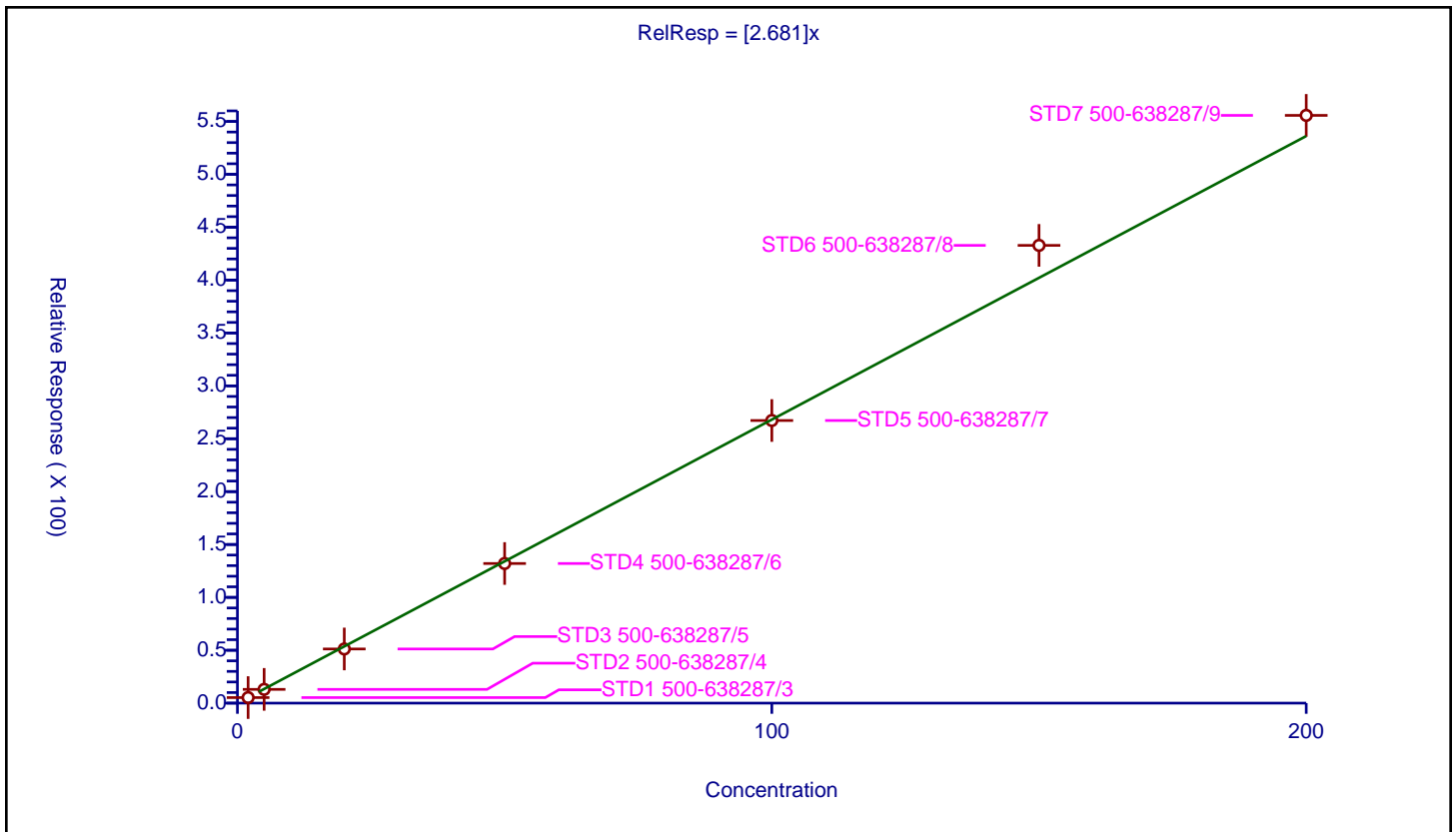
/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.681

Error Coefficients	
Standard Error:	2060000
Relative Standard Error:	4.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	5.252352	53.43	306734.0	2.626176	Y
2	STD2 500-638287/4	5.0	13.016185	53.43	286628.0	2.603237	Y
3	STD3 500-638287/5	20.0	51.213309	53.43	287868.0	2.560665	Y
4	STD4 500-638287/6	50.0	132.02995	53.43	294305.0	2.640599	Y
5	STD5 500-638287/7	100.0	267.232817	53.43	327740.0	2.672328	Y
6	STD6 500-638287/8	150.0	432.832171	53.43	347829.0	2.885548	Y
7	STD7 500-638287/9	200.0	555.751387	53.43	362090.0	2.778757	Y



Calibration

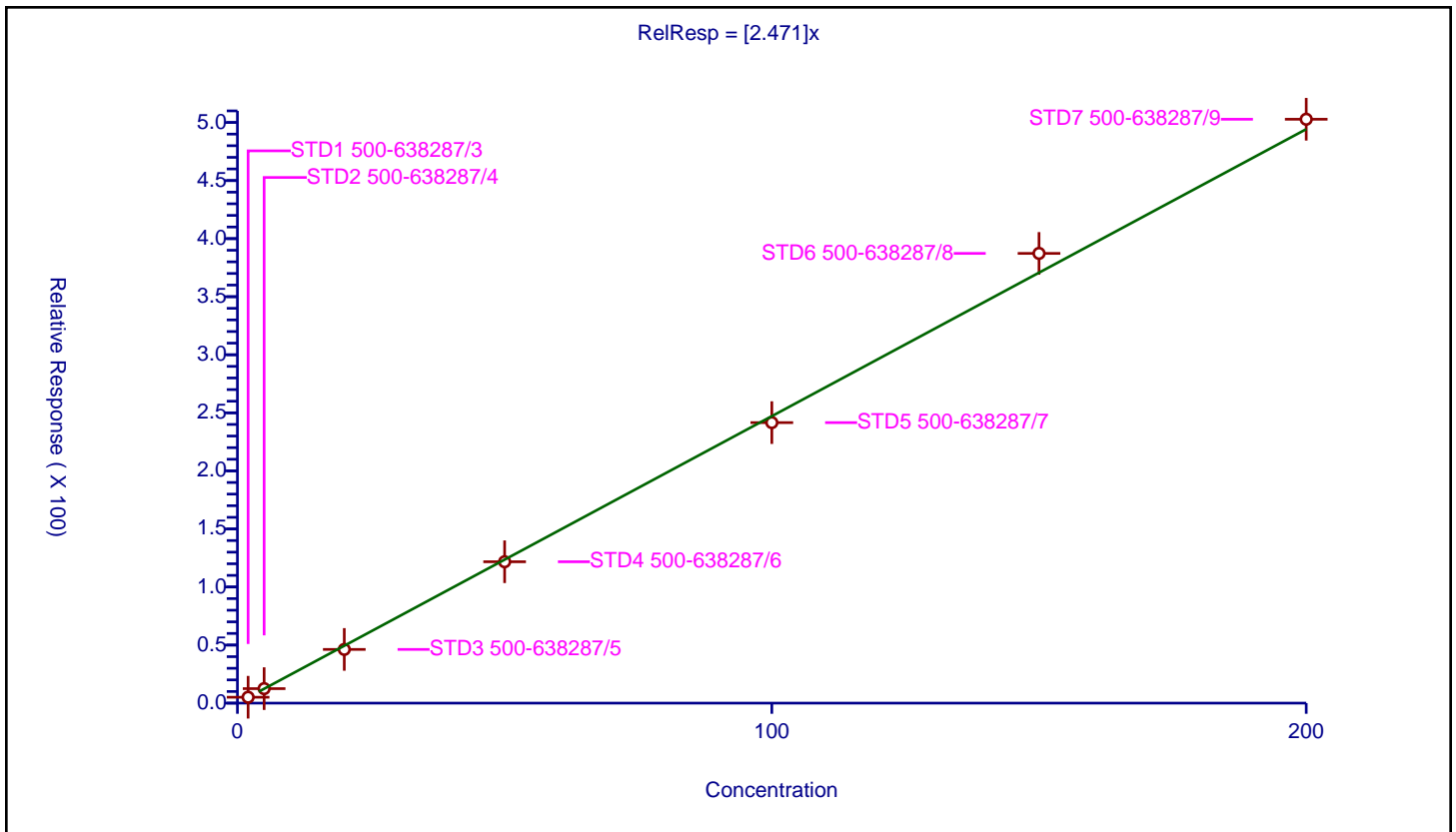
/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.471

Error Coefficients	
Standard Error:	1860000
Relative Standard Error:	3.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	5.081297	53.43	306734.0	2.540648	Y
2	STD2 500-638287/4	5.0	12.495545	53.43	286628.0	2.499109	Y
3	STD3 500-638287/5	20.0	46.256703	53.43	287868.0	2.312835	Y
4	STD4 500-638287/6	50.0	121.747164	53.43	294305.0	2.434943	Y
5	STD5 500-638287/7	100.0	241.55466	53.43	327740.0	2.415547	Y
6	STD6 500-638287/8	150.0	387.268844	53.43	347829.0	2.581792	Y
7	STD7 500-638287/9	200.0	502.791366	53.43	362090.0	2.513957	Y



Calibration

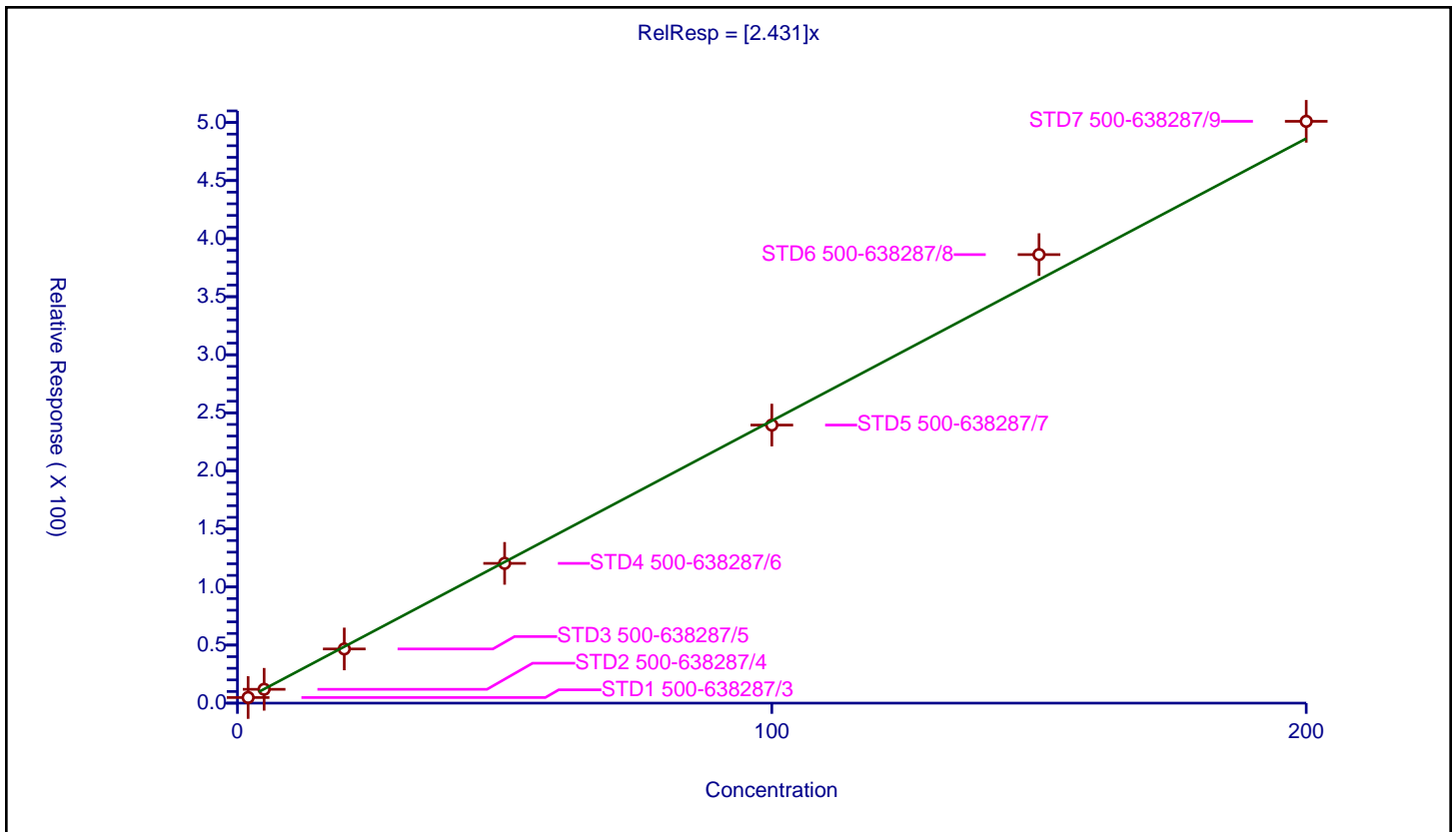
/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.431

Error Coefficients	
Standard Error:	1850000
Relative Standard Error:	3.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	4.834992	53.43	306734.0	2.417496	Y
2	STD2 500-638287/4	5.0	11.918983	53.43	286628.0	2.383797	Y
3	STD3 500-638287/5	20.0	46.672089	53.43	287868.0	2.333604	Y
4	STD4 500-638287/6	50.0	120.354704	53.43	294305.0	2.407094	Y
5	STD5 500-638287/7	100.0	239.448532	53.43	327740.0	2.394485	Y
6	STD6 500-638287/8	150.0	386.251332	53.43	347829.0	2.575009	Y
7	STD7 500-638287/9	200.0	500.998512	53.43	362090.0	2.504993	Y



Calibration

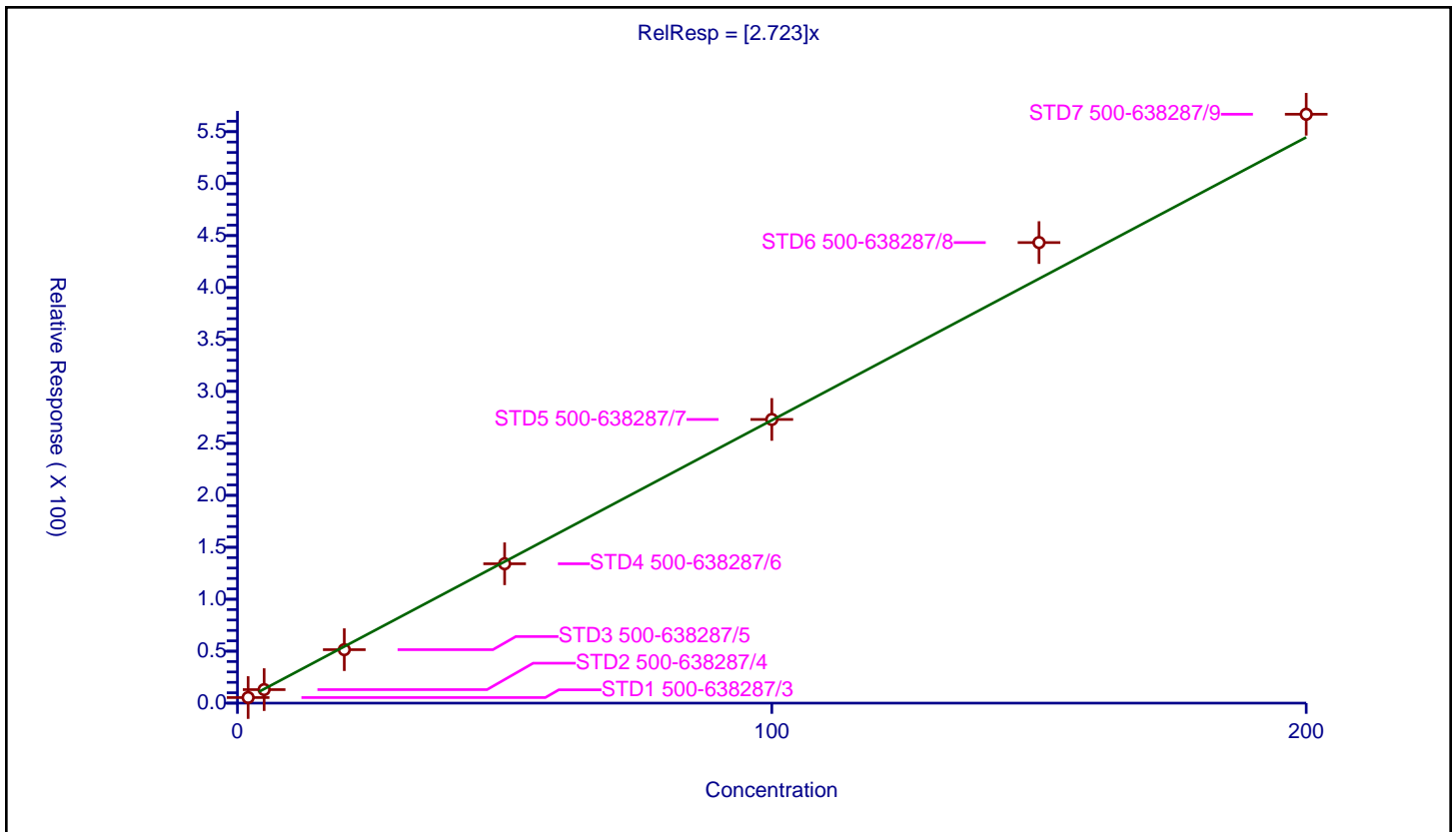
/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.723

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	4.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	5.366794	53.43	306734.0	2.683397	Y
2	STD2 500-638287/4	5.0	13.017304	53.43	286628.0	2.603461	Y
3	STD3 500-638287/5	20.0	51.458123	53.43	287868.0	2.572906	Y
4	STD4 500-638287/6	50.0	134.11737	53.43	294305.0	2.682347	Y
5	STD5 500-638287/7	100.0	273.023811	53.43	327740.0	2.730238	Y
6	STD6 500-638287/8	150.0	443.27688	53.43	347829.0	2.955179	Y
7	STD7 500-638287/9	200.0	566.759511	53.43	362090.0	2.833798	Y



Calibration

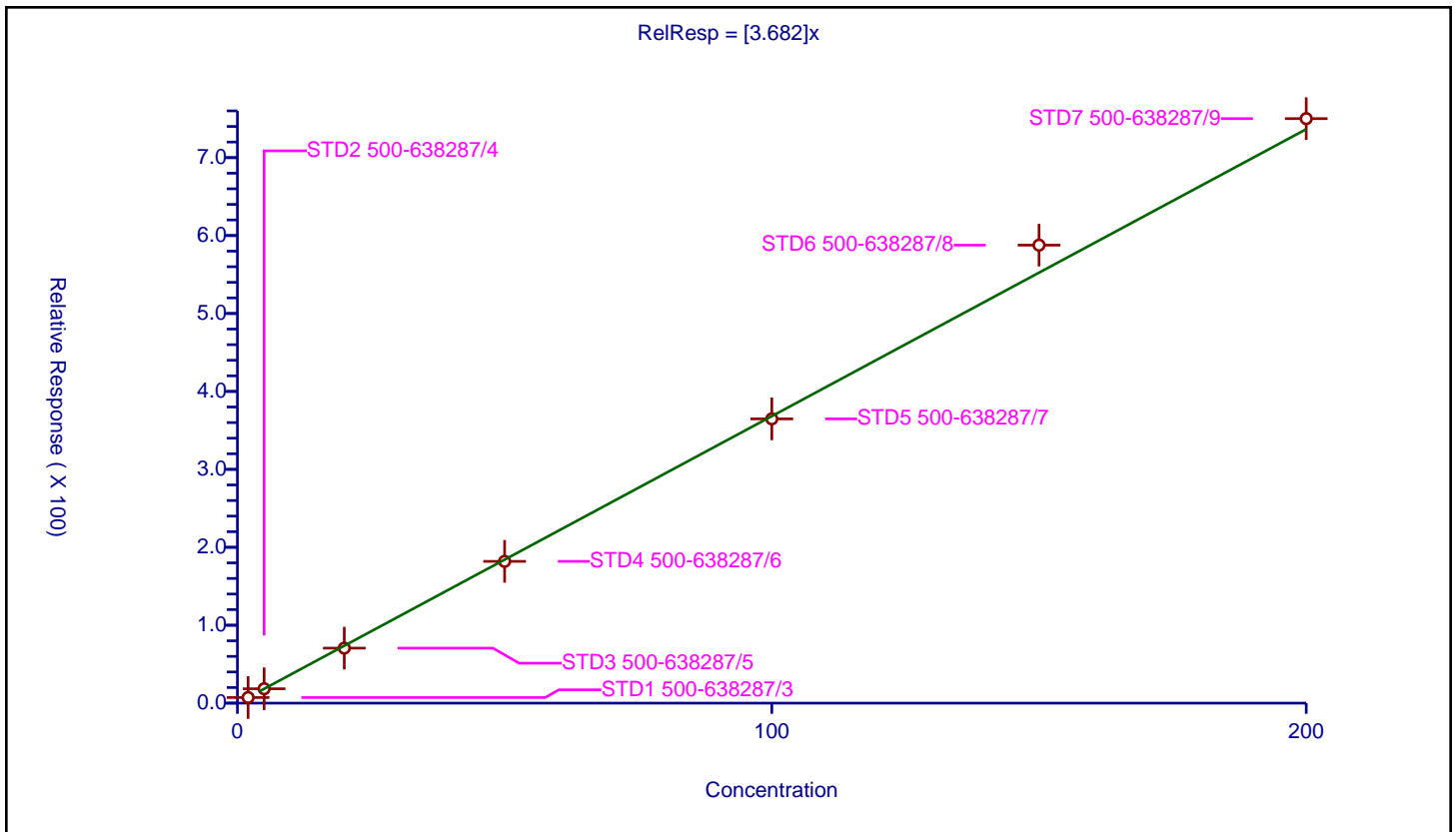
/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.682

Error Coefficients	
Standard Error:	2790000
Relative Standard Error:	3.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	7.209376	53.43	306734.0	3.604688	Y
2	STD2 500-638287/4	5.0	18.443107	53.43	286628.0	3.688621	Y
3	STD3 500-638287/5	20.0	70.589451	53.43	287868.0	3.529473	Y
4	STD4 500-638287/6	50.0	181.924879	53.43	294305.0	3.638498	Y
5	STD5 500-638287/7	100.0	364.774275	53.43	327740.0	3.647743	Y
6	STD6 500-638287/8	150.0	587.696974	53.43	347829.0	3.91798	Y
7	STD7 500-638287/9	200.0	750.048655	53.43	362090.0	3.750243	Y



Calibration

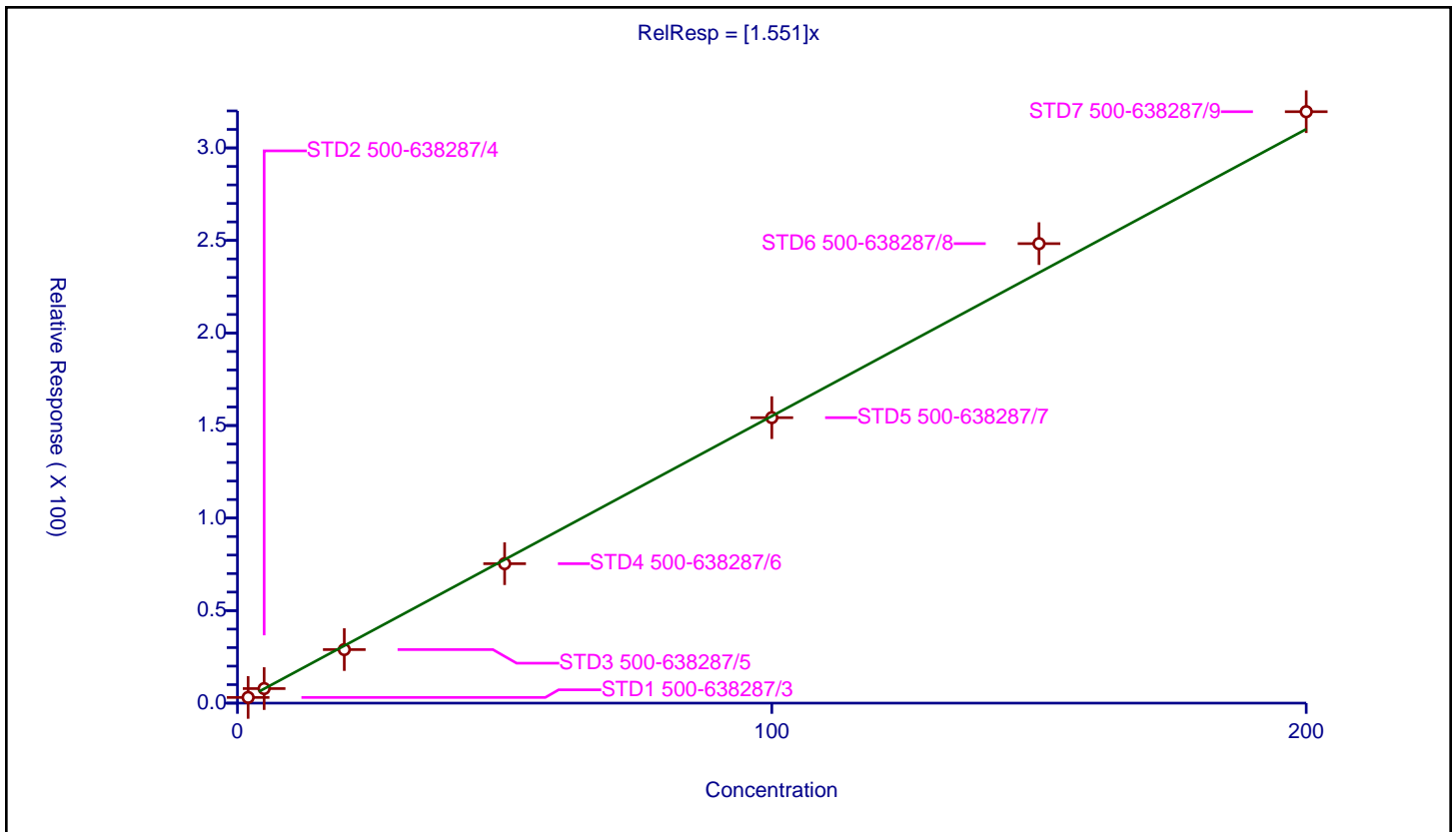
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.551

Error Coefficients	
Standard Error:	1180000
Relative Standard Error:	4.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	3.067486	53.43	306734.0	1.533743	Y
2	STD2 500-638287/4	5.0	7.858625	53.43	286628.0	1.571725	Y
3	STD3 500-638287/5	20.0	28.936331	53.43	287868.0	1.446817	Y
4	STD4 500-638287/6	50.0	75.349181	53.43	294305.0	1.506984	Y
5	STD5 500-638287/7	100.0	154.246805	53.43	327740.0	1.542468	Y
6	STD6 500-638287/8	150.0	248.269646	53.43	347829.0	1.655131	Y
7	STD7 500-638287/9	200.0	319.563016	53.43	362090.0	1.597815	Y



Calibration

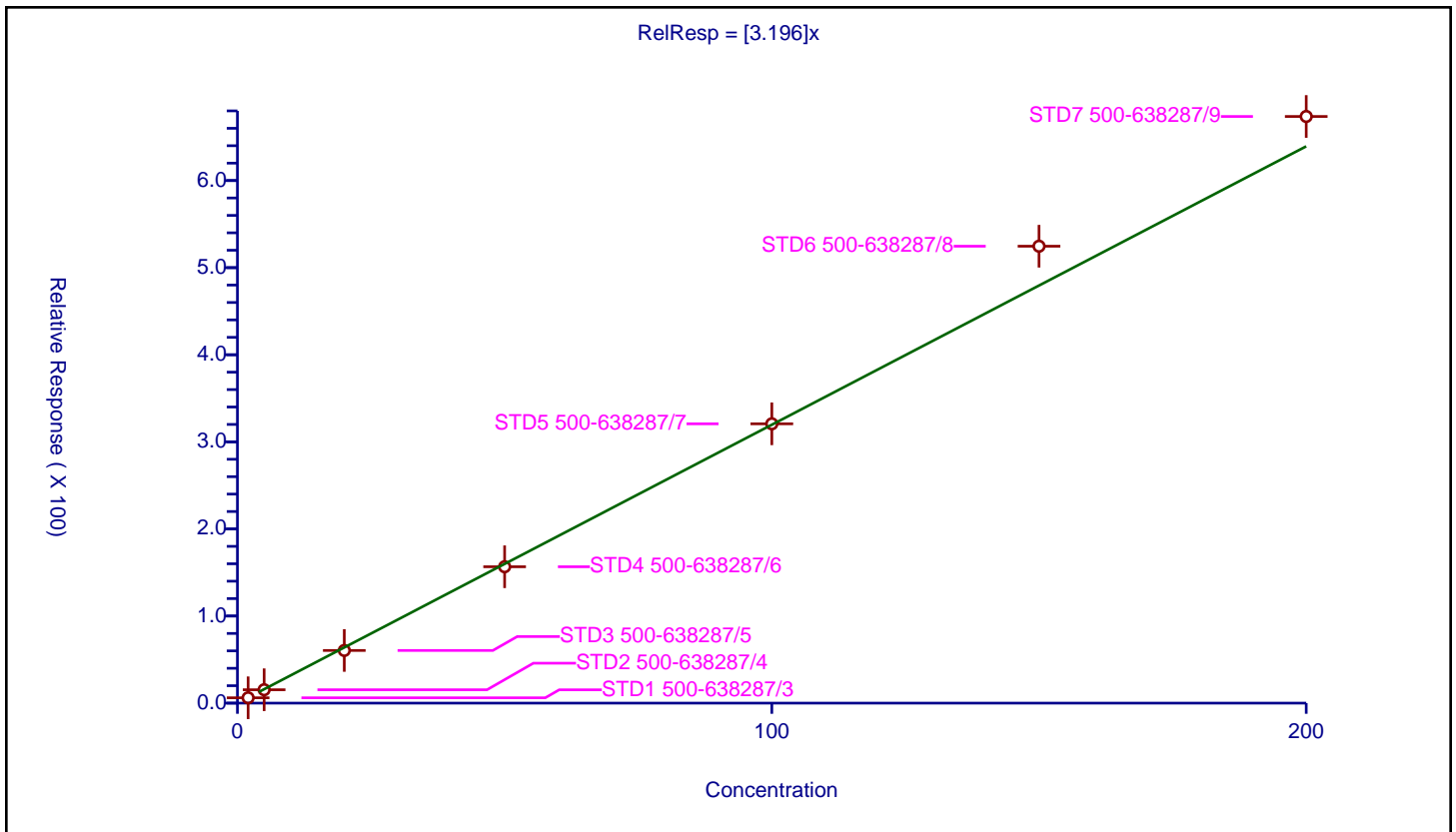
/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.196

Error Coefficients	
Standard Error:	2490000
Relative Standard Error:	5.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	6.144901	53.43	306734.0	3.072451	Y
2	STD2 500-638287/4	5.0	15.379291	53.43	286628.0	3.075858	Y
3	STD3 500-638287/5	20.0	60.457782	53.43	287868.0	3.022889	Y
4	STD4 500-638287/6	50.0	156.593898	53.43	294305.0	3.131878	Y
5	STD5 500-638287/7	100.0	320.697541	53.43	327740.0	3.206975	Y
6	STD6 500-638287/8	150.0	524.630253	53.43	347829.0	3.497535	Y
7	STD7 500-638287/9	200.0	673.581883	53.43	362090.0	3.367909	Y



Calibration

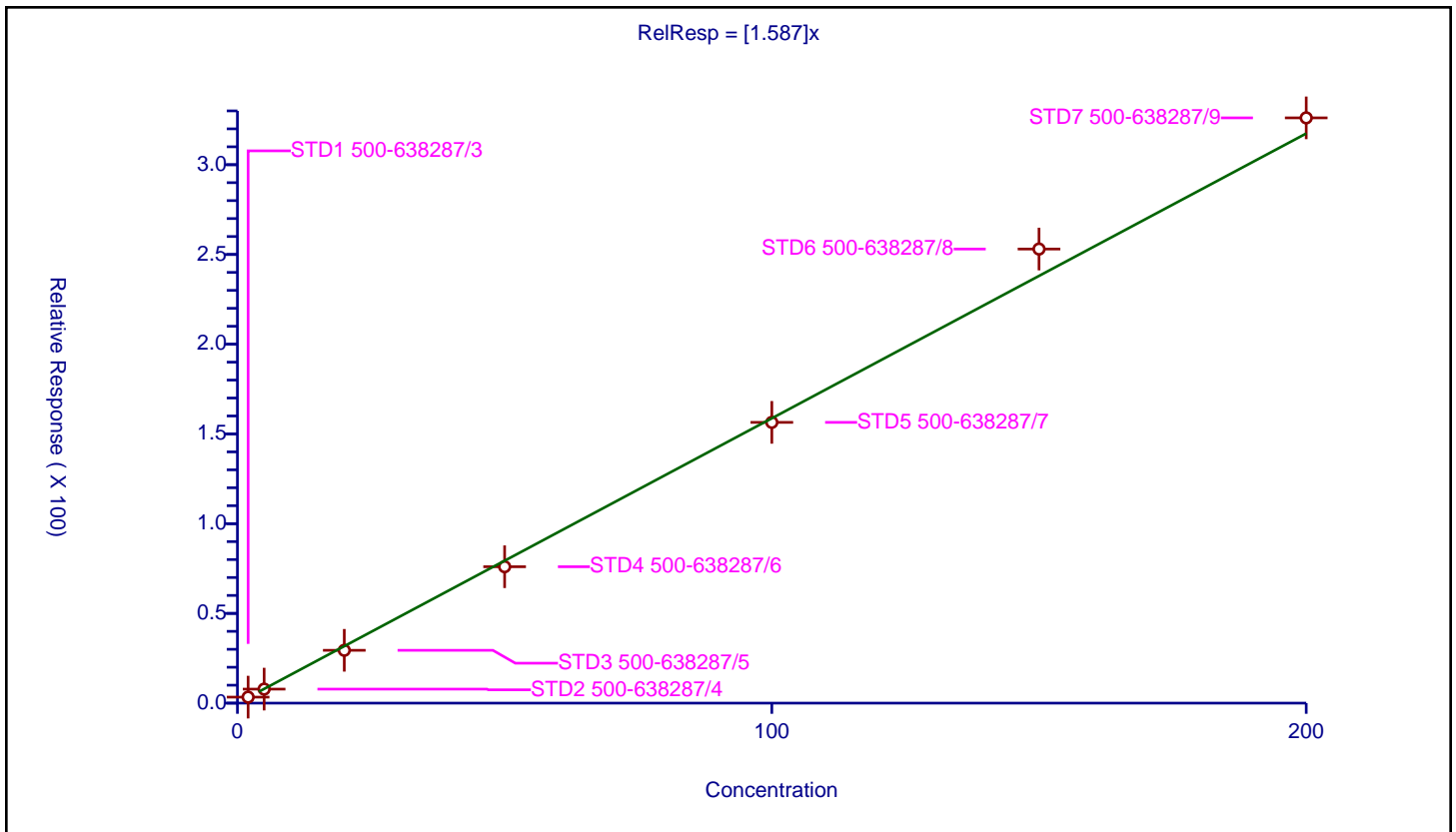
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.587

Error Coefficients	
Standard Error:	1210000
Relative Standard Error:	5.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	3.346713	53.43	306734.0	1.673356	Y
2	STD2 500-638287/4	5.0	7.810718	53.43	286628.0	1.562144	Y
3	STD3 500-638287/5	20.0	29.432827	53.43	287868.0	1.471641	Y
4	STD4 500-638287/6	50.0	76.010554	53.43	294305.0	1.520211	Y
5	STD5 500-638287/7	100.0	156.437543	53.43	327740.0	1.564375	Y
6	STD6 500-638287/8	150.0	253.017423	53.43	347829.0	1.686783	Y
7	STD7 500-638287/9	200.0	326.111877	53.43	362090.0	1.630559	Y



Calibration

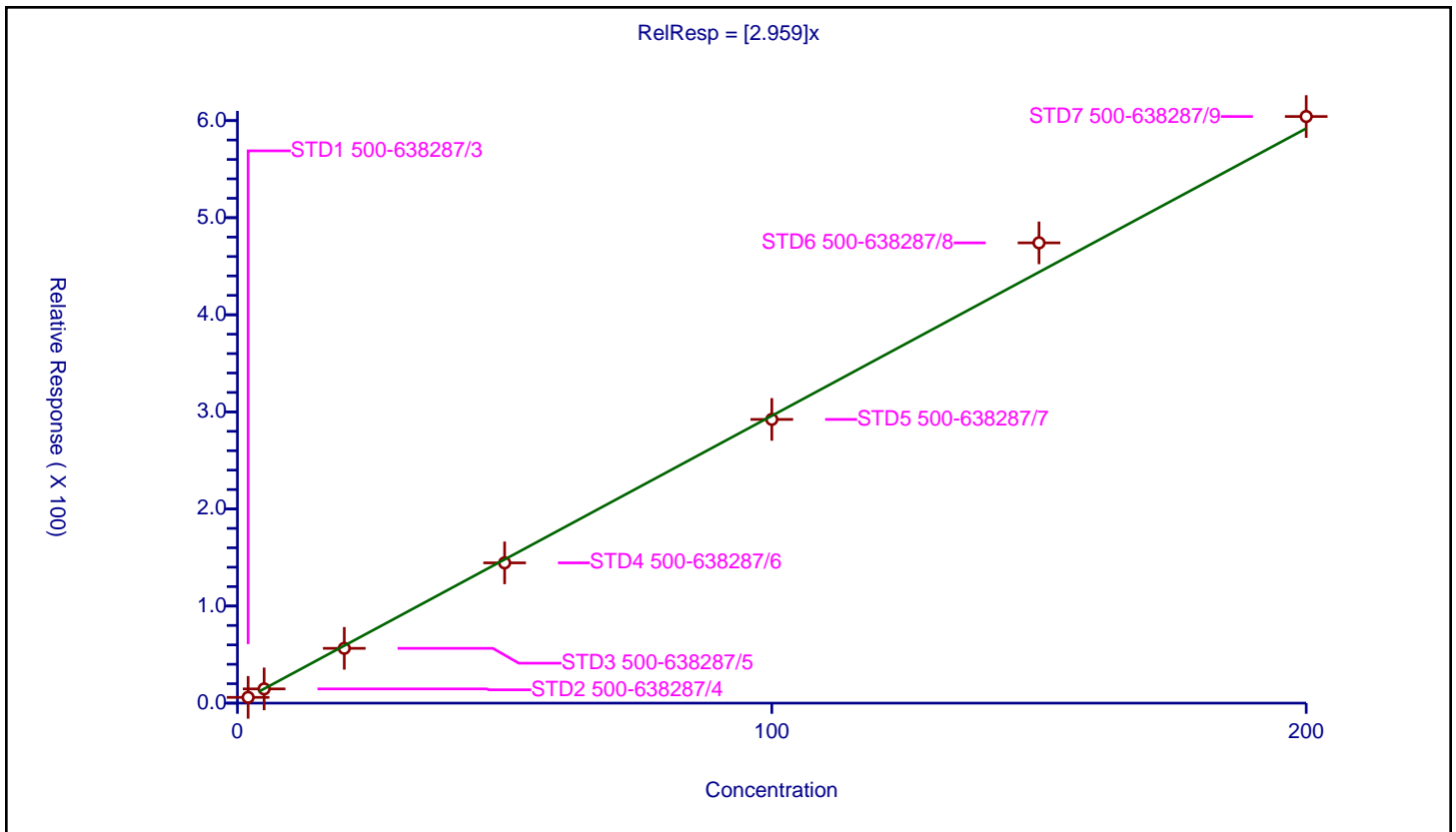
/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.959

Error Coefficients	
Standard Error:	2240000
Relative Standard Error:	3.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	5.937092	53.43	306734.0	2.968546	Y
2	STD2 500-638287/4	5.0	14.660498	53.43	286628.0	2.9321	Y
3	STD3 500-638287/5	20.0	56.45185	53.43	287868.0	2.822592	Y
4	STD4 500-638287/6	50.0	144.474045	53.43	294305.0	2.889481	Y
5	STD5 500-638287/7	100.0	292.223169	53.43	327740.0	2.922232	Y
6	STD6 500-638287/8	150.0	474.075524	53.43	347829.0	3.160503	Y
7	STD7 500-638287/9	200.0	604.20109	53.43	362090.0	3.021005	Y



Calibration

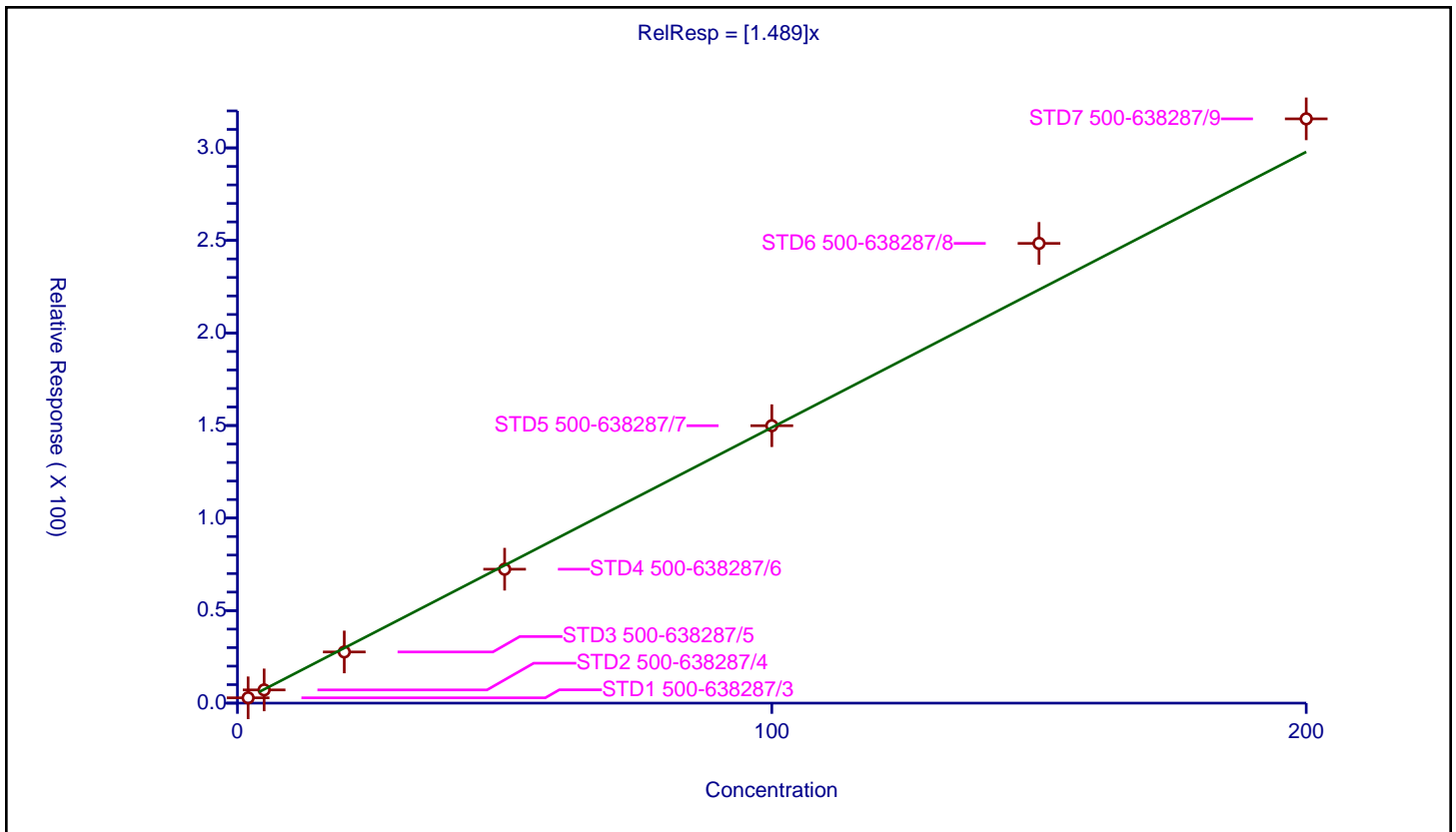
/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.489

Error Coefficients	
Standard Error:	1170000
Relative Standard Error:	6.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	2.866819	53.43	306734.0	1.43341	Y
2	STD2 500-638287/4	5.0	7.139832	53.43	286628.0	1.427966	Y
3	STD3 500-638287/5	20.0	27.652124	53.43	287868.0	1.382606	Y
4	STD4 500-638287/6	50.0	72.36002	53.43	294305.0	1.4472	Y
5	STD5 500-638287/7	100.0	149.899891	53.43	327740.0	1.498999	Y
6	STD6 500-638287/8	150.0	248.41281	53.43	347829.0	1.656085	Y
7	STD7 500-638287/9	200.0	315.69724	53.43	362090.0	1.578486	Y



Calibration

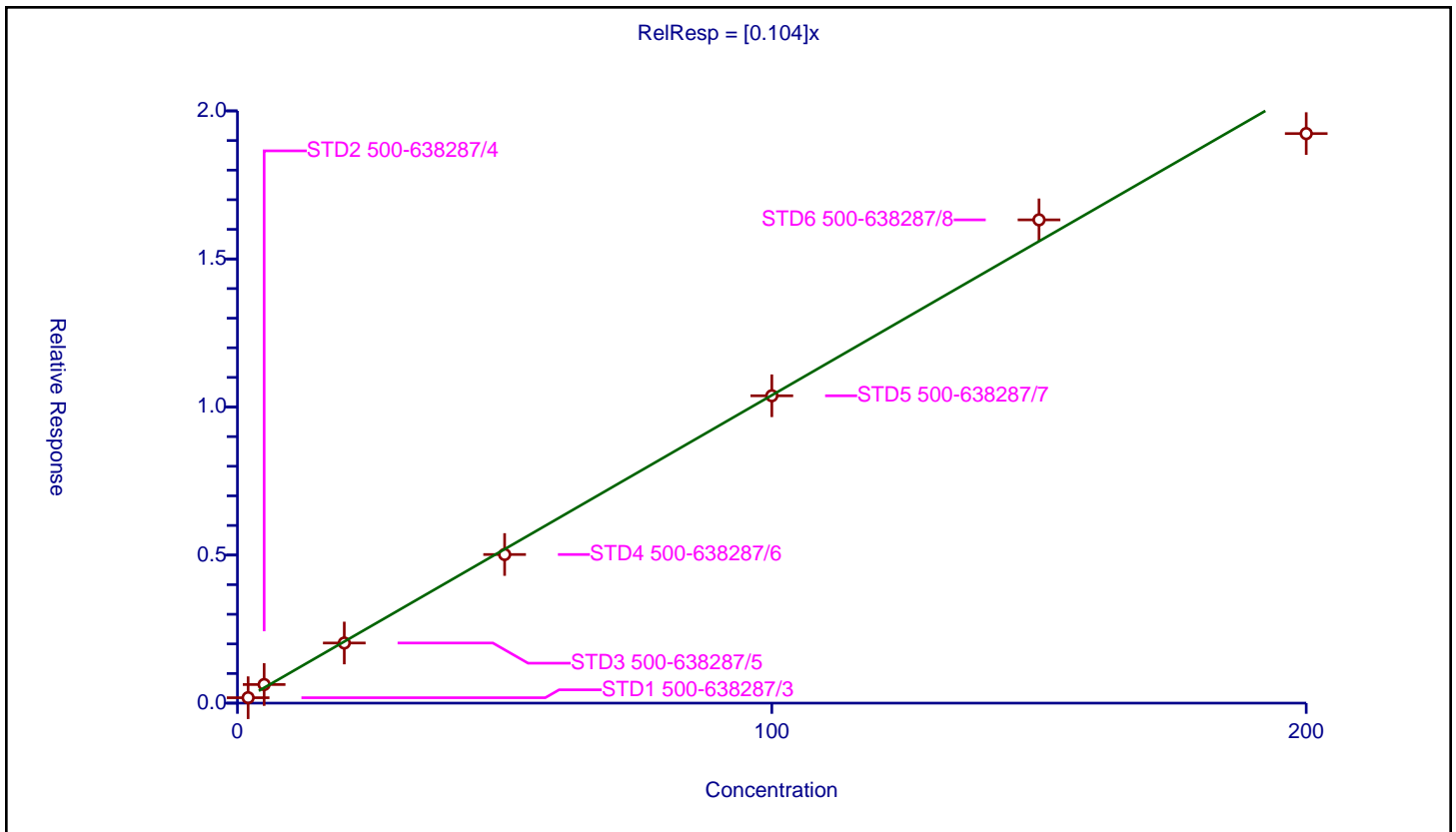
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.104

Error Coefficients	
Standard Error:	74400
Relative Standard Error:	10.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	0.183074	53.43	306734.0	0.091537	Y
2	STD2 500-638287/4	5.0	0.628011	53.43	286628.0	0.125602	Y
3	STD3 500-638287/5	20.0	2.030343	53.43	287868.0	0.101517	Y
4	STD4 500-638287/6	50.0	5.018849	53.43	294305.0	0.100377	Y
5	STD5 500-638287/7	100.0	10.380164	53.43	327740.0	0.103802	Y
6	STD6 500-638287/8	150.0	16.320751	53.43	347829.0	0.108805	Y
7	STD7 500-638287/9	200.0	19.233413	53.43	362090.0	0.096167	Y



Calibration

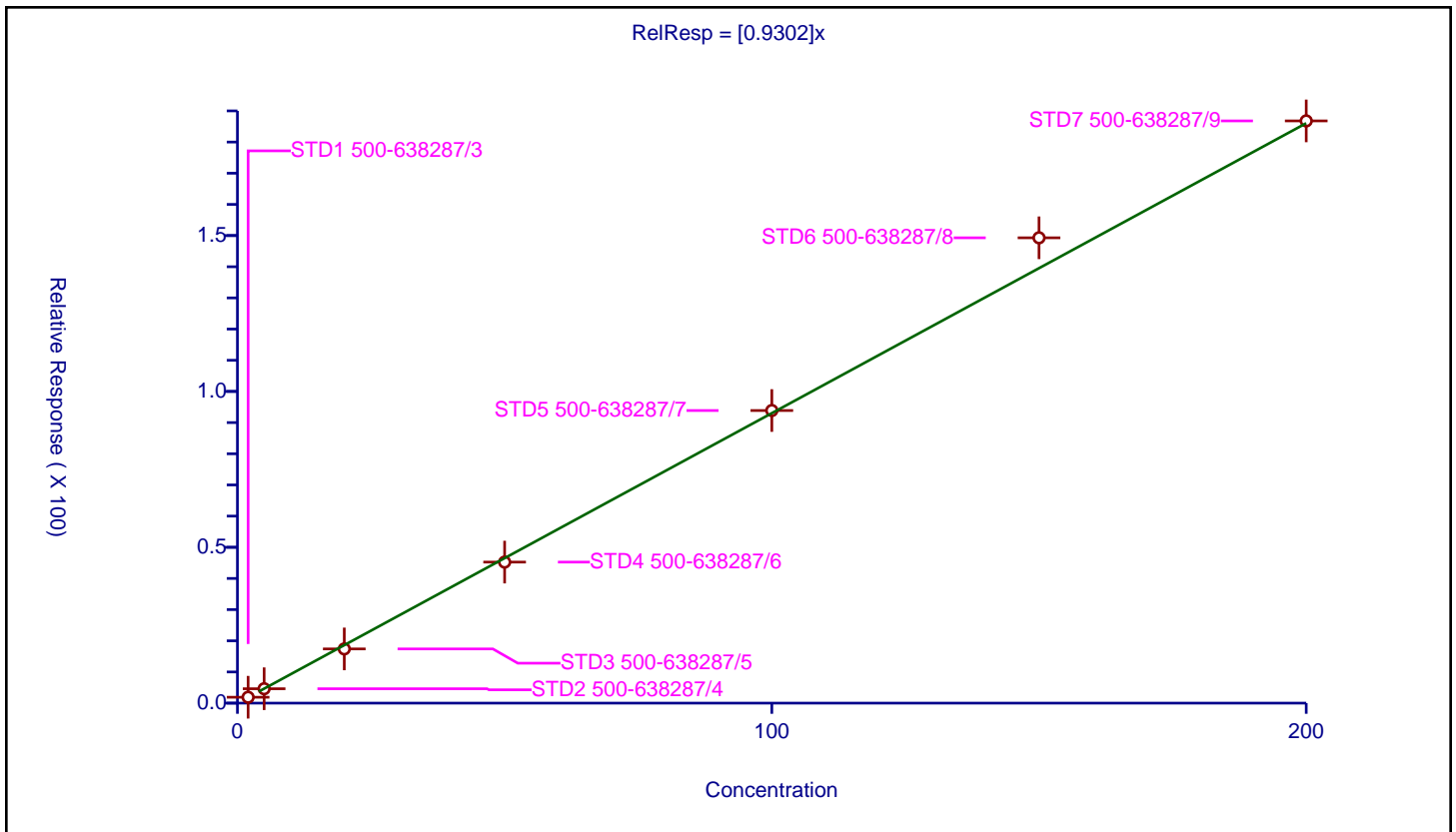
/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9302

Error Coefficients	
Standard Error:	701000
Relative Standard Error:	4.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.890833	53.43	306734.0	0.945416	Y
2	STD2 500-638287/4	5.0	4.618093	53.43	286628.0	0.923619	Y
3	STD3 500-638287/5	20.0	17.393315	53.43	287868.0	0.869666	Y
4	STD4 500-638287/6	50.0	45.246798	53.43	294305.0	0.904936	Y
5	STD5 500-638287/7	100.0	93.875339	53.43	327740.0	0.938753	Y
6	STD6 500-638287/8	150.0	149.282156	53.43	347829.0	0.995214	Y
7	STD7 500-638287/9	200.0	186.788677	53.43	362090.0	0.933943	Y



Calibration

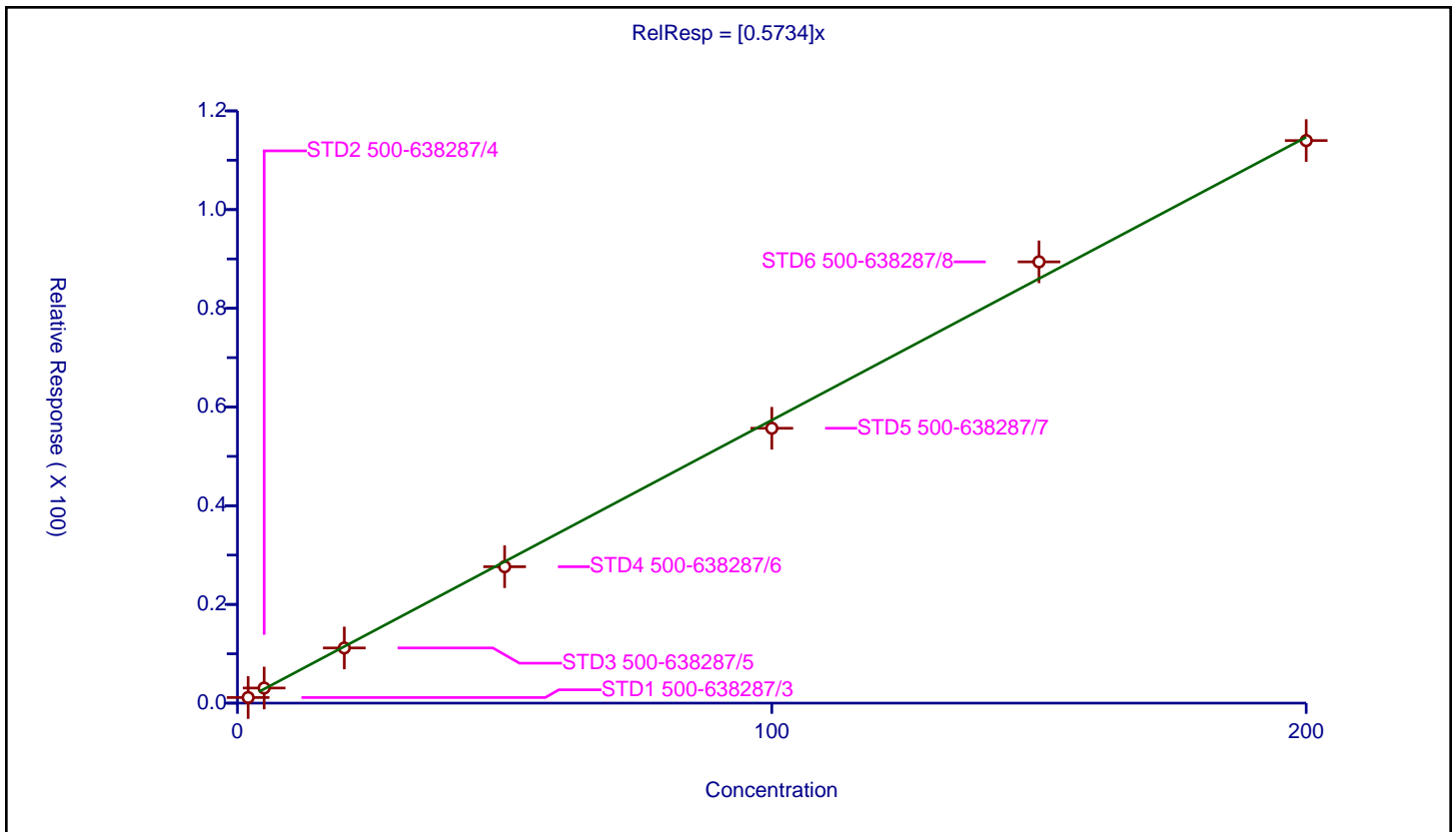
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5734

Error Coefficients	
Standard Error:	424000
Relative Standard Error:	3.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.133629	53.43	306734.0	0.566814	Y
2	STD2 500-638287/4	5.0	3.061393	53.43	286628.0	0.612279	Y
3	STD3 500-638287/5	20.0	11.177187	53.43	287868.0	0.558859	Y
4	STD4 500-638287/6	50.0	27.638254	53.43	294305.0	0.552765	Y
5	STD5 500-638287/7	100.0	55.694751	53.43	327740.0	0.556948	Y
6	STD6 500-638287/8	150.0	89.414056	53.43	347829.0	0.596094	Y
7	STD7 500-638287/9	200.0	113.985525	53.43	362090.0	0.569928	Y



Calibration

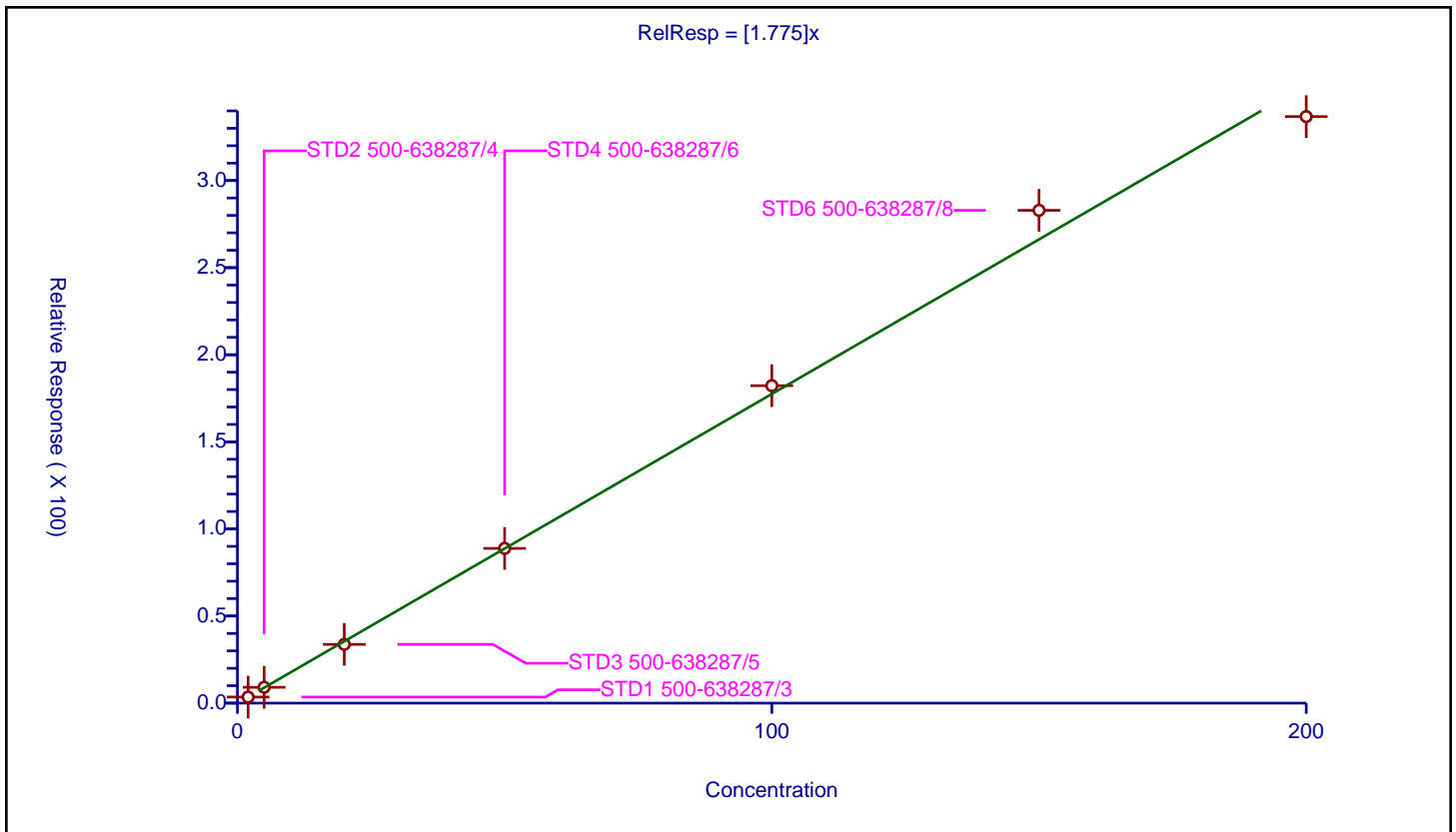
/ Naphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.775

Error Coefficients	
Standard Error:	1300000
Relative Standard Error:	4.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	3.497387	53.43	306734.0	1.748694	Y
2	STD2 500-638287/4	5.0	9.09638	53.43	286628.0	1.819276	Y
3	STD3 500-638287/5	20.0	33.737214	53.43	287868.0	1.686861	Y
4	STD4 500-638287/6	50.0	88.823188	53.43	294305.0	1.776464	Y
5	STD5 500-638287/7	100.0	182.236013	53.43	327740.0	1.82236	Y
6	STD6 500-638287/8	150.0	282.911304	53.43	347829.0	1.886075	Y
7	STD7 500-638287/9	200.0	336.73177	53.43	362090.0	1.683659	Y



Calibration

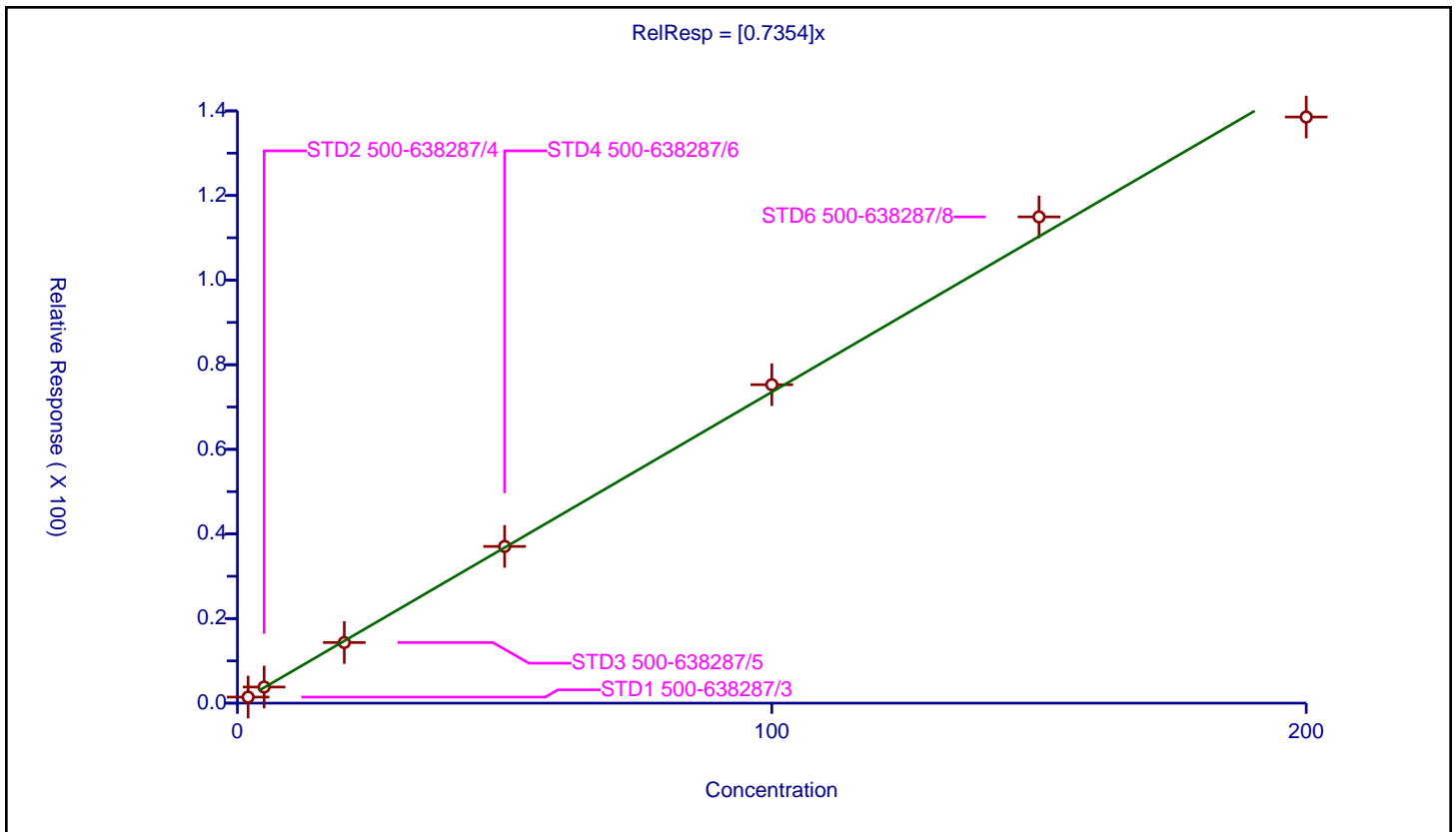
/ 1,2,3-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7354

Error Coefficients	
Standard Error:	533000
Relative Standard Error:	3.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 500-638287/3	2.0	1.435326	53.43	306734.0	0.717663	Y
2	STD2 500-638287/4	5.0	3.806655	53.43	286628.0	0.761331	Y
3	STD3 500-638287/5	20.0	14.325806	53.43	287868.0	0.71629	Y
4	STD4 500-638287/6	50.0	37.039814	53.43	294305.0	0.740796	Y
5	STD5 500-638287/7	100.0	75.276567	53.43	327740.0	0.752766	Y
6	STD6 500-638287/8	150.0	114.940652	53.43	347829.0	0.766271	Y
7	STD7 500-638287/9	200.0	138.553084	53.43	362090.0	0.692765	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1AP 500-638287/11	STD1AP0118.D
Level 2	STD2AP 500-638287/12	STD2AP0118.D
Level 3	STD3AP 500-638287/13	STD3AP0118.D
Level 4	STD4AP 500-638287/14	STD4AP0118.D
Level 5	STD5AP 500-638287/15	STD5AP0118.D
Level 6	STD6AP 500-638287/16	STD6AP0118.D
Level 7	STD7AP 500-638287/17	STD7AP0118.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Ethanol	++++ 0.1418	0.1097 0.1238	0.1022	0.1388	0.1280	Ave		0.124 0		0.0010	12.6		15.0				
Isopropyl alcohol	++++ 0.8359	0.7993 0.8168	0.7516	0.8123	0.7909	Ave		0.801 1		0.0010	3.6		15.0				
Acetonitrile	0.0235 0.0236	0.0265 0.0229	0.0247	0.0260	0.0257	Ave		0.024 7		0.0010	5.7		15.0				
Isopropyl ether	0.8988 0.9765	0.8680 0.9757	0.9246	0.9886	1.0085	Ave		0.948 7		0.0100	5.5		15.0				
2-Chloro-1,3-butadiene	0.4665 0.4725	0.3942 0.4893	0.4340	0.4526	0.4744	Ave		0.454 8		0.0100	7.0		15.0				
Tert-butyl ethyl ether	0.7178 0.8852	0.8022 0.8930	0.8644	0.9135	0.9334	Ave		0.858 5		0.0010	8.7		15.0				
Ethyl acetate	0.2726 0.1755	0.2295 0.1873	0.1961	0.1871	0.1932	Lin1	0.397 0	0.183 4		0.0100				0.9990		0.9900	
Propionitrile	0.0257 0.0249	0.0279 0.0258	0.0269	0.0276	0.0285	Ave		0.026 8		0.0010	5.0		15.0				
Methacrylonitrile	0.1190 0.1200	0.1252 0.1259	0.1234	0.1207	0.1277	Ave		0.123 1		0.0100	2.7		15.0				
Isooctane	1.1740 1.4792	1.1793 1.5092	1.3043	1.3579	1.4465	Ave		1.350 1		0.0100	10.2		15.0				
Tert-amyl methyl ether	0.7564 0.8024	0.6953 0.8048	0.7815	0.8283	0.8463	Ave		0.787 9		0.0100	6.4		15.0				
n-Butyl alcohol	++++ 0.3863	0.2930 0.3687	0.2964	0.3441	0.3418	Ave		0.338 4		0.0010	11.1		15.0				
Ethyl acrylate	0.1843 0.2430	0.2383 0.2558	0.2290	0.2483	0.2592	Ave		0.236 8		0.0010	10.7		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Methyl methacrylate	0.1807 0.1723	0.1673 0.1849	0.1743	0.1742	0.1850	Ave		0.177 0		0.0100	3.8		15.0				
2-Nitropropane	0.0703 0.0809	0.0816 0.0848	0.0877	0.0822	0.0869	Ave		0.082 1		0.0100	7.1		15.0				
n-Butyl acetate	0.3817 0.4369	0.4268 0.4461	0.4375	0.4469	0.4679	Ave		0.434 8		0.0010	6.1		15.0				
1-Chlorohexane	0.5745 0.3819	0.4425 0.3893	0.3883	0.3756	0.3758	Lin1	0.338 4	0.380 0		0.0100				1.0000		0.9900	
Cyclohexanone	0.0172 0.0155	0.0178 0.0153	0.0162	0.0156	0.0161	Ave		0.016 2		0.0100	5.6		15.0				
Pentachloroethane	0.4199 0.4566	0.3649 0.4908	0.3845	0.3641	0.4674	Ave		0.421 2		0.0100	12.3		15.0				
1,2,3-Trimethylbenzene	2.6981 3.2935	2.5541 3.4793	2.8203	2.9559	3.1854	Ave		2.998 1		0.0010	11.2		15.0				
Benzyl chloride	0.2782 0.2859	0.2548 0.3019	0.2738	0.2824	0.3015	Ave		0.282 6		0.0010	5.8		15.0				
1,3,5-Trichlorobenzene	1.1221 1.4042	1.0685 1.4475	1.1199	1.2120	1.3507	Ave		1.246 4		0.0100	12.3		15.0				
2-Methylnaphthalene	++++ 0.9657	0.4858 0.9914	0.5578	0.7418	0.9397	Lin1	-4.00 0	0.974 8		0.0100				0.9920		0.9900	
1-Methylnaphthalene	++++ 0.7225	0.4269 0.7416	0.4343	0.5850	0.7259	Lin1	-2.62 2	0.733 5		0.0100				0.9940		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1AP 500-638287/11	STD1AP0118.D
Level 2	STD2AP 500-638287/12	STD2AP0118.D
Level 3	STD3AP 500-638287/13	STD3AP0118.D
Level 4	STD4AP 500-638287/14	STD4AP0118.D
Level 5	STD5AP 500-638287/15	STD5AP0118.D
Level 6	STD6AP 500-638287/16	STD6AP0118.D
Level 7	STD7AP 500-638287/17	STD7AP0118.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Ethanol	TBAd 9	Ave	+++++	5236	18132	55335	111188	+++++	200	800	2000	4000
			148436	189178				6000	8000			
Isopropyl alcohol	TBAd 9	Ave	+++++	9536	33337	80980	171749	+++++	50.0	200	500	1000
			218753	312110				1500	2000			
Acetonitrile	FB	Ave	5335	15265	55568	145724	296100	20.0	50.0	200	500	1000
			406739	546069				1500	2000			
Isopropyl ether	FB	Ave	20411	49990	208141	553191	1161958	2.00	5.00	20.0	50.0	100
			1684820	2325277				150	200			
2-Chloro-1,3-butadiene	FB	Ave	10593	22701	97694	253282	546596	2.00	5.00	20.0	50.0	100
			815243	1166080				150	200			
Tert-butyl ethyl ether	FB	Ave	16301	46197	194584	511154	1075444	2.00	5.00	20.0	50.0	100
			1527345	2128059				150	200			
Ethyl acetate	FB	Lin1	12380	26436	88280	209361	445227	4.00	10.0	40.0	100	200
			605544	892510				300	400			
Propionitrile	FB	Ave	5829	16075	60582	154510	328540	20.0	50.0	200	500	1000
			429931	614959				1500	2000			
Methacrylonitrile	FB	Ave	27012	72120	277829	675106	1471853	20.0	50.0	200	500	1000
			2070133	2999324				1500	2000			
Isooctane	FB	Ave	26660	67914	293611	759799	1666682	2.00	5.00	20.0	50.0	100
			2552224	3596593				150	200			
Tert-amyl methyl ether	FB	Ave	17176	40043	175928	463469	975117	2.00	5.00	20.0	50.0	100
			1384485	1917825				150	200			
n-Butyl alcohol	TBAd 9	Ave	+++++	8739	32873	85772	185572	+++++	125	500	1250	2500
			252712	352221				3750	5000			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	4185 419339	13725 609524	51539	138921	298603	2.00 150	5.00 200	20.0	50.0	100
Methyl methacrylate	FB	Ave	8205 594465	19273 881347	78468	194932	426414	4.00 300	10.0 400	40.0	100	200
2-Nitropropane	CBNZ d5	Ave	2304 201600	6913 295448	28491	66395	146069	4.00 300	10.0 400	40.0	100	200
n-Butyl acetate	CBNZ d5	Ave	6256 544038	18089 776777	71034	180454	393231	2.00 150	5.00 200	20.0	50.0	100
1-Chlorohexane	CBNZ d5	Lin1	9415 475600	18752 677752	63054	151675	315827	2.00 150	5.00 200	20.0	50.0	100
Cyclohexanone	DCBd 4	Ave	17144 1147826	45328 1569703	160127	381860	821718	200 15000	500 20000	2000	5000	10000
Pentachloroethane	DCBd 4	Ave	4192 337537	9311 501964	37998	89050	239050	2.00 150	5.00 200	20.0	50.0	100
1,2,3-Trimethylbenzene	DCBd 4	Ave	26933 2434844	65169 3558247	278729	722916	1628992	2.00 150	5.00 200	20.0	50.0	100
Benzyl chloride	DCBd 4	Ave	2777 211358	6502 308784	27064	69053	154181	2.00 150	5.00 200	20.0	50.0	100
1,3,5-Trichlorobenzene	DCBd 4	Ave	11201 1038133	27264 1480337	110673	296404	690768	2.00 150	5.00 200	20.0	50.0	100
2-Methylnaphthalene	DCBd 4	Lin1	++++ 713925	12396 1013868	55130	181422	480584	++++ 150	5.00 200	20.0	50.0	100
1-Methylnaphthalene	DCBd 4	Lin1	++++ 534128	10893 758440	42924	143062	371233	++++ 150	5.00 200	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1AP 500-638287/11	STD1AP0118.D
Level 2	STD2AP 500-638287/12	STD2AP0118.D
Level 3	STD3AP 500-638287/13	STD3AP0118.D
Level 4	STD4AP 500-638287/14	STD4AP0118.D
Level 5	STD5AP 500-638287/15	STD5AP0118.D
Level 6	STD6AP 500-638287/16	STD6AP0118.D
Level 7	STD7AP 500-638287/17	STD7AP0118.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol	++++ -0.2	-11.5	-17.6	11.9	3.2	14.3	30	50	30	30	30	30
Isopropyl alcohol	++++ 2.0	-0.2	-6.2	1.4	-1.3	4.3	30	50	30	30	30	30
Acetonitrile	-4.9 -7.2	7.3	-0.1	5.4	4.0	-4.6	50 30	30	30	30	30	30
Isopropyl ether	-5.3 2.9	-8.5	-2.5	4.2	6.3	2.9	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	2.6 7.6	-13.3	-4.6	-0.5	4.3	3.9	50 30	30	30	30	30	30
Tert-butyl ethyl ether	-16.4 4.0	-6.6	0.7	6.4	8.7	3.1	50 30	30	30	30	30	30
Ethyl acetate	-5.5 1.5	3.5	1.5	-0.2	4.2	-5.1	50 30	30	30	30	30	30
Propionitrile	-4.1 -3.6	4.3	0.6	3.2	6.5	-6.9	50 30	30	30	30	30	30
Methacrylonitrile	-3.4 2.2	1.7	0.2	-2.0	3.8	-2.6	50 30	30	30	30	30	30
Isooctane	-13.0 11.8	-12.6	-3.4	0.6	7.1	9.6	50 30	30	30	30	30	30
Tert-amyl methyl ether	-4.0 2.1	-11.7	-0.8	5.1	7.4	1.8	50 30	30	30	30	30	30
n-Butyl alcohol	++++ 9.0	-13.4	-12.4	1.7	1.0	14.1	30	50	30	30	30	30
Ethyl acrylate	-22.2 8.0	0.6	-3.3	4.8	9.4	2.6	50 30	30	30	30	30	30
Methyl methacrylate	2.1 4.5	-5.4	-1.5	-1.6	4.6	-2.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 638287

SDG No.: _____

Instrument ID: CMS16 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/18/2022 15:24 Calibration End Date: 01/18/2022 17:58 Calibration ID: 43276

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
2-Nitropropane	-14.3 3.4	-0.6	6.9	0.2	5.9	-1.4	50 30	30	30	30	30	30
n-Butyl acetate	-12.2 2.6	-1.8	0.6	2.8	7.6	0.5	50 30	30	30	30	30	30
1-Chlorohexane	6.7 2.0	-1.4	-2.3	-2.9	-2.0	-0.1	50 30	30	30	30	30	30
Cyclohexanone	5.7 -5.5	9.4	-0.2	-3.9	-1.1	-4.4	50 30	30	30	30	30	30
Pentachloroethane	-0.3 16.5	-13.4	-8.7	-13.5	11.0	8.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-10.0 16.1	-14.8	-5.9	-1.4	6.2	9.9	50 30	30	30	30	30	30
Benzyl chloride	-1.6 6.8	-9.8	-3.1	-0.1	6.7	1.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.0 16.1	-14.3	-10.2	-2.8	8.4	12.7	50 30	30	30	30	30	30
2-Methylnaphthalene	++++ 3.8	31.9	-22.3	-15.7	0.5	1.8	30	50	30	30	30	30
1-Methylnaphthalene	++++ 2.9	29.7	-22.9	-13.1	2.5	0.9	30	50	30	30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
 Lims ID: STD1AP
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Jan-2022 15:24:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1AP
 Misc. Info.: 500-0083302-011
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:09 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 18:58:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
19 Acetonitrile	41	3.304	3.284	0.020	81	5335	20.0	19.0	M
* 23 TBA-d9 (IS)	65	3.466	3.460	0.006	96	223683	1068.6	1068.6	
32 Isopropyl ether	45	4.135	4.135	0.000	88	20411	2.00	1.89	
31 2-Chloro-1,3-butadiene	53	4.155	4.157	-0.002	89	10593	2.00	2.05	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	92	16301	2.00	1.67	
38 Ethyl acetate	43	4.699	4.696	0.003	95	12380	4.00	3.78	a
37 Propionitrile	54	4.705	4.699	0.006	68	5829	20.0	19.2	a
40 Methacrylonitrile	41	4.858	4.852	0.006	91	27012	20.0	19.3	
52 Isooctane	57	5.581	5.578	0.003	96	26660	2.00	1.74	M
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	89	17176	2.00	1.92	a
* 55 Fluorobenzene (IS)	96	5.788	5.785	0.003	98	606651	53.4	53.4	
58 Ethyl acrylate	55	6.281	6.287	-0.006	75	4185	2.00	1.56	Ma
* 62 1,4-Dioxane-d8	96	6.500	6.502	-0.002	78	15346	1068.6	1068.6	a
64 Methyl methacrylate	41	6.539	6.536	0.003	85	8205	4.00	4.08	
67 2-Nitropropane	43	6.976	6.982	-0.006	70	2304	4.00	3.43	M
79 n-Butyl acetate	43	8.587	8.578	0.009	80	6256	2.00	1.76	M
* 82 Chlorobenzene-d5	117	9.327	9.330	-0.003	87	437814	53.4	53.4	
83 1-Chlorohexane	55	9.335	9.338	-0.003	34	9415	2.00	2.13	Ma
92 Cyclohexanone	55	10.651	10.648	0.003	94	17144	200.0	211.5	
105 Pentachloroethane	167	11.490	11.490	0.000	74	4192	2.00	1.99	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	266679	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	89	26933	2.00	1.80	
113 Benzyl chloride	126	11.984	11.981	0.003	75	2777	2.00	1.97	
117 1,3,5-Trichlorobenzene	180	12.993	12.993	0.000	92	11201	2.00	1.80	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWAPIX_00027	Amount Added: 2.00	Units: uL	
LOWCYCHXWK_00206	Amount Added: 2.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D

Injection Date: 18-Jan-2022 15:24:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD1AP

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

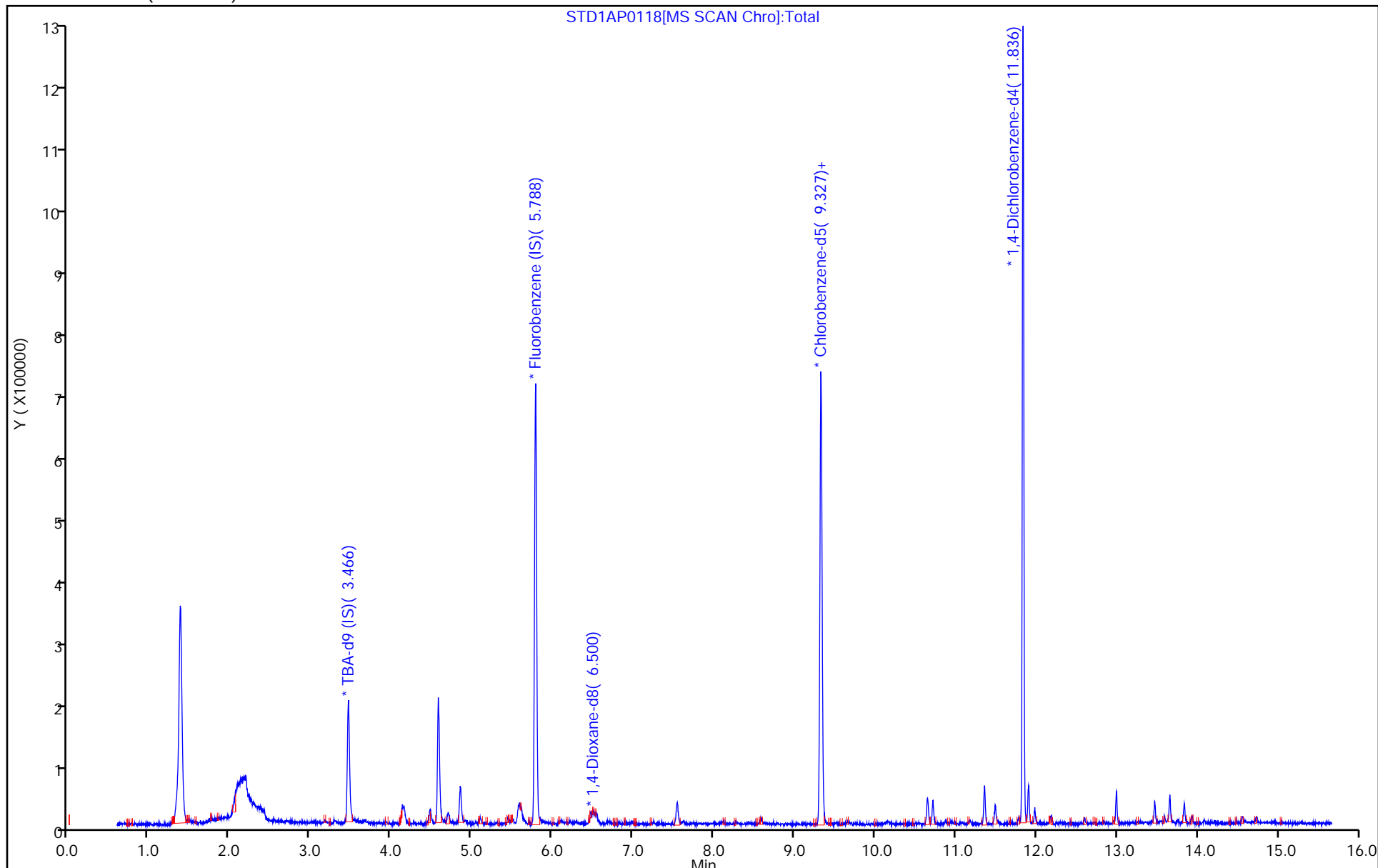
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

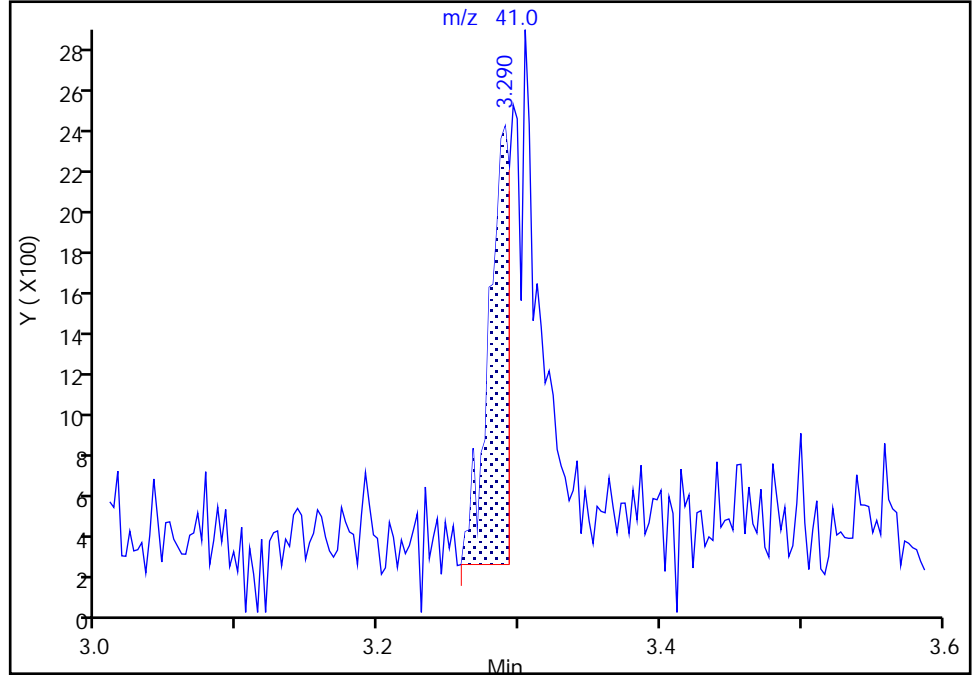
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Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

19 Acetonitrile, CAS: 75-05-8

Signal: 1

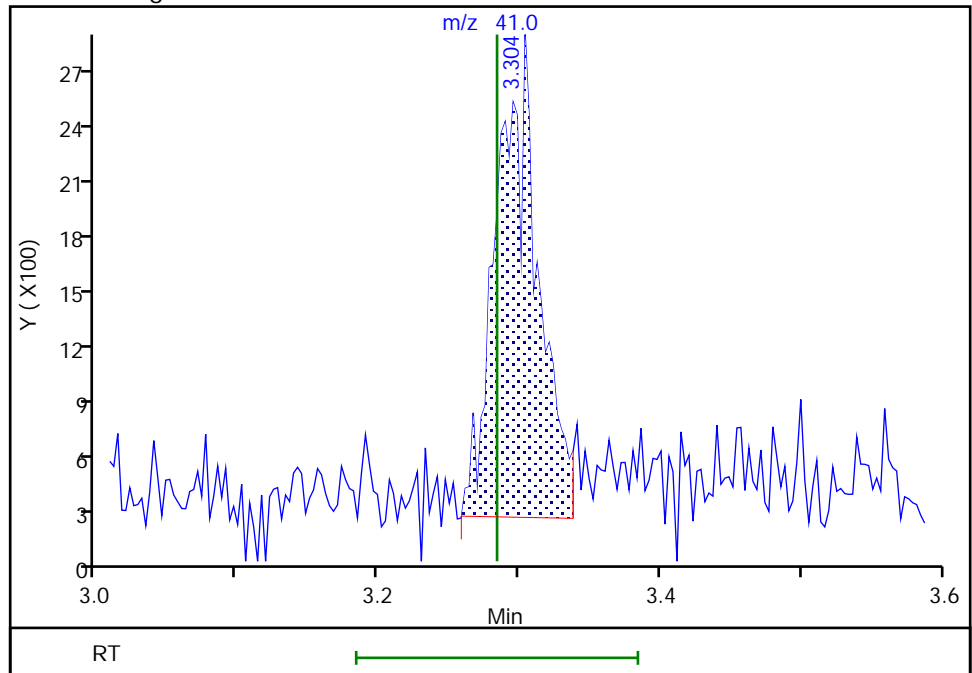
RT: 3.29
Area: 2146
Amount: 13.143252
Amount Units: UG/L

Processing Integration Results



RT: 3.30
Area: 5335
Amount: 19.021709
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:57:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

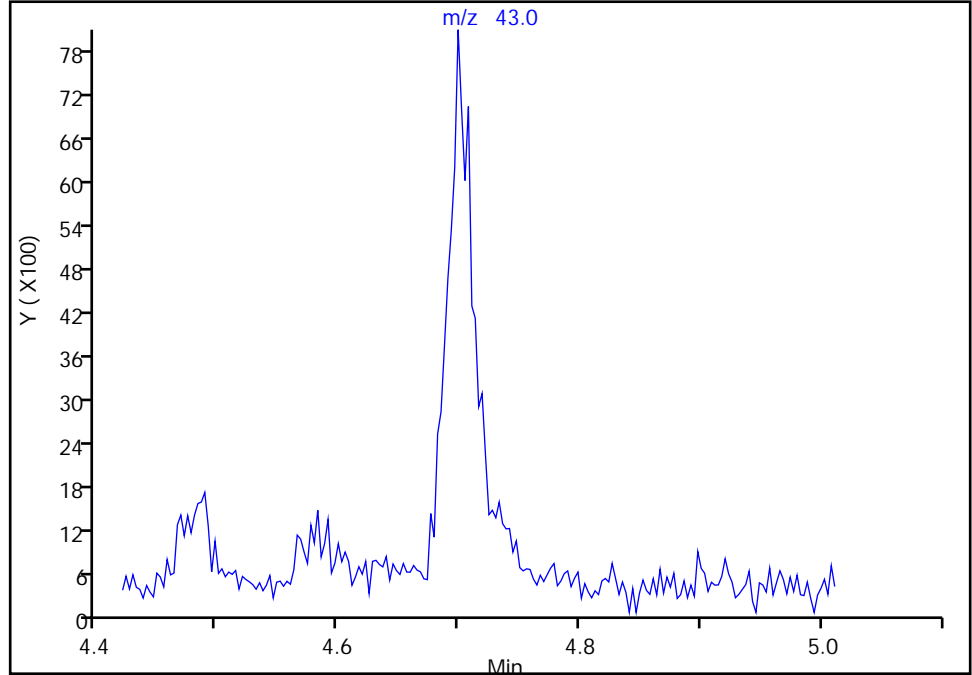
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

38 Ethyl acetate, CAS: 141-78-6

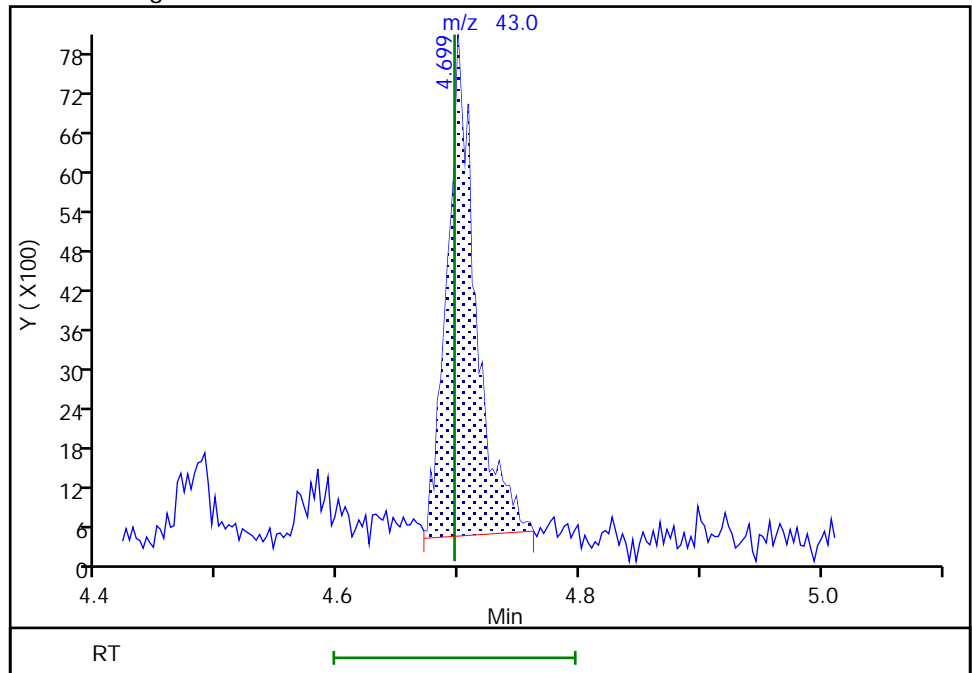
Signal: 1

Not Detected
Expected RT: 4.70

Processing Integration Results



Manual Integration Results



RT: 4.70
Area: 12380
Amount: 3.779885
Amount Units: UG/L

Reviewer: ficarello, 18-Jan-2022 18:57:35
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

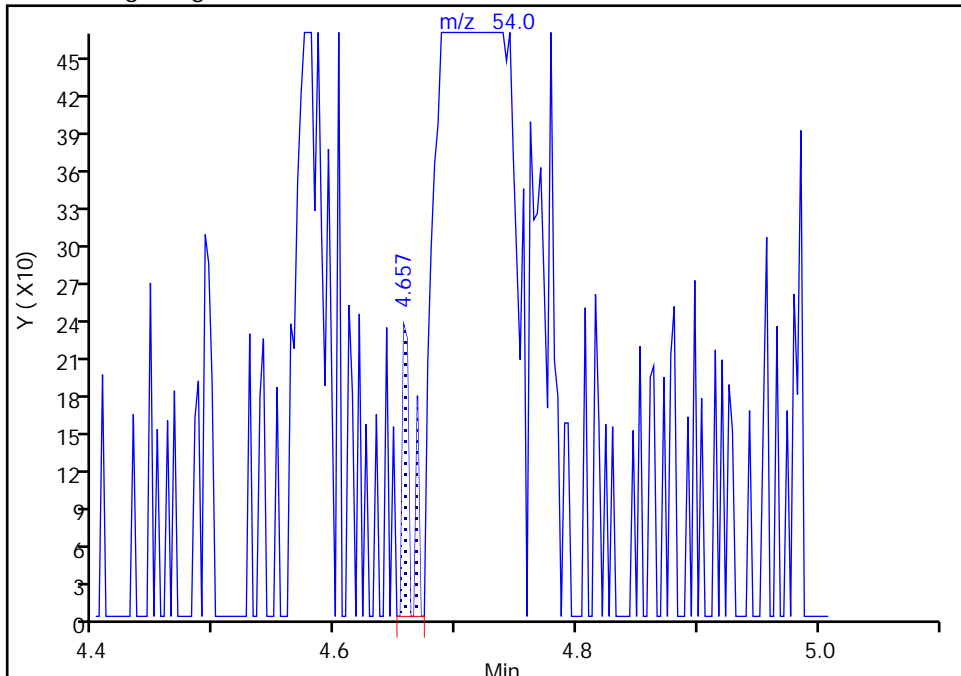
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

37 Propionitrile, CAS: 107-12-0

Signal: 1

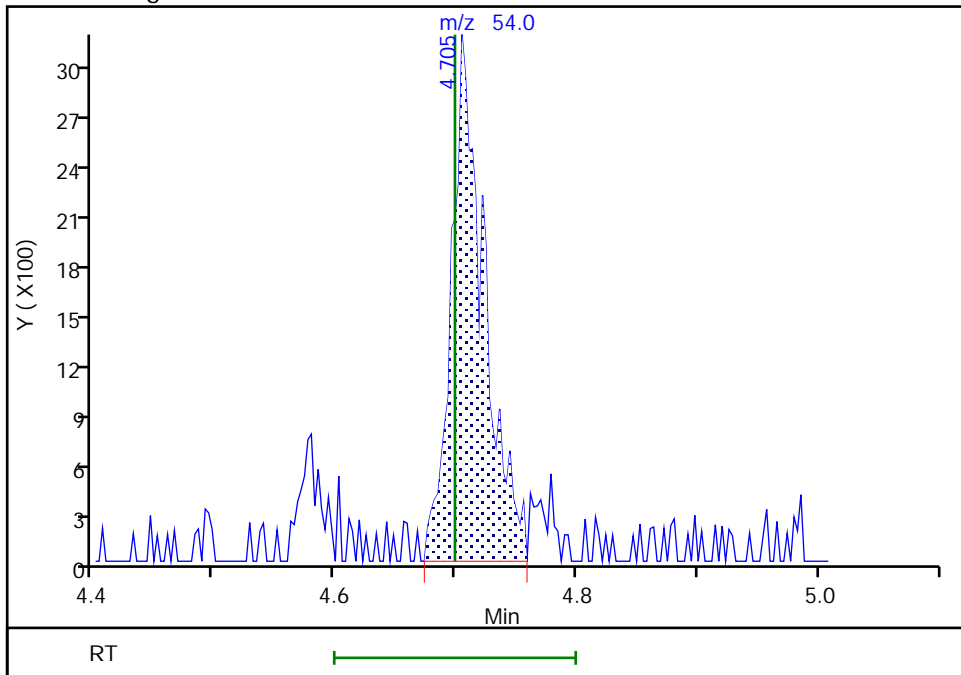
RT: 4.66
Area: 108
Amount: 25.378486
Amount Units: UG/L

Processing Integration Results



RT: 4.70
Area: 5829
Amount: 19.182266
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:57:40
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

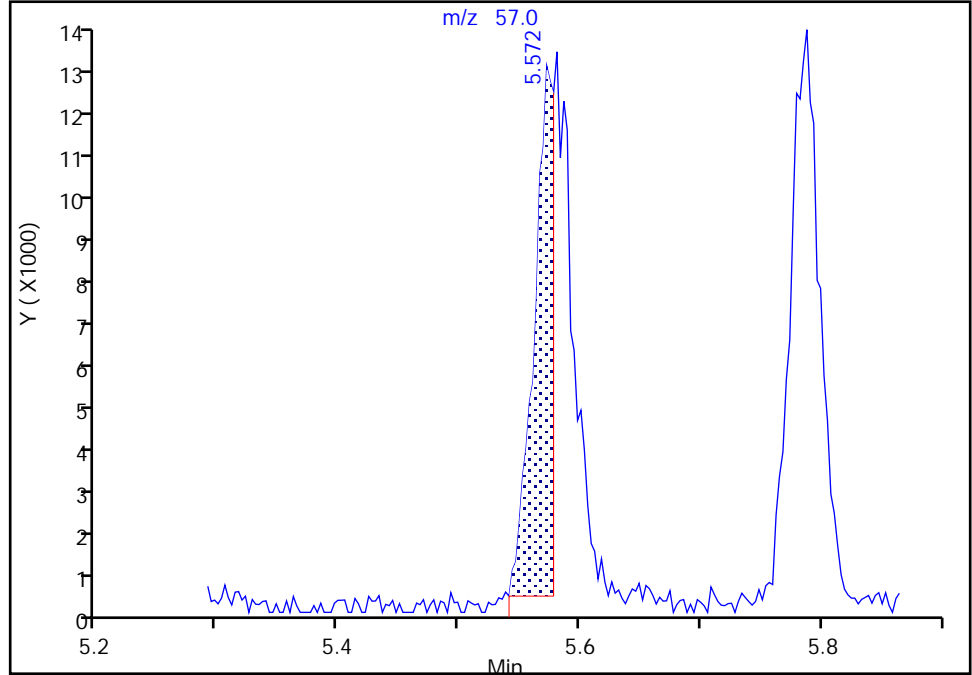
ALS Bottle#: 10 Worklist Smp#: 11
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

52 Isooctane, CAS: 540-84-1

Signal: 1

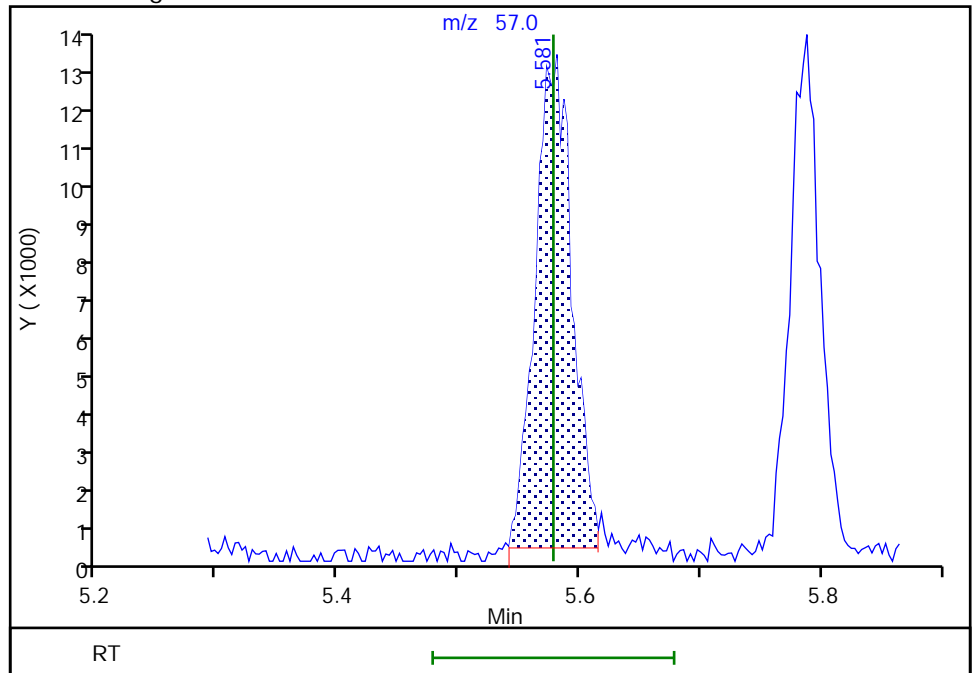
RT: 5.57
Area: 13962
Amount: 2.593953
Amount Units: UG/L

Processing Integration Results



RT: 5.58
Area: 26660
Amount: 1.739228
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

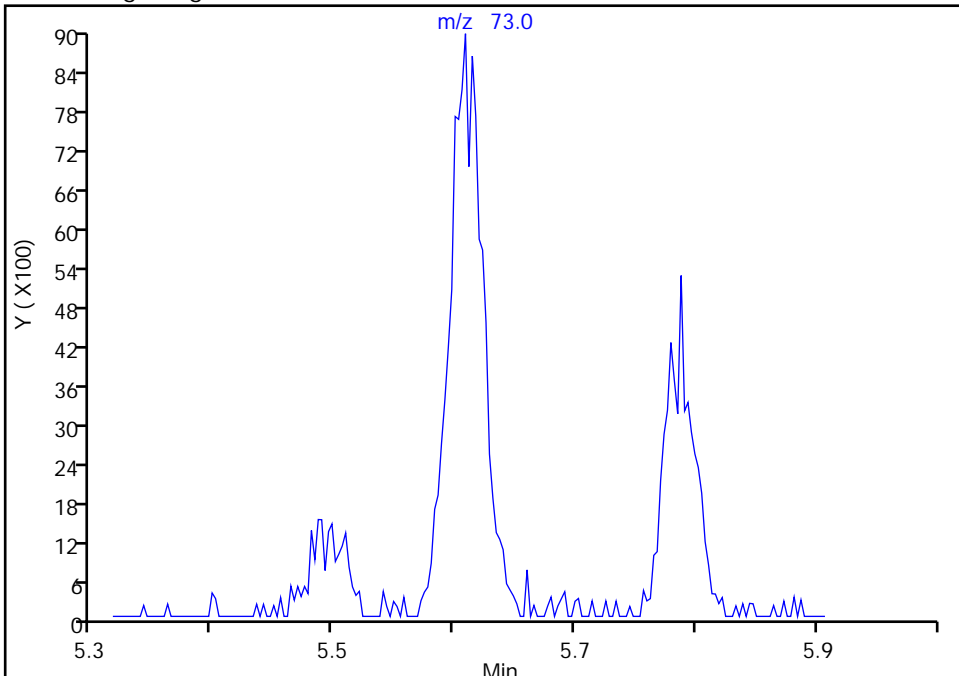
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

53 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

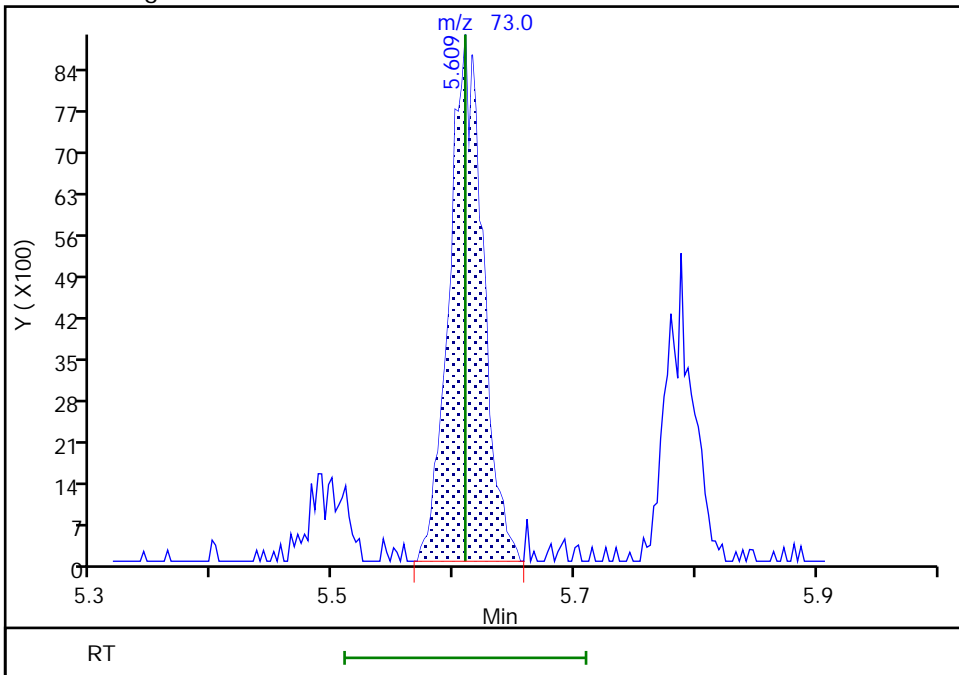
Not Detected
Expected RT: 5.61

Processing Integration Results



Manual Integration Results

RT: 5.61
Area: 17176
Amount: 1.920103
Amount Units: UG/L



Reviewer: ficarello, 18-Jan-2022 18:57:54
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

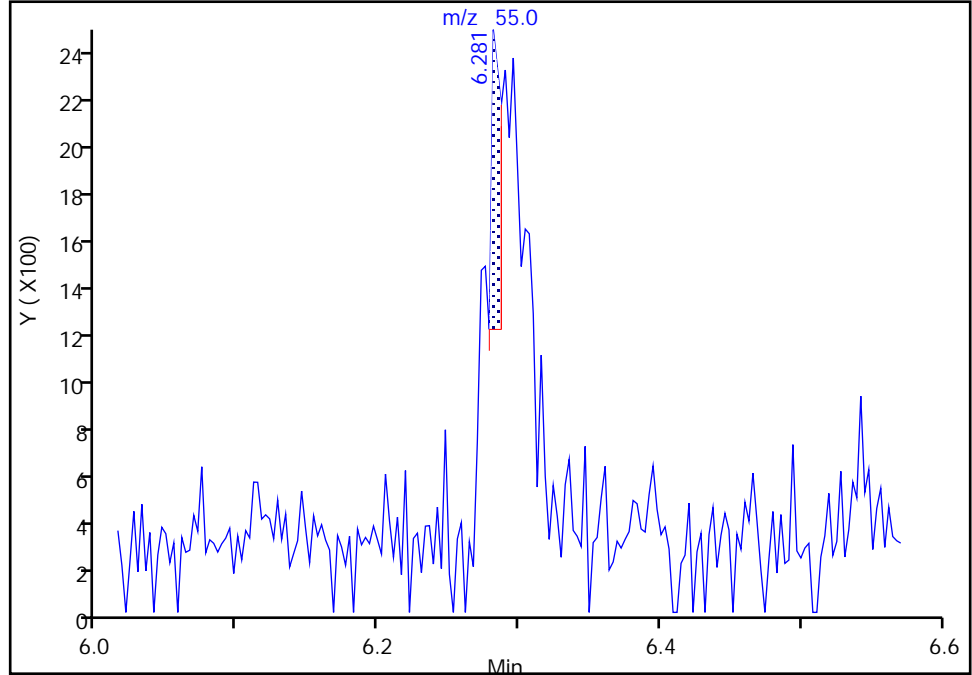
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

58 Ethyl acrylate, CAS: 140-88-5

Signal: 1

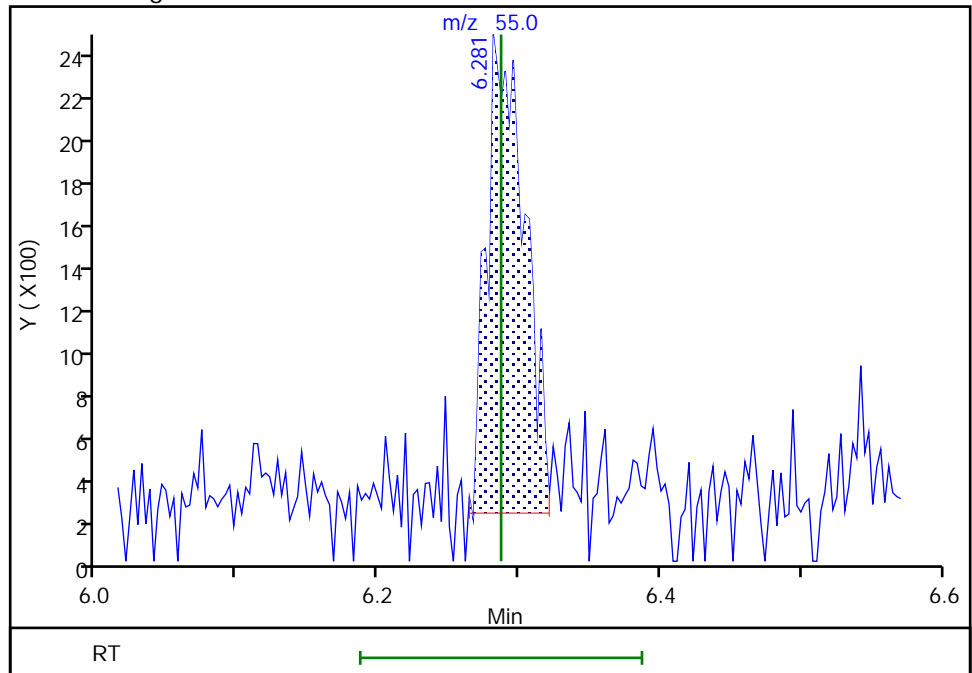
RT: 6.28
Area: 569
Amount: 0.342671
Amount Units: UG/L

Processing Integration Results



RT: 6.28
Area: 4185
Amount: 1.556352
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:59:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

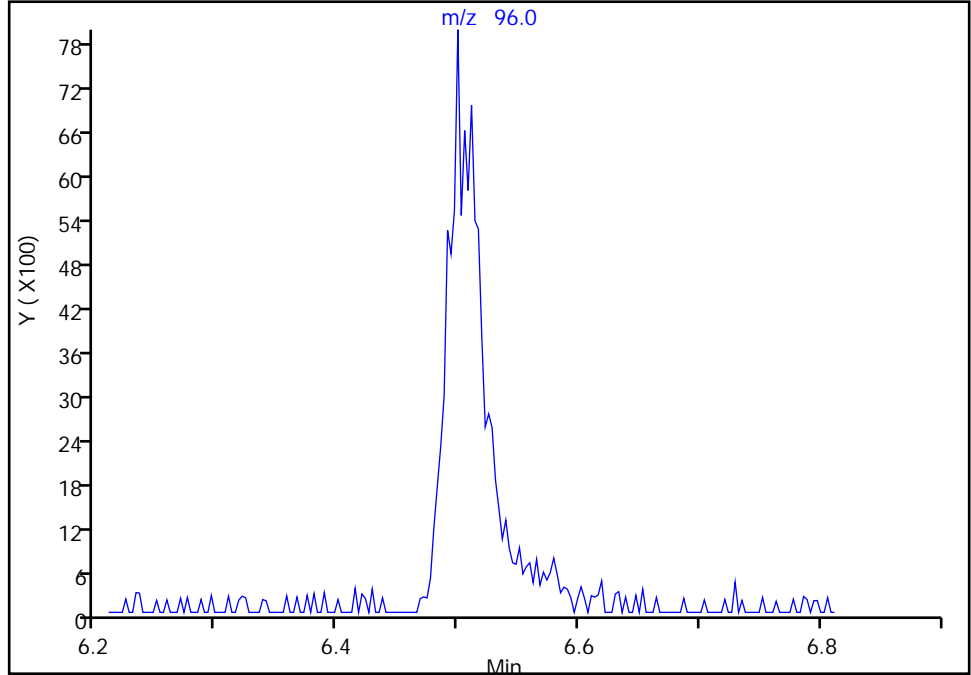
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

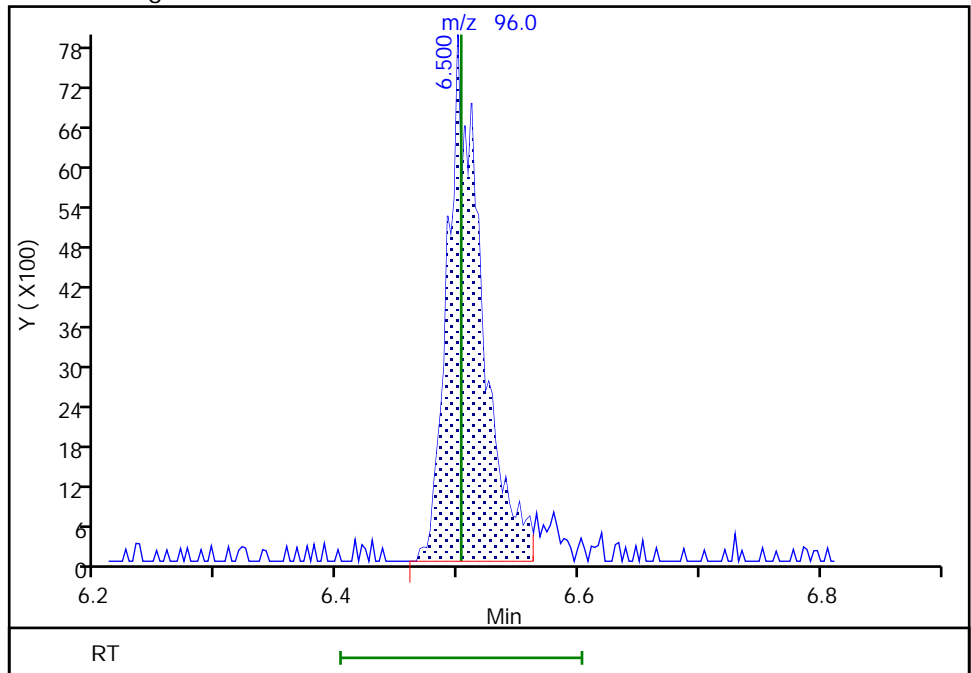
* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

Not Detected
Expected RT: 6.50

Processing Integration Results



Manual Integration Results



RT: 6.50
Area: 15346
Amount: 1068.6000
Amount Units: UG/L

Eurofins Chicago

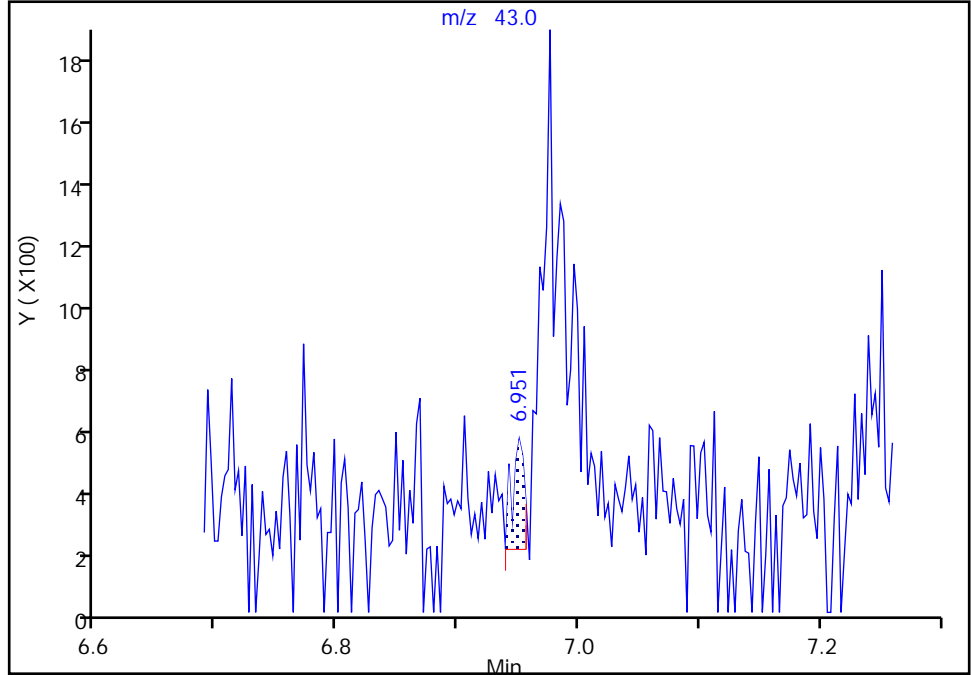
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

67 2-Nitropropane, CAS: 79-46-9

Signal: 1

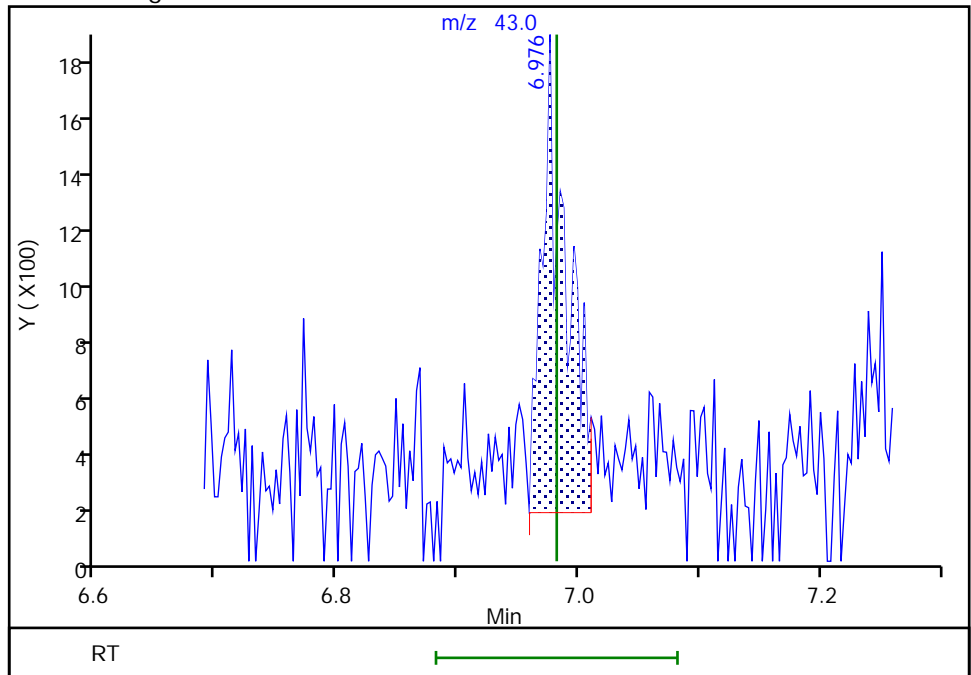
RT: 6.95
Area: 236
Amount: 2.835707
Amount Units: UG/L

Processing Integration Results



RT: 6.98
Area: 2304
Amount: 3.426033
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:59:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

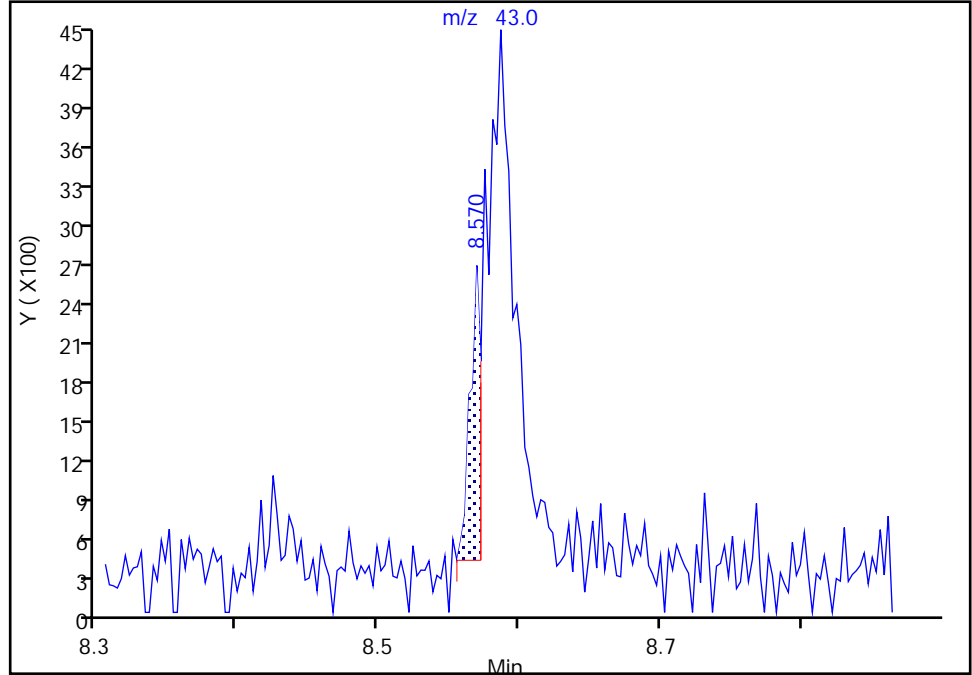
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

79 n-Butyl acetate, CAS: 123-86-4

Signal: 1

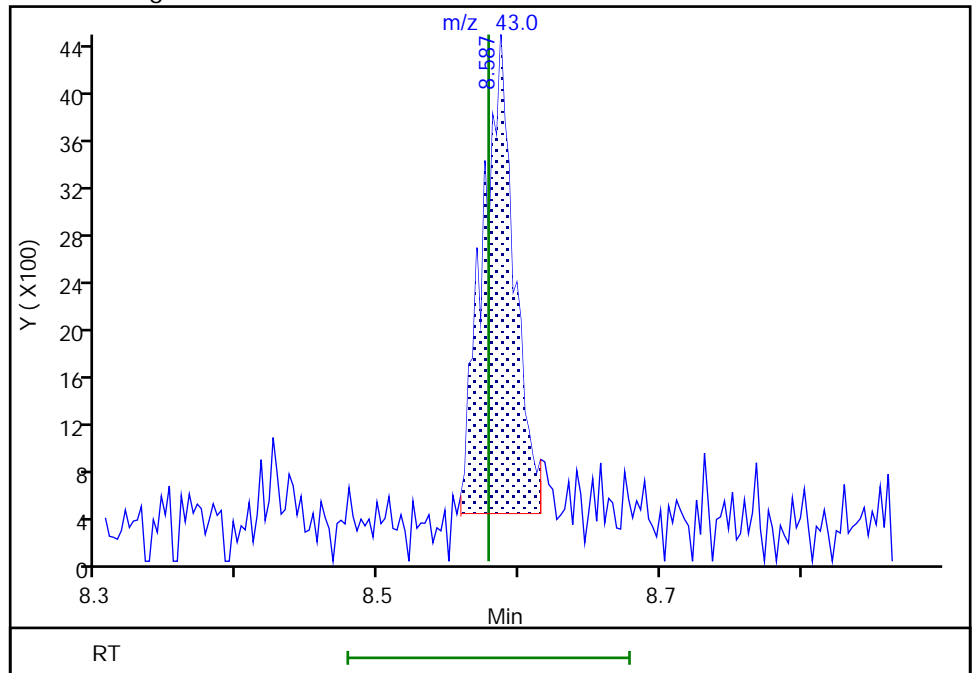
RT: 8.57
Area: 1156
Amount: 1.535871
Amount Units: UG/L

Processing Integration Results



RT: 8.59
Area: 6256
Amount: 1.755771
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:59:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

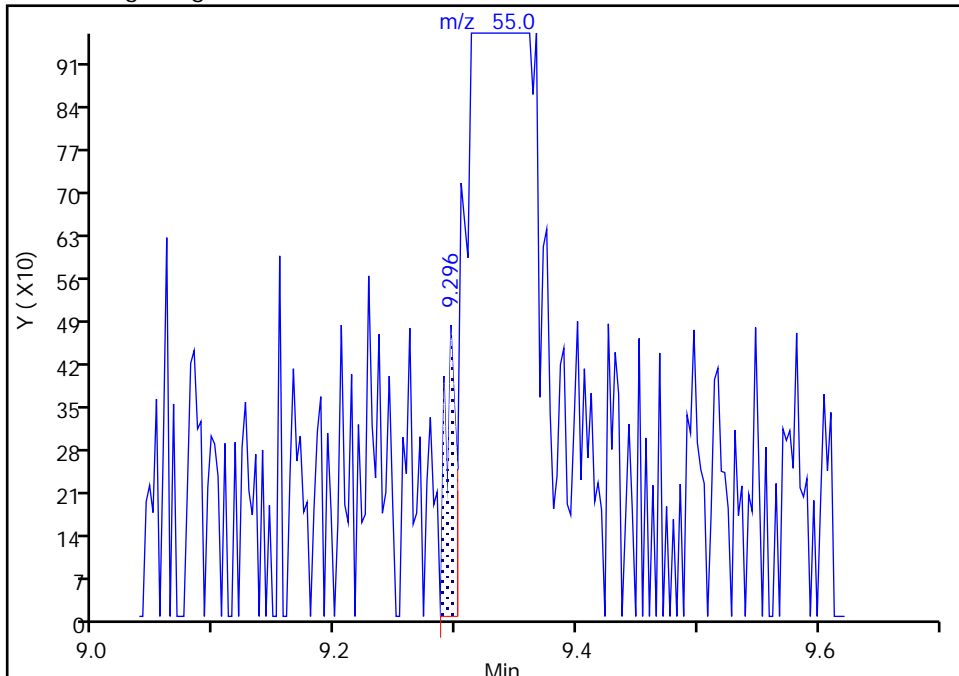
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

83 1-Chlorohexane, CAS: 544-10-5

Signal: 1

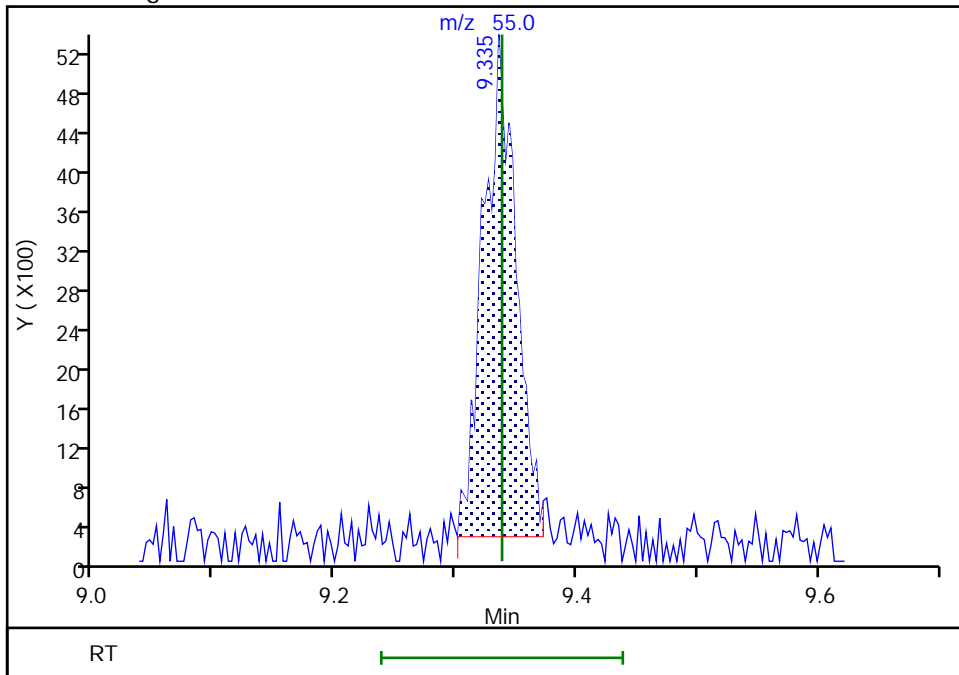
RT: 9.30
Area: 283
Amount: 0.125090
Amount Units: UG/L

Processing Integration Results



RT: 9.34
Area: 9415
Amount: 2.133088
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 18:59:47
Audit Action: Manually Integrated

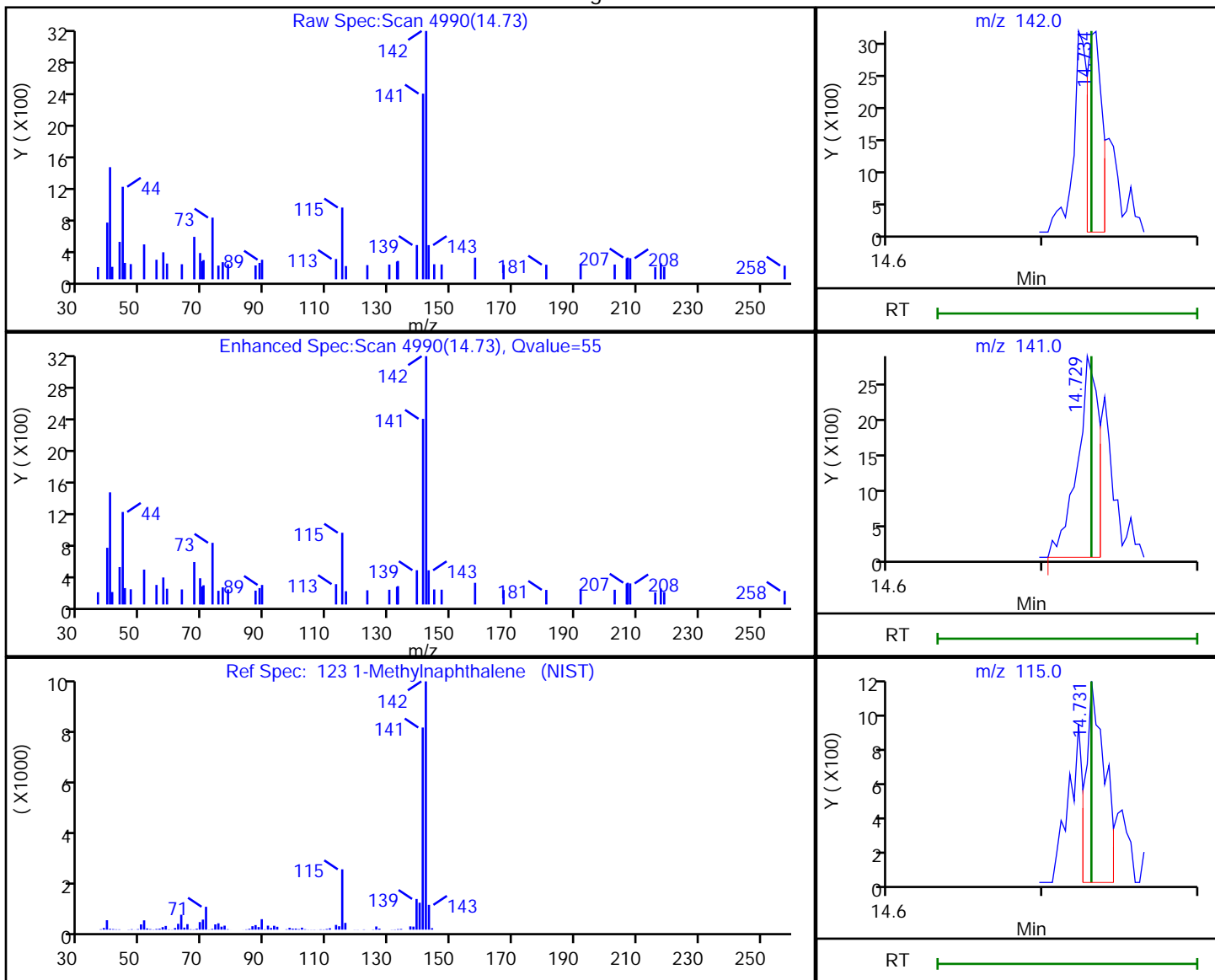
Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
 Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
 Lims ID: STD1AP
 Client ID:
 Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

123 1-Methylnaphthalene, CAS: 90-12-0

Processing Results



RT	Mass	Response	Amount
14.73	142.00	2106	2.694906
14.73	141.00	2709	
14.73	115.00	975	

Reviewer: ficarellp, 18-Jan-2022 19:04:13
 Audit Action: Marked Compound Undetected

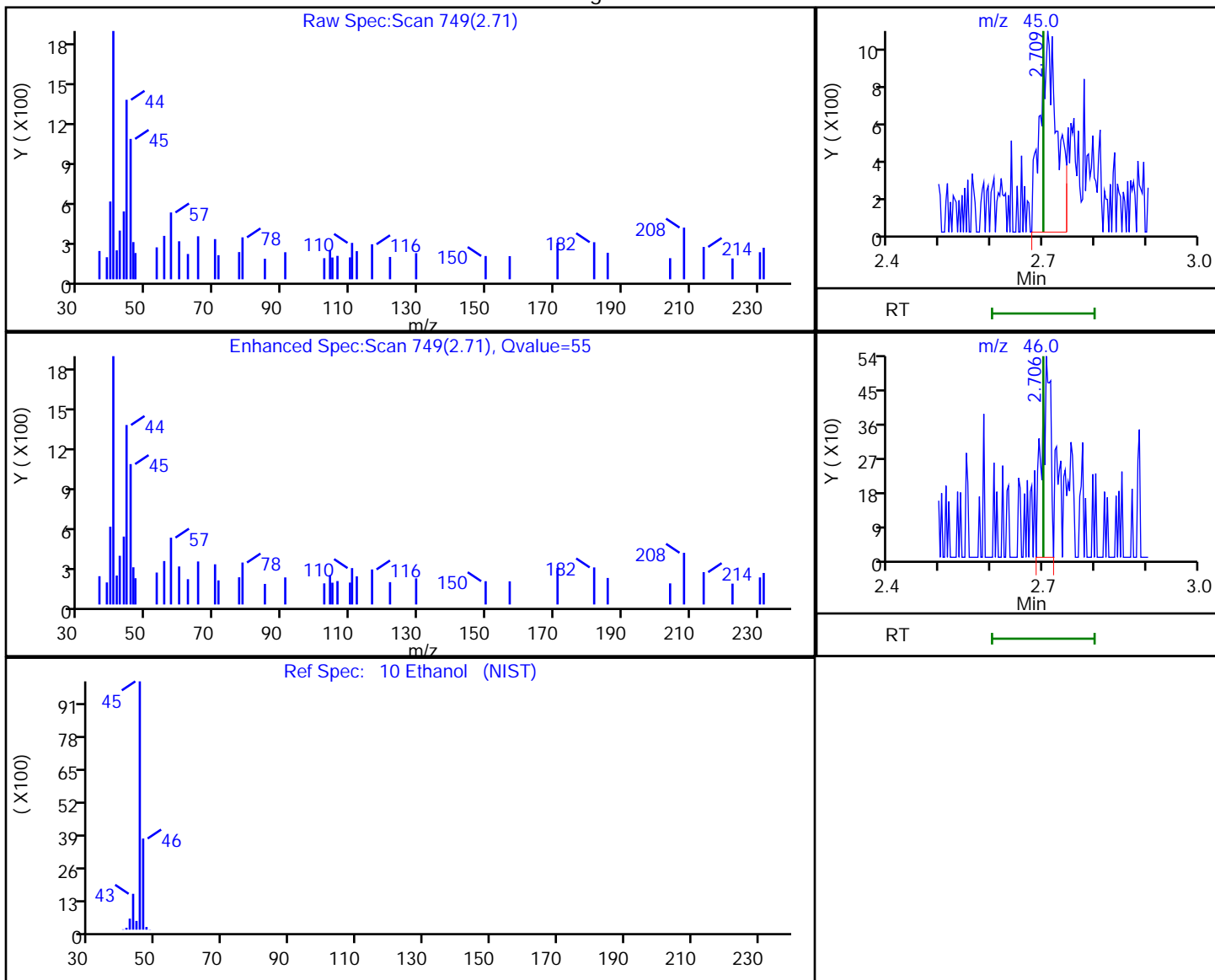
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
Lims ID: STD1AP
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
2.71	45.00	2425	91.214157
2.71	46.00	649	

Reviewer: ficarello, 18-Jan-2022 18:57:07

Audit Action: Marked Compound Undetected

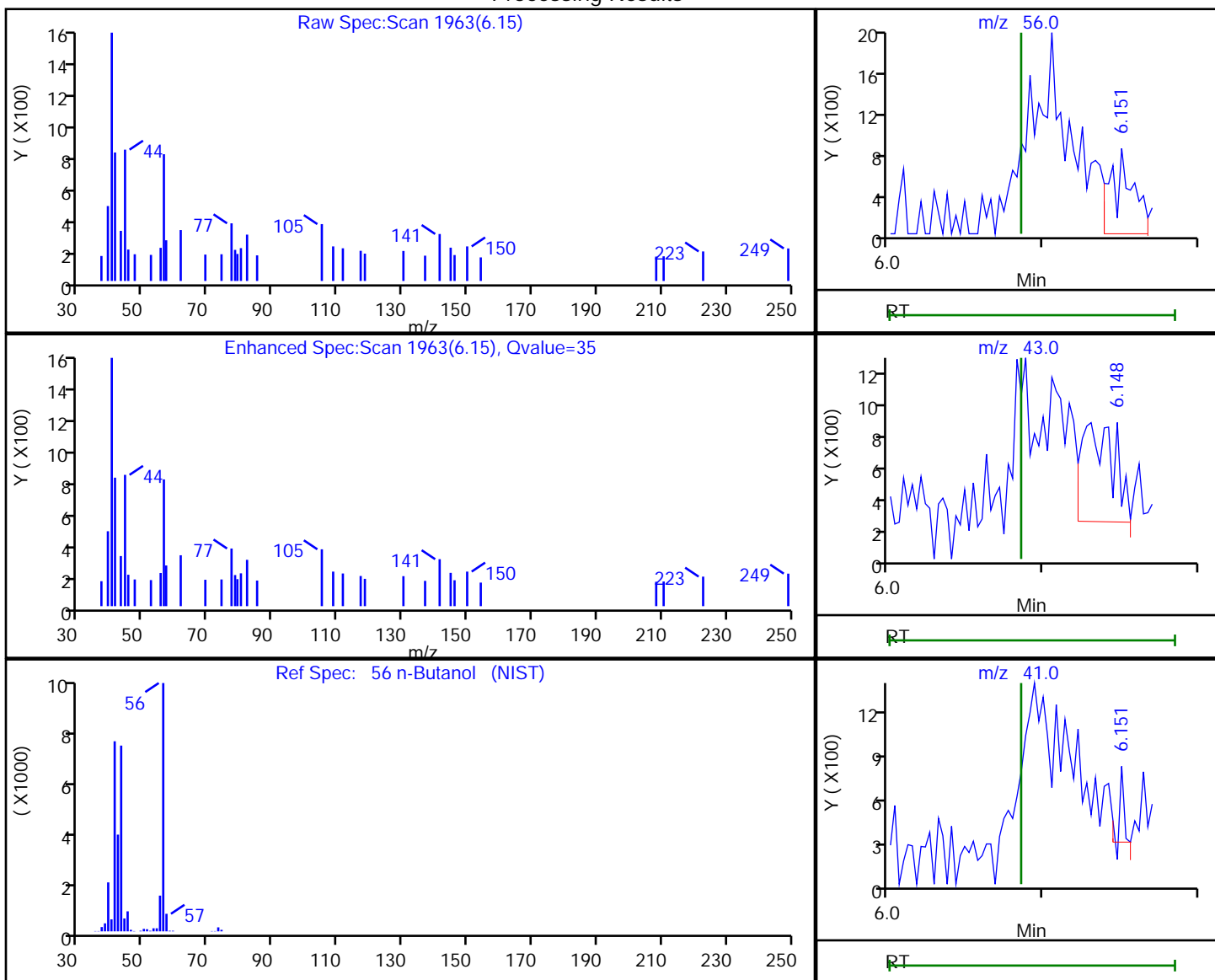
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD1AP0118.D
 Injection Date: 18-Jan-2022 15:24:30 Instrument ID: CMS16
 Lims ID: STD1AP
 Client ID:
 Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Column: DB624 (0.20 mm) Detector: MS SCAN

56 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
6.15	56.00	797	51.457022
6.15	43.00	876	
6.15	41.00	99	

Reviewer: ficarellp, 18-Jan-2022 18:58:42
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D
 Lims ID: STD2AP
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Jan-2022 15:50:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD2AP
 Misc. Info.: 500-0083302-012
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:12 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarellop

Date: 18-Jan-2022 19:01:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.709	2.700	0.009	91	5236	200.0	176.9	
18 Isopropyl alcohol	45	3.174	3.171	0.003	91	9536	50.0	49.9	
19 Acetonitrile	41	3.293	3.284	0.009	91	15265	50.0	53.7	
* 23 TBA-d9 (IS)	65	3.463	3.460	0.003	96	254972	1068.6	1068.6	
32 Isopropyl ether	45	4.132	4.135	-0.003	95	49990	5.00	4.58	
31 2-Chloro-1,3-butadiene	53	4.160	4.157	0.003	94	22701	5.00	4.33	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	97	46197	5.00	4.67	
38 Ethyl acetate	43	4.696	4.696	0.000	96	26436	10.0	10.3	
37 Propionitrile	54	4.702	4.699	0.003	78	16075	50.0	52.1	a
40 Methacrylonitrile	41	4.849	4.852	-0.003	91	72120	50.0	50.9	
52 Isooctane	57	5.575	5.578	-0.003	98	67914	5.00	4.37	M
53 Tert-amyl methyl ether	73	5.612	5.609	0.003	93	40043	5.00	4.41	
* 55 Fluorobenzene (IS)	96	5.785	5.785	0.000	98	615397	53.4	53.4	
56 n-Butanol	56	6.091	6.086	0.005	80	8739	125.0	108.2	
58 Ethyl acrylate	55	6.284	6.287	-0.003	94	13725	5.00	5.03	M
* 62 1,4-Dioxane-d8	96	6.505	6.502	0.003	76	16893	1068.6	1068.6	
64 Methyl methacrylate	41	6.537	6.536	0.001	86	19273	10.0	9.46	
67 2-Nitropropane	43	6.987	6.982	0.005	84	6913	10.0	9.94	
79 n-Butyl acetate	43	8.584	8.578	0.006	92	18089	5.00	4.91	
* 82 Chlorobenzene-d5	117	9.327	9.330	-0.003	84	452860	53.4	53.4	
83 1-Chlorohexane	55	9.332	9.338	-0.006	35	18752	5.00	4.93	Ma
92 Cyclohexanone	55	10.648	10.648	0.000	96	45328	500.0	546.9	
105 Pentachloroethane	167	11.490	11.490	0.000	85	9311	5.00	4.33	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	272657	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	90	65169	5.00	4.26	
113 Benzyl chloride	126	11.981	11.981	0.000	97	6502	5.00	4.51	
117 1,3,5-Trichlorobenzene	180	12.993	12.993	0.000	90	27264	5.00	4.29	
122 2-Methylnaphthalene	142	14.561	14.561	0.000	82	12396	5.00	6.59	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	87	10893	5.00	6.48	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWAPIX_00027	Amount Added: 5.00	Units: uL	
LOWCYCHXWK_00206	Amount Added: 5.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D

Injection Date: 18-Jan-2022 15:50:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD2AP

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

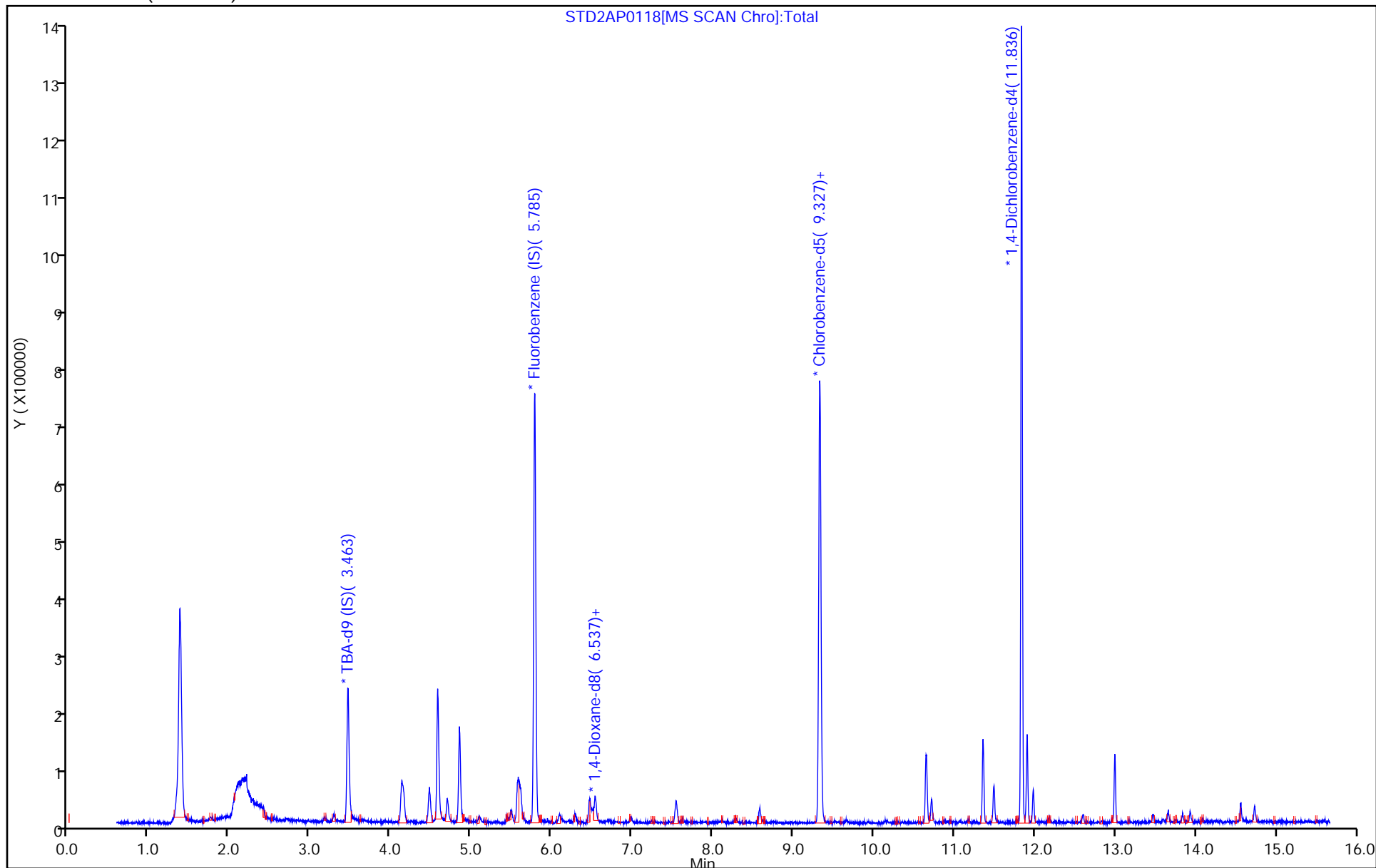
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

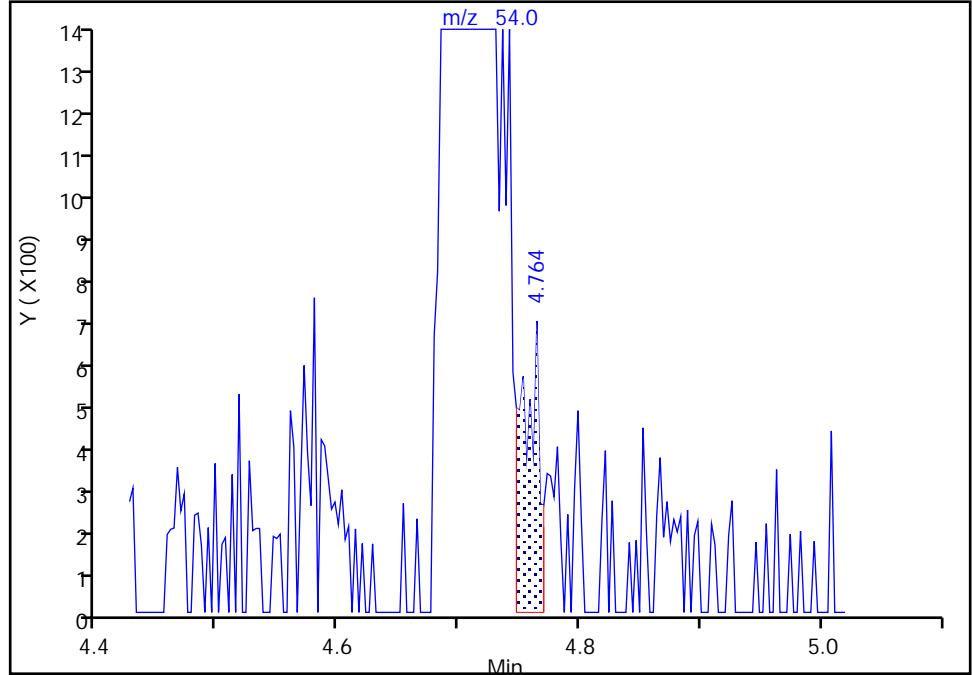
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D
Injection Date: 18-Jan-2022 15:50:30 Instrument ID: CMS16
Lims ID: STD2AP
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

37 Propionitrile, CAS: 107-12-0

Signal: 1

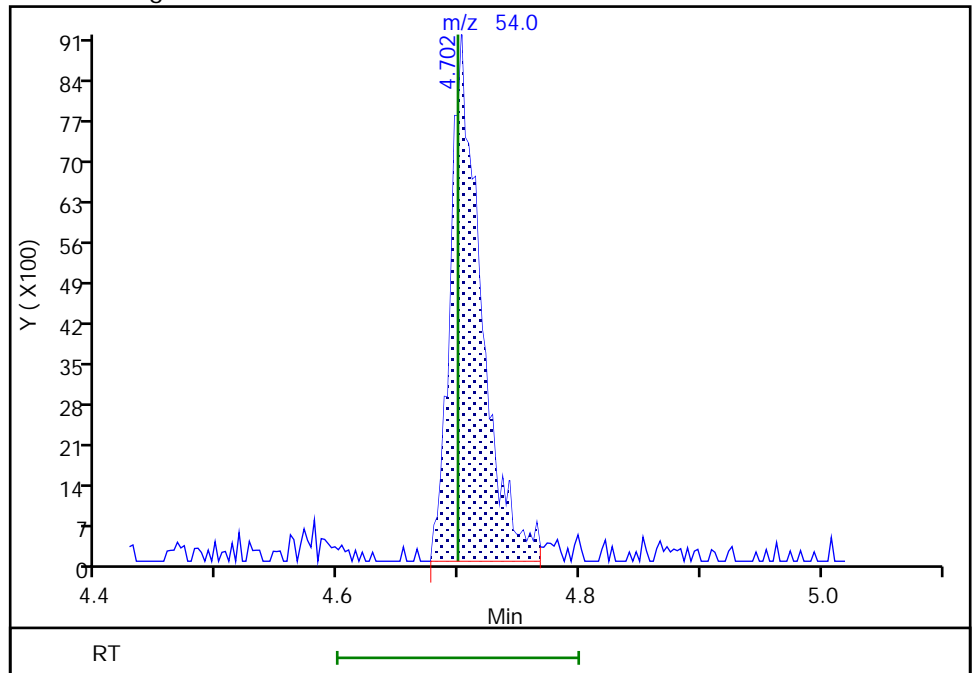
RT: 4.76
Area: 638
Amount: 2.415298
Amount Units: UG/L

Processing Integration Results



RT: 4.70
Area: 16075
Amount: 52.148326
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:01:12
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

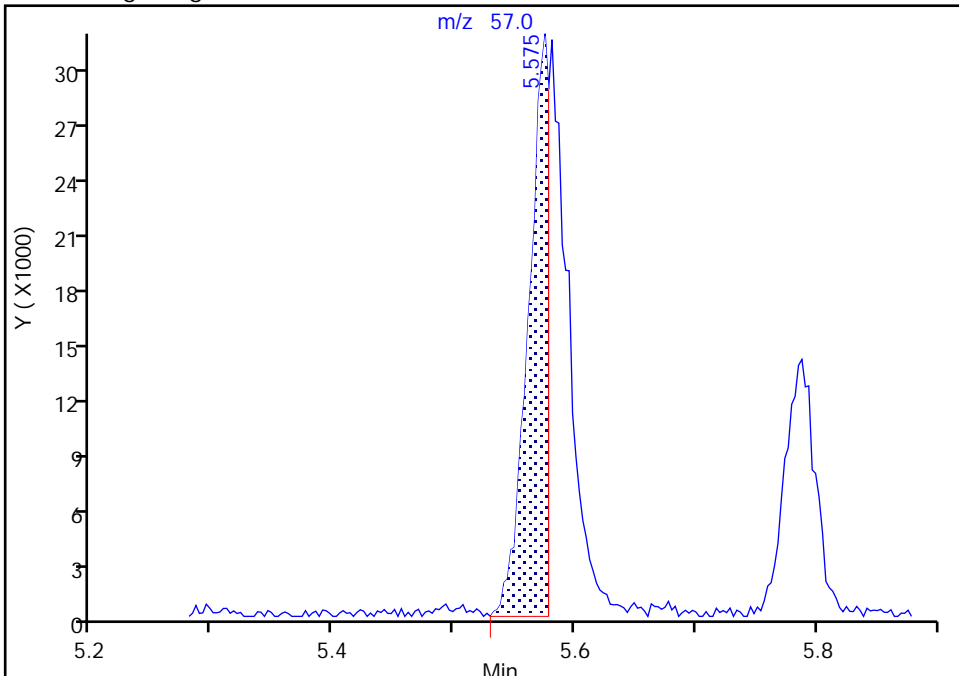
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D
Injection Date: 18-Jan-2022 15:50:30 Instrument ID: CMS16
Lims ID: STD2AP
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

52 Isooctane, CAS: 540-84-1

Signal: 1

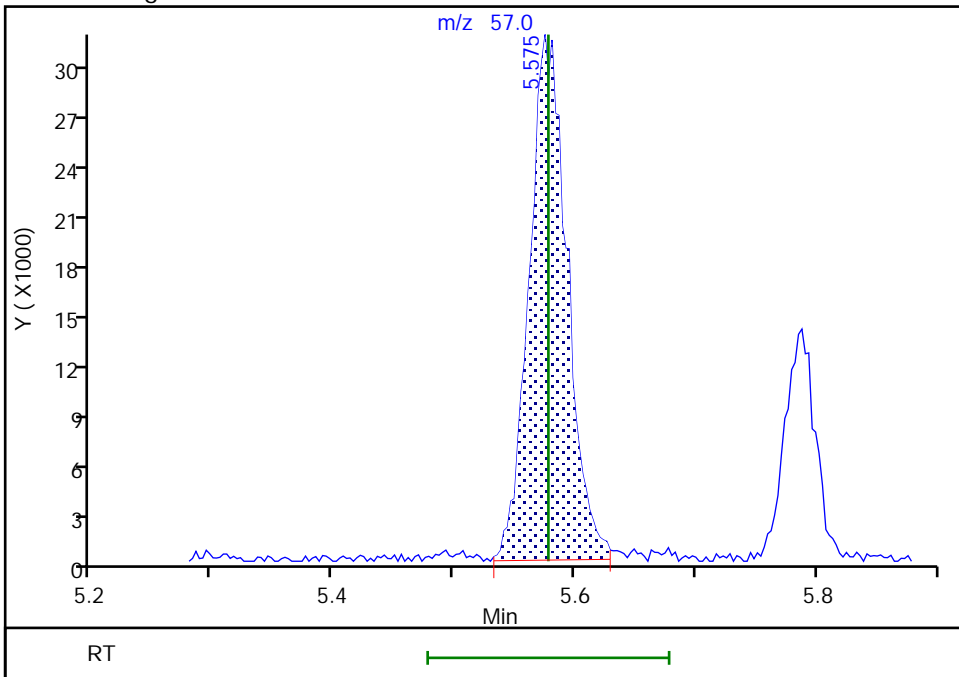
RT: 5.58
Area: 36359
Amount: 3.926231
Amount Units: UG/L

Processing Integration Results



RT: 5.58
Area: 67914
Amount: 4.367564
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:01:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

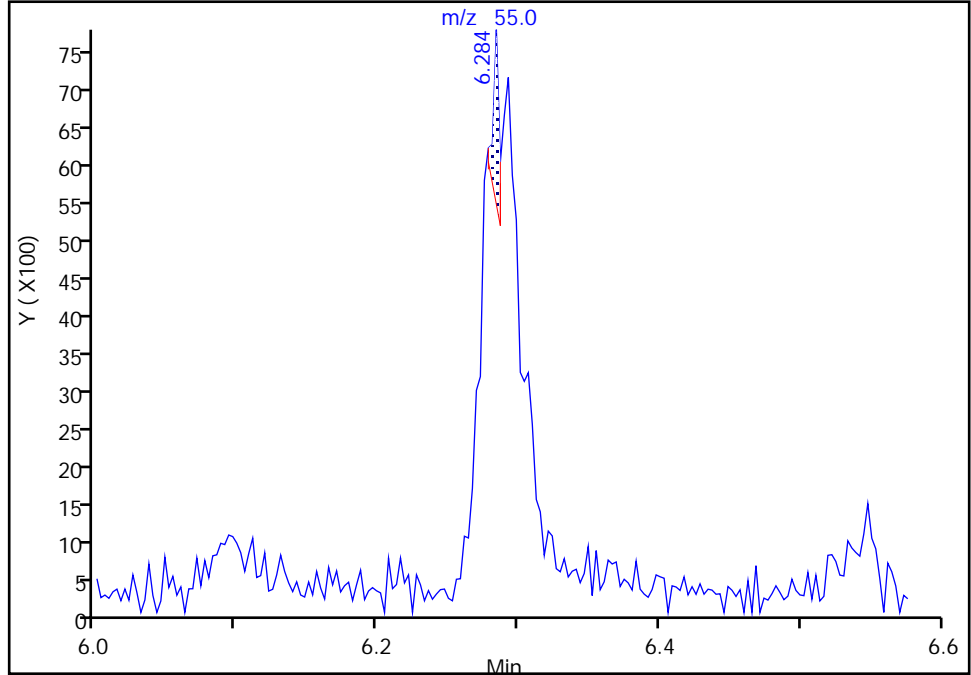
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D
Injection Date: 18-Jan-2022 15:50:30 Instrument ID: CMS16
Lims ID: STD2AP
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

58 Ethyl acrylate, CAS: 140-88-5

Signal: 1

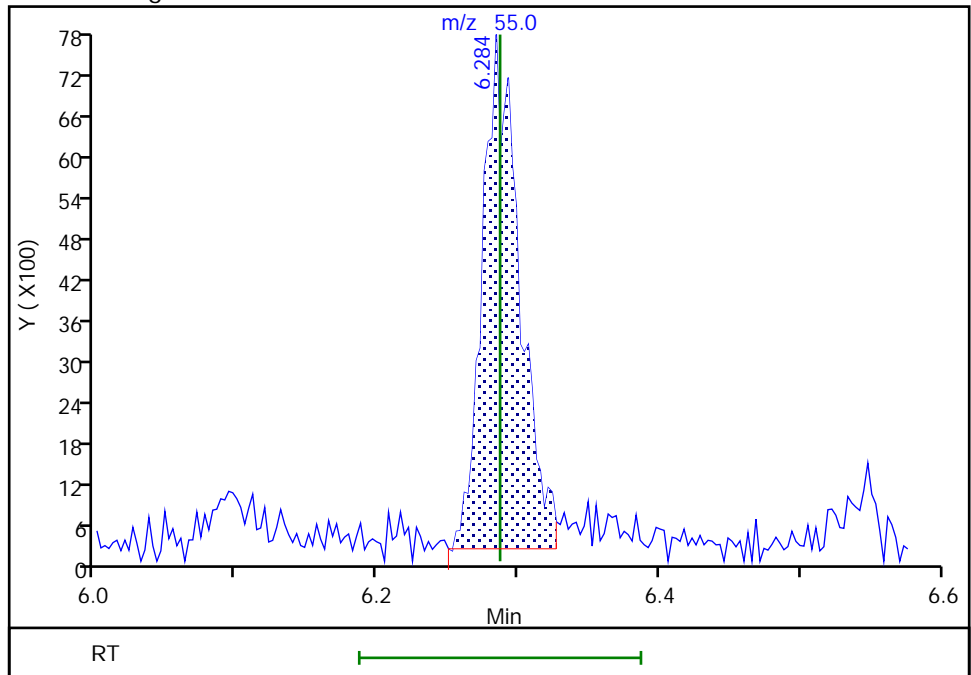
RT: 6.28
Area: 660
Amount: 0.339082
Amount Units: UG/L

Processing Integration Results



RT: 6.28
Area: 13725
Amount: 5.031626
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:00:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

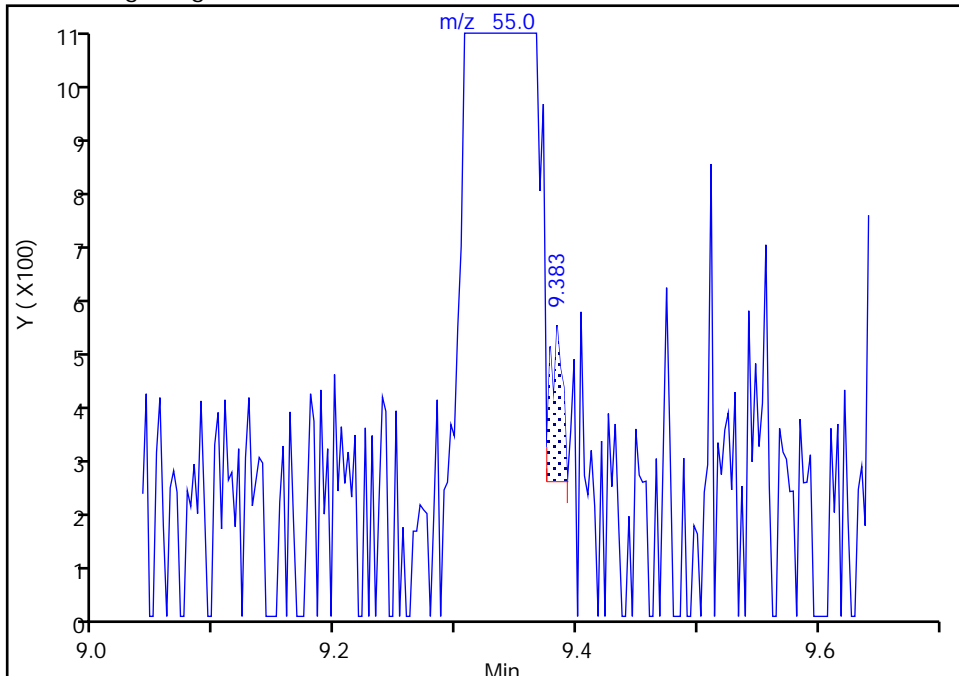
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD2AP0118.D
Injection Date: 18-Jan-2022 15:50:30 Instrument ID: CMS16
Lims ID: STD2AP
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

83 1-Chlorohexane, CAS: 544-10-5

Signal: 1

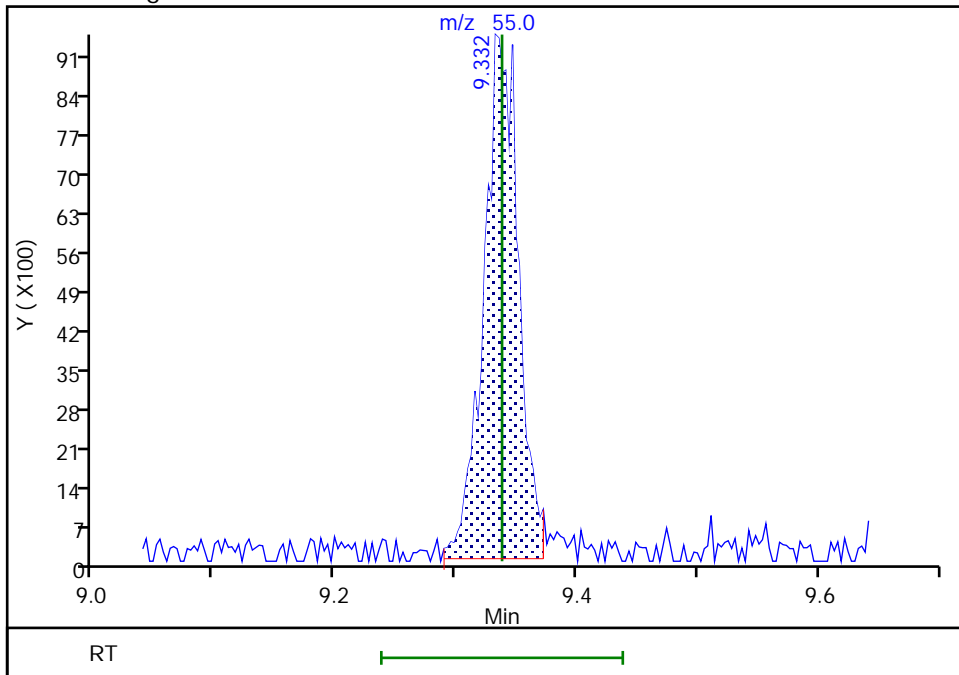
RT: 9.38
Area: 190
Amount: 0.063022
Amount Units: UG/L

Processing Integration Results



RT: 9.33
Area: 18752
Amount: 4.931620
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:00:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD3AP0118.D
 Lims ID: STD3AP
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Jan-2022 16:15:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD3AP
 Misc. Info.: 500-0083302-013
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:14 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 19:01:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.703	2.700	0.003	95	18132	800.0	659.1	
18 Isopropyl alcohol	45	3.168	3.171	-0.003	98	33337	200.0	187.6	
19 Acetonitrile	41	3.287	3.284	0.003	99	55568	200.0	199.9	
* 23 TBA-d9 (IS)	65	3.460	3.460	0.000	94	237001	1068.6	1068.6	
32 Isopropyl ether	45	4.132	4.135	-0.003	92	208141	20.0	19.5	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	96	97694	20.0	19.1	
33 Tert-butyl ethyl ether	59	4.475	4.475	0.000	98	194584	20.0	20.1	
38 Ethyl acetate	43	4.699	4.696	0.003	99	88280	40.0	40.6	
37 Propionitrile	54	4.702	4.699	0.003	86	60582	200.0	201.1	
40 Methacrylonitrile	41	4.849	4.852	-0.003	93	277829	200.0	200.5	
52 Isooctane	57	5.578	5.578	0.000	97	293611	20.0	19.3	
53 Tert-amyl methyl ether	73	5.606	5.609	-0.003	95	175928	20.0	19.8	
* 55 Fluorobenzene (IS)	96	5.788	5.785	0.003	99	601382	53.4	53.4	
56 n-Butanol	56	6.086	6.086	0.000	88	32873	500.0	438.0	
58 Ethyl acrylate	55	6.287	6.287	0.000	98	51539	20.0	19.3	
* 62 1,4-Dioxane-d8	96	6.502	6.502	0.000	78	16934	1068.6	1068.6	
64 Methyl methacrylate	41	6.536	6.536	0.000	89	78468	40.0	39.4	
67 2-Nitropropane	43	6.984	6.982	0.002	95	28491	40.0	42.8	
79 n-Butyl acetate	43	8.578	8.578	0.000	97	71034	20.0	20.1	
* 82 Chlorobenzene-d5	117	9.329	9.330	-0.001	85	433756	53.4	53.4	
83 1-Chlorohexane	55	9.338	9.338	0.000	50	63054	20.0	19.5	
92 Cyclohexanone	55	10.651	10.648	0.003	96	160127	2000.0	1995.1	
105 Pentachloroethane	167	11.490	11.490	0.000	93	37998	20.0	18.3	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	264020	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	93	278729	20.0	18.8	
113 Benzyl chloride	126	11.981	11.981	0.000	94	27064	20.0	19.4	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	96	110673	20.0	18.0	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	82	55130	20.0	15.5	
123 1-Methylnaphthalene	142	14.734	14.731	0.003	92	42924	20.0	15.4	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

LOWCYCHXWK_00206	Amount Added: 20.00	Units: uL	
LOWAPIX_00027	Amount Added: 20.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD3AP0118.D

Injection Date: 18-Jan-2022 16:15:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD3AP

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

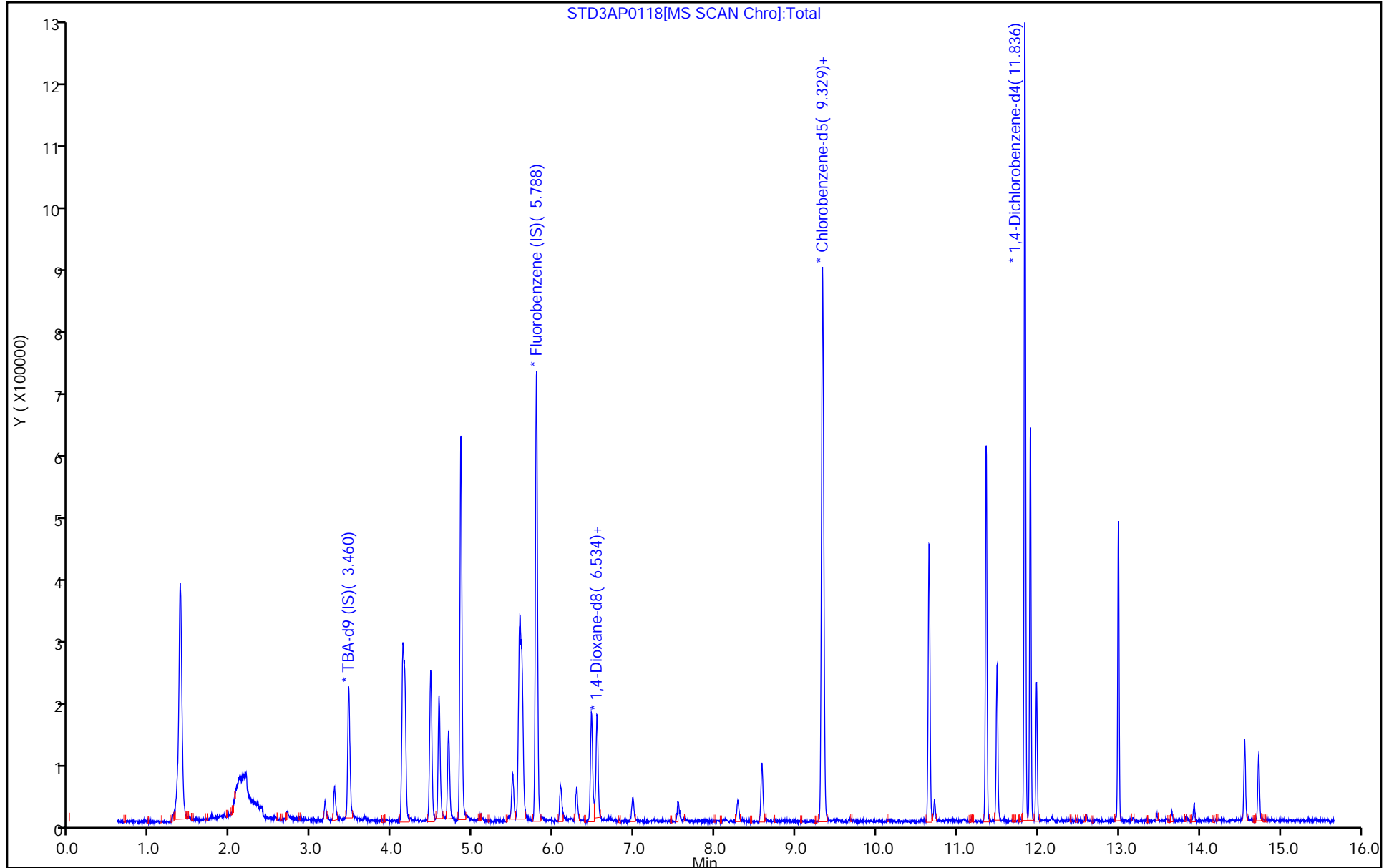
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD4AP0118.D
 Lims ID: STD4AP
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 18-Jan-2022 16:41:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD4AP
 Misc. Info.: 500-0083302-014
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:16 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 18:54:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.700	2.700	0.000	98	55335	2000.0	2237.4	
18 Isopropyl alcohol	45	3.171	3.171	0.000	97	80980	500.0	507.0	
19 Acetonitrile	41	3.284	3.284	0.000	98	145724	500.0	527.1	
* 23 TBA-d9 (IS)	65	3.465	3.465	0.000	96	213067	1068.6	1068.6	
32 Isopropyl ether	45	4.135	4.135	0.000	94	553191	50.0	52.1	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	98	253282	50.0	49.8	
33 Tert-butyl ethyl ether	59	4.475	4.475	0.000	98	511154	50.0	53.2	
38 Ethyl acetate	43	4.696	4.696	0.000	100	209361	100.0	99.8	
37 Propionitrile	54	4.699	4.699	0.000	84	154510	500.0	515.9	
40 Methacrylonitrile	41	4.852	4.852	0.000	93	675106	500.0	490.0	
52 Isooctane	57	5.578	5.578	0.000	97	759799	50.0	50.3	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	94	463469	50.0	52.6	
* 55 Fluorobenzene (IS)	96	5.788	5.788	0.000	99	597940	53.4	53.4	
56 n-Butanol	56	6.086	6.086	0.000	91	85772	1250.0	1271.2	
58 Ethyl acrylate	55	6.287	6.287	0.000	99	138921	50.0	52.4	a
* 62 1,4-Dioxane-d8	96	6.500	6.500	0.000	82	16395	1068.6	1068.6	
64 Methyl methacrylate	41	6.536	6.536	0.000	87	194932	100.0	98.4	
67 2-Nitropropane	43	6.982	6.982	0.000	94	66395	100.0	100.2	
79 n-Butyl acetate	43	8.578	8.578	0.000	97	180454	50.0	51.4	
* 82 Chlorobenzene-d5	117	9.327	9.327	0.000	86	431506	53.4	53.4	
83 1-Chlorohexane	55	9.338	9.338	0.000	80	151675	50.0	48.5	
92 Cyclohexanone	55	10.648	10.648	0.000	96	381860	5000.0	4806.4	
105 Pentachloroethane	167	11.490	11.490	0.000	95	89050	50.0	43.2	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	261342	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	94	722916	50.0	49.3	
113 Benzyl chloride	126	11.981	11.981	0.000	95	69053	50.0	49.9	
117 1,3,5-Trichlorobenzene	180	12.993	12.993	0.000	94	296404	50.0	48.6	
122 2-Methylnaphthalene	142	14.561	14.561	0.000	90	181422	50.0	42.2	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	90	143062	50.0	43.4	

[QC Flag Legend](#)

Processing Flags

Review Flags

a - User Assigned ID

[Reagents:](#)

8260ADDS 2016_00203	Amount Added: 2.50	Units: uL	
8260CYCHXWK_00313	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00275	Amount Added: 2.50	Units: uL	
8260/624STD2_00317	Amount Added: 2.50	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD4AP0118.D

Injection Date: 18-Jan-2022 16:41:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD4AP

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

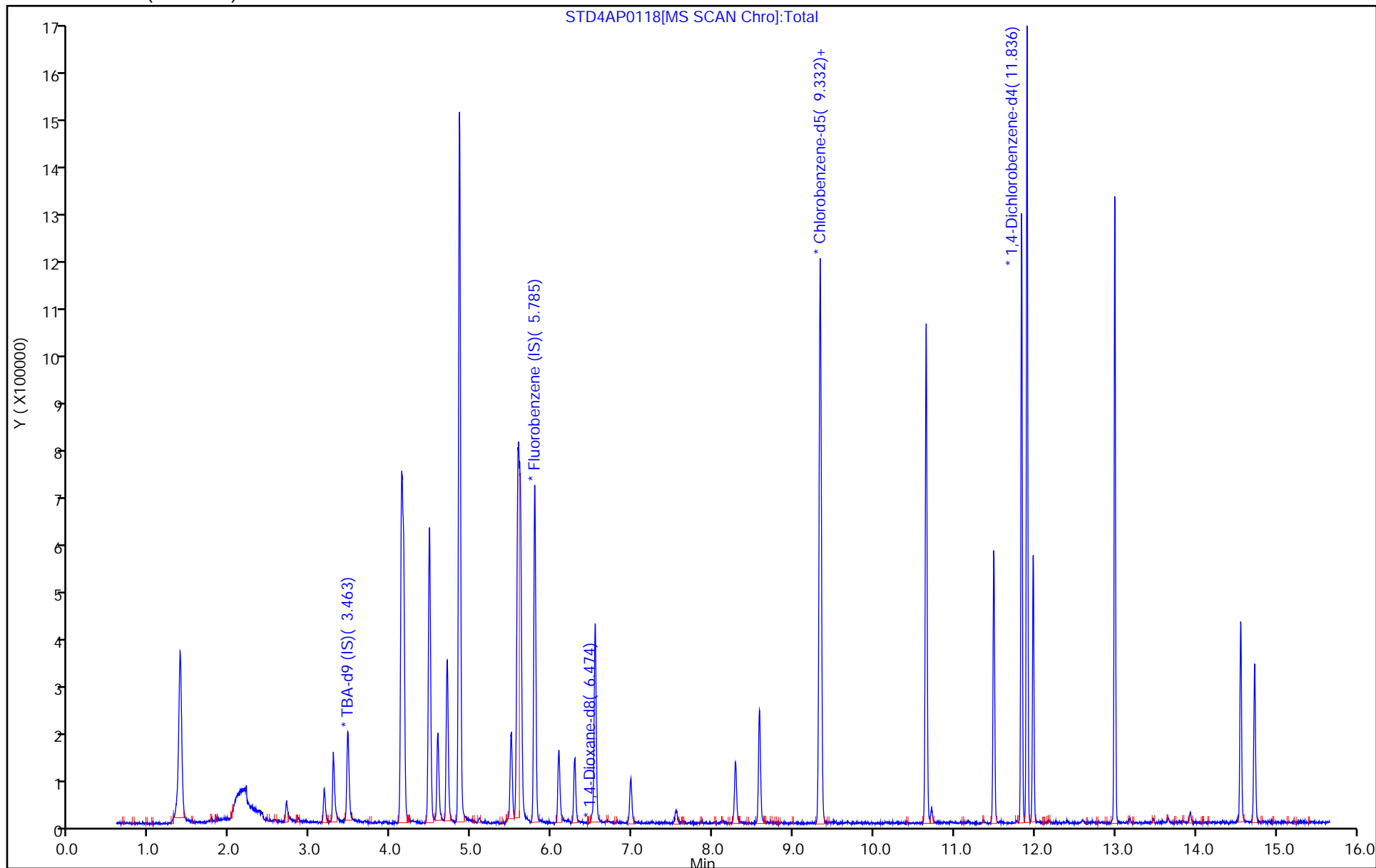
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

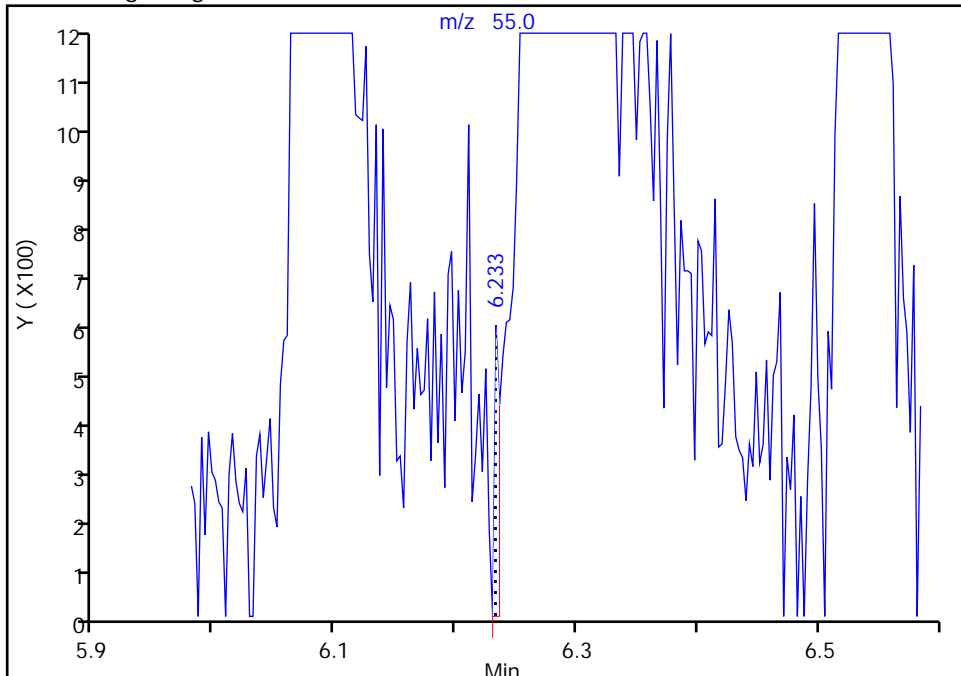
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD4AP0118.D
Injection Date: 18-Jan-2022 16:41:30 Instrument ID: CMS16
Lims ID: STD4AP
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

58 Ethyl acrylate, CAS: 140-88-5

Signal: 1

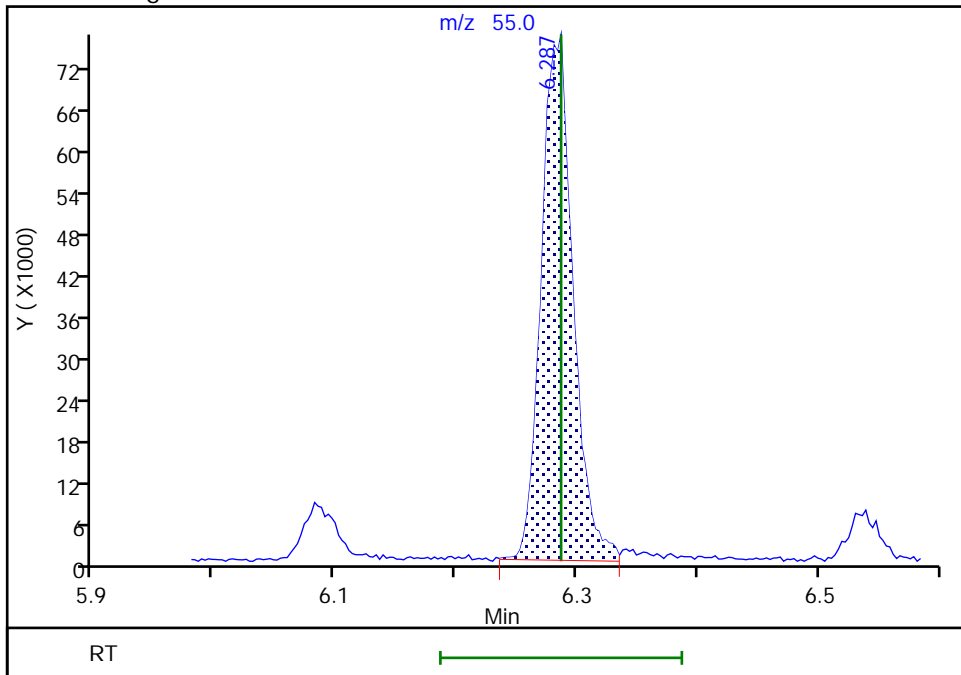
RT: 6.23
Area: 163
Amount: 0.072319
Amount Units: UG/L

Processing Integration Results



RT: 6.29
Area: 138921
Amount: 52.415736
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 19:02:06
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD5AP0118.D
 Lims ID: STD5AP
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Jan-2022 17:07:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5AP
 Misc. Info.: 500-0083302-015
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:17 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 19:02:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.700	2.700	0.000	96	111188	4000.0	4127.6	
18 Isopropyl alcohol	45	3.171	3.171	0.000	98	171749	1000.0	987.2	
19 Acetonitrile	41	3.281	3.284	-0.003	100	296100	1000.0	1040.3	
* 23 TBA-d9 (IS)	65	3.463	3.465	-0.002	95	232064	1068.6	1068.6	
32 Isopropyl ether	45	4.132	4.135	-0.003	94	1161958	100.0	106.3	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	96	546596	100.0	104.3	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	98	1075444	100.0	108.7	
38 Ethyl acetate	43	4.693	4.696	-0.003	100	445227	200.0	208.5	
37 Propionitrile	54	4.702	4.699	0.003	94	328540	1000.0	1065.4	
40 Methacrylonitrile	41	4.852	4.852	0.000	93	1471853	1000.0	1037.5	
52 Isooctane	57	5.578	5.578	0.000	97	1666682	100.0	107.1	
53 Tert-amyl methyl ether	73	5.606	5.609	-0.003	93	975117	100.0	107.4	
* 55 Fluorobenzene (IS)	96	5.785	5.788	-0.003	99	615630	53.4	53.4	
56 n-Butanol	56	6.086	6.086	0.000	92	185572	2500.0	2525.2	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	298603	100.0	109.4	
* 62 1,4-Dioxane-d8	96	6.500	6.500	0.000	78	18075	1068.6	1068.6	
64 Methyl methacrylate	41	6.539	6.536	0.003	91	426414	200.0	209.1	
67 2-Nitropropane	43	6.979	6.982	-0.003	94	146069	200.0	211.8	
79 n-Butyl acetate	43	8.578	8.578	0.000	97	393231	100.0	107.6	
* 82 Chlorobenzene-d5	117	9.330	9.327	0.003	86	449076	53.4	53.4	
83 1-Chlorohexane	55	9.341	9.338	0.003	97	315827	100.0	98.0	
92 Cyclohexanone	55	10.651	10.648	0.003	97	821718	10000	9892.6	
105 Pentachloroethane	167	11.493	11.490	0.003	96	239050	100.0	111.0	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	273239	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	94	1628992	100.0	106.2	
113 Benzyl chloride	126	11.981	11.981	0.000	98	154181	100.0	106.7	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	97	690768	100.0	108.4	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	83	480584	100.0	100.5	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	84	371233	100.0	102.5	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

8260ADDS 2016_00203	Amount Added: 5.00	Units: uL	
8260CYCHXWK_00313	Amount Added: 5.00	Units: uL	
8260POLR ADDS_00275	Amount Added: 5.00	Units: uL	
8260/624STD2_00317	Amount Added: 5.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD5AP0118.D

Injection Date: 18-Jan-2022 17:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD5AP

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

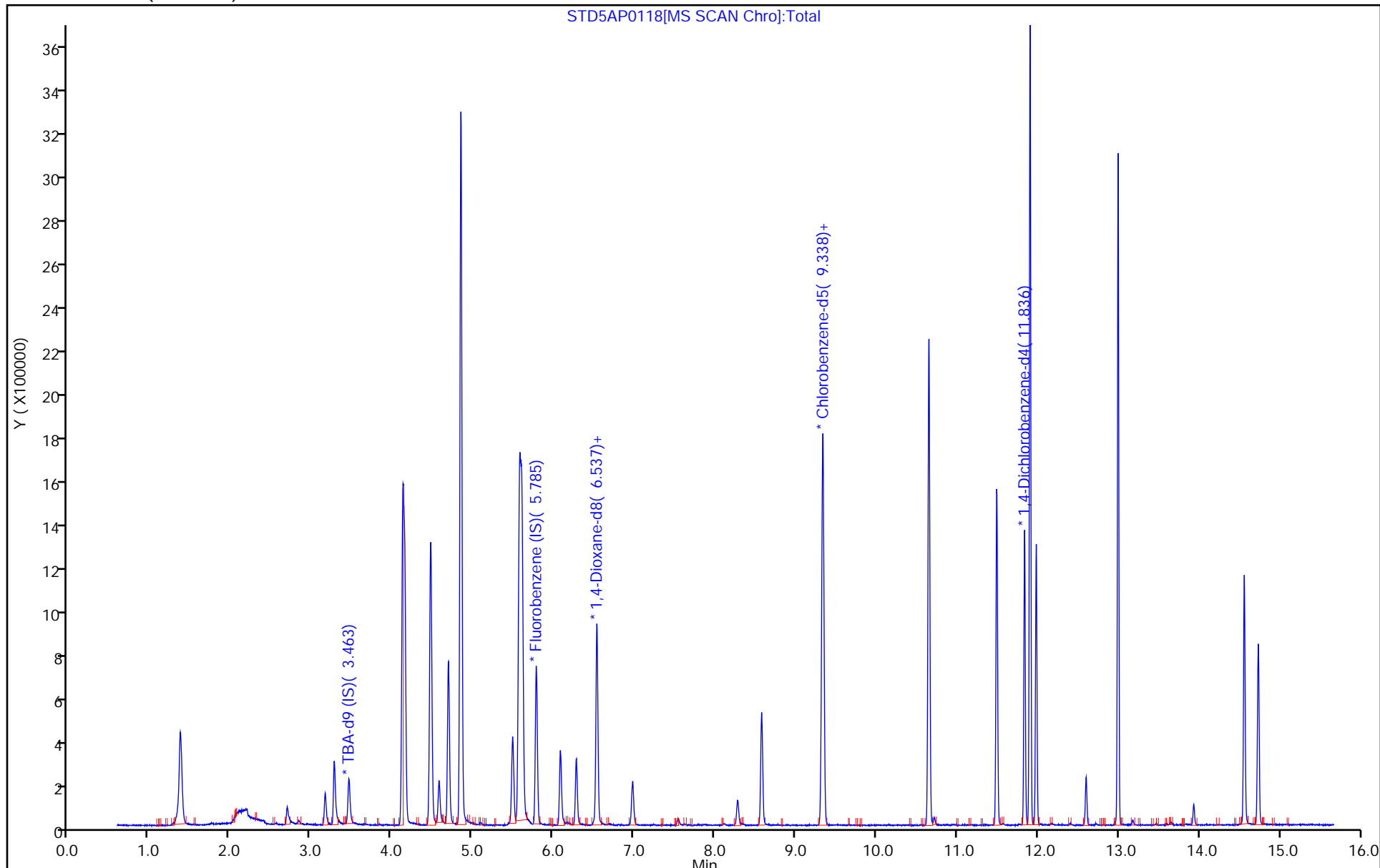
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD6AP0118.D
 Lims ID: STD6AP
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Jan-2022 17:32:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD6AP
 Misc. Info.: 500-0083302-016
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 19:02:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.697	2.700	-0.003	98	148436	6000.0	6859.0	
18 Isopropyl alcohol	45	3.168	3.171	-0.003	98	218753	1500.0	1565.1	
19 Acetonitrile	41	3.281	3.284	-0.003	100	406739	1500.0	1431.4	
* 23 TBA-d9 (IS)	65	3.465	3.465	0.000	94	186435	1068.6	1068.6	
32 Isopropyl ether	45	4.132	4.135	-0.003	93	1684820	150.0	154.4	
31 2-Chloro-1,3-butadiene	53	4.160	4.157	0.003	97	815243	150.0	155.8	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	98	1527345	150.0	154.7	
38 Ethyl acetate	43	4.696	4.696	0.000	99	605544	300.0	284.8	
37 Propionitrile	54	4.702	4.699	0.003	87	429931	1500.0	1396.5	
40 Methacrylonitrile	41	4.852	4.852	0.000	93	2070133	1500.0	1461.7	
52 Isooctane	57	5.578	5.578	0.000	98	2552224	150.0	164.3	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	93	1384485	150.0	152.8	
* 55 Fluorobenzene (IS)	96	5.791	5.788	0.003	99	614606	53.4	53.4	
56 n-Butanol	56	6.086	6.086	0.000	92	252712	3750.0	4280.5	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	419339	150.0	153.9	
* 62 1,4-Dioxane-d8	96	6.508	6.500	0.008	47	15359	1068.6	1068.6	
64 Methyl methacrylate	41	6.536	6.536	0.000	89	594465	300.0	292.0	
67 2-Nitropropane	43	6.982	6.982	0.000	97	201600	300.0	295.9	
79 n-Butyl acetate	43	8.581	8.578	0.003	97	544038	150.0	150.7	
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	83	443555	53.4	53.4	
83 1-Chlorohexane	55	9.341	9.338	0.003	98	475600	150.0	149.9	
92 Cyclohexanone	55	10.651	10.648	0.003	97	1147826	15000	14338	
105 Pentachloroethane	167	11.490	11.490	0.000	96	337537	150.0	162.6	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	96	263337	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	93	2434844	150.0	164.8	
113 Benzyl chloride	126	11.981	11.981	0.000	99	211358	150.0	151.7	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	96	1038133	150.0	169.0	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	93	713925	150.0	152.7	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	91	534128	150.0	151.3	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

8260ADDS 2016_00203	Amount Added: 7.50	Units: uL	
8260CYCHXWK_00313	Amount Added: 7.50	Units: uL	
8260POLR ADDS_00275	Amount Added: 7.50	Units: uL	
8260/624STD2_00317	Amount Added: 7.50	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD6AP0118.D

Injection Date: 18-Jan-2022 17:32:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD6AP

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

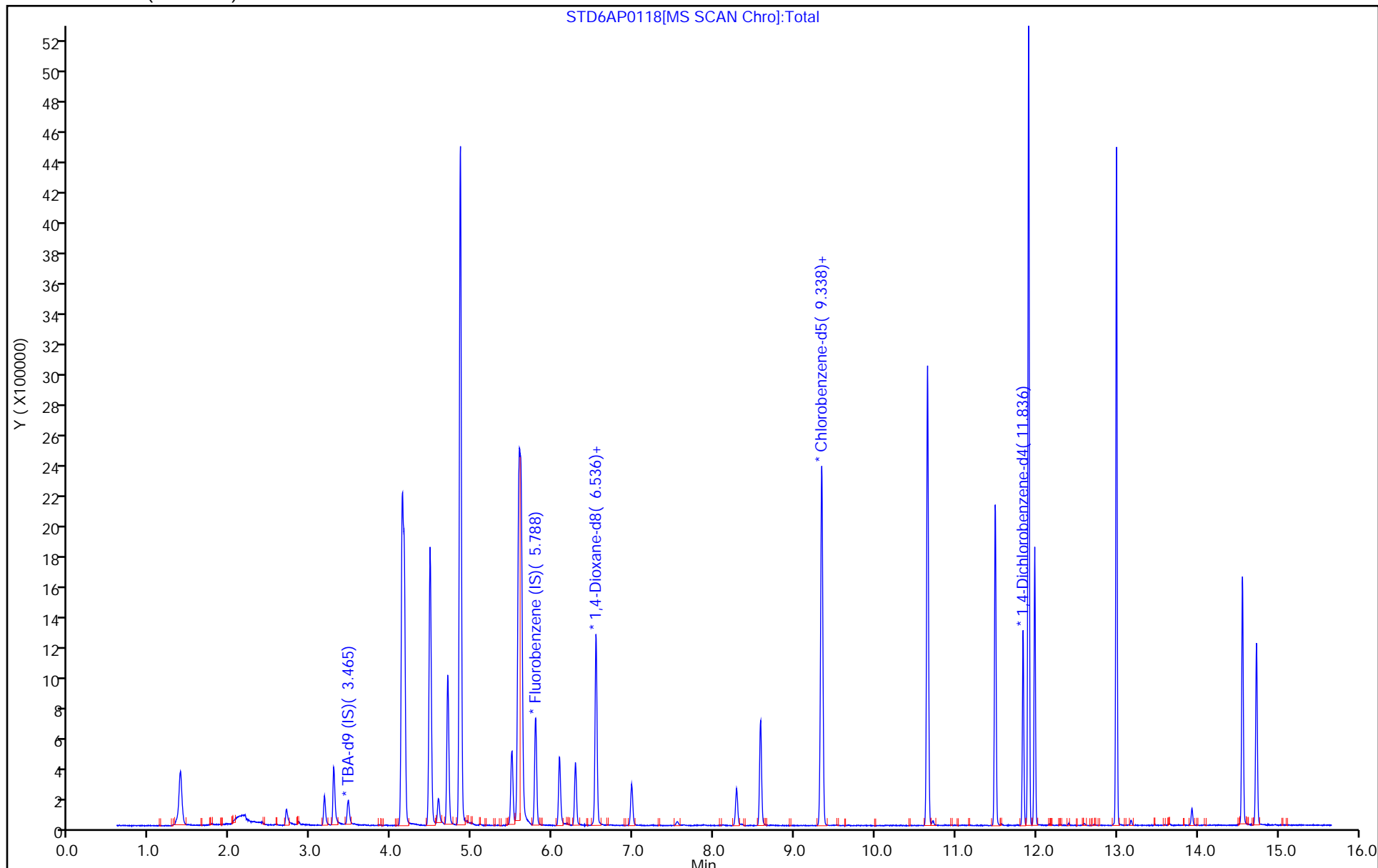
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Lims ID: STD7AP
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Jan-2022 17:58:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD7AP
 Misc. Info.: 500-0083302-017
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub58
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:43:20 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello

Date: 18-Jan-2022 19:03:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.691	2.700	-0.009	97	189178	8000.0	7982.6	
18 Isopropyl alcohol	45	3.165	3.171	-0.006	98	312110	2000.0	2039.1	
19 Acetonitrile	41	3.281	3.284	-0.003	100	546069	2000.0	1855.3	
* 23 TBA-d9 (IS)	65	3.463	3.465	-0.002	96	204163	1068.6	1068.6	
32 Isopropyl ether	45	4.132	4.135	-0.003	94	2325277	200.0	205.7	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	97	1166080	200.0	215.2	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	97	2128059	200.0	208.0	
38 Ethyl acetate	43	4.696	4.696	0.000	100	892510	400.0	406.2	
37 Propionitrile	54	4.702	4.699	0.003	90	614959	2000.0	1928.4	
40 Methacrylonitrile	41	4.855	4.852	0.003	93	2999324	2000.0	2044.5	
52 Isooctane	57	5.581	5.578	0.003	98	3596593	200.0	223.6	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	92	1917825	200.0	204.3	
* 55 Fluorobenzene (IS)	96	5.785	5.788	-0.003	98	636641	53.4	53.4	
56 n-Butanol	56	6.083	6.086	-0.003	92	352221	5000.0	5447.9	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	609524	200.0	216.0	
* 62 1,4-Dioxane-d8	96	6.502	6.500	0.002	65	16873	1068.6	1068.6	
64 Methyl methacrylate	41	6.536	6.536	0.000	89	881347	400.0	418.0	
67 2-Nitropropane	43	6.982	6.982	0.000	94	295448	400.0	413.5	
79 n-Butyl acetate	43	8.578	8.578	0.000	97	776777	200.0	205.2	
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	69	465140	53.4	53.4	
83 1-Chlorohexane	55	9.338	9.338	0.000	98	677752	200.0	204.0	
92 Cyclohexanone	55	10.651	10.648	0.003	97	1569703	20000	18899	
105 Pentachloroethane	167	11.493	11.490	0.003	96	501964	200.0	233.1	
* 110 1,4-Dichlorobenzene-d4	152	11.839	11.836	0.003	95	273213	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	94	3558247	200.0	232.1	
113 Benzyl chloride	126	11.981	11.981	0.000	95	308784	200.0	213.6	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	94	1480337	200.0	232.3	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	91	1013868	200.0	207.5	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	89	758440	200.0	205.8	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

8260ADDS 2016_00203	Amount Added: 10.00	Units: uL	
8260POLR ADDS_00275	Amount Added: 10.00	Units: uL	
8260/624STD2_00317	Amount Added: 10.00	Units: uL	
8260CYCHXWK_00313	Amount Added: 10.00	Units: uL	
INST16 IS_00032	Amount Added: 1.07	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D

Injection Date: 18-Jan-2022 17:58:30

Instrument ID: CMS16

Operator ID:

Lims ID: STD7AP

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

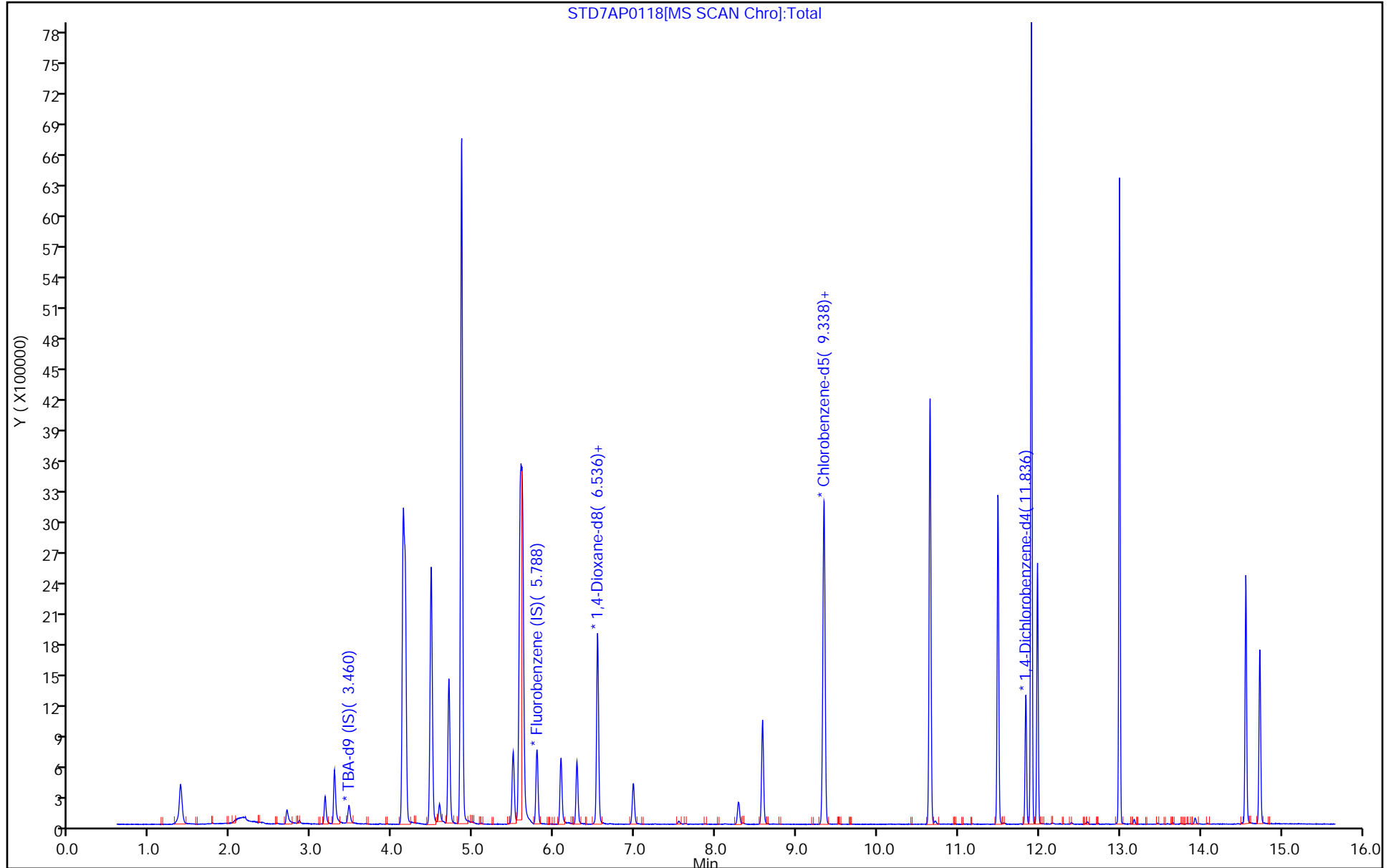
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Calibration

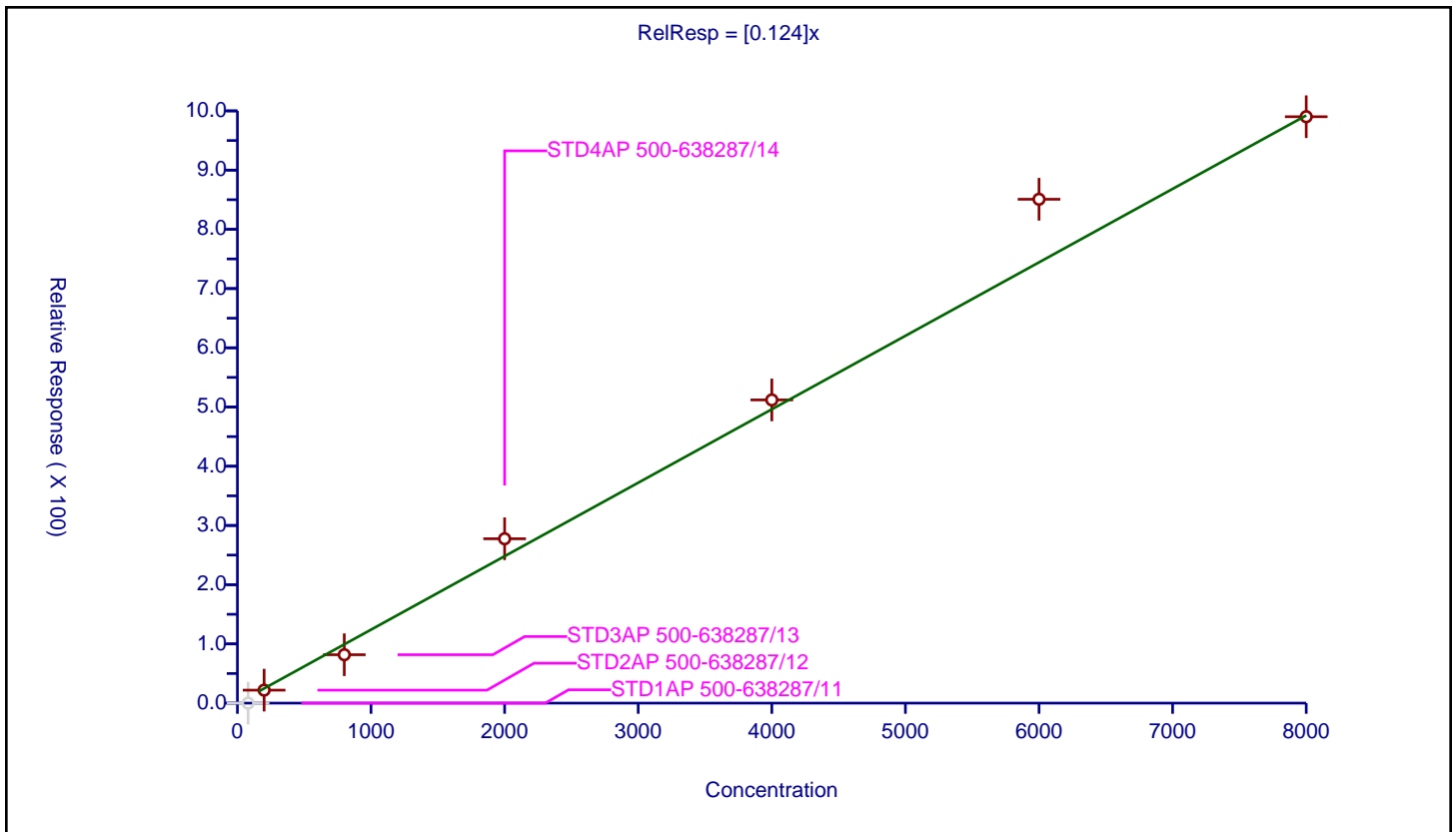
/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.124

Error Coefficients	
Standard Error:	121000
Relative Standard Error:	12.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	80.0	0.0	1068.6	223683.0	0.0	N
2	STD2AP 500-638287/12	200.0	21.94433	1068.6	254972.0	0.109722	Y
3	STD3AP 500-638287/13	800.0	81.754318	1068.6	237001.0	0.102193	Y
4	STD4AP 500-638287/14	2000.0	277.522943	1068.6	213067.0	0.138761	Y
5	STD5AP 500-638287/15	4000.0	511.994522	1068.6	232064.0	0.127999	Y
6	STD6AP 500-638287/16	6000.0	850.798989	1068.6	186435.0	0.1418	Y
7	STD7AP 500-638287/17	8000.0	990.167713	1068.6	204163.0	0.123771	Y



Calibration

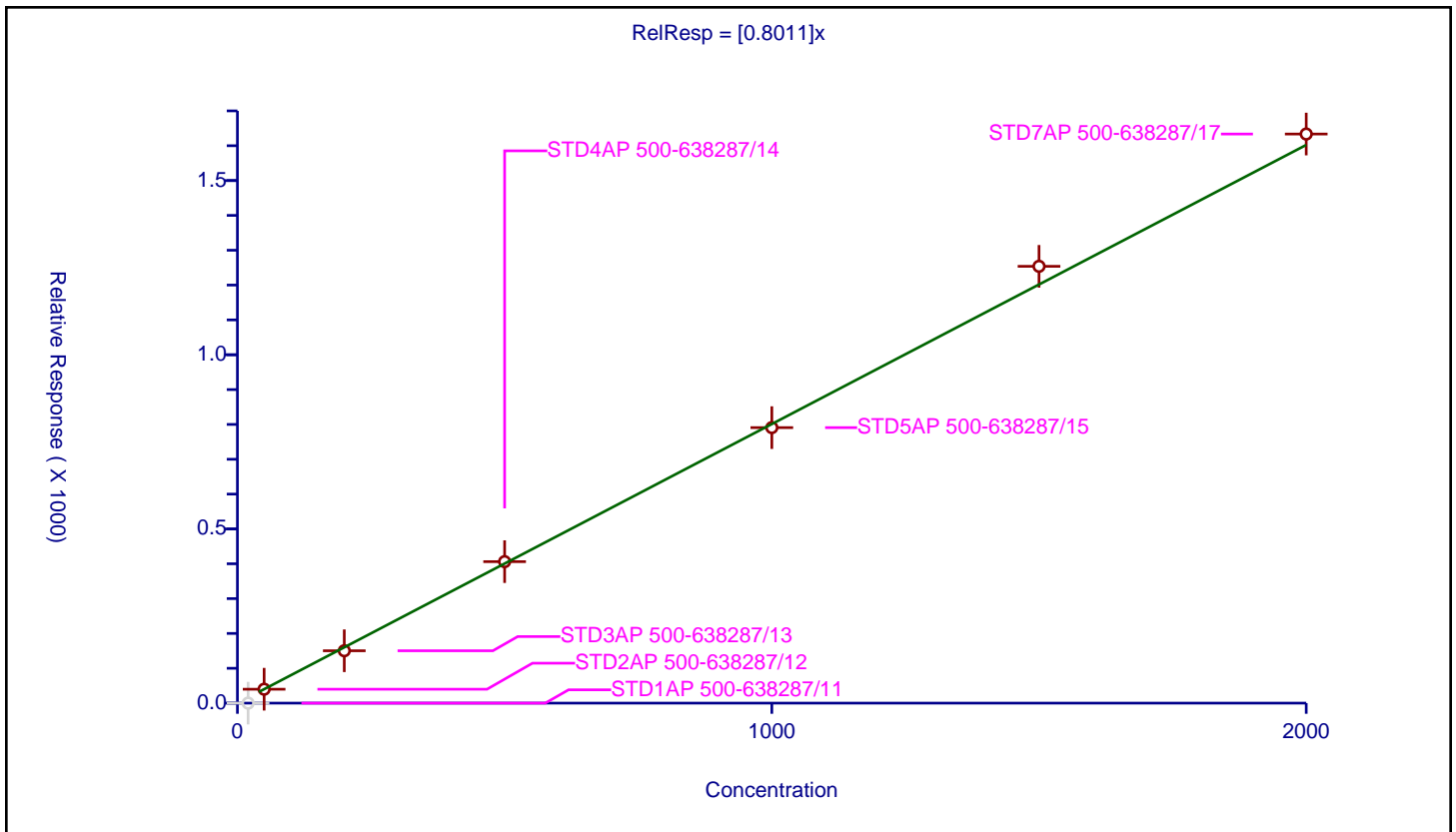
/ Isopropyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8011

Error Coefficients	
Standard Error:	190000
Relative Standard Error:	3.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	20.0	0.0	1068.6	223683.0	0.0	N
2	STD2AP 500-638287/12	50.0	39.965838	1068.6	254972.0	0.799317	Y
3	STD3AP 500-638287/13	200.0	150.311257	1068.6	237001.0	0.751556	Y
4	STD4AP 500-638287/14	500.0	406.140923	1068.6	213067.0	0.812282	Y
5	STD5AP 500-638287/15	1000.0	790.863647	1068.6	232064.0	0.790864	Y
6	STD6AP 500-638287/16	1500.0	1253.838903	1068.6	186435.0	0.835893	Y
7	STD7AP 500-638287/17	2000.0	1633.600339	1068.6	204163.0	0.8168	Y



Calibration

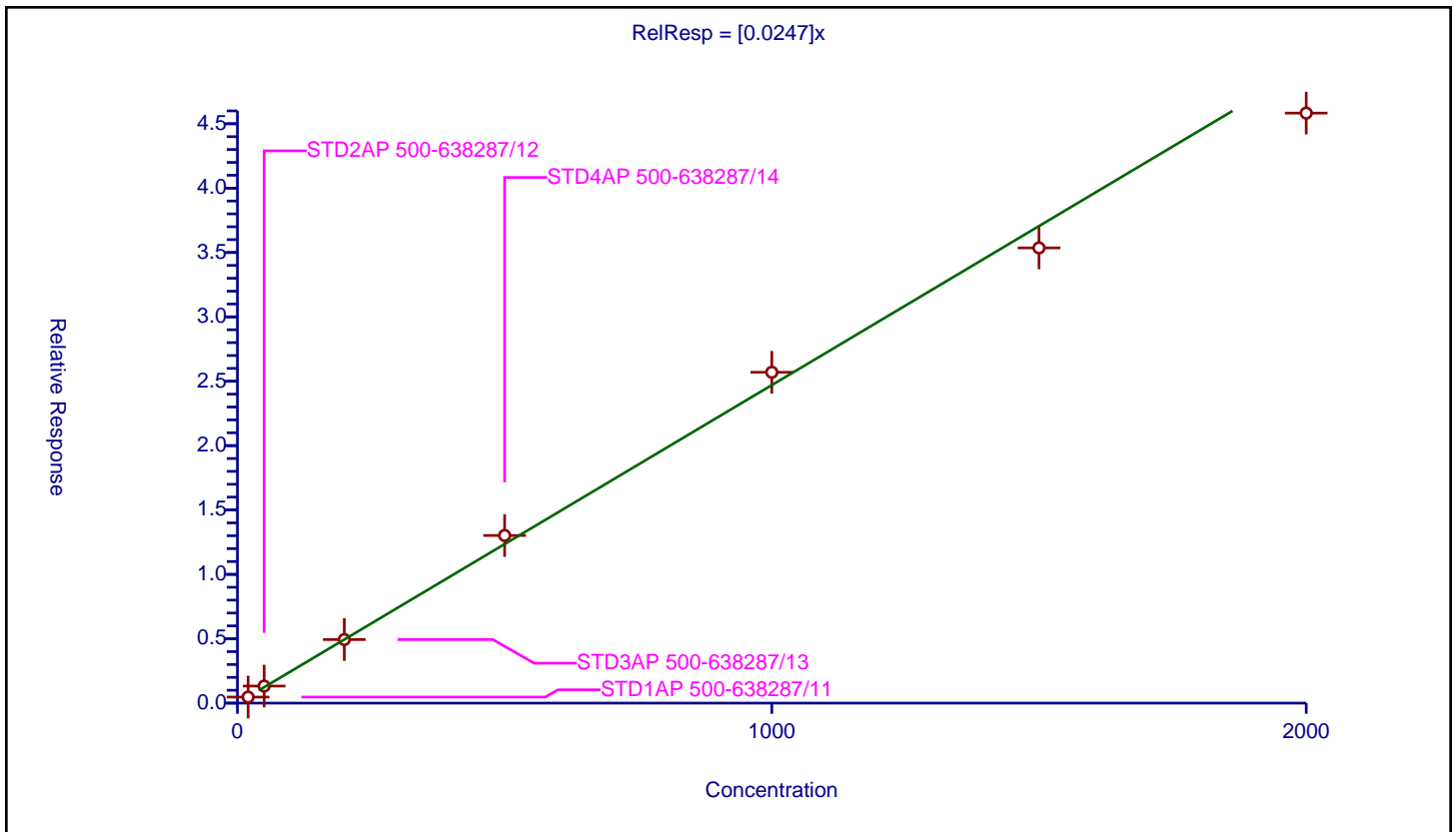
/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0247

Error Coefficients	
Standard Error:	310000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	20.0	0.469873	53.43	606651.0	0.023494	Y
2	STD2AP 500-638287/12	50.0	1.325338	53.43	615397.0	0.026507	Y
3	STD3AP 500-638287/13	200.0	4.936959	53.43	601382.0	0.024685	Y
4	STD4AP 500-638287/14	500.0	13.021429	53.43	597940.0	0.026043	Y
5	STD5AP 500-638287/15	1000.0	25.698265	53.43	615630.0	0.025698	Y
6	STD6AP 500-638287/16	1500.0	35.359344	53.43	614606.0	0.023573	Y
7	STD7AP 500-638287/17	2000.0	45.828759	53.43	636641.0	0.022914	Y



Calibration

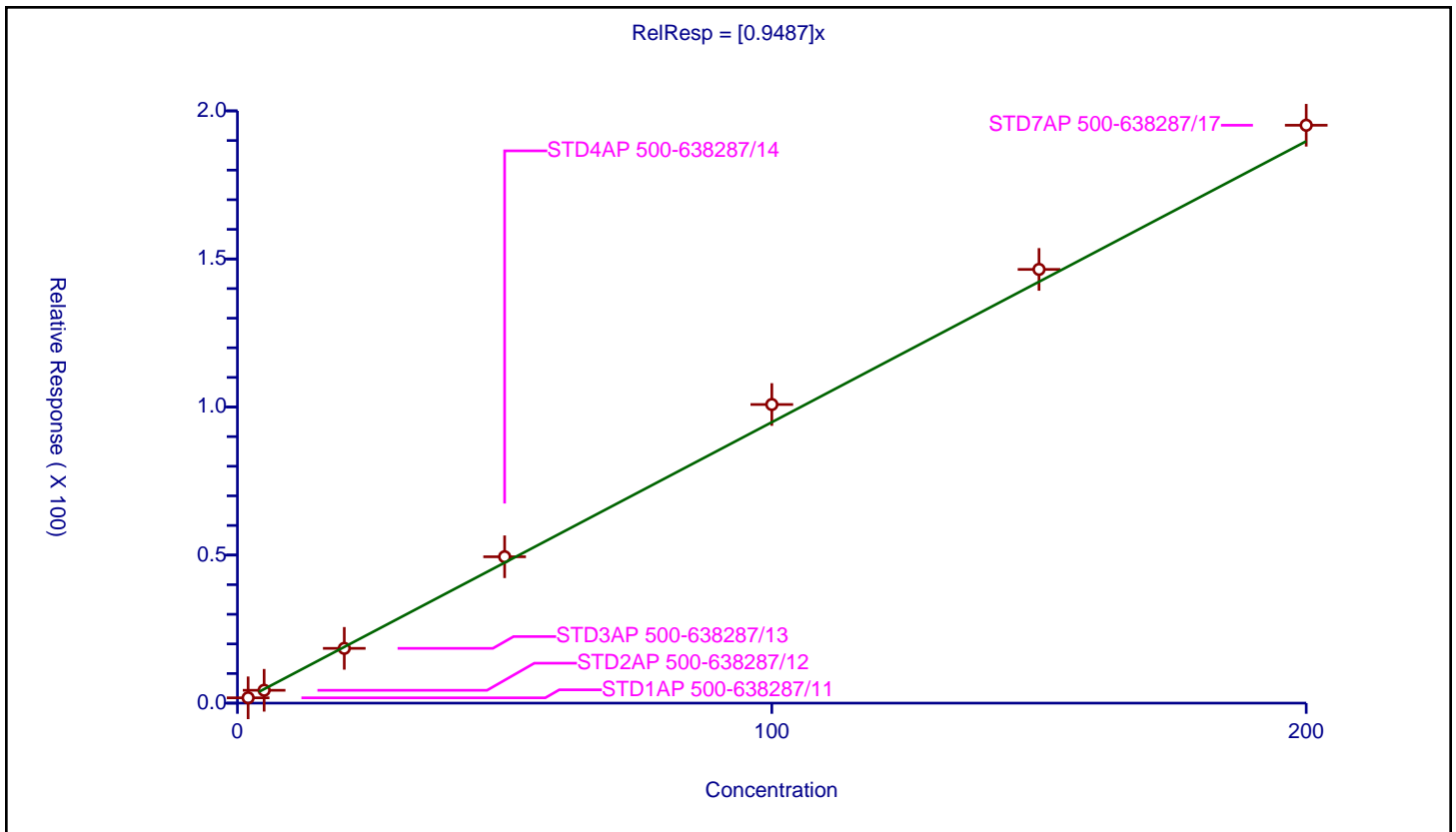
/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9487

Error Coefficients	
Standard Error:	1290000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	1.797672	53.43	606651.0	0.898836	Y
2	STD2AP 500-638287/12	5.0	4.340232	53.43	615397.0	0.868046	Y
3	STD3AP 500-638287/13	20.0	18.492362	53.43	601382.0	0.924618	Y
4	STD4AP 500-638287/14	50.0	49.431373	53.43	597940.0	0.988627	Y
5	STD5AP 500-638287/15	100.0	100.845339	53.43	615630.0	1.008453	Y
6	STD6AP 500-638287/16	150.0	146.467709	53.43	614606.0	0.976451	Y
7	STD7AP 500-638287/17	200.0	195.148522	53.43	636641.0	0.975743	Y



Calibration

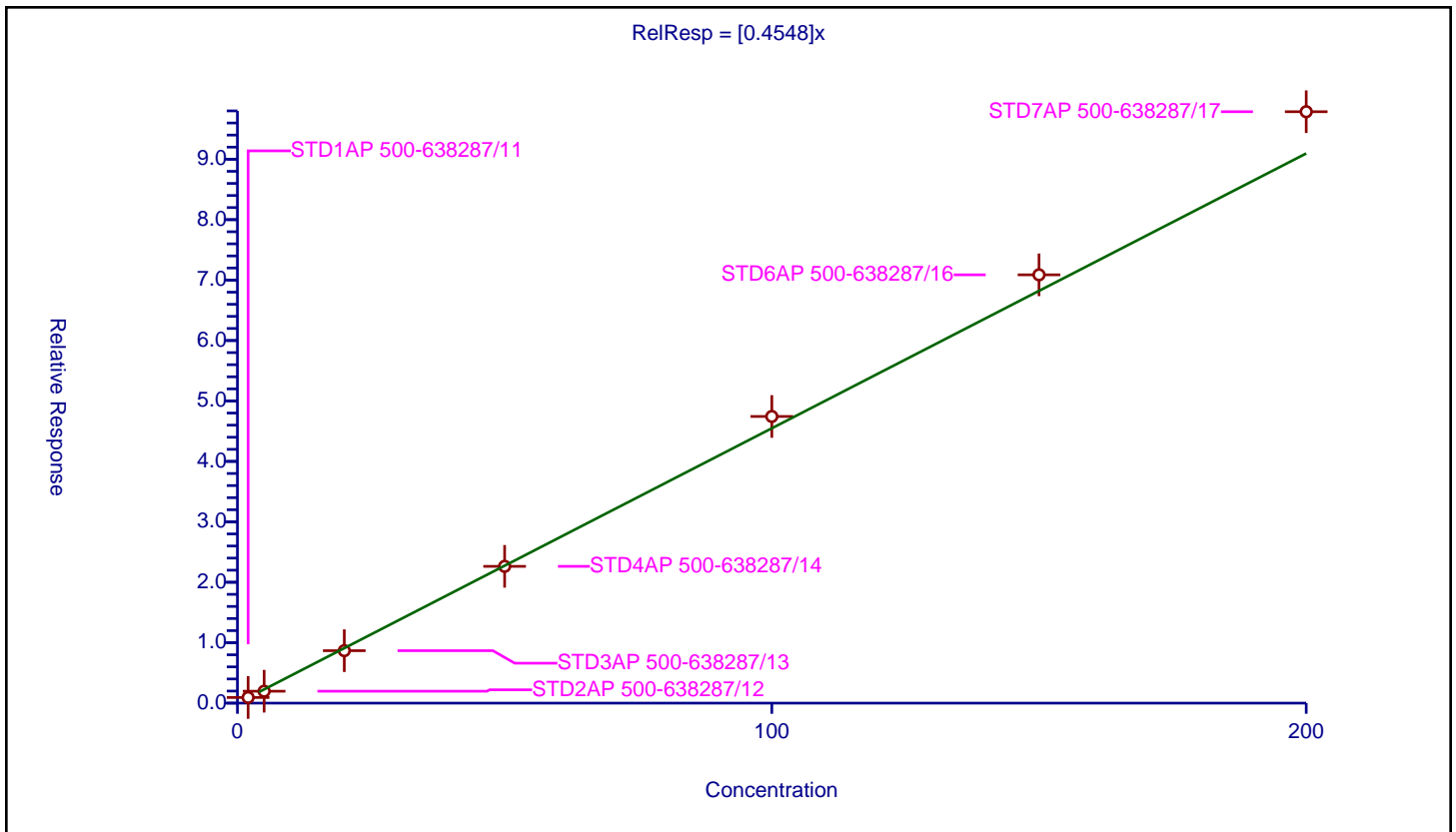
/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4548

Error Coefficients	
Standard Error:	632000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.932965	53.43	606651.0	0.466482	Y
2	STD2AP 500-638287/12	5.0	1.970946	53.43	615397.0	0.394189	Y
3	STD3AP 500-638287/13	20.0	8.679659	53.43	601382.0	0.433983	Y
4	STD4AP 500-638287/14	50.0	22.632467	53.43	597940.0	0.452649	Y
5	STD5AP 500-638287/15	100.0	47.438598	53.43	615630.0	0.474386	Y
6	STD6AP 500-638287/16	150.0	70.872125	53.43	614606.0	0.472481	Y
7	STD7AP 500-638287/17	200.0	97.863088	53.43	636641.0	0.489315	Y



Calibration

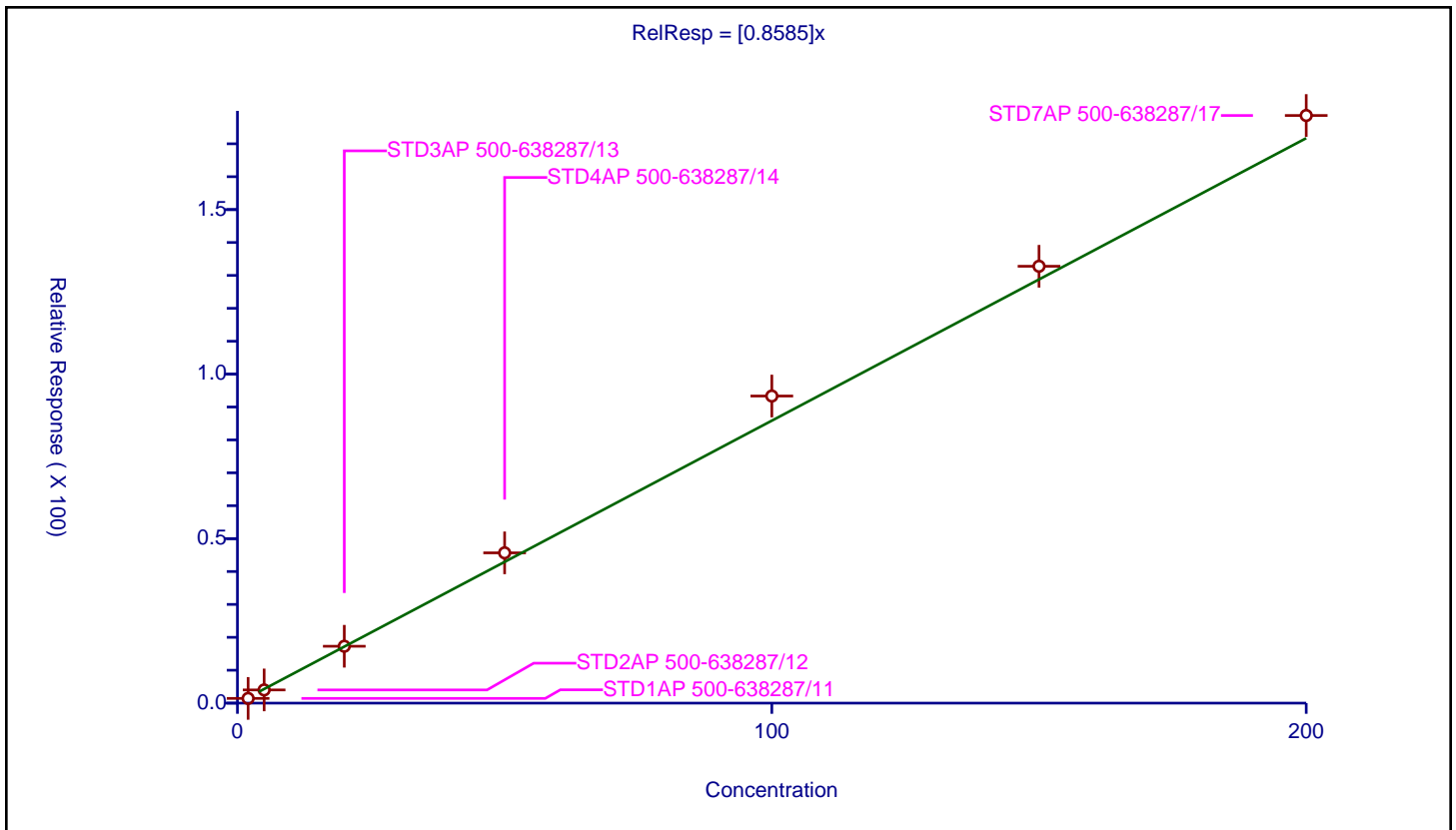
/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8585

Error Coefficients	
Standard Error:	1180000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	1.435689	53.43	606651.0	0.717845	Y
2	STD2AP 500-638287/12	5.0	4.010916	53.43	615397.0	0.802183	Y
3	STD3AP 500-638287/13	20.0	17.287885	53.43	601382.0	0.864394	Y
4	STD4AP 500-638287/14	50.0	45.675081	53.43	597940.0	0.913502	Y
5	STD5AP 500-638287/15	100.0	93.336863	53.43	615630.0	0.933369	Y
6	STD6AP 500-638287/16	150.0	132.777818	53.43	614606.0	0.885185	Y
7	STD7AP 500-638287/17	200.0	178.597031	53.43	636641.0	0.892985	Y



Calibration

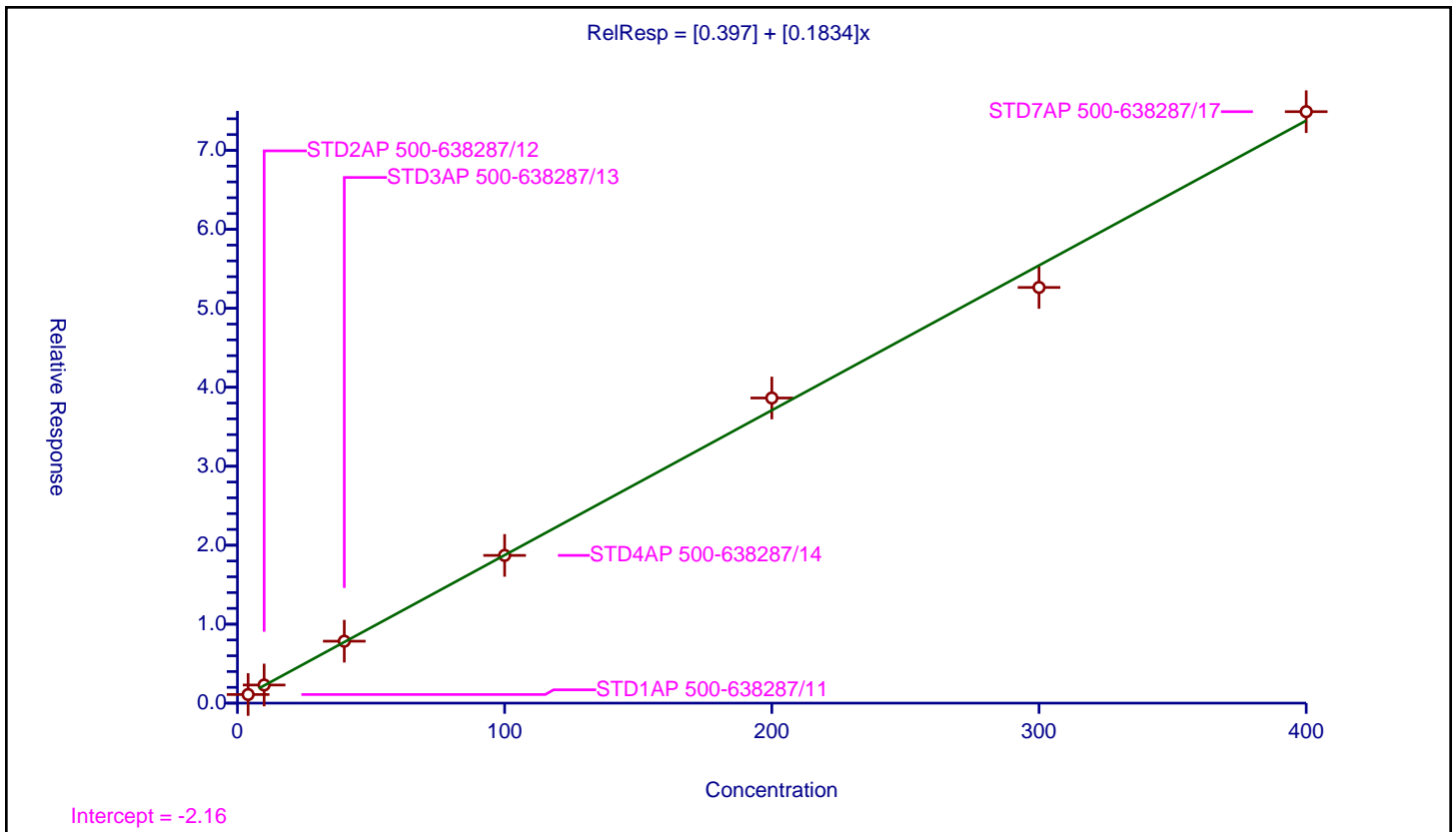
/ Ethyl acetate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.397
Slope:	0.1834

Error Coefficients	
Standard Error:	532000
Relative Standard Error:	4.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	4.0	1.090352	53.43	606651.0	0.272588	Y
2	STD2AP 500-638287/12	10.0	2.295226	53.43	615397.0	0.229523	Y
3	STD3AP 500-638287/13	40.0	7.843268	53.43	601382.0	0.196082	Y
4	STD4AP 500-638287/14	100.0	18.707827	53.43	597940.0	0.187078	Y
5	STD5AP 500-638287/15	200.0	38.64087	53.43	615630.0	0.193204	Y
6	STD6AP 500-638287/16	300.0	52.642206	53.43	614606.0	0.175474	Y
7	STD7AP 500-638287/17	400.0	74.903767	53.43	636641.0	0.187259	Y



Calibration

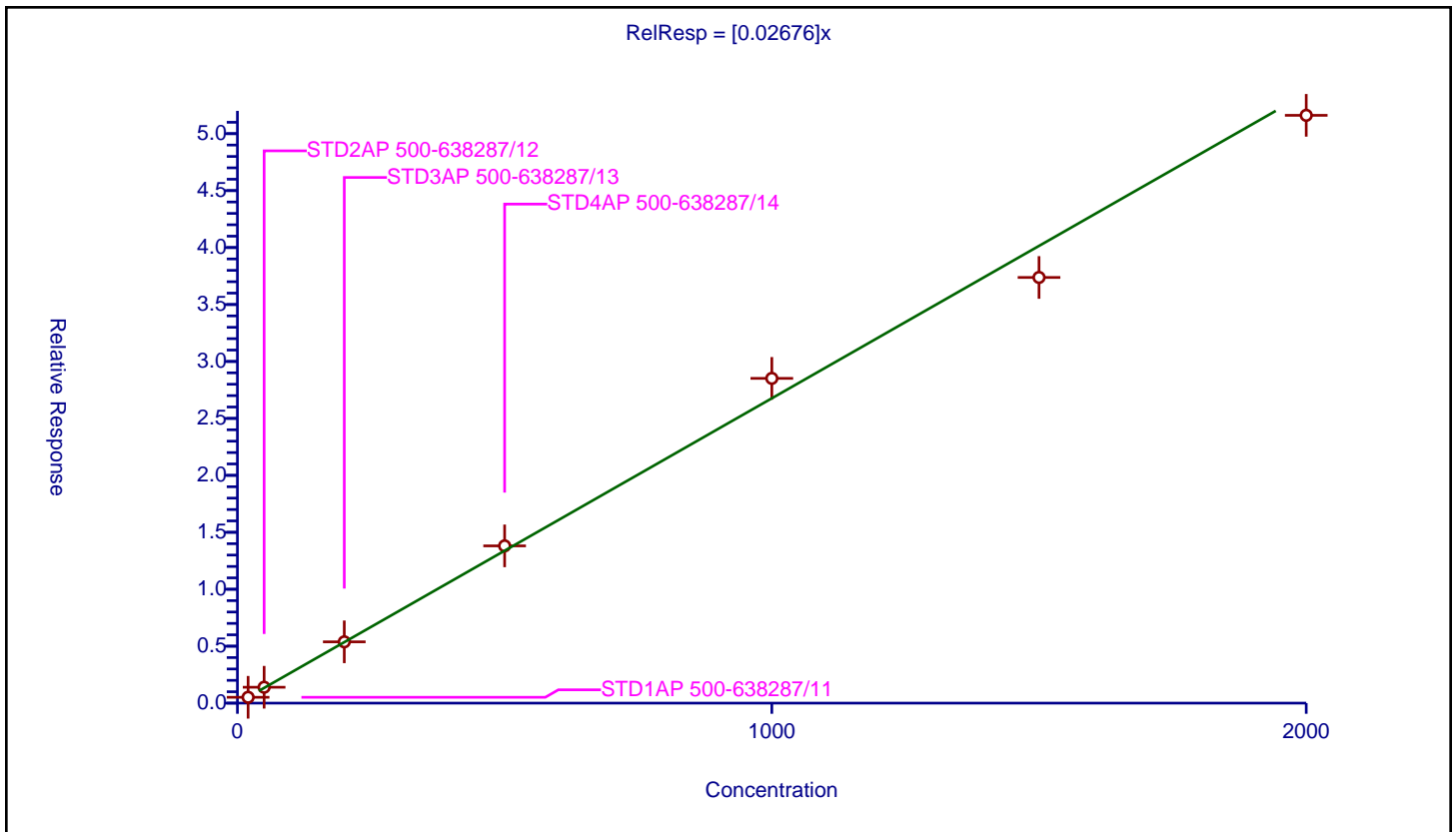
/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02676

Error Coefficients	
Standard Error:	341000
Relative Standard Error:	5.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	20.0	0.513382	53.43	606651.0	0.025669	Y
2	STD2AP 500-638287/12	50.0	1.395664	53.43	615397.0	0.027913	Y
3	STD3AP 500-638287/13	200.0	5.38243	53.43	601382.0	0.026912	Y
4	STD4AP 500-638287/14	500.0	13.806518	53.43	597940.0	0.027613	Y
5	STD5AP 500-638287/15	1000.0	28.513705	53.43	615630.0	0.028514	Y
6	STD6AP 500-638287/16	1500.0	37.375511	53.43	614606.0	0.024917	Y
7	STD7AP 500-638287/17	2000.0	51.610341	53.43	636641.0	0.025805	Y



Calibration

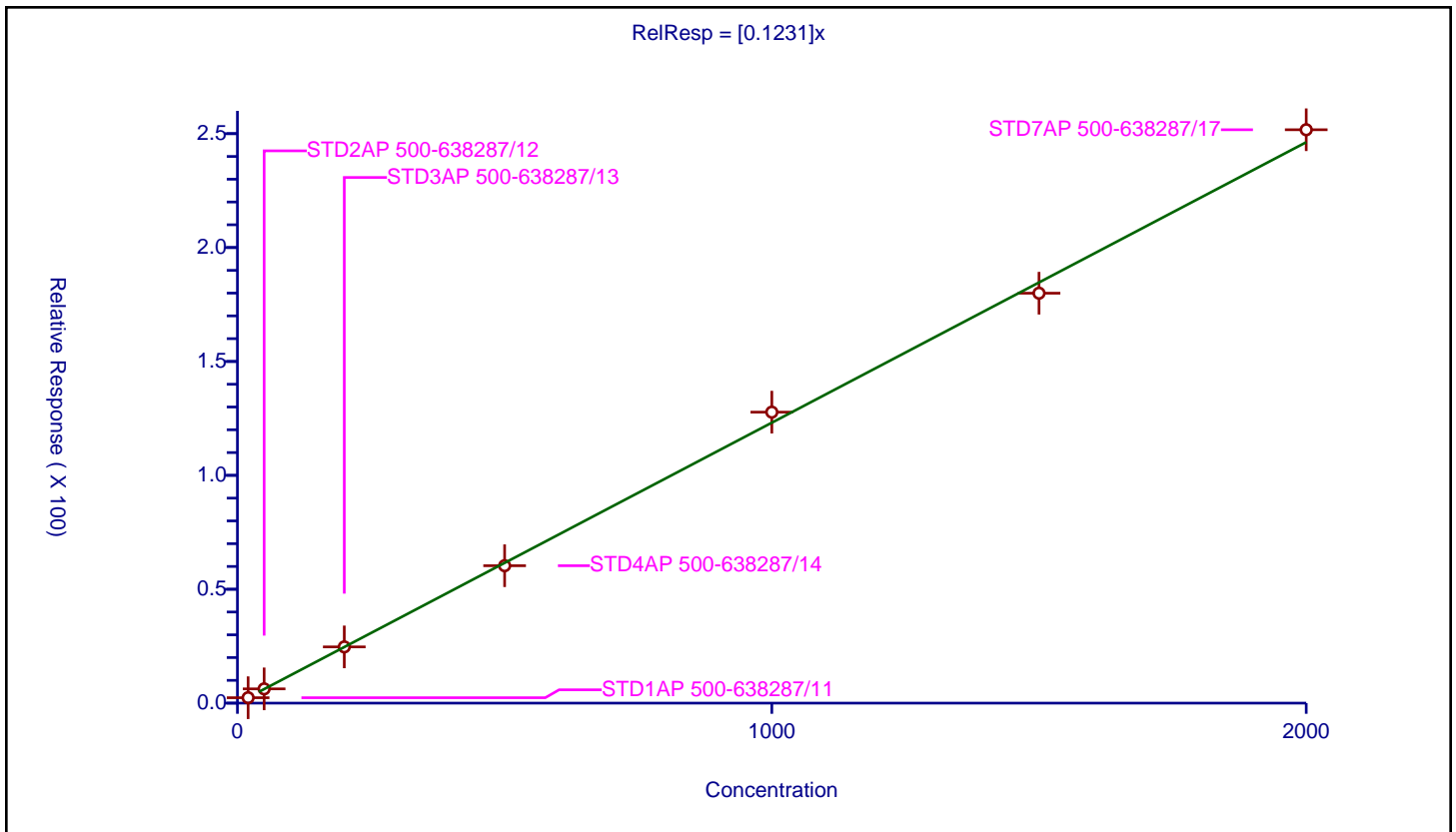
/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1231

Error Coefficients	
Standard Error:	1630000
Relative Standard Error:	2.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	20.0	2.379047	53.43	606651.0	0.118952	Y
2	STD2AP 500-638287/12	50.0	6.261603	53.43	615397.0	0.125232	Y
3	STD3AP 500-638287/13	200.0	24.683817	53.43	601382.0	0.123419	Y
4	STD4AP 500-638287/14	500.0	60.325306	53.43	597940.0	0.120651	Y
5	STD5AP 500-638287/15	1000.0	127.74086	53.43	615630.0	0.127741	Y
6	STD6AP 500-638287/16	1500.0	179.96441	53.43	614606.0	0.119976	Y
7	STD7AP 500-638287/17	2000.0	251.717815	53.43	636641.0	0.125859	Y



Calibration

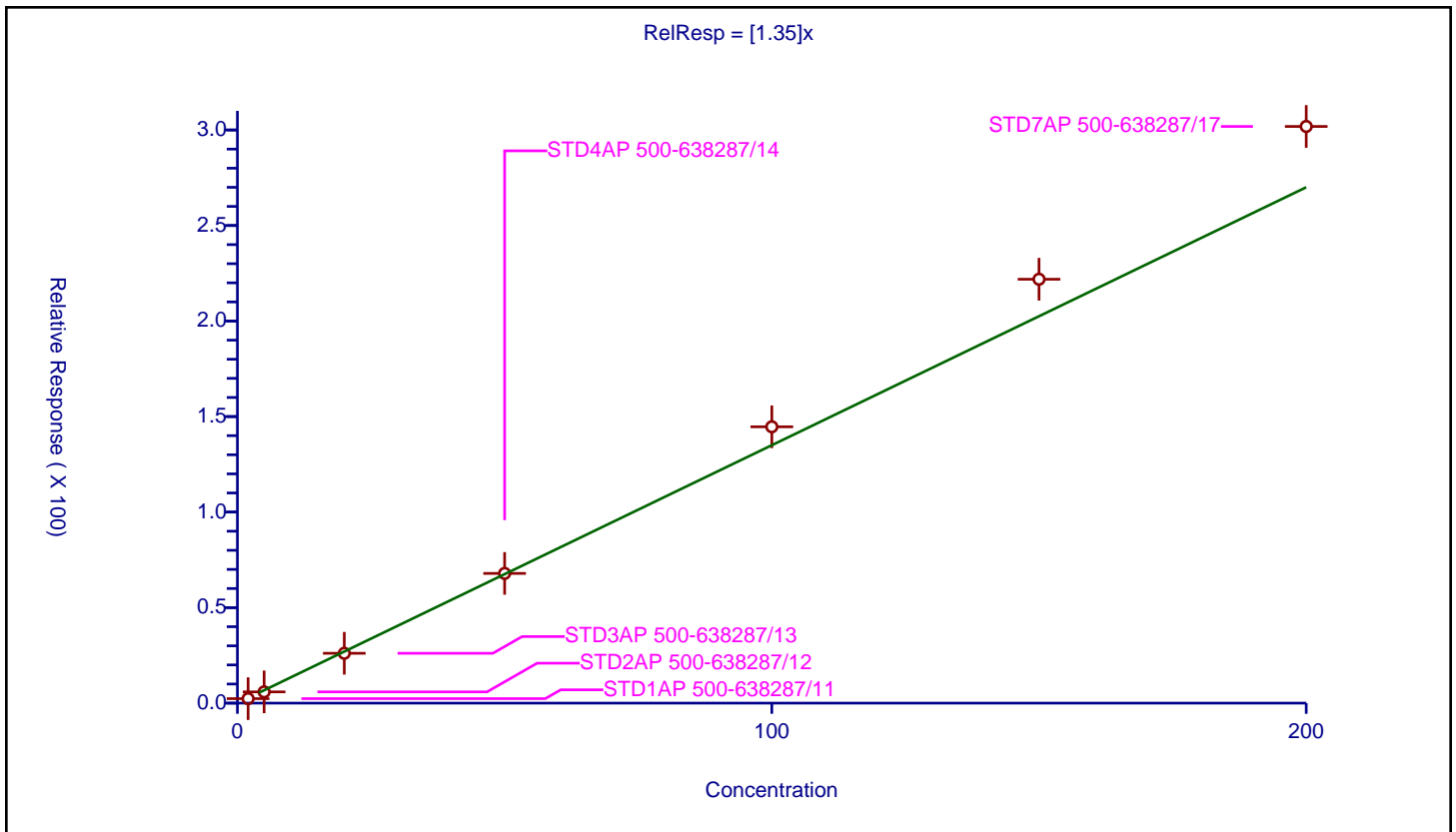
/ Isooctane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.35

Error Coefficients	
Standard Error:	1950000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	2.348045	53.43	606651.0	1.174022	Y
2	STD2AP 500-638287/12	5.0	5.896429	53.43	615397.0	1.179286	Y
3	STD3AP 500-638287/13	20.0	26.085975	53.43	601382.0	1.304299	Y
4	STD4AP 500-638287/14	50.0	67.893201	53.43	597940.0	1.357864	Y
5	STD5AP 500-638287/15	100.0	144.649902	53.43	615630.0	1.446499	Y
6	STD6AP 500-638287/16	150.0	221.874385	53.43	614606.0	1.479163	Y
7	STD7AP 500-638287/17	200.0	301.843526	53.43	636641.0	1.509218	Y



Calibration

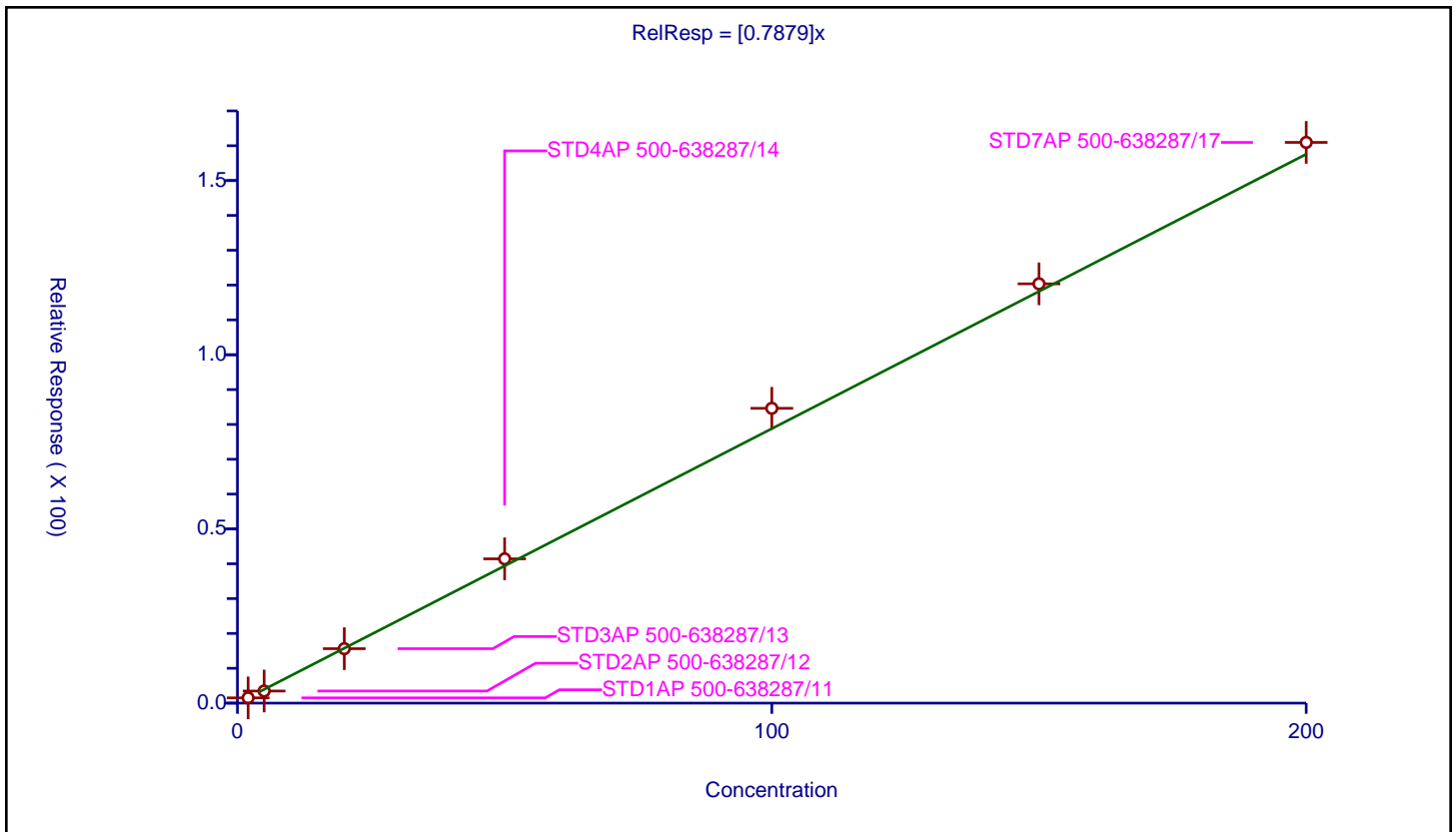
/ Tert-amyl methyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7879

Error Coefficients	
Standard Error:	1060000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	1.512754	53.43	606651.0	0.756377	Y
2	STD2AP 500-638287/12	5.0	3.476613	53.43	615397.0	0.695323	Y
3	STD3AP 500-638287/13	20.0	15.630386	53.43	601382.0	0.781519	Y
4	STD4AP 500-638287/14	50.0	41.414103	53.43	597940.0	0.828282	Y
5	STD5AP 500-638287/15	100.0	84.629569	53.43	615630.0	0.846296	Y
6	STD6AP 500-638287/16	150.0	120.358463	53.43	614606.0	0.80239	Y
7	STD7AP 500-638287/17	200.0	160.953174	53.43	636641.0	0.804766	Y



Calibration

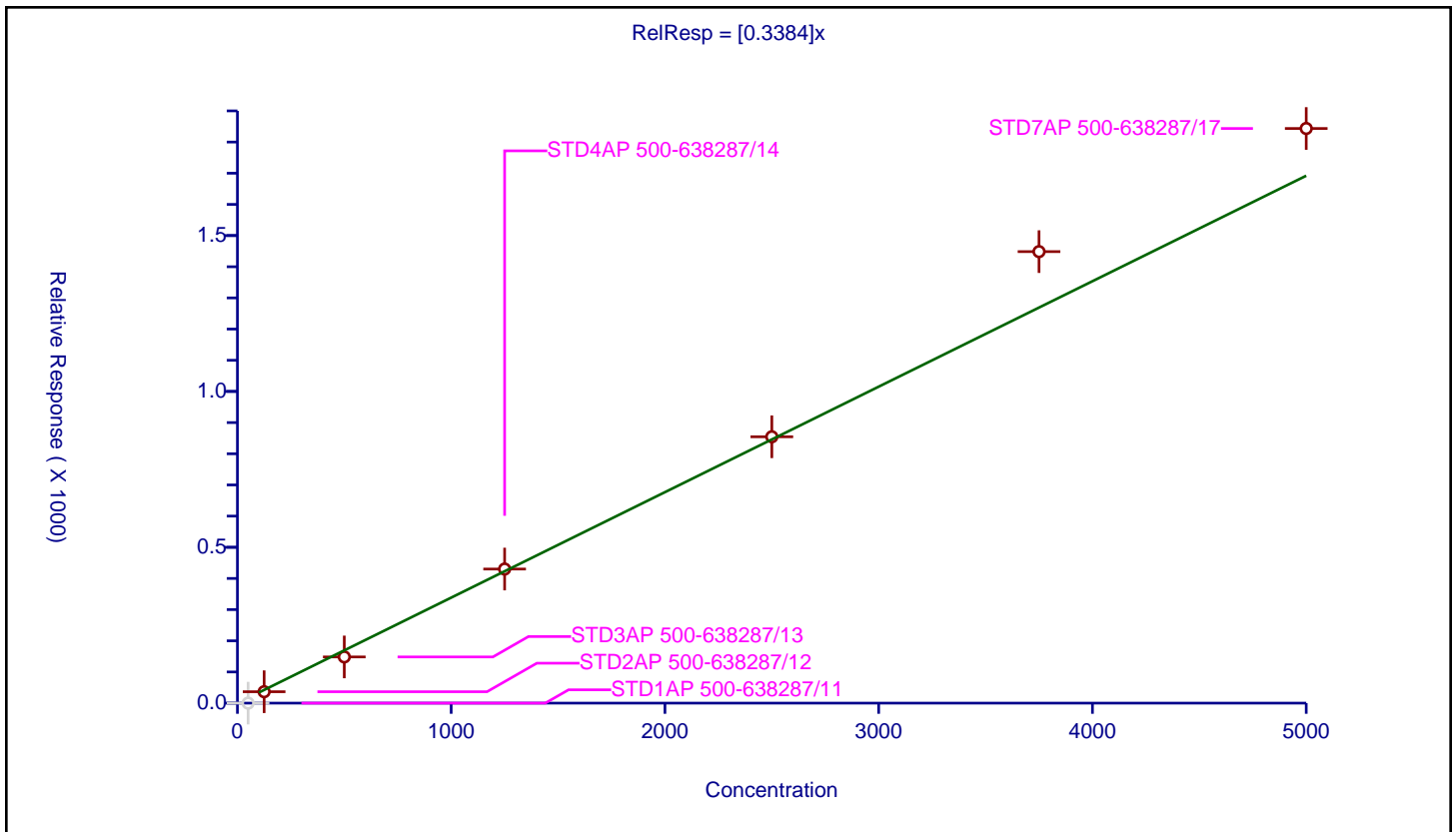
/ n-Butanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3384

Error Coefficients	
Standard Error:	214000
Relative Standard Error:	11.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	50.0	0.0	1068.6	223683.0	0.0	N
2	STD2AP 500-638287/12	125.0	36.625572	1068.6	254972.0	0.293005	Y
3	STD3AP 500-638287/13	500.0	148.219154	1068.6	237001.0	0.296438	Y
4	STD4AP 500-638287/14	1250.0	430.174355	1068.6	213067.0	0.344139	Y
5	STD5AP 500-638287/15	2500.0	854.515303	1068.6	232064.0	0.341806	Y
6	STD6AP 500-638287/16	3750.0	1448.483617	1068.6	186435.0	0.386262	Y
7	STD7AP 500-638287/17	5000.0	1843.543446	1068.6	204163.0	0.368709	Y



Calibration

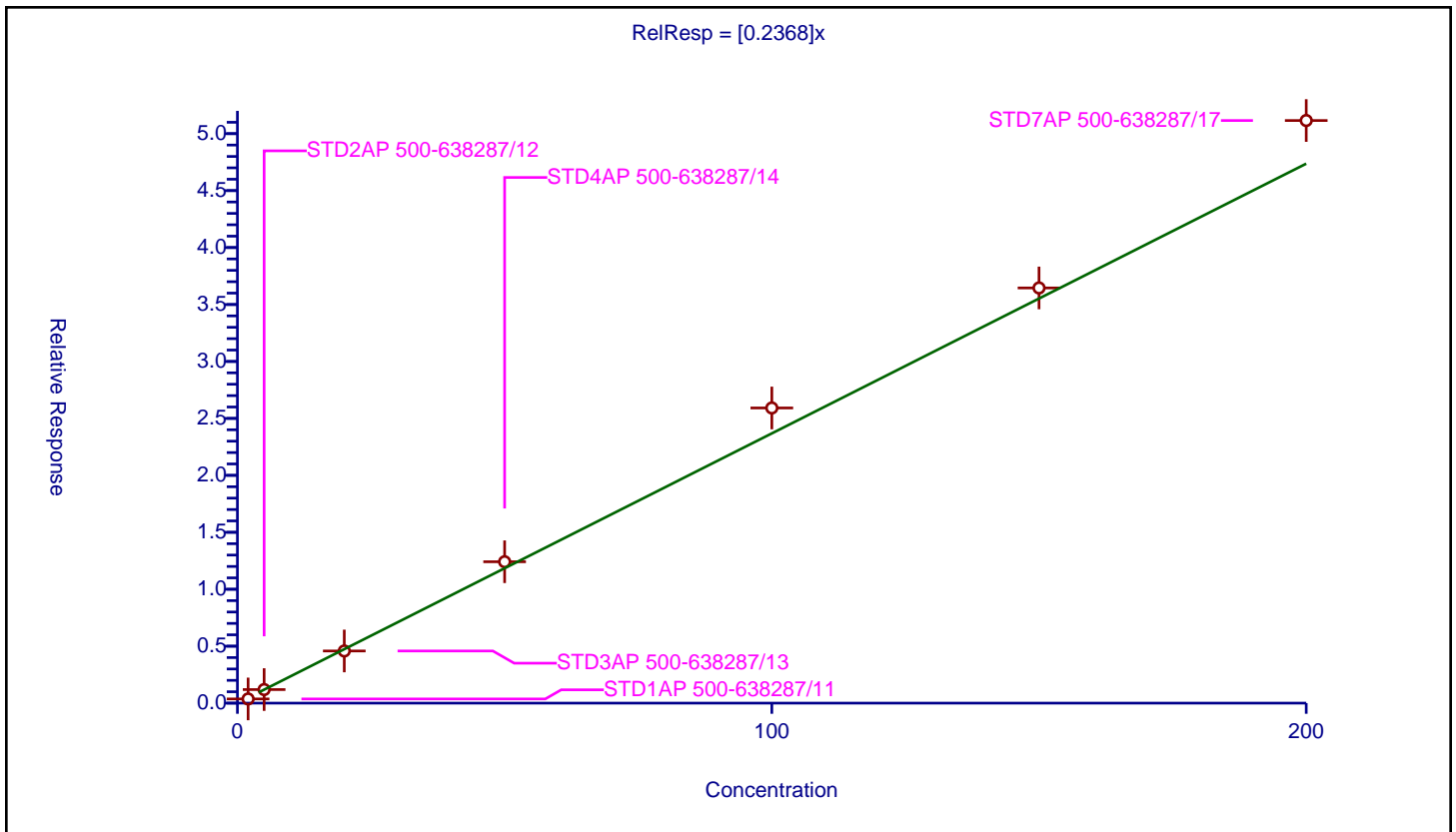
/ Ethyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2368

Error Coefficients	
Standard Error:	331000
Relative Standard Error:	10.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.368588	53.43	606651.0	0.184294	Y
2	STD2AP 500-638287/12	5.0	1.191632	53.43	615397.0	0.238326	Y
3	STD3AP 500-638287/13	20.0	4.579001	53.43	601382.0	0.22895	Y
4	STD4AP 500-638287/14	50.0	12.413535	53.43	597940.0	0.248271	Y
5	STD5AP 500-638287/15	100.0	25.915498	53.43	615630.0	0.259155	Y
6	STD6AP 500-638287/16	150.0	36.454709	53.43	614606.0	0.243031	Y
7	STD7AP 500-638287/17	200.0	51.15421	53.43	636641.0	0.255771	Y



Calibration

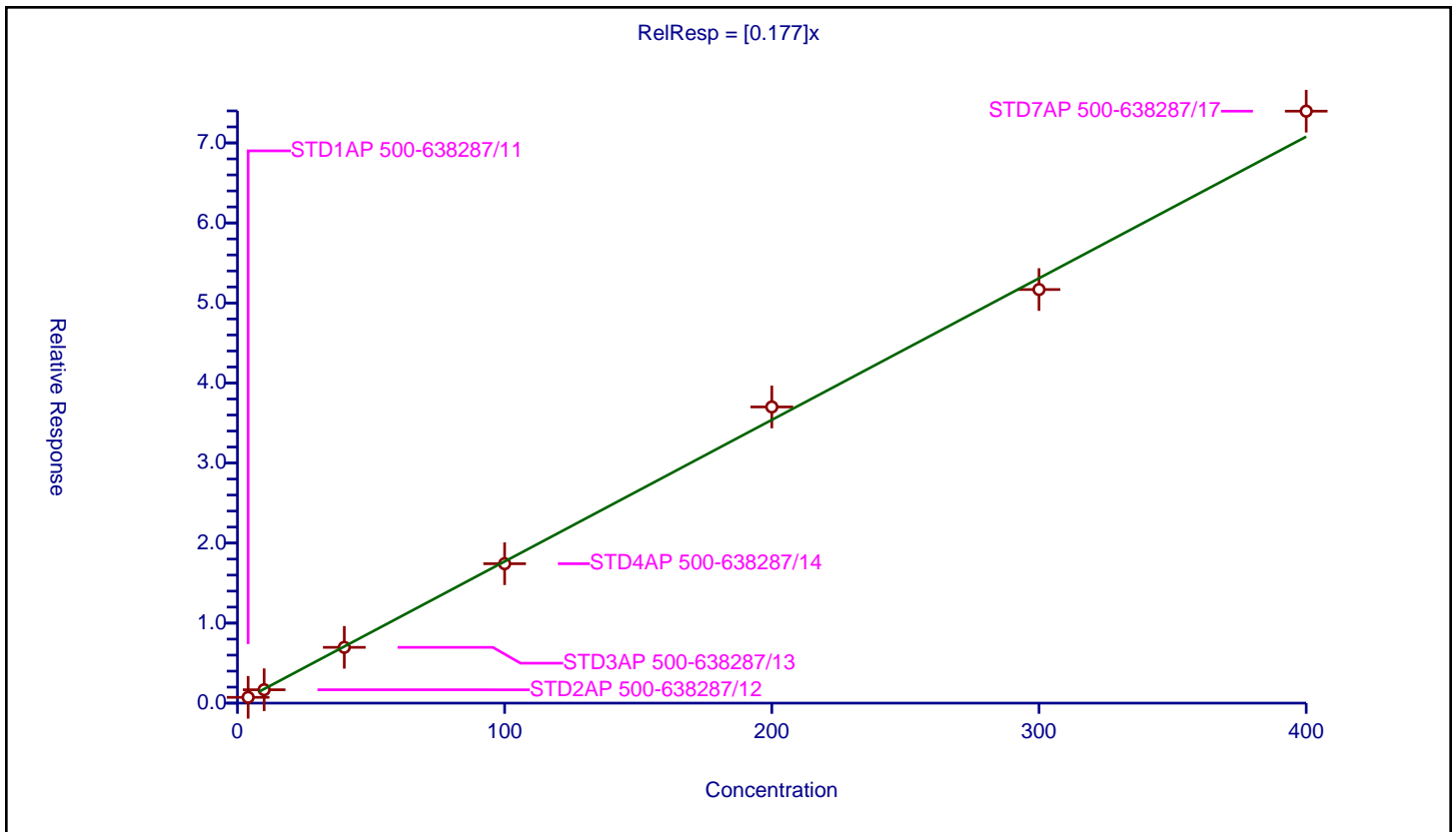
/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.177

Error Coefficients	
Standard Error:	475000
Relative Standard Error:	3.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	4.0	0.722645	53.43	606651.0	0.180661	Y
2	STD2AP 500-638287/12	10.0	1.67332	53.43	615397.0	0.167332	Y
3	STD3AP 500-638287/13	40.0	6.971518	53.43	601382.0	0.174288	Y
4	STD4AP 500-638287/14	100.0	17.418498	53.43	597940.0	0.174185	Y
5	STD5AP 500-638287/15	200.0	37.008106	53.43	615630.0	0.185041	Y
6	STD6AP 500-638287/16	300.0	51.679067	53.43	614606.0	0.172264	Y
7	STD7AP 500-638287/17	400.0	73.966914	53.43	636641.0	0.184917	Y



Calibration

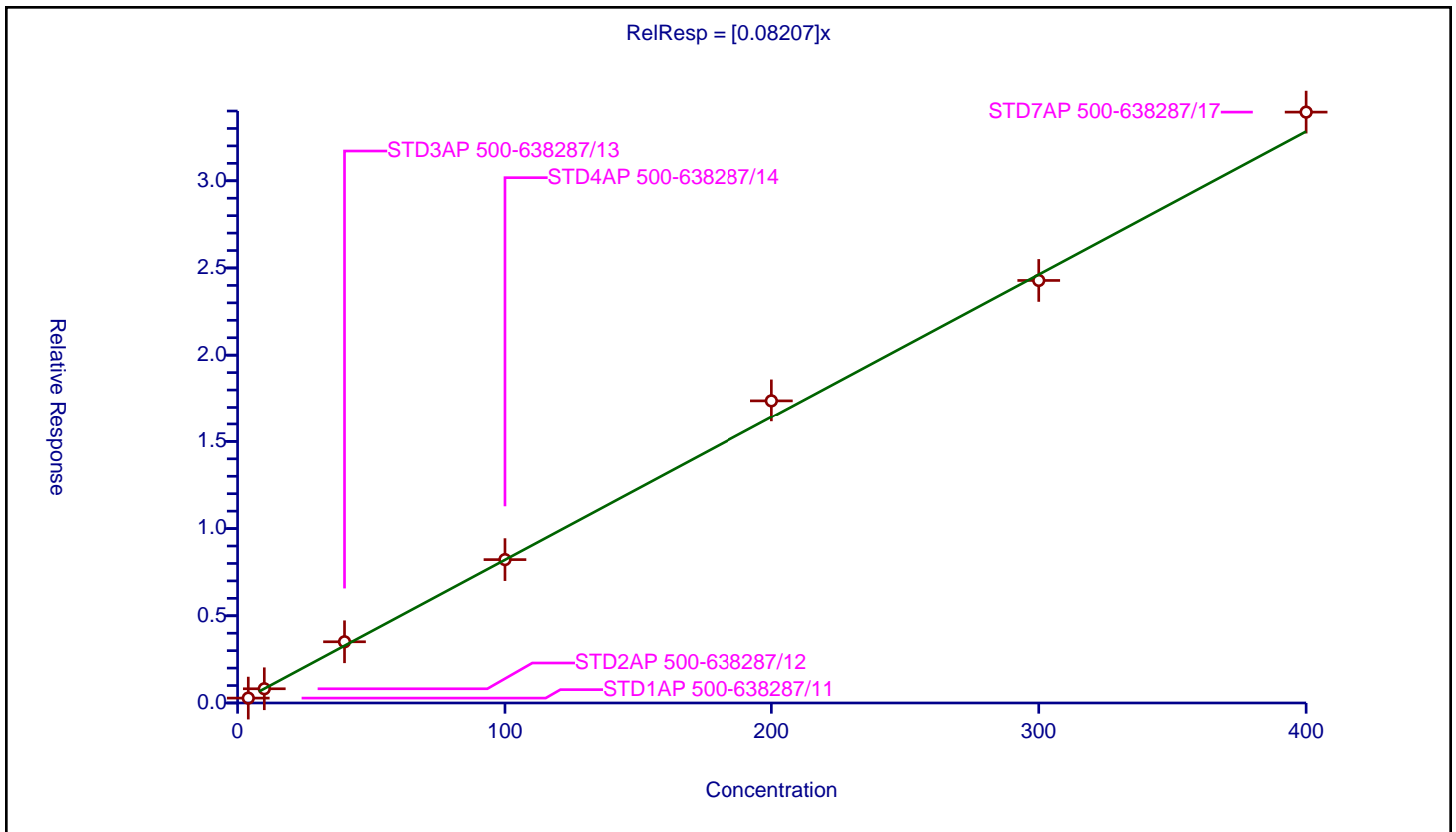
/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08207

Error Coefficients	
Standard Error:	160000
Relative Standard Error:	7.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	4.0	0.281176	53.43	437814.0	0.070294	Y
2	STD2AP 500-638287/12	10.0	0.81562	53.43	452860.0	0.081562	Y
3	STD3AP 500-638287/13	40.0	3.509517	53.43	433756.0	0.087738	Y
4	STD4AP 500-638287/14	100.0	8.221172	53.43	431506.0	0.082212	Y
5	STD5AP 500-638287/15	200.0	17.378944	53.43	449076.0	0.086895	Y
6	STD6AP 500-638287/16	300.0	24.284447	53.43	443555.0	0.080948	Y
7	STD7AP 500-638287/17	400.0	33.93771	53.43	465140.0	0.084844	Y



Calibration

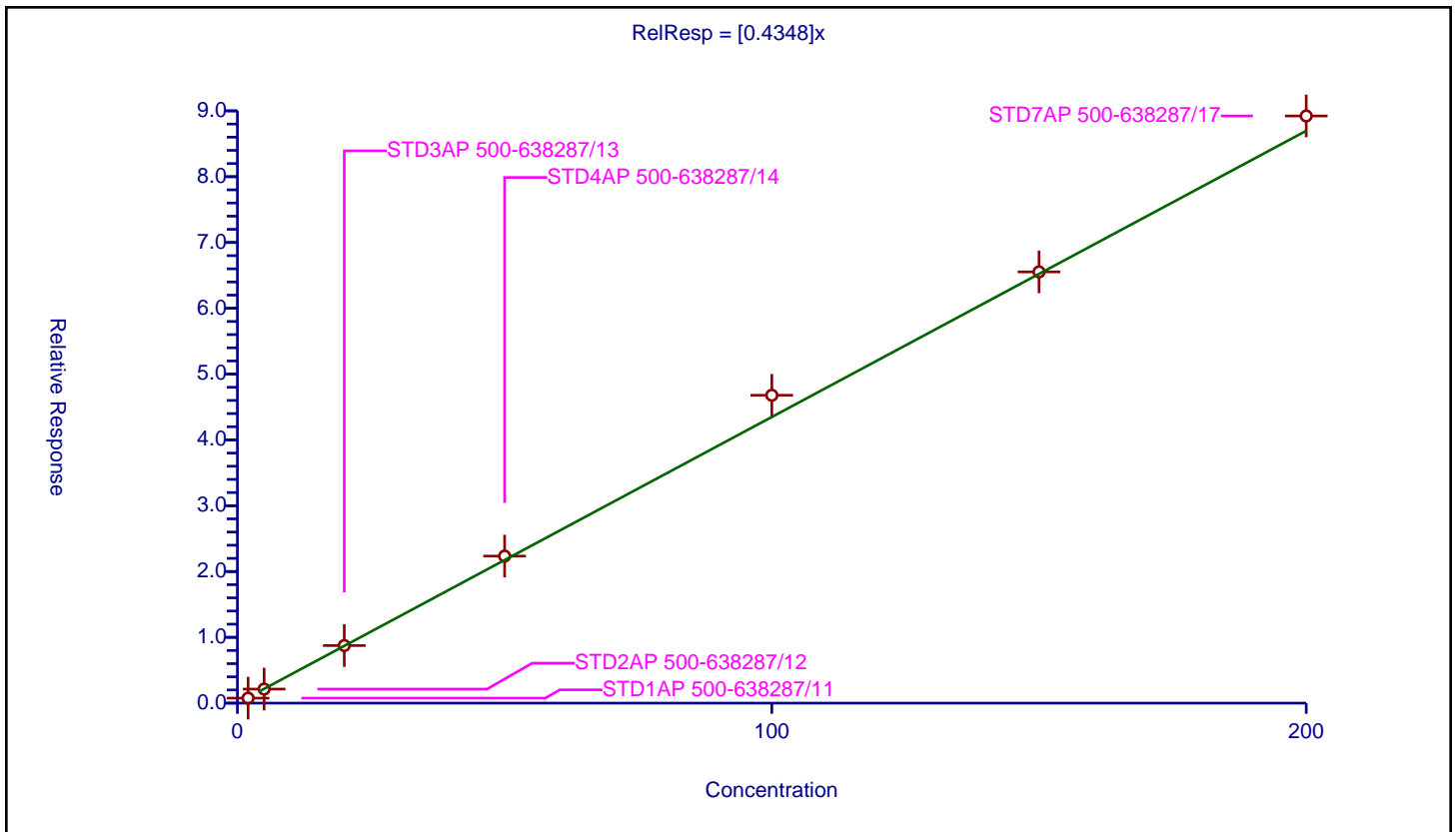
/ n-Butyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4348

Error Coefficients	
Standard Error:	427000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.763471	53.43	437814.0	0.381735	Y
2	STD2AP 500-638287/12	5.0	2.134203	53.43	452860.0	0.426841	Y
3	STD3AP 500-638287/13	20.0	8.749958	53.43	433756.0	0.437498	Y
4	STD4AP 500-638287/14	50.0	22.344202	53.43	431506.0	0.446884	Y
5	STD5AP 500-638287/15	100.0	46.785694	53.43	449076.0	0.467857	Y
6	STD6AP 500-638287/16	150.0	65.534038	53.43	443555.0	0.436894	Y
7	STD7AP 500-638287/17	200.0	89.227319	53.43	465140.0	0.446137	Y



Calibration

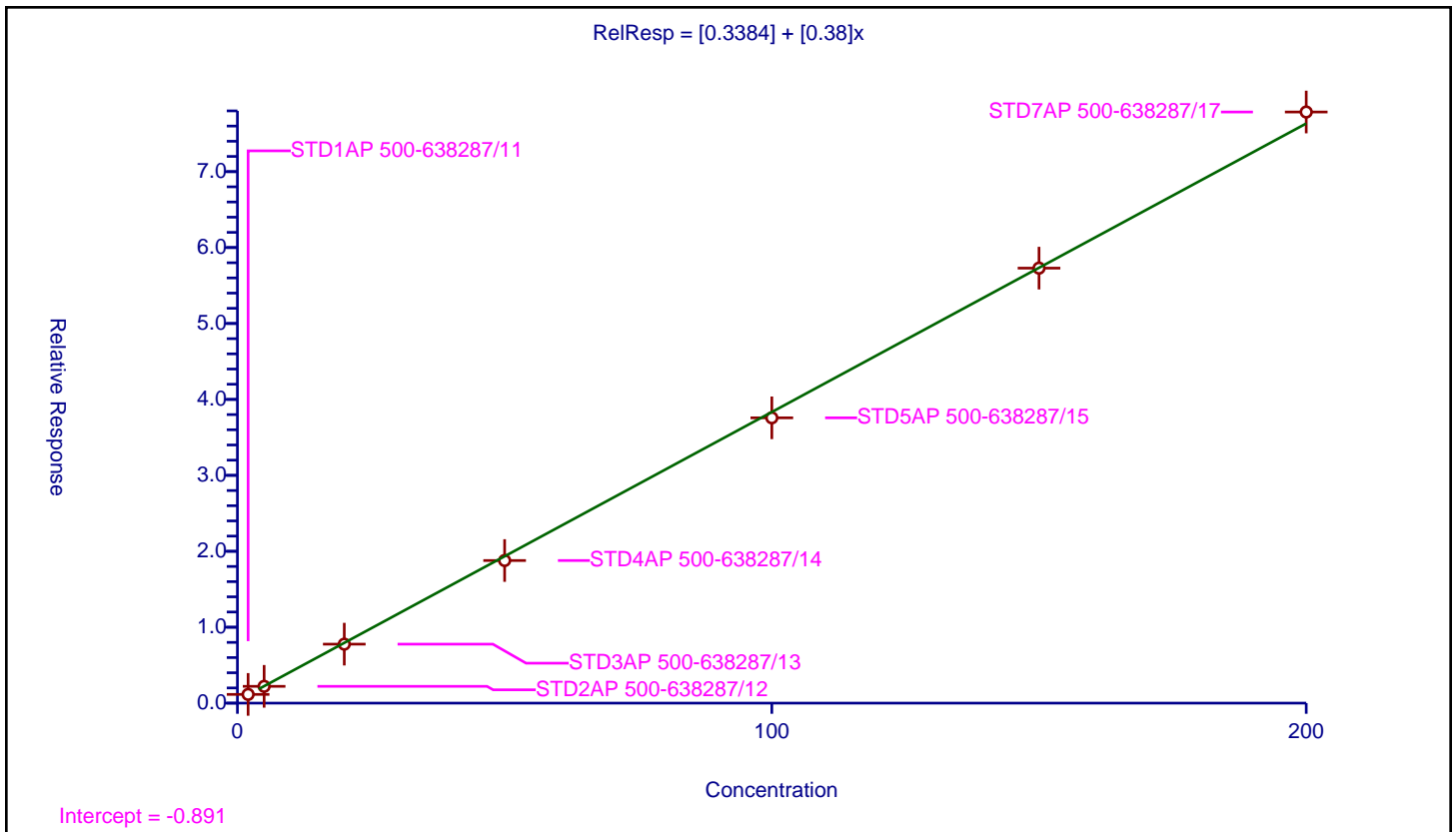
/ 1-Chlorohexane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.3384
Slope:	0.38

Error Coefficients	
Standard Error:	403000
Relative Standard Error:	3.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	1.148989	53.43	437814.0	0.574494	Y
2	STD2AP 500-638287/12	5.0	2.212426	53.43	452860.0	0.442485	Y
3	STD3AP 500-638287/13	20.0	7.766982	53.43	433756.0	0.388349	Y
4	STD4AP 500-638287/14	50.0	18.780724	53.43	431506.0	0.375614	Y
5	STD5AP 500-638287/15	100.0	37.576349	53.43	449076.0	0.375763	Y
6	STD6AP 500-638287/16	150.0	57.290095	53.43	443555.0	0.381934	Y
7	STD7AP 500-638287/17	200.0	77.852452	53.43	465140.0	0.389262	Y



Calibration

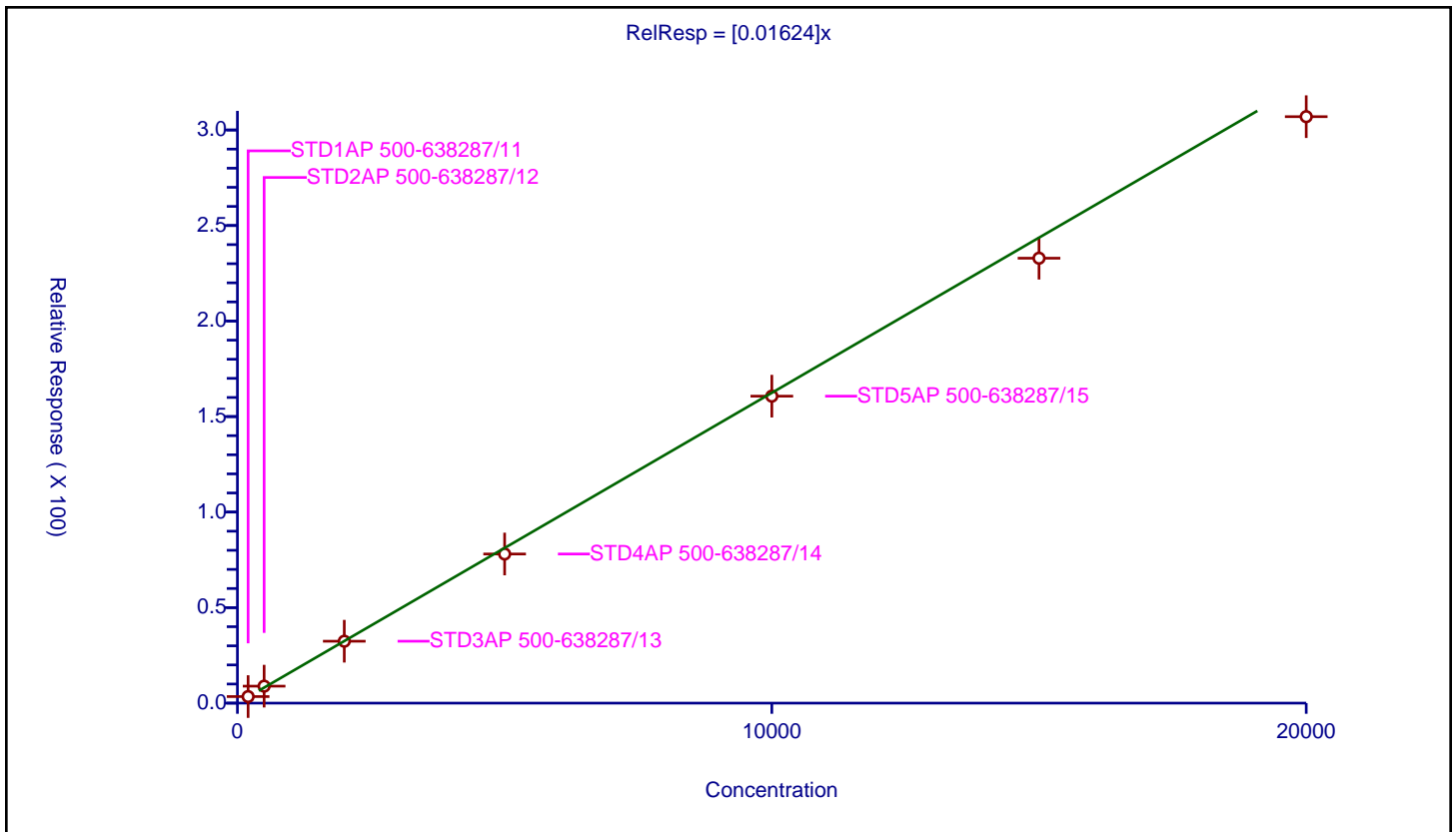
/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01624

Error Coefficients	
Standard Error:	878000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	200.0	3.434856	53.43	266679.0	0.017174	Y
2	STD2AP 500-638287/12	500.0	8.882497	53.43	272657.0	0.017765	Y
3	STD3AP 500-638287/13	2000.0	32.405066	53.43	264020.0	0.016203	Y
4	STD4AP 500-638287/14	5000.0	78.069272	53.43	261342.0	0.015614	Y
5	STD5AP 500-638287/15	10000.0	160.681282	53.43	273239.0	0.016068	Y
6	STD6AP 500-638287/16	15000.0	232.8892	53.43	263337.0	0.015526	Y
7	STD7AP 500-638287/17	20000.0	306.973794	53.43	273213.0	0.015349	Y



Calibration

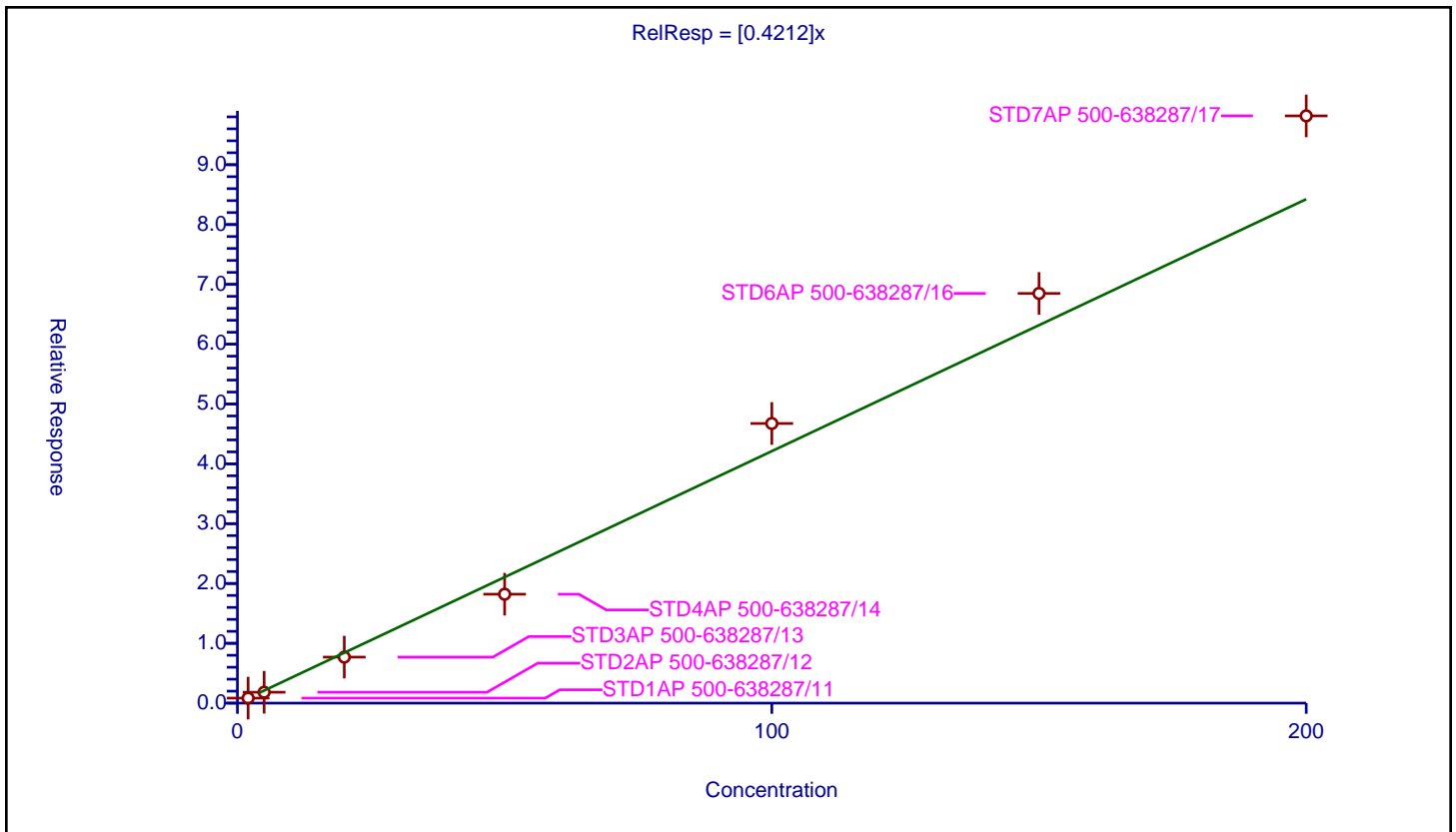
/ Pentachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4212

Error Coefficients	
Standard Error:	268000
Relative Standard Error:	12.3
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.839881	53.43	266679.0	0.41994	Y
2	STD2AP 500-638287/12	5.0	1.824588	53.43	272657.0	0.364918	Y
3	STD3AP 500-638287/13	20.0	7.689694	53.43	264020.0	0.384485	Y
4	STD4AP 500-638287/14	50.0	18.205805	53.43	261342.0	0.364116	Y
5	STD5AP 500-638287/15	100.0	46.744577	53.43	273239.0	0.467446	Y
6	STD6AP 500-638287/16	150.0	68.484876	53.43	263337.0	0.456566	Y
7	STD7AP 500-638287/17	200.0	98.164935	53.43	273213.0	0.490825	Y



Calibration

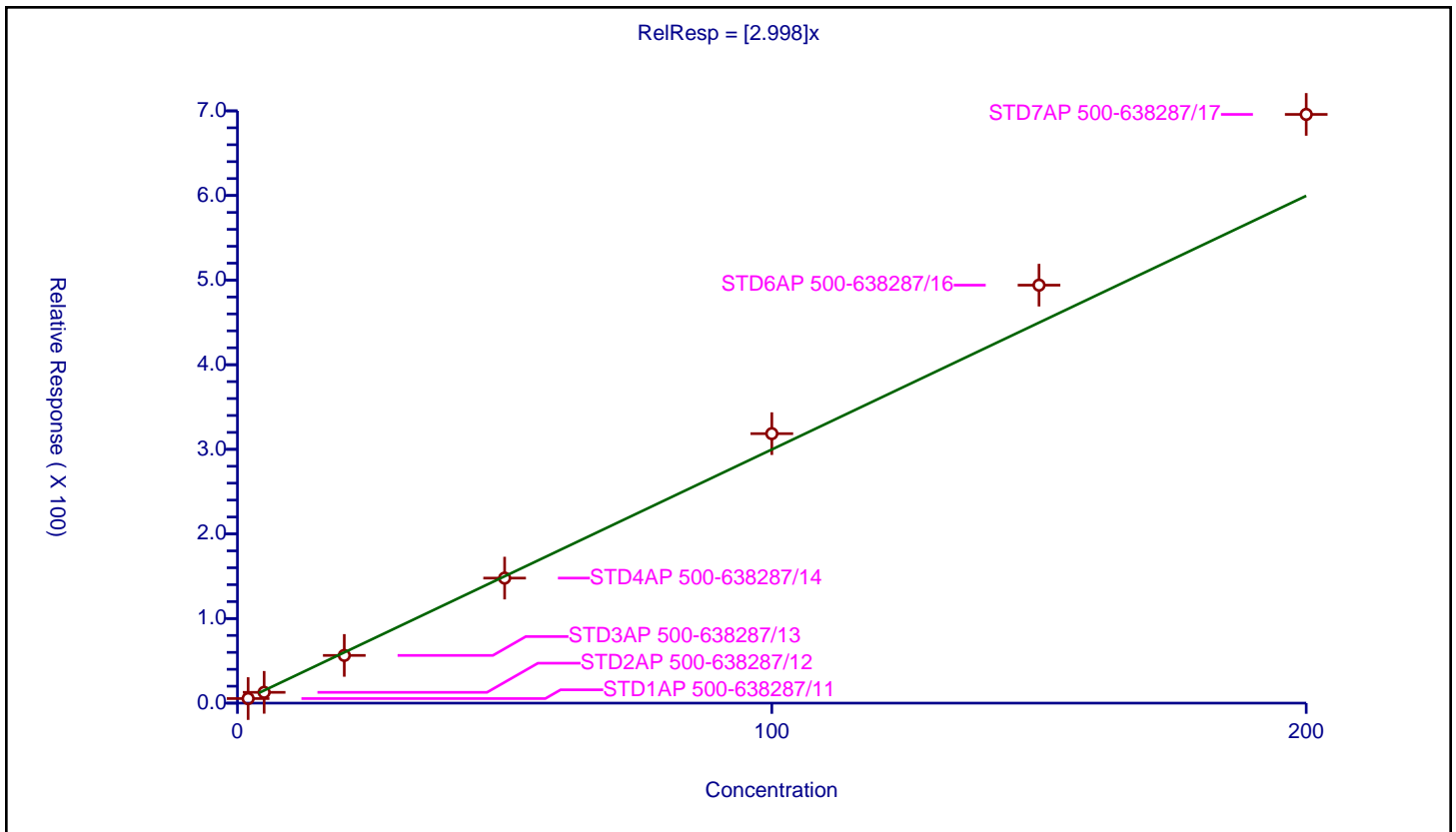
/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.998

Error Coefficients	
Standard Error:	1910000
Relative Standard Error:	11.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	5.396114	53.43	266679.0	2.698057	Y
2	STD2AP 500-638287/12	5.0	12.770549	53.43	272657.0	2.55411	Y
3	STD3AP 500-638287/13	20.0	56.406676	53.43	264020.0	2.820334	Y
4	STD4AP 500-638287/14	50.0	147.796381	53.43	261342.0	2.955928	Y
5	STD5AP 500-638287/15	100.0	318.538139	53.43	273239.0	3.185381	Y
6	STD6AP 500-638287/16	150.0	494.019887	53.43	263337.0	3.293466	Y
7	STD7AP 500-638287/17	200.0	695.856849	53.43	273213.0	3.479284	Y



Calibration

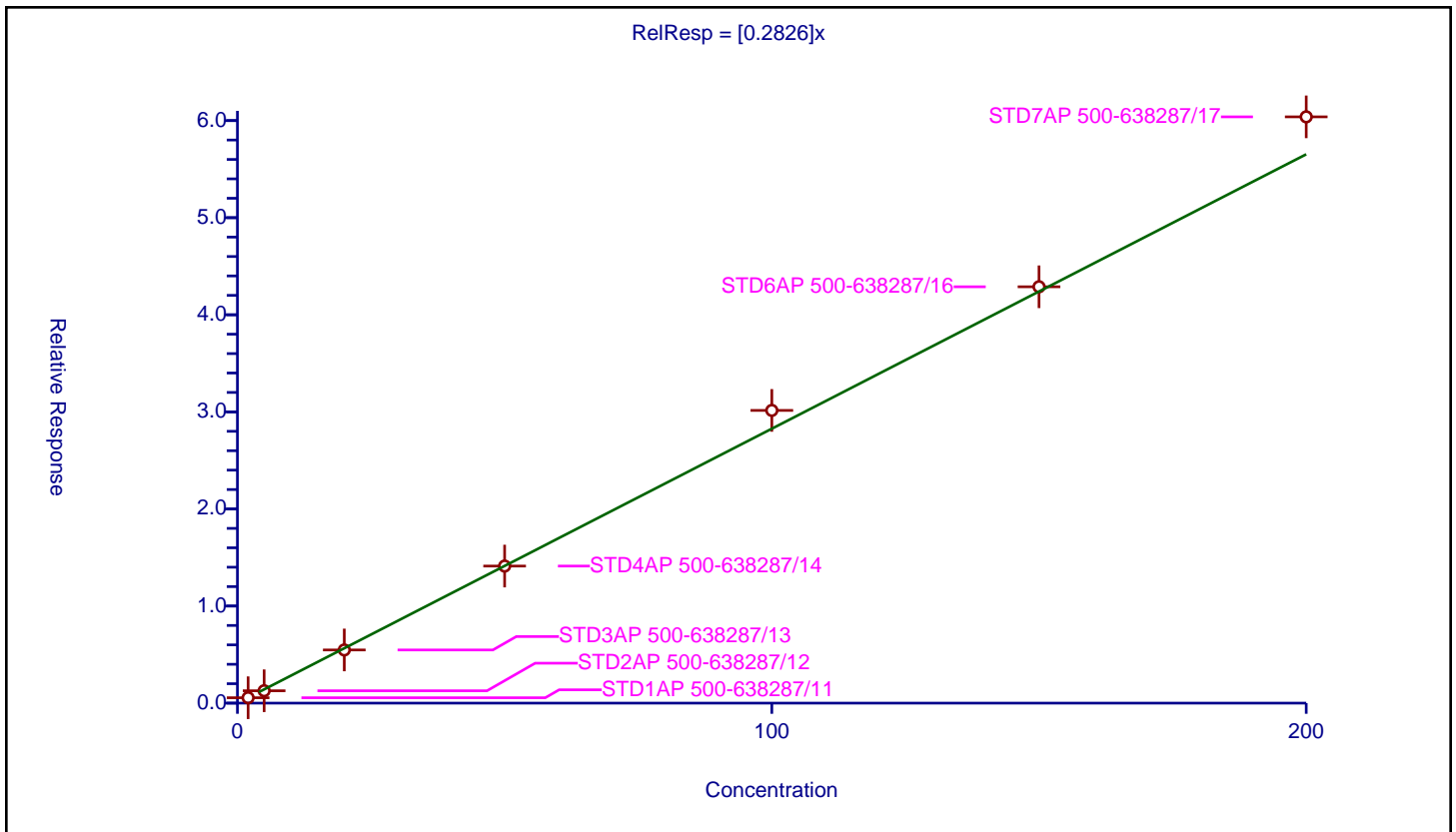
/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2826

Error Coefficients	
Standard Error:	168000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.556381	53.43	266679.0	0.27819	Y
2	STD2AP 500-638287/12	5.0	1.274135	53.43	272657.0	0.254827	Y
3	STD3AP 500-638287/13	20.0	5.47697	53.43	264020.0	0.273848	Y
4	STD4AP 500-638287/14	50.0	14.117523	53.43	261342.0	0.28235	Y
5	STD5AP 500-638287/15	100.0	30.14903	53.43	273239.0	0.30149	Y
6	STD6AP 500-638287/16	150.0	42.883674	53.43	263337.0	0.285891	Y
7	STD7AP 500-638287/17	200.0	60.386325	53.43	273213.0	0.301932	Y



Calibration

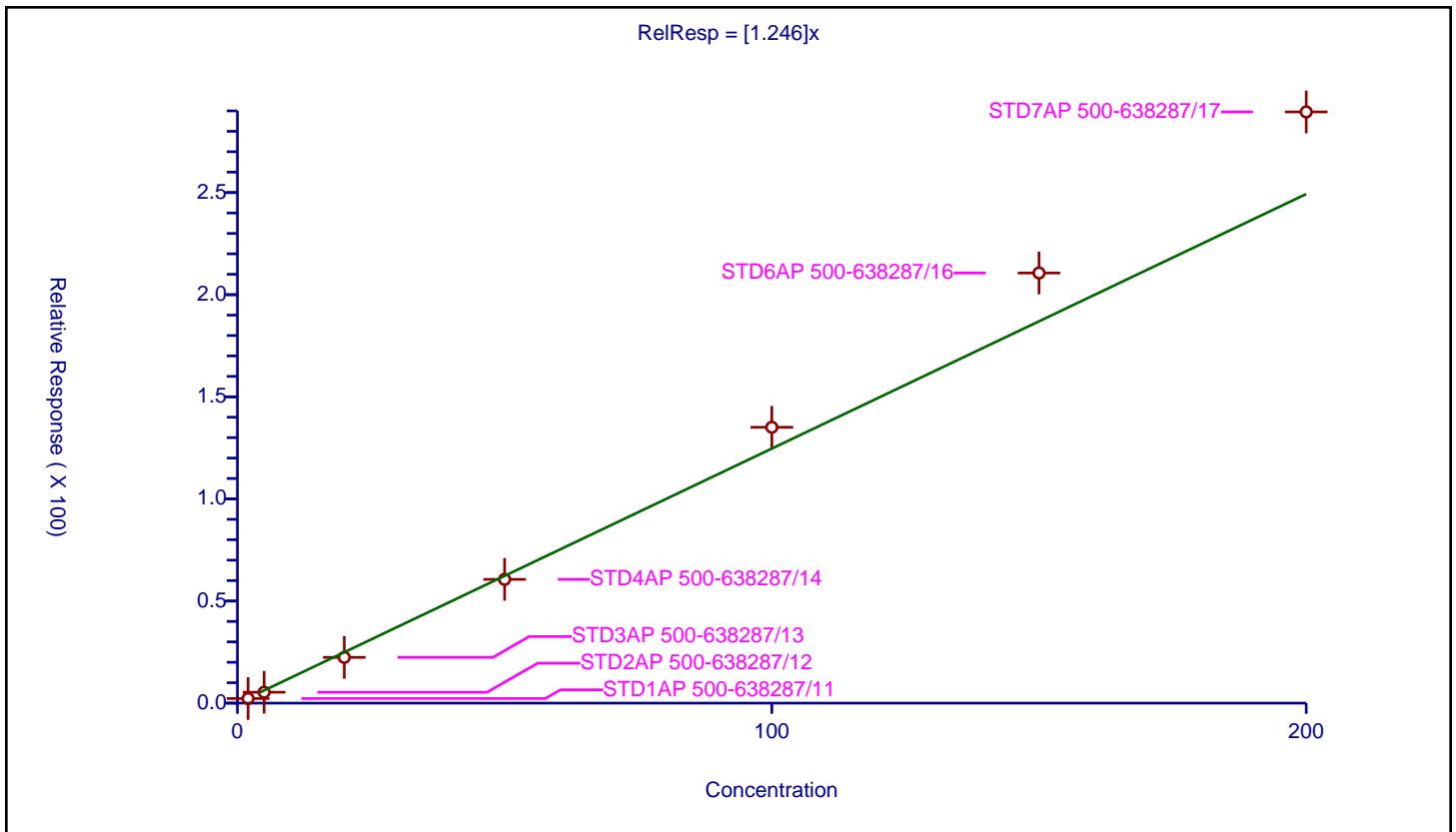
/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.246

Error Coefficients	
Standard Error:	801000
Relative Standard Error:	12.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	2.244157	53.43	266679.0	1.122078	Y
2	STD2AP 500-638287/12	5.0	5.342667	53.43	272657.0	1.068533	Y
3	STD3AP 500-638287/13	20.0	22.397009	53.43	264020.0	1.11985	Y
4	STD4AP 500-638287/14	50.0	60.598242	53.43	261342.0	1.211965	Y
5	STD5AP 500-638287/15	100.0	135.074913	53.43	273239.0	1.350749	Y
6	STD6AP 500-638287/16	150.0	210.632939	53.43	263337.0	1.40422	Y
7	STD7AP 500-638287/17	200.0	289.497227	53.43	273213.0	1.447486	Y



Calibration

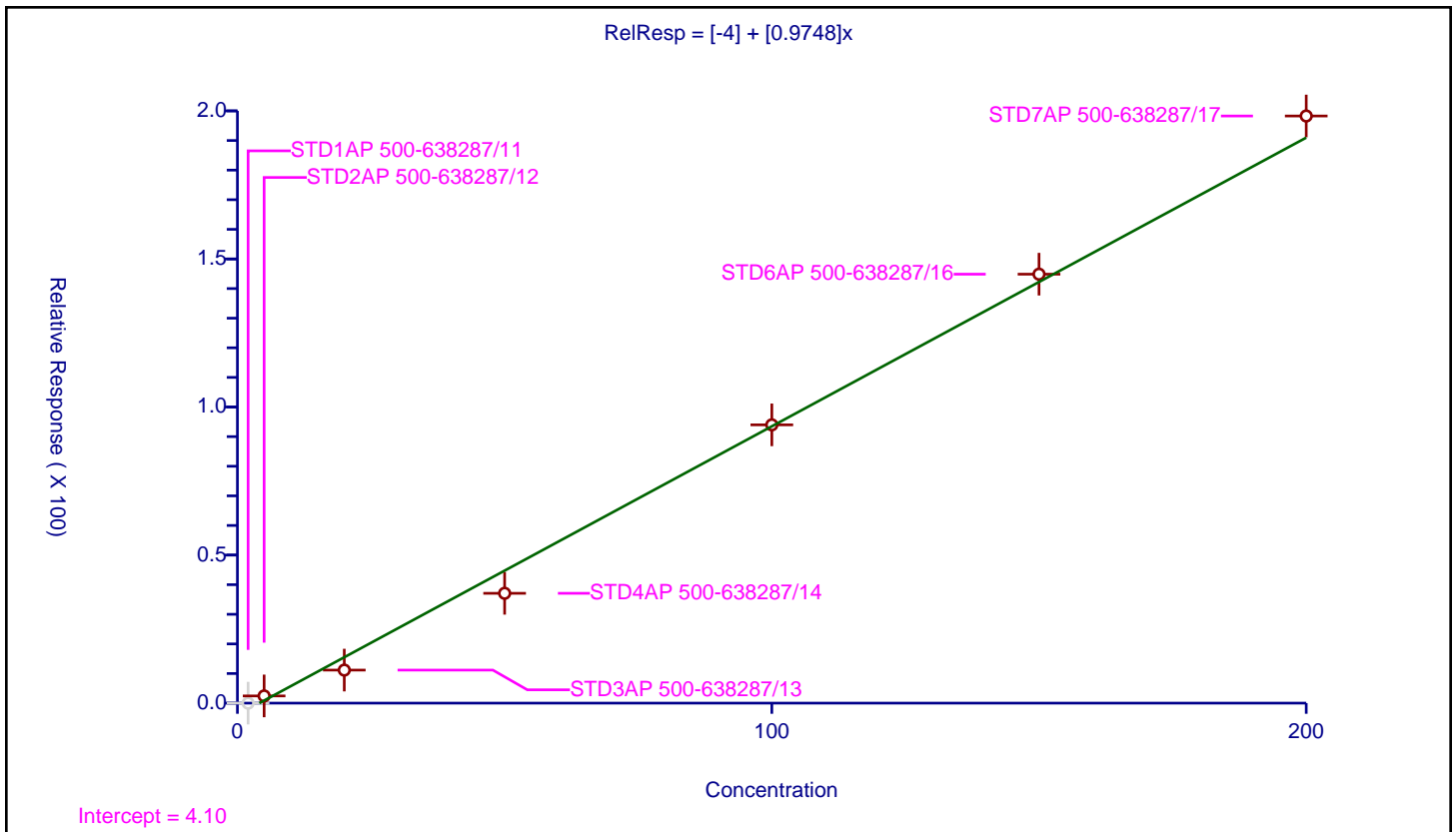
/ 2-Methylnaphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-4
Slope:	0.9748

Error Coefficients	
Standard Error:	672000
Relative Standard Error:	21.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.0	53.43	266679.0	0.0	N
2	STD2AP 500-638287/12	5.0	2.429126	53.43	272657.0	0.485825	Y
3	STD3AP 500-638287/13	20.0	11.156715	53.43	264020.0	0.557836	Y
4	STD4AP 500-638287/14	50.0	37.090776	53.43	261342.0	0.741816	Y
5	STD5AP 500-638287/15	100.0	93.974883	53.43	273239.0	0.939749	Y
6	STD6AP 500-638287/16	150.0	144.852462	53.43	263337.0	0.965683	Y
7	STD7AP 500-638287/17	200.0	198.273754	53.43	273213.0	0.991369	Y



Calibration

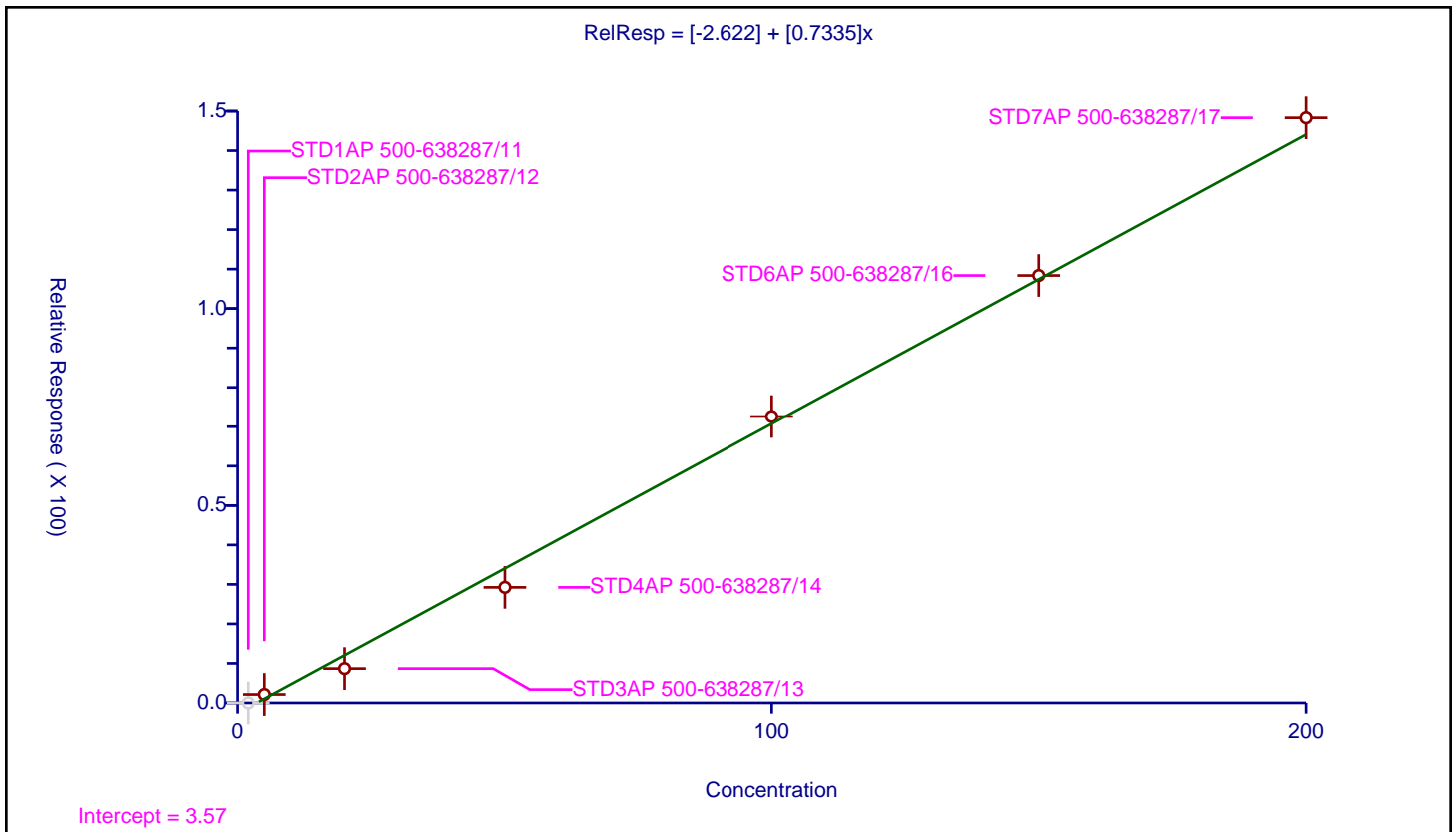
/ 1-Methylnaphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-2.622
Slope:	0.7335

Error Coefficients	
Standard Error:	505000
Relative Standard Error:	20.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1AP 500-638287/11	2.0	0.0	53.43	266679.0	0.0	N
2	STD2AP 500-638287/12	5.0	2.134598	53.43	272657.0	0.42692	Y
3	STD3AP 500-638287/13	20.0	8.686574	53.43	264020.0	0.434329	Y
4	STD4AP 500-638287/14	50.0	29.248275	53.43	261342.0	0.584965	Y
5	STD5AP 500-638287/15	100.0	72.59205	53.43	273239.0	0.725921	Y
6	STD6AP 500-638287/16	150.0	108.372386	53.43	263337.0	0.722483	Y
7	STD7AP 500-638287/17	200.0	148.321819	53.43	273213.0	0.741609	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-667600/27	STD01a.d
Level 2	STD02 500-667600/28	STD02a.d
Level 3	STD03 500-667600/29	STD03a.d
Level 4	STD04 500-667600/30	STD04a.d
Level 5	STD05 500-667600/31	STD05a.d
Level 6	STD06 500-667600/32	STD06a.d
Level 7	STD07 500-667600/9	STD07.d
Level 8	STD08 500-667600/10	STD08.d
Level 9	STD09 500-667600/11	STD09.d
Level 10	STD010 500-667600/12	STD010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2360	0.3621	0.3141 0.3401	0.3016 0.3374	0.2498 0.3308	Ave		0.309 0		0.0100	14.5		15.0				
Chloromethane	0.2627	0.3480	0.3255 0.3231	0.3340 0.3196	0.2705 0.3178	Ave		0.312 7		0.1000	9.6		15.0				
Vinyl chloride	++++ 0.2700	++++ 0.3386	0.3207 0.3050	0.3056 0.3078	0.2632 0.3025	Ave		0.301 7		0.0100	8.2		15.0				
Butadiene	0.2480	0.3286	0.3107 0.2975	0.3036 0.2988	0.2585 0.2931	Ave		0.292 3		0.0100	9.1		15.0				
Bromomethane	0.1882	0.2423	++++ 0.2092	0.2219 0.1897	0.1925 0.1770	Ave		0.203 0		0.0100	11.2		15.0				
Chloroethane	0.1808	0.2098	0.2045 0.1921	0.1898 0.1849	0.1756 0.1788	Ave		0.189 5		0.0100	6.5		15.0				
Dichlorofluoromethane	0.3982	0.4625	0.4418 0.4237	0.4910 0.4187	0.4020 0.4085	Ave		0.430 8		0.0100	7.5		15.0				
Trichlorofluoromethane	0.3913	0.4733	0.4653 0.4338	0.4642 0.4373	0.4022 0.4292	Ave		0.437 1		0.0100	6.8		15.0				
Ethyl ether	0.1238	0.1283	0.1655 0.1197	0.1444 0.1248	0.1240 0.1223	Ave		0.131 6		0.0100	11.9		15.0				
Acrolein	0.0131	0.0134	0.0127 0.0128	0.0137 0.0136	0.0121 0.0133	Ave		0.013 1		0.0010	4.0		15.0				
1,1-Dichloroethene	0.2414	0.2690	0.2857 0.2527	0.3060 0.2545	0.2588 0.2504	Ave		0.264 8		0.0100	8.1		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2716	0.2978	0.3217 0.2805	0.3125 0.2824	0.2870 0.2823	Ave		0.292 0		0.0100	5.9		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Acetone	0.0262	0.0238	++++ 0.0234	++++ 0.0236	0.0316 0.0238	Ave		0.025 4		0.0100	12.7		15.0				
Iodomethane	0.4352	0.4780	0.5109 0.4493	0.5448 0.4598	0.4454 0.4548	Ave		0.472 3		0.0100	7.9		15.0				
Carbon disulfide	0.8404	0.9528	1.0355 0.8826	1.0770 0.8804	0.8435 0.8620	Ave		0.921 8		0.0100	9.8		15.0				
3-Chloropropene	0.1583	0.1718	0.1937 0.1706	0.1985 0.1657	0.1617 0.1644	Ave		0.173 1		0.0100	8.6		15.0				
Methyl acetate	0.0684	0.0671	0.1018 0.0626	0.0870 0.0649	0.0682 0.0657	Lin1	0.075 9	0.064 7		0.0100				0.9990		0.9900	
Methylene Chloride	0.2396	0.2717	++++ 0.2367	++++ 0.2319	0.2986 0.2271	Ave		0.250 9		0.0100	11.2		15.0				
tert-Butyl alcohol	1.1648	1.1763	++++ 1.1287	1.3643 1.1512	1.1380 1.1534	Ave		1.182 4		0.0100	6.9		15.0				
Acrylonitrile	0.0348	0.0361	0.0437 0.0331	0.0459 0.0344	0.0357 0.0336	Ave		0.037 2		0.0010	13.0		15.0				
Methyl tert-butyl ether	0.3955	0.3969	0.4371 0.3689	0.4537 0.3783	0.4002 0.3708	Ave		0.400 2		0.0100	7.7		15.0				
trans-1,2-Dichloroethene	0.2767	0.2964	0.3200 0.2751	0.3615 0.2801	0.2746 0.2756	Ave		0.295 0		0.0100	10.6		15.0				
Hexane	0.4506	0.5011	0.6777 0.4677	0.6411 0.4640	0.5021 0.4592	Lin1	0.254 4	0.463 5		0.0100				0.9990		0.9900	
1,1-Dichloroethane	0.4480	0.4758	0.5183 0.4466	0.5270 0.4514	0.4508 0.4408	Ave		0.469 8		0.1000	7.3		15.0				
Vinyl acetate	0.2202	0.2794	0.2392 0.2466	0.2603 0.2492	0.2296 0.2195	Ave		0.243 0		0.0100	8.4		15.0				
2,2-Dichloropropane	0.3595	0.4029	0.4718 0.3602	0.4822 0.3473	0.3854 0.3400	Ave		0.393 6		0.0100	14.0		15.0				
cis-1,2-Dichloroethene	0.2644	0.2874	0.3368 0.2688	0.3555 0.2691	0.2855 0.2662	Ave		0.291 7		0.0100	12.0		15.0				
2-Butanone (MEK)	0.0340	0.0376	++++ 0.0350	++++ 0.0364	0.0360 0.0357	Ave		0.035 8		0.0100	3.5		15.0				
Bromochloromethane	0.1080	0.1116	0.1371 0.1053	0.1451 0.1087	0.1125 0.1061	Ave		0.116 8		0.0100	13.2		15.0				
Tetrahydrofuran	0.0251	0.0242	++++ 0.0231	0.0411 0.0236	0.0360 0.0231	Lin1	0.088 3	0.023 1		0.0100				0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Chloroform	0.4012	0.4284	++++ 0.4031	0.5899 0.4076	0.4168 0.3950	Lin1	0.301 6	0.400 5		0.0100				0.9990		0.9900	
1,1,1-Trichloroethane	0.4016	0.4426	0.4726 0.4077	0.4975 0.4108	0.4112 0.3971	Ave		0.430 1		0.0100	8.6		15.0				
Cyclohexane	0.4915	0.5626	0.5743 0.5110	0.6041 0.5105	0.5074 0.4965	Ave		0.532 3		0.0100	7.9		15.0				
1,1-Dichloropropene	0.3600	0.3951	0.4251 0.3721	0.4392 0.3711	0.3690 0.3615	Ave		0.386 6		0.0100	7.8		15.0				
Carbon tetrachloride	0.3856	0.4250	0.4208 0.3958	0.4701 0.3976	0.4012 0.3902	Ave		0.410 8		0.0100	6.7		15.0				
Isobutyl alcohol	0.5479	0.5439	++++ 0.5265	0.7264 0.5307	0.5415 0.5225	Ave		0.562 8		0.0010	12.9		15.0				
Benzene	1.2704 1.0112	1.1222 1.0656	1.1926 1.0000	1.1933 1.0164	1.0570 0.9874	Ave		1.091 6		0.0100	9.0		15.0				
1,2-Dichloroethane	0.2167	0.2259	0.2652 0.2158	0.2769 0.2198	0.2239 0.2161	Ave		0.232 5		0.0100	10.4		15.0				
Heptane	0.4138	0.4651	0.5584 0.4334	0.5455 0.4304	0.4539 0.4256	Ave		0.465 8		0.0100	12.0		15.0				
Trichloroethene	++++ 0.2950	0.3294 0.3193	0.3518 0.3058	0.3531 0.3068	0.3092 0.3082	Ave		0.319 8		0.0100	6.5		15.0				
Methylcyclohexane	0.5395	0.6055	0.6449 0.5481	0.6642 0.5421	0.5421 0.5355	Ave		0.577 7		0.0100	9.1		15.0				
1,2-Dichloropropane	0.2088	0.2269	0.2559 0.2134	0.2516 0.2180	0.2261 0.2112	Ave		0.226 5		0.0100	8.0		15.0				
Dibromomethane	0.0912	0.0924	0.1036 0.0877	0.1230 0.0902	0.0989 0.0876	Ave		0.096 8		0.0100	12.3		15.0				
1,4-Dioxane	1.1656	1.1180	++++ 1.0241	1.6365 1.0200	1.1097 0.9613	Lin1	26.32 4	0.999 1		0.0010				0.9970		0.9900	
Dichlorobromomethane	0.2536	0.2656	0.3021 0.2556	0.3416 0.2634	0.2663 0.2597	Ave		0.276 0		0.0100	11.1		15.0				
2-Chloroethyl vinyl ether	0.1040	0.1177	0.1067 0.1128	0.1357 0.1112	0.1199 0.1138	Ave		0.115 2		0.0100	8.5		15.0				
cis-1,3-Dichloropropene	0.4653	0.4907	0.4862 0.4812	0.5603 0.4870	0.4689 0.4735	Ave		0.489 1		0.0100	6.2		15.0				
methyl isobutyl ketone	0.1192	0.1309	++++ 0.1274	++++ 0.1222	0.1222 0.1222	Ave		0.124 0		0.0100	3.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Toluene	1.5366 0.9407	1.1659 1.0188	1.1346 0.9813	1.1641 0.9853	0.9731 0.9622	Lin1	0.141 7	0.975 9		0.0100				1.0000		0.9900	
trans-1,3-Dichloropropene	0.3490	0.3584	0.4046 0.3495	0.4229 0.3561	0.3652 0.3515	Ave		0.369 7		0.0100	7.6		15.0				
Ethyl methacrylate	0.2331	0.2224	0.3258 0.2113	0.2951 0.2147	0.2546 0.2072	Lin1	0.153 2	0.211 2		0.0100				0.9990		0.9900	
1,1,2-Trichloroethane	0.1783	0.1870	0.2382 0.1743	0.2612 0.1782	0.1929 ++++	Lin1	0.094 8	0.177 3		0.0100				0.9990		0.9900	
Tetrachloroethene	0.4284	0.4755	0.5037 0.4535	0.5377 0.4485	0.4357 0.4402	Ave		0.465 4		0.0100	8.2		15.0				
1,3-Dichloropropane	0.3165	0.3234	0.3710 0.3082	0.3807 0.3149	0.3274 0.3075	Ave		0.331 2		0.0100	8.6		15.0				
2-Hexanone	0.0809	0.0810	++++ 0.0770	++++ 0.0734	0.0866 0.0742	Ave		0.078 8		0.0100	6.3		15.0				
Chlorodibromomethane	0.2429	0.2600	0.3283 0.2525	0.2836 0.2550	0.2497 0.2509	Ave		0.265 4		0.0100	10.6		15.0				
Ethylene Dibromide	0.1794	0.1785	0.2249 0.1694	0.2295 0.1728	0.1833 0.1706	Ave		0.188 5		0.0100	12.9		15.0				
Chlorobenzene	0.9930	1.0412	1.1701 1.0026	1.2093 1.0064	1.0318 0.9967	Ave		1.056 4		0.3000	8.0		15.0				
1,1,1,2-Tetrachloroethane	0.3523	0.3799	0.3836 0.3597	0.4349 0.3612	0.3585 0.3562	Ave		0.373 3		0.0100	7.3		15.0				
Ethylbenzene	0.8764 0.5908	0.6538 0.6374	0.7429 0.6090	0.7361 0.6035	0.5971 0.5897	Ave		0.663 7		0.0100	14.2		15.0				
m&p-Xylene	1.9059 1.3564	1.6398 1.4717	1.6386 1.4059	1.6380 1.3939	1.4081 1.3635	Ave		1.522 2		0.0100	11.7		15.0				
o-Xylene	1.9242 1.3971	1.5643 1.5174	1.5735 1.4354	1.7052 1.4408	1.3587 1.4041	Ave		1.532 1		0.0100	11.3		15.0				
Styrene	1.0676	1.1459	1.2273 1.1054	1.3539 1.1111	1.0894 1.0998	Ave		1.150 1		0.0100	8.3		15.0				
Bromoform	0.1322	0.1382	0.1549 0.1341	0.1583 0.1371	0.1350 0.1333	Ave		0.140 4		0.1000	7.3		15.0				
Isopropylbenzene	3.7908	4.0728	4.3002 3.8719	4.4237 3.9549	3.8256 3.9210	Ave		4.020 1		0.0100	5.7		15.0				
Bromobenzene	0.7536	0.7890	0.8942 0.7431	0.9834 0.7667	0.7802 0.7638	Ave		0.809 3		0.0100	10.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,2,2-Tetrachloroethane	0.3628	0.3666	0.5202 0.3342	0.4683 0.3509	0.3804 0.3344	Lin1	0.216 8	0.341 2		0.3000				0.9990		0.9900	
1,2,3-Trichloropropane	0.1130	0.1119	0.1212 0.1018	0.1400 0.1062	0.1207 0.1023	Ave		0.114 6		0.0100	11.0		15.0				
trans-1,4-Dichloro-2-butene	0.1073	0.1071	++++ 0.0990	0.1598 0.1003	0.1251 0.0971	Lin1	0.134 8	0.098 4		0.0100				0.9990		0.9900	
N-Propylbenzene	4.3622	4.7349	4.9424 4.3439	5.3909 4.3111	4.5405 4.2741	Ave		4.612 5		0.0100	8.5		15.0				
2-Chlorotoluene	2.3593	2.5166	2.7536 2.3240	2.9318 2.3385	2.4342 2.3184	Ave		2.497 1		0.0100	9.1		15.0				
1,3,5-Trimethylbenzene	3.0896	3.3943	3.5653 3.1560	3.5782 3.1869	3.1483 3.2099	Ave		3.291 1		0.0100	5.9		15.0				
4-Chlorotoluene	2.6223	2.8177	3.0968 2.6214	3.2037 2.6741	2.7500 2.6305	Ave		2.802 1		0.0100	8.1		15.0				
tert-Butylbenzene	2.9383	3.2530	3.3151 3.0448	3.2153 3.0538	2.9016 3.0699	Ave		3.099 0		0.0100	4.8		15.0				
1,2,4-Trimethylbenzene	3.0915	3.3683	3.7126 3.1605	3.5780 3.1782	3.1060 3.1632	Ave		3.294 8		0.0100	7.1		15.0				
sec-Butylbenzene	4.3632	4.7529	4.8719 4.4293	5.0267 4.4400	4.3952 4.4400	Ave		4.589 9		0.0100	5.6		15.0				
1,3-Dichlorobenzene	1.6306	1.7070	1.9968 1.6042	1.9398 1.6397	1.6862 1.6366	Ave		1.730 1		0.0100	8.7		15.0				
p-Isopropyltoluene	3.7396	4.1236	4.1957 3.8106	4.2724 3.8320	3.7657 3.8455	Ave		3.948 1		0.0100	5.4		15.0				
1,4-Dichlorobenzene	1.5408	1.6479	2.0070 1.5764	1.9955 1.5836	1.6398 1.5772	Ave		1.696 0		0.0100	11.3		15.0				
n-Butylbenzene	3.3430	3.6011	3.8439 3.2339	3.9935 3.1319	3.3509 3.1493	Ave		3.455 9		0.0100	9.4		15.0				
1,2-Dichlorobenzene	1.3842	1.4620	1.7283 1.3831	1.7190 1.3945	1.4380 1.3987	Ave		1.488 5		0.0100	9.9		15.0				
1,2-Dibromo-3-Chloropropane	0.0608	0.0578	++++ 0.0527	0.0713 0.0537	0.0699 0.0524	Ave		0.059 8		0.0100	13.3		15.0				
1,2,4-Trichlorobenzene	0.9871	1.0069	1.2293 0.8567	1.2169 0.8250	1.0496 0.8462	Lin1	0.648 5	0.857 0		0.0100				0.9960		0.9900	
Hexachlorobutadiene	0.6560	0.6682	0.7477 0.5578	0.7679 0.5351	0.6436 0.5365	Ave		0.639 1		0.0100	14.2		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Naphthalene	1.5093	1.4948	1.9957 1.3178	2.0349 1.2990	1.5328 +++++	Lin1	1.026 9	1.335 6		0.0100				0.9970		0.9900	
1,2,3-Trichlorobenzene	0.7856	0.7975	0.9005 0.6874	1.0687 +++++	0.7911 +++++	Lin1	0.383 0	0.724 8		0.0100				0.9940		0.9900	
Dibromofluoromethane	0.1982	0.2312	0.2248	0.2349 0.2238	0.2346 0.2257	Ave		0.224 7		0.0100	5.6		15.0				
1,2-Dichloroethane-d4 (Surr)	0.1591	0.1786	0.1736	0.1965 0.1737	0.1939 0.1767	Ave		0.178 8		0.0100	7.2		15.0				
Toluene-d8 (Surr)	1.2320	1.4662	1.4485	1.4229 1.4339	1.5137 1.4392	Ave		1.422 3		0.0100	6.3		15.0				
4-Bromofluorobenzene (Surr)	0.7255	0.8312	0.8358	0.8704 0.8417	0.9124 0.8327	Ave		0.835 7		0.0100	6.8		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-667600/27	STD01a.d
Level 2	STD02 500-667600/28	STD02a.d
Level 3	STD03 500-667600/29	STD03a.d
Level 4	STD04 500-667600/30	STD04a.d
Level 5	STD05 500-667600/31	STD05a.d
Level 6	STD06 500-667600/32	STD06a.d
Level 7	STD07 500-667600/9	STD07.d
Level 8	STD08 500-667600/10	STD08.d
Level 9	STD09 500-667600/11	STD09.d
Level 10	STD010 500-667600/12	STD010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave			3553	6258	13952			1.00	2.00	5.00
			53016	213767	414511	634788	837586	20.0	50.0	100	150	200
Chloromethane	FB	Ave			3682	6931	15107			1.00	2.00	5.00
			59027	205438	393903	601312	804819	20.0	50.0	100	150	200
Vinyl chloride	FB	Ave	++++	++++	3627	6343	14702	++++	++++	1.00	2.00	5.00
			60671	199874	371748	579026	765965	20.0	50.0	100	150	200
Butadiene	FB	Ave			3514	6300	14436			1.00	2.00	5.00
			55730	193959	362640	562101	742195	20.0	50.0	100	150	200
Bromomethane	FB	Ave			++++	4605	10752			++++	2.00	5.00
			42291	143054	255010	356949	448162	20.0	50.0	100	150	200
Chloroethane	FB	Ave			2313	3939	9806			1.00	2.00	5.00
			40618	123862	234139	347860	452806	20.0	50.0	100	150	200
Dichlorofluoromethane	FB	Ave			4997	10189	22454			1.00	2.00	5.00
			89474	273063	516486	787804	1034337	20.0	50.0	100	150	200
Trichlorofluoromethane	FB	Ave			5263	9634	22466			1.00	2.00	5.00
			87913	279401	528787	822756	1086691	20.0	50.0	100	150	200
Ethyl ether	FB	Ave			1872	2996	6924			1.00	2.00	5.00
			27812	75764	145858	234715	309606	20.0	50.0	100	150	200
Acrolein	FB	Ave			5759	11399	27031			40.0	80.0	200
			117808	315345	625348	1019830	1345777	800	2000	4000	6000	8000
1,1-Dichloroethene	FB	Ave			3231	6350	14454			1.00	2.00	5.00
			54238	158789	308092	478892	634018	20.0	50.0	100	150	200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave			3639	6486	16027			1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			61027	175810	341909	531364	714743	20.0	50.0	100	150	200
Acetone	FB	Ave	5897	14046	28514	44331	60183	20.0	50.0	100	150	200
Iodomethane	FB	Ave	97793	282167	547621	865100	1151718	20.0	50.0	100	150	200
Carbon disulfide	FB	Ave	188832	562466	1075835	1656507	2182711	20.0	50.0	100	150	200
3-Chloropropene	FB	Ave	35579	101438	207999	311827	416304	20.0	50.0	100	150	200
Methyl acetate	FB	Lin1	30720	79211	152629	244077	332742	40.0	100	200	300	400
Methylene Chloride	FB	Ave	53837	160419	288490	436343	575073	20.0	50.0	100	150	200
tert-Butyl alcohol	TBAd 9	Ave	16946	43359	84596	134691	188114	200	500	1000	1500	2000
Acrylonitrile	FB	Ave	78172	212862	404067	647657	851176	200	500	1000	1500	2000
Methyl tert-butyl ether	FB	Ave	88871	234326	449711	711854	938907	20.0	50.0	100	150	200
trans-1,2-Dichloroethene	FB	Ave	62161	175000	335305	527094	697754	20.0	50.0	100	150	200
Hexane	FB	Lin1	101249	295799	570106	872944	1162792	20.0	50.0	100	150	200
1,1-Dichloroethane	FB	Ave	100670	280865	544329	849212	1116056	20.0	50.0	100	150	200
Vinyl acetate	FB	Ave	49476	164958	300572	468938	555900	20.0	50.0	100	150	200
2,2-Dichloropropane	FB	Ave	80780	237827	439069	653372	860967	20.0	50.0	100	150	200
cis-1,2-Dichloroethene	FB	Ave	59399	169689	327672	506354	674084	20.0	50.0	100	150	200
2-Butanone (MEK)	FB	Ave	7632	22216	42634	68468	90300	20.0	50.0	100	150	200
Bromochloromethane	FB	Ave	24268	65898	128297	204490	268588	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	
Tetrahydrofuran	FB	Lin1	11289	28591	56295	88987	1706	4026	40.0	100	200	300	400
Chloroform	FB	Lin1	90153	252898	491363	766880	12241	23281	20.0	50.0	100	150	200
1,1,1-Trichloroethane	FB	Ave	90227	261268	496992	772984	5346	10324	20.0	50.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	110442	332140	622904	960580	6496	12536	20.0	50.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	80888	233225	453585	698295	4808	9114	20.0	50.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	86638	250878	482420	747985	4760	9755	20.0	50.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 9	Ave	19927	50122	98664	155214	2577	5028	500	1250	2500	3750	5000
Benzene	FB	Ave	3316	6344	13490	24765	59035	0.250	0.500	1.00	2.00	5.00	
1,2-Dichloroethane	FB	Ave	48682	133367	263037	413462	3000	5746	20.0	50.0	1.00	2.00	5.00
Heptane	FB	Ave	92974	274573	528265	809700	6316	11320	20.0	50.0	1.00	2.00	5.00
Trichloroethene	FB	Ave	66277	188489	372813	577273	1862	7328	20.0	50.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	121209	357432	668085	1019898	7295	13784	20.0	50.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	46923	133952	260157	410136	2894	5221	20.0	50.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	20489	54525	106923	169802	1172	2552	20.0	50.0	1.00	2.00	5.00
1,4-Dioxane	DXE	Lin1	4567	11053	22639	36276	608	1061	400	1000	2000	3000	4000
Dichlorobromomethane	FB	Ave	56981	156818	311548	495500	3417	7089	20.0	50.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	CBNZ d5	Ave	15372	44811	88052	137946	817	1901	20.0	50.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
cis-1,3-Dichloropropene	CBNZ d5	Ave			3723	7847	17724			1.00	2.00	5.00
			68802	186776	375696	603884	795345	20.0	50.0	100	150	200
methyl isobutyl ketone	CBNZ d5	Ave			+++++	+++++	4619			+++++	+++++	5.00
			17625	49808	99509	151495	205252	20.0	50.0	100	150	200
Toluene	CBNZ d5	Lin1	2609	4323	8688	16303	36781	0.250	0.500	1.00	2.00	5.00
			139092	387783	766205	1221890	1616235	20.0	50.0	100	150	200
trans-1,3-Dichloropropene	CBNZ d5	Ave			3098	5923	13805			1.00	2.00	5.00
			51609	136422	272931	441664	590372	20.0	50.0	100	150	200
Ethyl methacrylate	CBNZ d5	Lin1			2495	4133	9623			1.00	2.00	5.00
			34464	84634	165016	266291	347958	20.0	50.0	100	150	200
1,1,2-Trichloroethane	CBNZ d5	Lin1			1824	3658	7292			1.00	2.00	5.00
			26362	71192	136127	220952	+++++	20.0	50.0	100	150	+++++
Tetrachloroethene	CBNZ d5	Ave			3857	7530	16467			1.00	2.00	5.00
			63341	180997	354136	556202	739480	20.0	50.0	100	150	200
1,3-Dichloropropane	CBNZ d5	Ave			2841	5332	12374			1.00	2.00	5.00
			46802	123101	240681	390566	516482	20.0	50.0	100	150	200
2-Hexanone	CBNZ d5	Ave			+++++	+++++	3274			+++++	+++++	5.00
			11960	30831	60106	91008	124619	20.0	50.0	100	150	200
Chlorodibromomethane	CBNZ d5	Ave			2514	3971	9440			1.00	2.00	5.00
			35922	98972	197132	316230	421379	20.0	50.0	100	150	200
Ethylene Dibromide	CBNZ d5	Ave			1722	3214	6928			1.00	2.00	5.00
			26525	67948	132238	214341	286502	20.0	50.0	100	150	200
Chlorobenzene	CBNZ d5	Ave			8960	16936	39002			1.00	2.00	5.00
			146827	396312	782854	1248032	1674206	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave			2937	6091	13550			1.00	2.00	5.00
			52097	144589	280832	447974	598262	20.0	50.0	100	150	200
Ethylbenzene	CBNZ d5	Ave	1488	2424	5689	10309	22571	0.250	0.500	1.00	2.00	5.00
			87364	242600	475495	748472	990544	20.0	50.0	100	150	200
m&p-Xylene	CBNZ d5	Ave	3236	6080	12547	22940	53223	0.250	0.500	1.00	2.00	5.00
			200559	560173	1097781	1728600	2290271	20.0	50.0	100	150	200
o-Xylene	CBNZ d5	Ave	3267	5800	12049	23881	51355	0.250	0.500	1.00	2.00	5.00
			206580	577547	1120781	1786717	2358548	20.0	50.0	100	150	200
Styrene	CBNZ d5	Ave			9398	18961	41177			1.00	2.00	5.00
			157853	436164	863162	1377879	1847322	20.0	50.0	100	150	200
Bromoform	CBNZ d5	Ave			1186	2217	5101			1.00	2.00	5.00
			19552	52617	104719	170056	223830	20.0	50.0	100	150	200
Isopropylbenzene	DCBd 4	Ave			16466	31663	71919			1.00	2.00	5.00
			285487	807610	1578715	2500434	3327891	20.0	50.0	100	150	200
Bromobenzene	DCBd 4	Ave			3424	7039	14667			1.00	2.00	5.00
			56758	156458	302990	484741	648247	20.0	50.0	100	150	200
1,1,2,2-Tetrachloroethane	DCBd 4	Lin1			1992	3352	7152			1.00	2.00	5.00
			27320	72687	136281	221826	283803	20.0	50.0	100	150	200
1,2,3-Trichloropropane	DCBd 4	Ave			464	1002	2269			1.00	2.00	5.00
			8509	22188	41525	67155	86848	20.0	50.0	100	150	200
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1			+++++	1144	2352			+++++	2.00	5.00
			8079	21247	40362	63415	82443	20.0	50.0	100	150	200
N-Propylbenzene	DCBd 4	Ave			18925	38586	85358			1.00	2.00	5.00
			328525	938905	1771164	2725671	3627546	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Chlorotoluene	DCBd 4	Ave			10544	20985	45762			1.00	2.00	5.00
			177678	499026	947587	1478520	1967743	20.0	50.0	100	150	200
1,3,5-Trimethylbenzene	DCBd 4	Ave			13652	25611	59186			1.00	2.00	5.00
			232683	673073	1286815	2014907	2724379	20.0	50.0	100	150	200
4-Chlorotoluene	DCBd 4	Ave			11858	22931	51698			1.00	2.00	5.00
			197487	558733	1068830	1690661	2232575	20.0	50.0	100	150	200
tert-Butylbenzene	DCBd 4	Ave			12694	23014	54548			1.00	2.00	5.00
			221286	645044	1241487	1930750	2605540	20.0	50.0	100	150	200
1,2,4-Trimethylbenzene	DCBd 4	Ave			14216	25610	58390			1.00	2.00	5.00
			232828	667915	1288663	2009374	2684719	20.0	50.0	100	150	200
sec-Butylbenzene	DCBd 4	Ave			18655	35979	82626			1.00	2.00	5.00
			328595	942478	1805996	2807141	3768361	20.0	50.0	100	150	200
1,3-Dichlorobenzene	DCBd 4	Ave			7646	13884	31700			1.00	2.00	5.00
			122804	338496	654087	1036696	1389013	20.0	50.0	100	150	200
p-Isopropyltoluene	DCBd 4	Ave			16066	30580	70793			1.00	2.00	5.00
			281631	817695	1553692	2422789	3263795	20.0	50.0	100	150	200
1,4-Dichlorobenzene	DCBd 4	Ave			7685	14283	30827			1.00	2.00	5.00
			116042	326775	642759	1001214	1338615	20.0	50.0	100	150	200
n-Butylbenzene	DCBd 4	Ave			14719	28584	62995			1.00	2.00	5.00
			251764	714084	1318553	1980125	2672914	20.0	50.0	100	150	200
1,2-Dichlorobenzene	DCBd 4	Ave			6618	12304	27034			1.00	2.00	5.00
			104246	289913	563942	881671	1187162	20.0	50.0	100	150	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave			+++++	510	1314			+++++	2.00	5.00
			4578	11457	21488	33982	44432	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,4-Trichlorobenzene	DCBd 4	Lin1			4707	8710	19732			1.00	2.00	5.00
			74338	199661	349321	521599	718224	20.0	50.0	100	150	200
Hexachlorobutadiene	DCBd 4	Ave			2863	5496	12100			1.00	2.00	5.00
			49404	132491	227440	338336	455323	20.0	50.0	100	150	200
Naphthalene	DCBd 4	Lin1			7642	14565	28816			1.00	2.00	5.00
			113664	296408	537322	821255	+++++	20.0	50.0	100	150	+++++
1,2,3-Trichlorobenzene	DCBd 4	Lin1			3448	7649	14873			1.00	2.00	5.00
			59161	158139	280274	+++++	+++++	20.0	50.0	100	+++++	+++++
Dibromofluoromethane	FB	Ave			24370	52409				10.0	20.0	
			66809	109189	137010	168397	214297	30.0	40.0	50.0	60.0	75.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave			20387	43321				10.0	20.0	
			53620	84333	105783	130702	167740	30.0	40.0	50.0	60.0	75.0
Toluene-d8 (Surr)	CBNZ d5	Ave			99634	228857				10.0	20.0	
			273251	446459	565513	711275	906513	30.0	40.0	50.0	60.0	75.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave			31149	68609				10.0	20.0	
			81955	131855	170383	212865	265030	30.0	40.0	50.0	60.0	75.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-667600/27	STD01a.d
Level 2	STD02 500-667600/28	STD02a.d
Level 3	STD03 500-667600/29	STD03a.d
Level 4	STD04 500-667600/30	STD04a.d
Level 5	STD05 500-667600/31	STD05a.d
Level 6	STD06 500-667600/32	STD06a.d
Level 7	STD07 500-667600/9	STD07.d
Level 8	STD08 500-667600/10	STD08.d
Level 9	STD09 500-667600/11	STD09.d
Level 10	STD010 500-667600/12	STD010.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Dichlorodifluoromethane	17.2	10.1	1.7 9.2	-2.4 7.1	-19.1	-23.6	30	30	50 30	30 30	30	30
Chloromethane	11.3	3.4	4.1 2.2	6.8 1.7	-13.5	-16.0	30	30	50 30	30 30	30	30
Vinyl chloride	++++ 12.2	++++ 1.1	6.3 2.0	1.3 0.3	-12.7	-10.5	30	30	50 30	30 30	30	30
Butadiene	12.4	1.8	6.3 2.2	3.8 0.3	-11.6	-15.2	30	30	50 30	30 30	30	30
Bromomethane	19.4	3.1	++++ -6.5	9.3 -12.8	-5.2	-7.3	30	30	30	50 30	30	30
Chloroethane	10.7	1.3	7.9 -2.5	0.1 -5.7	-7.4	-4.6	30	30	50 30	30 30	30	30
Dichlorofluoromethane	7.4	-1.6	2.5 -2.8	14.0 -5.2	-6.7	-7.6	30	30	50 30	30 30	30	30
Trichlorofluoromethane	8.3	-0.7	6.5 0.1	6.2 -1.8	-8.0	-10.5	30	30	50 30	30 30	30	30
Ethyl ether	-2.5	-9.1	25.8 -5.2	9.7 -7.1	-5.8	-5.9	30	30	50 30	30 30	30	30
Acrolein	2.1	-2.0	-2.7 3.6	4.9 1.5	-7.5	0.2	30	30	50 30	30 30	30	30
1,1-Dichloroethene	1.6	-4.6	7.9 -3.9	15.6 -5.4	-2.3	-8.8	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	-3.9	10.2 -3.3	7.0 -3.3	-1.7	-7.0	30	30	50 30	30 30	30	30
Acetone	-6.3	-7.9	++++ -7.2	++++ -6.4	24.5	3.3	30	30	30	30	50	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBCK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Iodomethane	1.2	-4.9	8.2 -2.6	15.4 -3.7	-5.7	-7.8	30	30	50 30	30 30	30	30
Carbon disulfide	3.4	-4.3	12.3 -4.5	16.8 -6.5	-8.5	-8.8	30	30	50 30	30 30	30	30
3-Chloropropene	-0.7	-1.4	11.9 -4.3	14.7 -5.0	-6.6	-8.5	30	30	50 30	30 30	30	30
Methyl acetate	2.5	-3.8	-1.3 -0.2	5.1 1.2	-6.3	2.7	30	30	50 30	30 30	30	30
Methylene Chloride	8.3	-5.7	++++ -7.6	++++ -9.5	19.0	-4.5	30	30	30	30	50	30
tert-Butyl alcohol	-0.5	-4.5	++++ -2.6	15.4 -2.5	-3.8	-1.5	30	30	30	30	50	30
Acrylonitrile	-3.0	-10.8	17.5 -7.4	23.5 -9.5	-4.0	-6.4	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	-0.8	-7.8	9.2 -5.5	13.4 -7.3	0.0	-1.2	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	0.5	-6.8	8.5 -5.0	22.5 -6.6	-6.9	-6.2	30	30	50 30	30 30	30	30
Hexane	7.0	0.4	-8.7 -0.3	10.9 -1.2	-2.6	-5.5	30	30	50 30	30 30	30	30
1,1-Dichloroethane	1.3	-5.0	10.3 -3.9	12.2 -6.2	-4.0	-4.6	30	30	50 30	30 30	30	30
Vinyl acetate	15.0	1.5	-1.6 2.6	7.1 -9.7	-5.5	-9.4	30	30	50 30	30 30	30	30
2,2-Dichloropropane	2.3	-8.5	19.8 -11.8	22.5 -13.6	-2.1	-8.7	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	-1.5	-7.9	15.5 -7.7	21.9 -8.7	-2.1	-9.4	30	30	50 30	30 30	30	30
2-Butanone (MEK)	5.2	-2.2	++++ 1.7	++++ -0.3	0.7	-5.0	30	30	30	30	50	30
Bromochloromethane	-4.4	-9.9	17.4 -6.9	24.3 -9.2	-3.7	-7.5	30	30	50 30	30 30	30	30
Tetrahydrofuran	1.2	-1.8	++++ 1.3	-17.5 -0.6	18.0	-0.6	30	30	30	30	50	30
Chloroform	5.5	-0.1	++++ 1.3	9.6 -1.7	-11.0	-3.6	30	30	30	30	50	30
1,1,1-Trichloroethane	2.9	-5.2	9.9 -4.5	15.7 -7.7	-4.4	-6.6	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBCK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Cyclohexane	5.7	-4.0	7.9 -4.1	13.5 -6.7	-4.7	-7.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	2.2	-3.8	9.9 -4.0	13.6 -6.5	-4.6	-6.9	30	30	50 30	30 30	30	30
Carbon tetrachloride	3.5	-3.7	2.4 -3.2	14.4 -5.0	-2.3	-6.1	30	30	50 30	30 30	30	30
Isobutyl alcohol	-3.4	-6.4	++++ -5.7	29.1 -7.2	-3.8	-2.6	30	30	30	50 30	30	30
Benzene	16.4 -2.4	2.8 -8.4	9.3 -6.9	9.3 -9.5	-3.2	-7.4	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	-2.8	-7.2	14.1 -5.5	19.1 -7.1	-3.7	-6.8	30	30	50 30	30 30	30	30
Heptane	-0.1	-7.0	19.9 -7.6	17.1 -8.6	-2.5	-11.2	30	30	50 30	30 30	30	30
Trichloroethene	++++ -0.2	3.0 -4.4	10.0 -4.1	10.4 -3.6	-3.3	-7.8	30	50 30	30 30	30 30	30	30
Methylcyclohexane	4.8	-5.1	11.6 -6.2	15.0 -7.3	-6.2	-6.6	30	30	50 30	30 30	30	30
1,2-Dichloropropane	0.2	-5.8	13.0 -3.8	11.1 -6.7	-0.2	-7.8	30	30	50 30	30 30	30	30
Dibromomethane	-4.6	-9.4	7.0 -6.8	27.0 -9.5	2.1	-5.8	30	30	50 30	30 30	30	30
1,4-Dioxane	9.3	1.2	++++ 1.2	-2.1 -4.4	-15.3	10.1	30	30	30	50 30	30	30
Dichlorobromomethane	-3.8	-7.4	9.5 -4.6	23.8 -5.9	-3.5	-8.1	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	2.2	-2.1	-7.4 -3.5	17.8 -1.2	4.1	-9.8	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	0.3	-1.6	-0.6 -0.4	14.6 -3.2	-4.1	-4.9	30	30	50 30	30 30	30	30
methyl isobutyl ketone	5.5	2.8	++++ -1.5	++++ -1.5	-1.5	-3.9	30	30	30	30	50	30
Toluene	-0.6 4.1	-9.6 0.4	1.7 0.9	12.0 -1.5	-3.2	-4.3	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	-3.0	-5.4	9.4 -3.7	14.4 -4.9	-1.2	-5.6	30	30	50 30	30 30	30	30
Ethyl methacrylate	3.8	-0.7	-18.3 1.2	3.5 -2.3	6.0	6.7	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,1,2-Trichloroethane	4.5	-2.2	-19.1 0.2	20.6 ++++	-1.9	-2.1	30	30	50 30	30	30	30
Tetrachloroethene	2.2	-2.5	8.2 -3.6	15.5 -5.4	-6.4	-8.0	30	30	50 30	30	30	30
1,3-Dichloropropane	-2.4	-6.9	12.0 -4.9	15.0 -7.2	-1.2	-4.4	30	30	50 30	30	30	30
2-Hexanone	2.7	-2.4	++++ -6.9	++++ -5.9	9.9	2.6	30	30	30	30	50	30
Chlorodibromomethane	-2.0	-4.9	23.7 -3.9	6.9 -5.5	-5.9	-8.4	30	30	50 30	30	30	30
Ethylene Dibromide	-5.3	-10.2	19.3 -8.3	21.7 -9.5	-2.8	-4.9	30	30	50 30	30	30	30
Chlorobenzene	-1.4	-5.1	10.8 -4.7	14.5 -5.6	-2.3	-6.0	30	30	50 30	30	30	30
1,1,1,2-Tetrachloroethane	1.8	-3.6	2.8 -3.2	16.5 -4.6	-4.0	-5.6	30	30	50 30	30	30	30
Ethylbenzene	32.0 -4.0	-1.5 -8.2	11.9 -9.1	10.9 -11.1	-10.0	-11.0	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	25.2 -3.3	7.7 -7.6	7.6 -8.4	7.6 -10.4	-7.5	-10.9	50 30	30 30	30 30	30 30	30	30
o-Xylene	25.6 -1.0	2.1 -6.3	2.7 -6.0	11.3 -8.3	-11.3	-8.8	50 30	30 30	30 30	30 30	30	30
Styrene	-0.4	-3.9	6.7 -3.4	17.7 -4.4	-5.3	-7.2	30	30	50 30	30	30	30
Bromoform	-1.5	-4.5	10.3 -2.3	12.8 -5.1	-3.9	-5.8	30	30	50 30	30	30	30
Isopropylbenzene	1.3	-3.7	7.0 -1.6	10.0 -2.5	-4.8	-5.7	30	30	50 30	30	30	30
Bromobenzene	-2.5	-8.2	10.5 -5.3	21.5 -5.6	-3.6	-6.9	30	30	50 30	30	30	30
1,1,2,2-Tetrachloroethane	6.2	-2.7	-11.1 2.4	5.5 -2.3	-1.2	3.2	30	30	50 30	30	30	30
1,2,3-Trichloropropane	-2.4	-11.2	5.7 -7.3	22.1 -10.7	5.3	-1.4	30	30	50 30	30	30	30
trans-1,4-Dichloro-2-butene	6.1	-0.8	++++ 1.0	-6.1 -2.0	-0.3	2.1	30	30	30	50 30	30	30
N-Propylbenzene	2.7	-5.8	7.2 -6.5	16.9 -7.3	-1.6	-5.4	30	30	50 30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
2-Chlorotoluene	0.8	-6.9	10.3 -6.3	17.4 -7.2	-2.5	-5.5	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	3.1	-4.1	8.3 -3.2	8.7 -2.5	-4.3	-6.1	30	30	50 30	30 30	30	30
4-Chlorotoluene	0.6	-6.4	10.5 -4.6	14.3 -6.1	-1.9	-6.4	30	30	50 30	30 30	30	30
tert-Butylbenzene	5.0	-1.7	7.0 -1.5	3.8 -0.9	-6.4	-5.2	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	2.2	-4.1	12.7 -3.5	8.6 -4.0	-5.7	-6.2	30	30	50 30	30 30	30	30
sec-Butylbenzene	3.6	-3.5	6.1 -3.3	9.5 -3.3	-4.2	-4.9	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	-1.3	-7.3	15.4 -5.2	12.1 -5.4	-2.5	-5.8	30	30	50 30	30 30	30	30
p-Isopropyltoluene	4.4	-3.5	6.3 -2.9	8.2 -2.6	-4.6	-5.3	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	-2.8	-7.1	18.3 -6.6	17.7 -7.0	-3.3	-9.2	30	30	50 30	30 30	30	30
n-Butylbenzene	4.2	-6.4	11.2 -9.4	15.6 -8.9	-3.0	-3.3	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	-1.8	-7.1	16.1 -6.3	15.5 -6.0	-3.4	-7.0	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	-3.4	-11.9	++++ -10.1	19.2 -12.4	16.9	1.7	30	30	30	50 30	30	30
1,2,4-Trichlorobenzene	16.0	-0.8	-32.2 -4.2	4.2 -1.6	7.3	11.4	30	30	50 30	30 30	30	30
Hexachlorobutadiene	4.5	-12.7	17.0 -16.3	20.1 -16.1	0.7	2.6	30	30	50 30	30 30	30	30
Naphthalene	10.4	-2.1	-27.5 -3.3	13.9 ++++	-0.6	9.2	30	30	50 30	30	30	30
1,2,3-Trichlorobenzene	9.0	-5.7	-28.6 ++++	21.0 ++++	-1.4	5.7	30	30	50	30	30	30
Dibromofluoromethane	2.9	0.0	-0.4	4.5 0.4	4.4	-11.8	30	30	30	50 30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.2	-3.0	-2.9	9.9 -1.2	8.4	-11.0	30	30	30	50 30	30	30
Toluene-d8 (Surr)	3.1	1.8	0.8	0.0 1.2	6.4	-13.4	30	30	30	50 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 12:19 Calibration End Date: 07/29/2022 17:10 Calibration ID: 45754

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
4-Bromofluorobenzene (Surr)	-0.5	0.0	0.7	4.2 -0.4	9.2	-13.2	30	30	30	50 30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD07.d
 Lims ID: STD07
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 29-Jul-2022 12:19:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD07
 Misc. Info.: 500-0087271-009
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:09 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 29-Jul-2022 12:41:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	89	213767	50.0	58.6	
2 Chloromethane	50	1.825	1.825	0.000	89	205438	50.0	55.7	
3 Vinyl chloride	62	1.943	1.943	0.000	84	199874	50.0	56.1	
4 Butadiene	39	1.959	1.959	0.000	90	193959	50.0	56.2	
5 Bromomethane	94	2.253	2.253	0.000	92	143054	50.0	59.7	
6 Chloroethane	64	2.355	2.355	0.000	95	123862	50.0	55.4	
8 Dichlorofluoromethane	67	2.569	2.569	0.000	83	273063	50.0	53.7	
9 Trichlorofluoromethane	101	2.611	2.611	0.000	79	279401	50.0	54.1	
11 Ethyl ether	59	2.895	2.895	0.000	92	75764	50.0	48.8	
12 Acrolein	56	3.023	3.023	0.000	97	315345	2000.0	2041.0	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	158789	50.0	50.8	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.120	3.120	0.000	82	175810	50.0	51.0	
15 Acetone	43	3.178	3.178	0.000	98	14046	50.0	46.8	
16 Iodomethane	142	3.259	3.259	0.000	98	282167	50.0	50.6	
17 Carbon disulfide	76	3.318	3.318	0.000	100	562466	50.0	51.7	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	101438	50.0	49.6	
21 Methyl acetate	43	3.478	3.478	0.000	96	79211	100.0	102.5	
22 Methylene Chloride	84	3.574	3.574	0.000	90	160419	50.0	54.1	
* 23 TBA-d9 (IS)	65	3.606	3.606	0.000	97	73720	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.687	3.687	0.000	97	43359	500.0	497.4	a
25 Acrylonitrile	53	3.815	3.815	0.000	99	212862	500.0	485.2	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	78	234326	50.0	49.6	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	96	175000	50.0	50.2	
28 Hexane	57	4.083	4.083	0.000	92	295799	50.0	53.5	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	280865	50.0	50.6	
30 Vinyl acetate	43	4.281	4.281	0.000	99	164958	50.0	57.5	
34 2,2-Dichloropropane	77	4.799	4.799	0.000	74	237827	50.0	51.2	
35 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	89	169689	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.821	4.821	0.000	49	22216	50.0	52.6	
39 Chlorobromomethane	128	5.040	5.040	0.000	92	65898	50.0	47.8	
41 Tetrahydrofuran	42	5.088	5.088	0.000	86	28591	100.0	101.2	
42 Chloroform	83	5.115	5.115	0.000	83	252898	50.0	52.7	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	83	109189	40.0	41.2	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	261268	50.0	51.4	
45 Cyclohexane	56	5.350	5.350	0.000	91	332140	50.0	52.9	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	90	233225	50.0	51.1	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	250878	50.0	51.7	
48 Isobutyl alcohol	43	5.575	5.575	0.000	95	50122	1250.0	1208.1	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	84333	40.0	39.9	
50 Benzene	78	5.682	5.682	0.000	96	629065	50.0	48.8	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	80	133367	50.0	48.6	
54 n-Heptane	43	5.934	5.934	0.000	92	274573	50.0	49.9	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	590346	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	188489	50.0	49.9	
59 Methylcyclohexane	83	6.559	6.559	0.000	92	357432	50.0	52.4	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	91	133952	50.0	50.1	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	77	9886	1000.0	1000.0	
63 Dibromomethane	93	6.741	6.741	0.000	96	54525	50.0	47.7	
65 1,4-Dioxane	88	6.757	6.757	0.000	47	11053	1000.0	1092.8	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	156818	50.0	48.1	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	91	44811	50.0	51.1	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	92	186776	50.0	50.2	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	96	49808	50.0	52.8	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	446459	40.0	41.2	
72 Toluene	92	7.811	7.811	0.000	93	387783	50.0	52.1	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	91	136422	50.0	48.5	
74 Ethyl methacrylate	69	8.180	8.180	0.000	92	84634	50.0	51.9	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	85	71192	50.0	52.2	
76 Tetrachloroethene	166	8.469	8.469	0.000	91	180997	50.0	51.1	
77 1,3-Dichloropropane	76	8.517	8.517	0.000	91	123101	50.0	48.8	
78 2-Hexanone	43	8.614	8.614	0.000	97	30831	50.0	51.4	
80 Chlorodibromomethane	129	8.796	8.796	0.000	87	98972	50.0	49.0	
81 Ethylene Dibromide	107	8.940	8.940	0.000	99	67948	50.0	47.3	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	380628	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	396312	50.0	49.3	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	89	144589	50.0	50.9	
86 Ethylbenzene	106	9.705	9.705	0.000	99	242600	50.0	48.0	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	560173	50.0	48.3	
88 o-Xylene	91	10.310	10.310	0.000	94	577547	50.0	49.5	
89 Styrene	104	10.331	10.331	0.000	96	436164	50.0	49.8	
90 Bromoform	173	10.534	10.534	0.000	97	52617	50.0	49.2	
91 Isopropylbenzene	105	10.716	10.716	0.000	97	807610	50.0	50.7	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	93	131855	40.0	39.8	
95 Bromobenzene	156	11.027	11.027	0.000	93	156458	50.0	48.7	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	58	72687	50.0	53.1	
97 1,2,3-Trichloropropane	110	11.075	11.075	0.000	86	22188	50.0	48.8	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	85	21247	50.0	53.1	
99 N-Propylbenzene	91	11.133	11.133	0.000	99	938905	50.0	51.3	
100 2-Chlorotoluene	91	11.219	11.219	0.000	97	499026	50.0	50.4	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	95	673073	50.0	51.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	95	558733	50.0	50.3	
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	645044	50.0	52.5	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	667915	50.0	51.1	
107 sec-Butylbenzene	105	11.818	11.818	0.000	93	942478	50.0	51.8	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	338496	50.0	49.3	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	97	817695	50.0	52.2	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	198294	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	96	326775	50.0	48.6	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	714084	50.0	52.1	
114 1,2-Dichlorobenzene	146	12.326	12.326	0.000	97	289913	50.0	49.1	
116 1,2-Dibromo-3-Chloropropane	75	12.968	12.968	0.000	60	11457	50.0	48.3	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	93	199661	50.0	58.0	
119 Hexachlorobutadiene	225	13.717	13.717	0.000	95	132491	50.0	52.3	
120 Naphthalene	128	13.792	13.792	0.000	99	296408	50.0	55.2	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	95	158139	50.0	54.5	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 4.00	Units: uL
8260/624ACRWK_00681	Amount Added: 2.50	Units: uL
8260/624GASWK_01464	Amount Added: 2.50	Units: uL
8260/624KETWK_00635	Amount Added: 2.50	Units: uL
8260/624MEGWK_01401	Amount Added: 2.50	Units: uL
8260VA/2CEVE_00606	Amount Added: 2.50	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD07.d

Injection Date: 29-Jul-2022 12:19:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD07

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

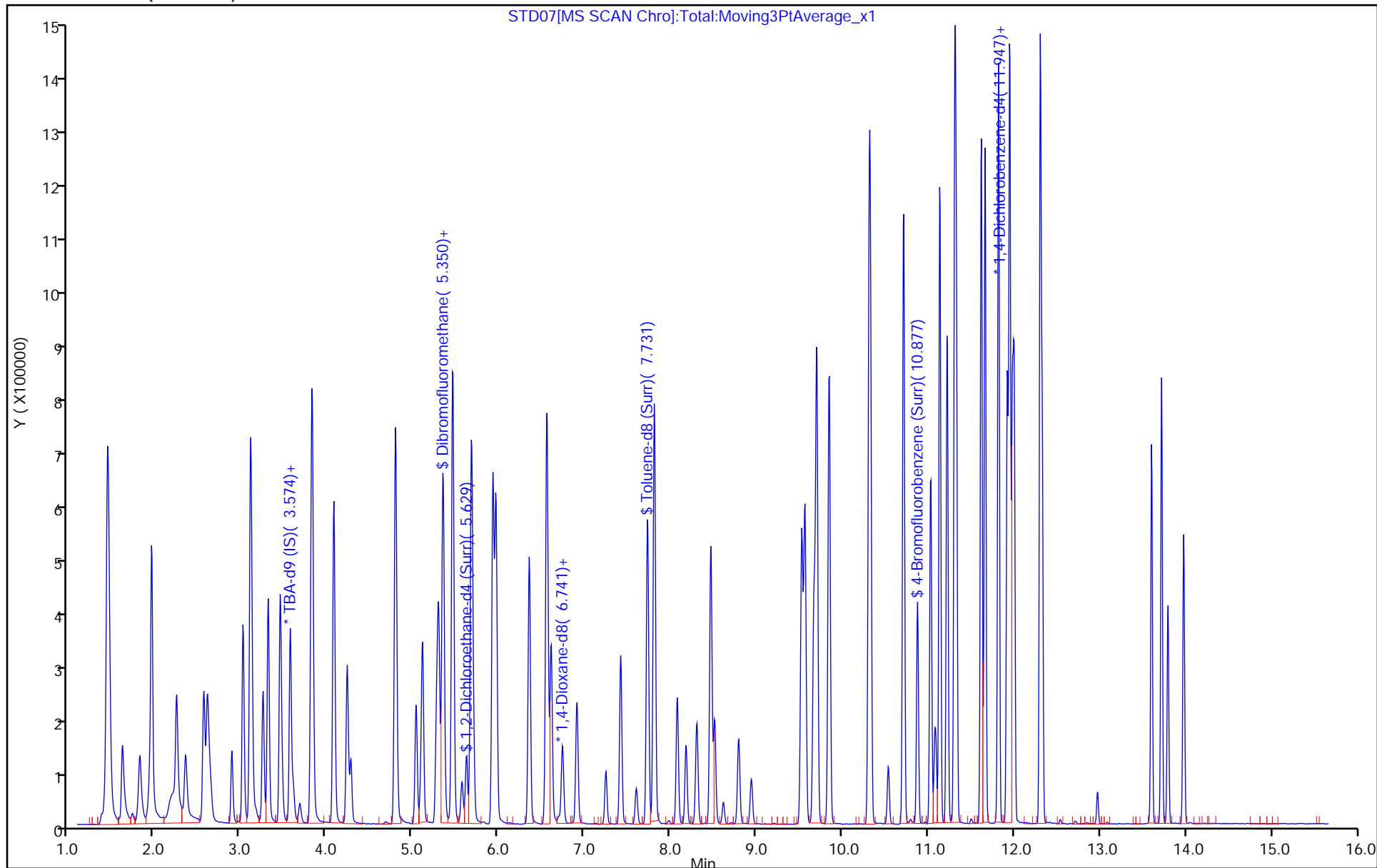
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

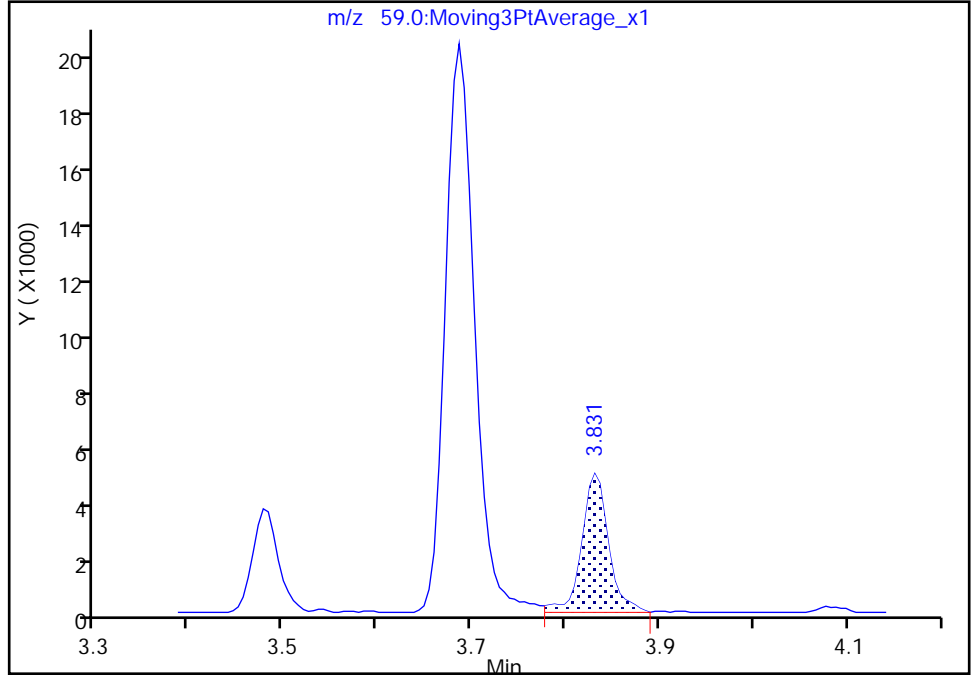
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD07.d
Injection Date: 29-Jul-2022 12:19:30 Instrument ID: CMS19
Lims ID: STD07
Client ID:
Operator ID: EA ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

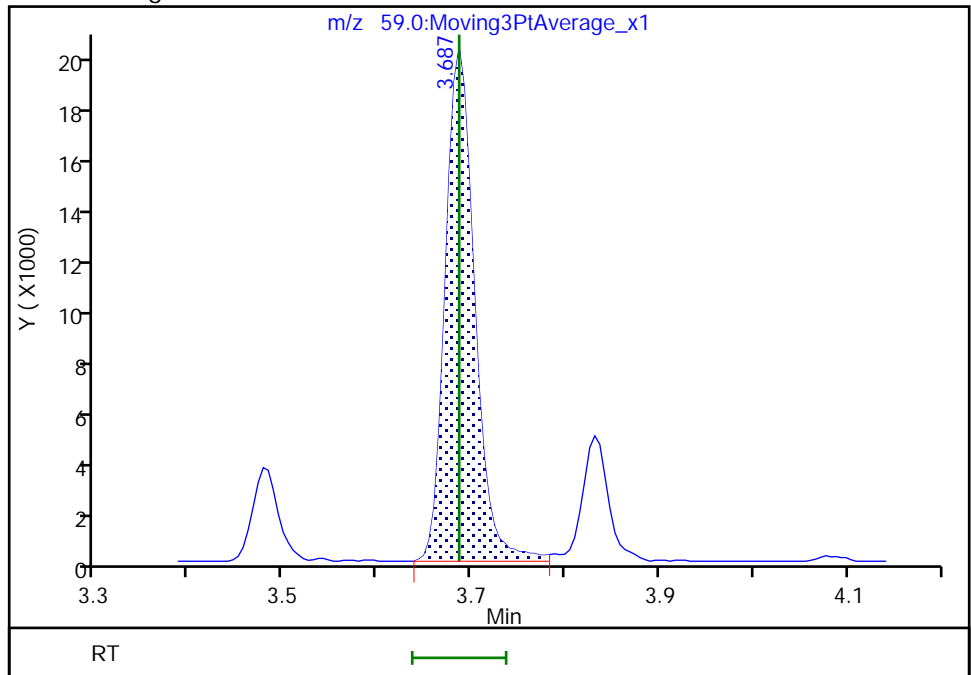
RT: 3.83
Area: 9625
Amount: 366.0679
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 43359
Amount: 497.4307
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 18:59:58
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD08.d
 Lims ID: STD08
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 29-Jul-2022 12:43:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD08
 Misc. Info.: 500-0087271-010
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:15 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 29-Jul-2022 13:35:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	88	414511	100.0	110.1	
2 Chloromethane	50	1.825	1.825	0.000	88	393903	100.0	103.4	
3 Vinyl chloride	62	1.948	1.943	0.005	83	371748	100.0	101.1	
4 Butadiene	39	1.964	1.959	0.005	92	362640	100.0	101.8	
5 Bromomethane	94	2.258	2.253	0.005	92	255010	100.0	103.1	
6 Chloroethane	64	2.365	2.355	0.010	95	234139	100.0	101.3	
8 Dichlorofluoromethane	67	2.574	2.569	0.005	84	516486	100.0	98.4	
9 Trichlorofluoromethane	101	2.612	2.611	0.001	80	528787	100.0	99.3	
11 Ethyl ether	59	2.895	2.895	0.000	91	145858	100.0	90.9	
12 Acrolein	56	3.024	3.023	0.001	96	625348	4000.0	3920.4	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	308092	100.0	95.4	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.125	3.120	0.005	85	341909	100.0	96.1	
15 Acetone	43	3.173	3.178	-0.005	97	28514	100.0	92.1	
16 Iodomethane	142	3.259	3.259	0.000	98	547621	100.0	95.1	
17 Carbon disulfide	76	3.318	3.318	0.000	100	1075835	100.0	95.7	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	90	207999	100.0	98.6	
21 Methyl acetate	43	3.478	3.478	0.000	96	152629	200.0	192.3	
22 Methylene Chloride	84	3.575	3.574	0.001	90	288490	100.0	94.3	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	96	74952	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.687	3.687	0.000	98	84596	1000.0	954.6	a
25 Acrylonitrile	53	3.815	3.815	0.000	98	404067	1000.0	892.1	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	79	449711	100.0	92.2	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	96	335305	100.0	93.2	
28 Hexane	57	4.083	4.083	0.000	92	570106	100.0	100.4	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	544329	100.0	95.0	
30 Vinyl acetate	43	4.281	4.281	0.000	99	300572	100.0	101.5	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	72	439069	100.0	91.5	
35 cis-1,2-Dichloroethene	96	4.800	4.799	0.001	90	327672	100.0	92.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.816	4.821	-0.005	38	42634	100.0	97.8	
39 Chlorobromomethane	128	5.040	5.040	0.000	90	128297	100.0	90.1	
41 Tetrahydrofuran	42	5.088	5.088	0.000	88	56295	200.0	196.4	
42 Chloroform	83	5.115	5.115	0.000	83	491363	100.0	99.9	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	85	137010	50.0	50.0	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	496992	100.0	94.8	
45 Cyclohexane	56	5.351	5.350	0.001	92	622904	100.0	96.0	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	90	453585	100.0	96.2	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	482420	100.0	96.3	
48 Isobutyl alcohol	43	5.570	5.575	-0.005	96	98664	2500.0	2339.1	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	105783	50.0	48.5	
50 Benzene	78	5.682	5.682	0.000	96	1218987	100.0	91.6	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	81	263037	100.0	92.8	
54 n-Heptane	43	5.934	5.934	0.000	91	528265	100.0	93.0	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	609482	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	87	372813	100.0	95.6	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	668085	100.0	94.9	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	92	260157	100.0	94.2	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	87	11053	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.741	0.001	92	106923	100.0	90.6	
65 1,4-Dioxane	88	6.752	6.757	-0.005	40	22639	2000.0	2023.8	
66 Dichlorobromomethane	83	6.913	6.913	0.000	92	311548	100.0	92.6	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	93	88052	100.0	97.9	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	91	375696	100.0	98.4	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	97	99509	100.0	102.8	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	565513	50.0	50.9	
72 Toluene	92	7.811	7.811	0.000	93	766205	100.0	100.4	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	91	272931	100.0	94.6	
74 Ethyl methacrylate	69	8.181	8.180	0.001	91	165016	100.0	99.3	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	85	136127	100.0	97.8	
76 Tetrachloroethene	166	8.470	8.469	0.001	91	354136	100.0	97.5	
77 1,3-Dichloropropane	76	8.518	8.517	0.001	92	240681	100.0	93.1	
78 2-Hexanone	43	8.614	8.614	0.000	97	60106	100.0	97.6	
80 Chlorodibromomethane	129	8.796	8.796	0.000	87	197132	100.0	95.1	
81 Ethylene Dibromide	107	8.940	8.940	0.000	99	132238	100.0	89.8	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	390414	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	95	782854	100.0	94.9	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	91	280832	100.0	96.4	
86 Ethylbenzene	106	9.705	9.705	0.000	99	475495	100.0	91.8	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	1097781	100.0	92.4	
88 o-Xylene	91	10.315	10.310	0.005	93	1120781	100.0	93.7	
89 Styrene	104	10.331	10.331	0.000	96	863162	100.0	96.1	
90 Bromoform	173	10.534	10.534	0.000	98	104719	100.0	95.5	
91 Isopropylbenzene	105	10.716	10.716	0.000	98	1578715	100.0	96.3	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	92	170383	50.0	50.0	
95 Bromobenzene	156	11.032	11.027	0.006	91	302990	100.0	91.8	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	56	136281	100.0	97.3	
97 1,2,3-Trichloropropane	110	11.075	11.075	0.000	86	41525	100.0	88.8	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	84	40362	100.0	99.2	
99 N-Propylbenzene	91	11.134	11.133	0.001	98	1771164	100.0	94.2	
100 2-Chlorotoluene	91	11.219	11.219	0.000	97	947587	100.0	93.1	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	1286815	100.0	95.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	96	1068830	100.0	93.6	
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	1241487	100.0	98.3	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	1288663	100.0	95.9	
107 sec-Butylbenzene	105	11.818	11.818	0.000	93	1805996	100.0	96.5	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	654087	100.0	92.7	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	96	1553692	100.0	96.5	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	203867	50.0	50.0	a
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	96	642759	100.0	92.9	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	1318553	100.0	93.6	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	98	563942	100.0	92.9	
116 1,2-Dibromo-3-Chloropropane	75	12.969	12.968	0.001	63	21488	100.0	88.1	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	93	349321	100.0	99.2	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	95	227440	100.0	87.3	
120 Naphthalene	128	13.792	13.792	0.000	99	537322	100.0	97.9	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	94	280274	100.0	94.3	
S 124 Xylenes, Total	91				0			186.1	
S 125 Trihalomethanes, Total	1				0			383.2	
S 126 1,3-Dichloropropene, Total	1				0			192.9	
S 127 Trimethylbenzene, Total	1				0			191.8	
S 128 1,2-Dichloroethene, Total	96				0			185.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 5.00	Units: uL
8260/624ACRWK_00681	Amount Added: 5.00	Units: uL
8260/624GASWK_01464	Amount Added: 5.00	Units: uL
8260/624KETWK_00635	Amount Added: 5.00	Units: uL
8260/624MEGWK_01401	Amount Added: 5.00	Units: uL
8260VA/2CEVE_00606	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD08.d

Injection Date: 29-Jul-2022 12:43:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD08

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

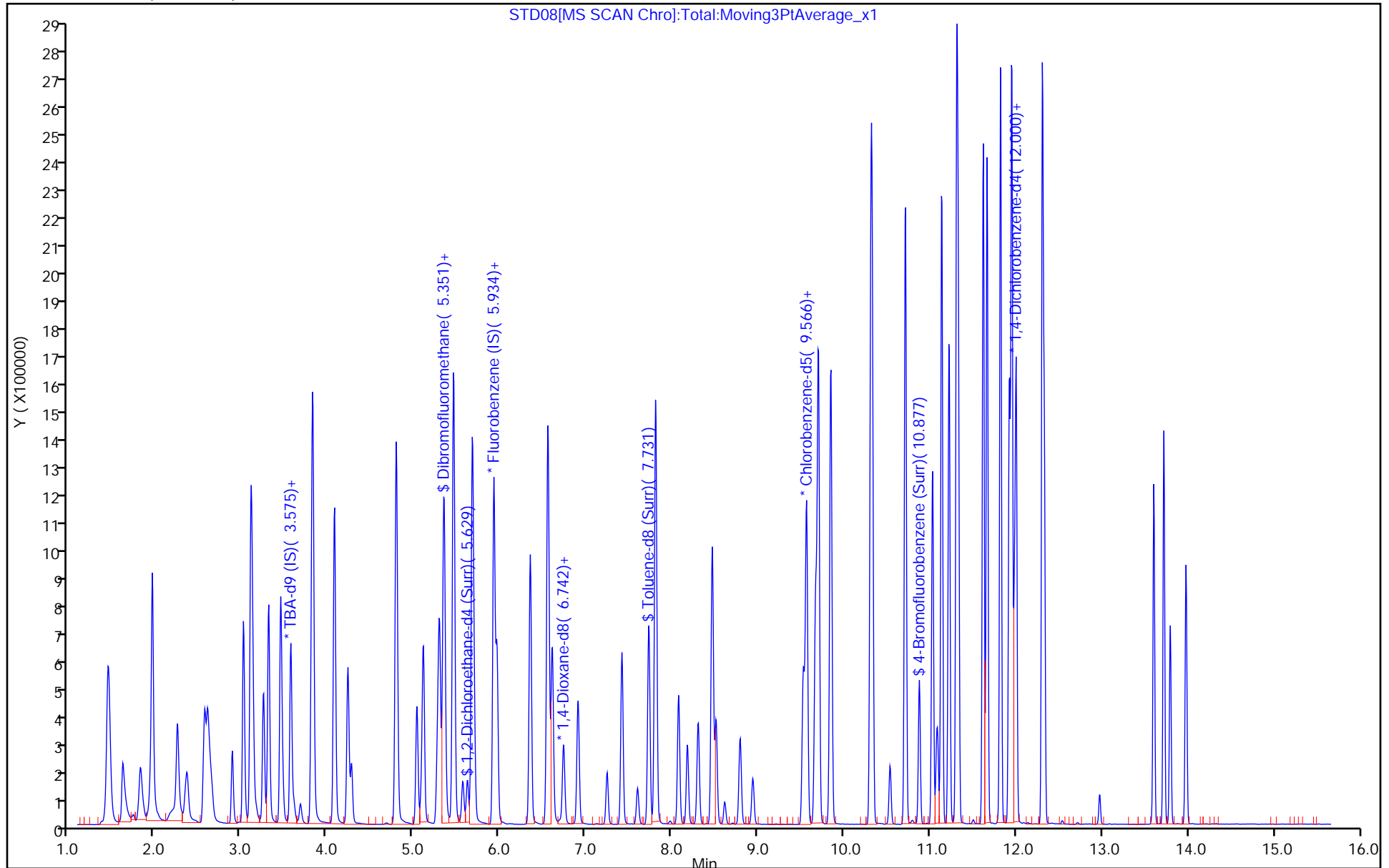
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

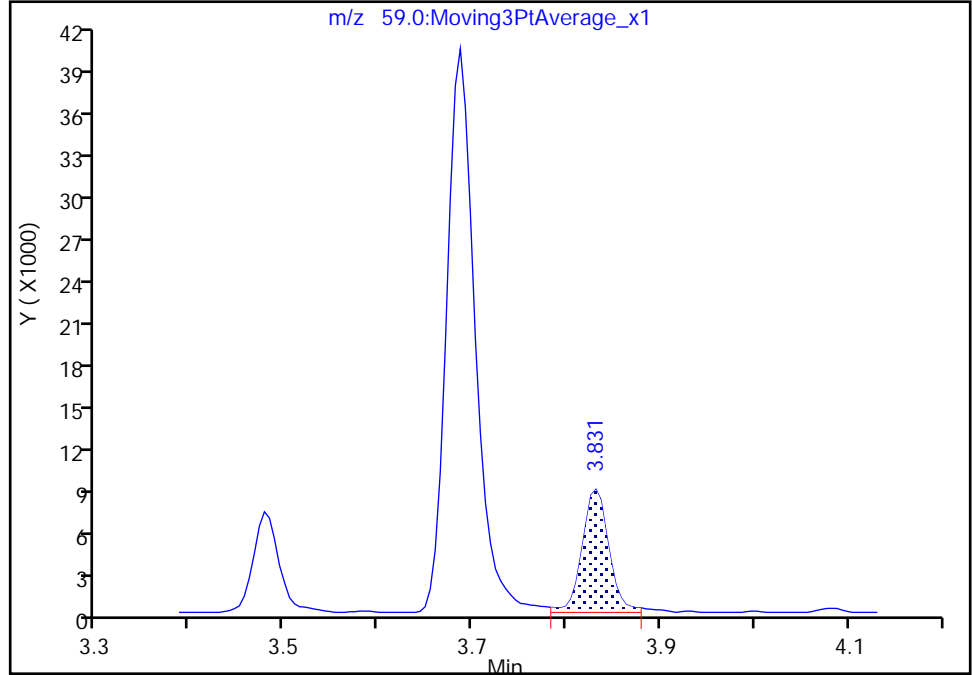
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Injection Date: 29-Jul-2022 12:43:30 Instrument ID: CMS19
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

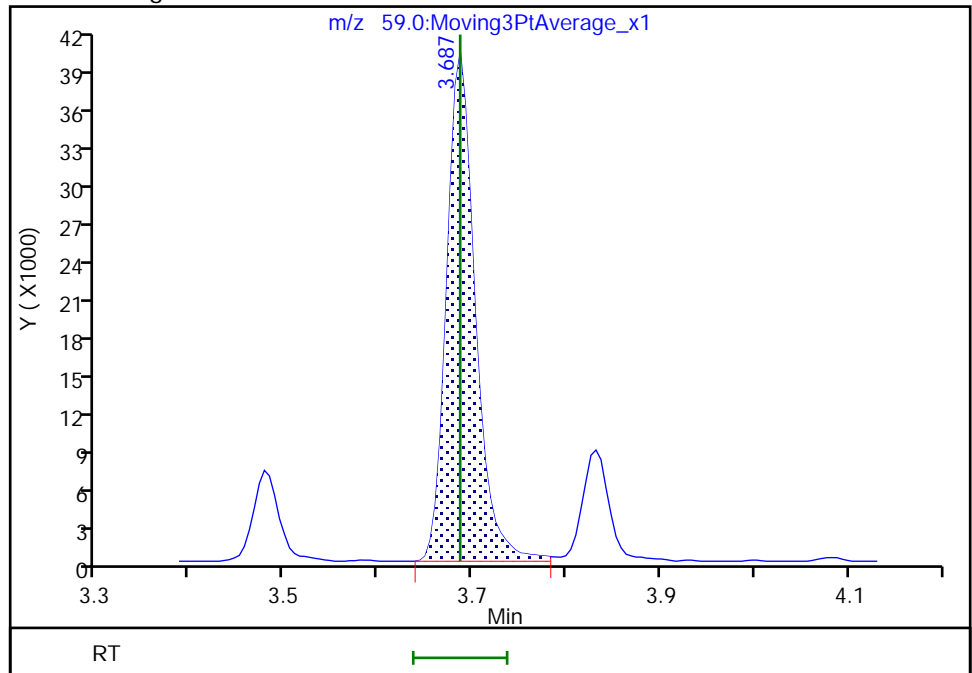
RT: 3.83
Area: 17294
Amount: 473.3971
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 84596
Amount: 954.5645
Amount Units: ug/L

Manual Integration Results



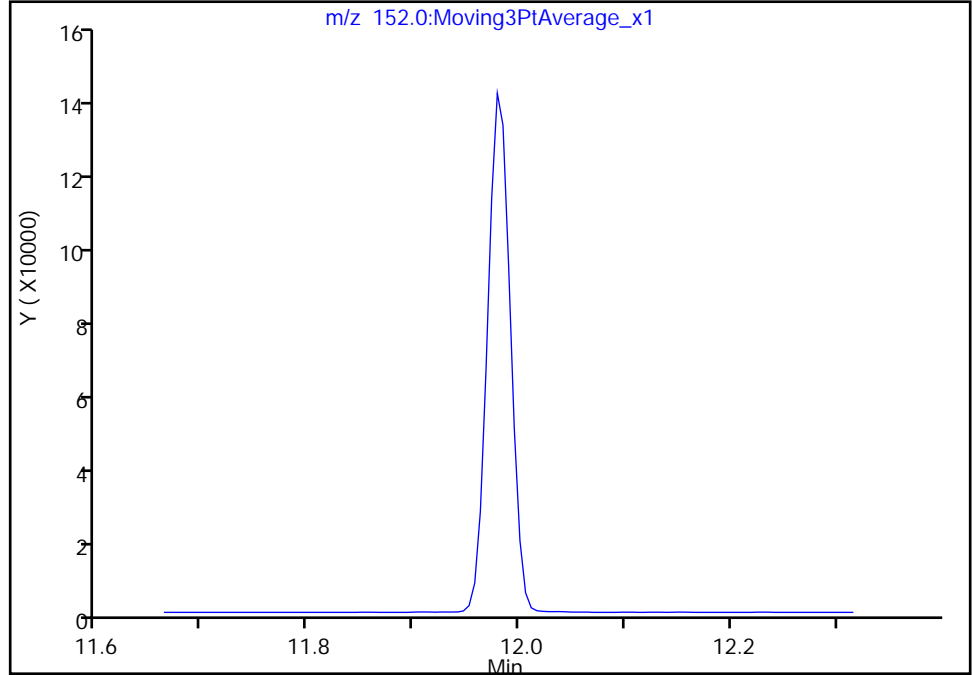
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD08.d
Injection Date: 29-Jul-2022 12:43:30 Instrument ID: CMS19
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

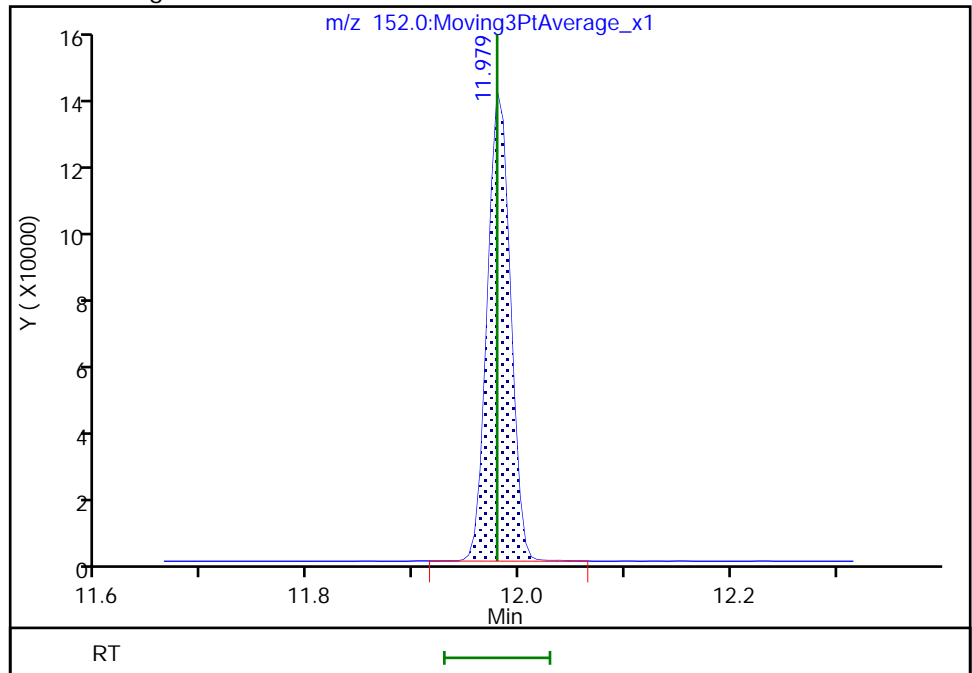
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 203867
Amount: 50.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 29-Jul-2022 13:07:52
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09.d
 Lims ID: STD09
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 29-Jul-2022 13:07:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD09
 Misc. Info.: 500-0087271-011
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:21 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 29-Jul-2022 13:54:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	89	634788	150.0	163.8	
2 Chloromethane	50	1.830	1.825	0.005	89	601312	150.0	153.3	
3 Vinyl chloride	62	1.948	1.943	0.005	83	579026	150.0	153.0	
4 Butadiene	39	1.964	1.959	0.005	92	562101	150.0	153.3	
5 Bromomethane	94	2.258	2.253	0.005	90	356949	150.0	140.2	
6 Chloroethane	64	2.360	2.355	0.005	95	347860	150.0	146.3	
8 Dichlorofluoromethane	67	2.574	2.569	0.005	83	787804	150.0	145.8	
9 Trichlorofluoromethane	101	2.606	2.611	-0.005	81	822756	150.0	150.1	
11 Ethyl ether	59	2.895	2.895	0.000	92	234715	150.0	142.2	
12 Acrolein	56	3.023	3.023	0.000	98	1019830	6000.0	6213.3	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	478892	150.0	144.2	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.125	3.120	0.005	84	531364	150.0	145.1	
15 Acetone	43	3.173	3.178	-0.005	97	44331	150.0	139.2	
16 Iodomethane	142	3.259	3.259	0.000	98	865100	150.0	146.0	
17 Carbon disulfide	76	3.318	3.318	0.000	100	1656507	150.0	143.3	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	311827	150.0	143.6	
21 Methyl acetate	43	3.478	3.478	0.000	96	244077	300.0	299.5	
22 Methylene Chloride	84	3.574	3.574	0.000	91	436343	150.0	138.6	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	96	77999	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.687	3.687	0.000	98	134691	1500.0	1460.5	a
25 Acrylonitrile	53	3.815	3.815	0.000	98	647657	1500.0	1389.6	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	85	711854	150.0	141.8	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	96	527094	150.0	142.5	
28 Hexane	57	4.083	4.083	0.000	93	872944	150.0	149.6	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	849212	150.0	144.1	
30 Vinyl acetate	43	4.281	4.281	0.000	99	468938	150.0	153.8	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	71	653372	150.0	132.3	
35 cis-1,2-Dichloroethene	96	4.800	4.799	0.001	90	506354	150.0	138.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.816	4.821	-0.005	40	68468	150.0	152.6	
39 Chlorobromomethane	128	5.040	5.040	0.000	89	204490	150.0	139.6	
41 Tetrahydrofuran	42	5.088	5.088	0.000	88	88987	300.0	303.8	
42 Chloroform	83	5.115	5.115	0.000	83	766880	150.0	151.9	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	85	168397	60.0	59.7	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	772984	150.0	143.3	
45 Cyclohexane	56	5.351	5.350	0.001	91	960580	150.0	143.9	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	90	698295	150.0	144.0	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	747985	150.0	145.2	
48 Isobutyl alcohol	43	5.570	5.575	-0.005	97	155214	3750.0	3536.0	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	130702	60.0	58.3	
50 Benzene	78	5.682	5.682	0.000	96	1912347	150.0	139.7	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	81	413462	150.0	141.8	
54 n-Heptane	43	5.934	5.934	0.000	91	809700	150.0	138.6	
* 55 Fluorobenzene (IS)	96	5.966	5.971	-0.005	98	627160	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	577273	150.0	143.9	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	1019898	150.0	140.7	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	92	410136	150.0	144.4	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	84	11855	1000.0	1000.0	
63 Dibromomethane	93	6.741	6.741	0.000	92	169802	150.0	139.8	
65 1,4-Dioxane	88	6.758	6.757	0.001	49	36276	3000.0	3036.5	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	495500	150.0	143.1	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	91	137946	150.0	144.8	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	92	603884	150.0	149.3	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	97	151495	150.0	147.8	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	94	711275	60.0	60.5	
72 Toluene	92	7.811	7.811	0.000	93	1221890	150.0	151.3	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	92	441664	150.0	144.5	
74 Ethyl methacrylate	69	8.181	8.180	0.001	91	266291	150.0	151.8	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	86	220952	150.0	150.2	
76 Tetrachloroethene	166	8.469	8.469	0.000	91	556202	150.0	144.6	
77 1,3-Dichloropropane	76	8.518	8.517	0.001	92	390566	150.0	142.6	
78 2-Hexanone	43	8.614	8.614	0.000	97	91008	150.0	139.6	
80 Chlorodibromomethane	129	8.796	8.796	0.000	88	316230	150.0	144.1	
81 Ethylene Dibromide	107	8.940	8.940	0.000	99	214341	150.0	137.5	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	413372	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	1248032	150.0	142.9	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	91	447974	150.0	145.2	
86 Ethylbenzene	106	9.705	9.705	0.000	99	748472	150.0	136.4	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	1728600	150.0	137.4	
88 o-Xylene	91	10.315	10.310	0.005	93	1786717	150.0	141.1	
89 Styrene	104	10.331	10.331	0.000	96	1377879	150.0	144.9	
90 Bromoform	173	10.534	10.534	0.000	97	170056	150.0	146.5	
91 Isopropylbenzene	105	10.716	10.716	0.000	98	2500434	150.0	147.6	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	92	212865	60.0	60.4	
95 Bromobenzene	156	11.032	11.027	0.006	90	484741	150.0	142.1	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	58	221826	150.0	153.6	
97 1,2,3-Trichloropropane	110	11.080	11.075	0.005	86	67155	150.0	139.0	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	84	63415	150.0	151.5	
99 N-Propylbenzene	91	11.139	11.133	0.006	98	2725671	150.0	140.2	
100 2-Chlorotoluene	91	11.225	11.219	0.006	96	1478520	150.0	140.5	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	2014907	150.0	145.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	95	1690661	150.0	143.1	
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	1930750	150.0	147.8	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	2009374	150.0	144.7	
107 sec-Butylbenzene	105	11.818	11.818	0.000	93	2807141	150.0	145.1	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	1036696	150.0	142.2	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	94	2422789	150.0	145.6	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	210748	50.0	50.0	a
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	96	1001214	150.0	140.1	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	1980125	150.0	135.9	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	98	881671	150.0	140.5	
116 1,2-Dibromo-3-Chloropropane	75	12.969	12.968	0.001	67	33982	150.0	134.8	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	93	521599	150.0	143.6	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	95	338336	150.0	125.6	
120 Naphthalene	128	13.792	13.792	0.000	99	821255	150.0	145.1	
S 124 Xylenes, Total	91				0			278.4	
S 125 Trihalomethanes, Total	1				0			585.7	
S 126 1,3-Dichloropropene, Total	1				0			293.8	
S 127 Trimethylbenzene, Total	1				0			289.9	
S 128 1,2-Dichloroethene, Total	96				0			280.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 6.00	Units: uL
8260/624ACRWK_00681	Amount Added: 7.50	Units: uL
8260/624GASWK_01464	Amount Added: 7.50	Units: uL
8260/624KETWK_00635	Amount Added: 7.50	Units: uL
8260/624MEGWK_01401	Amount Added: 7.50	Units: uL
8260VA/2CEVE_00606	Amount Added: 7.50	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09.d

Injection Date: 29-Jul-2022 13:07:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD09

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

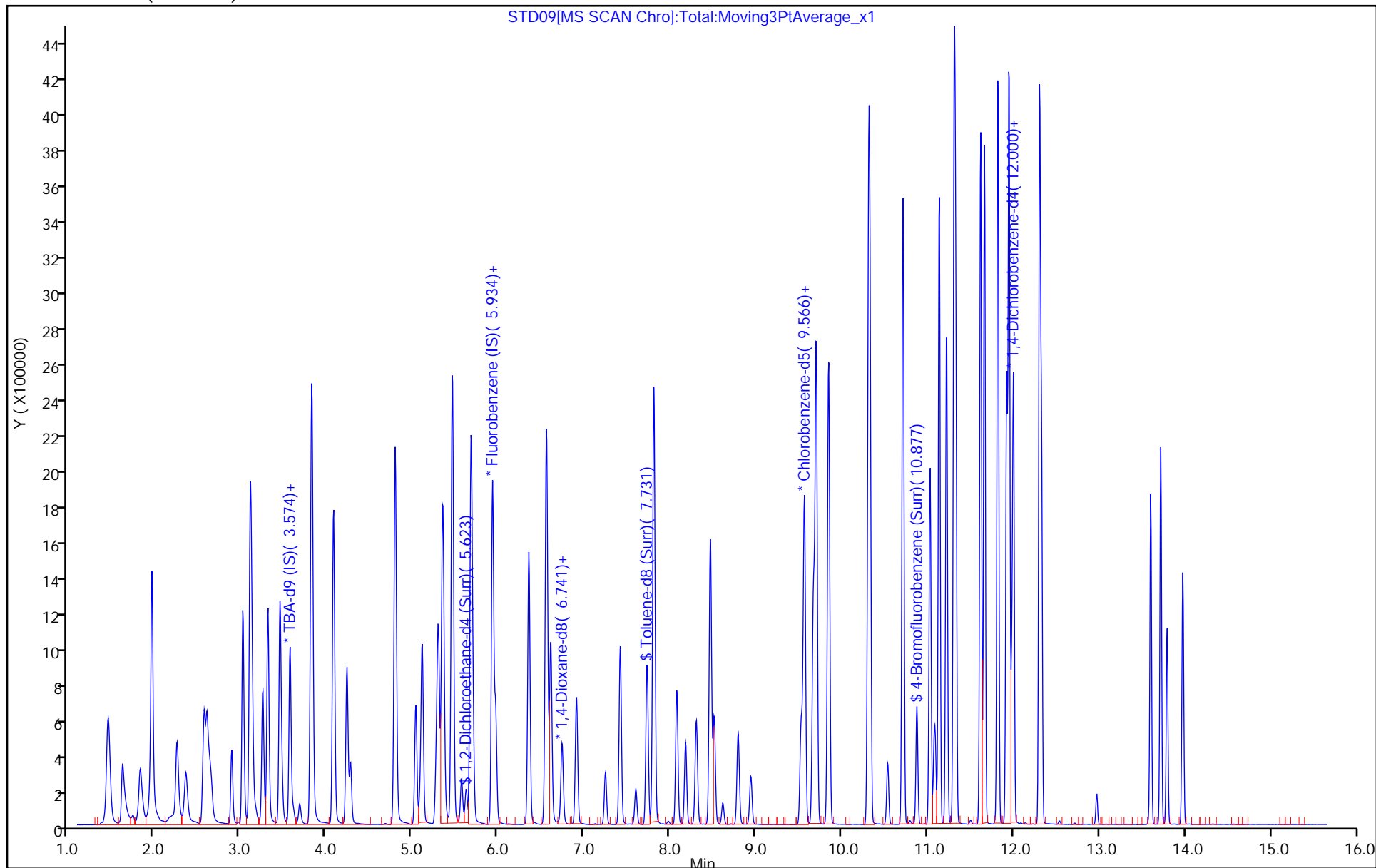
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

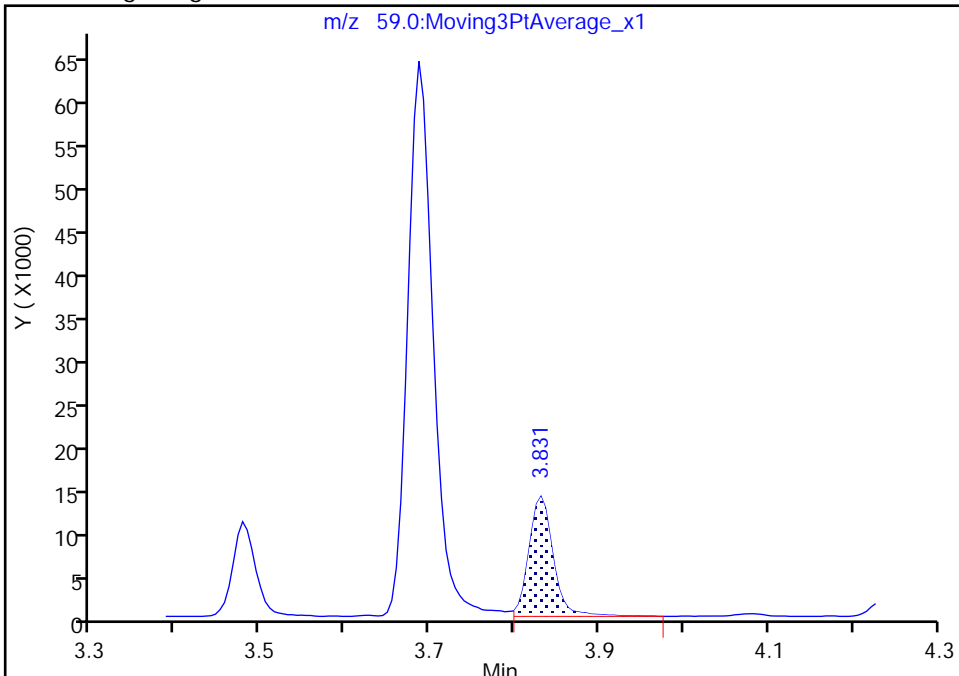
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Injection Date: 29-Jul-2022 13:07:30 Instrument ID: CMS19
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

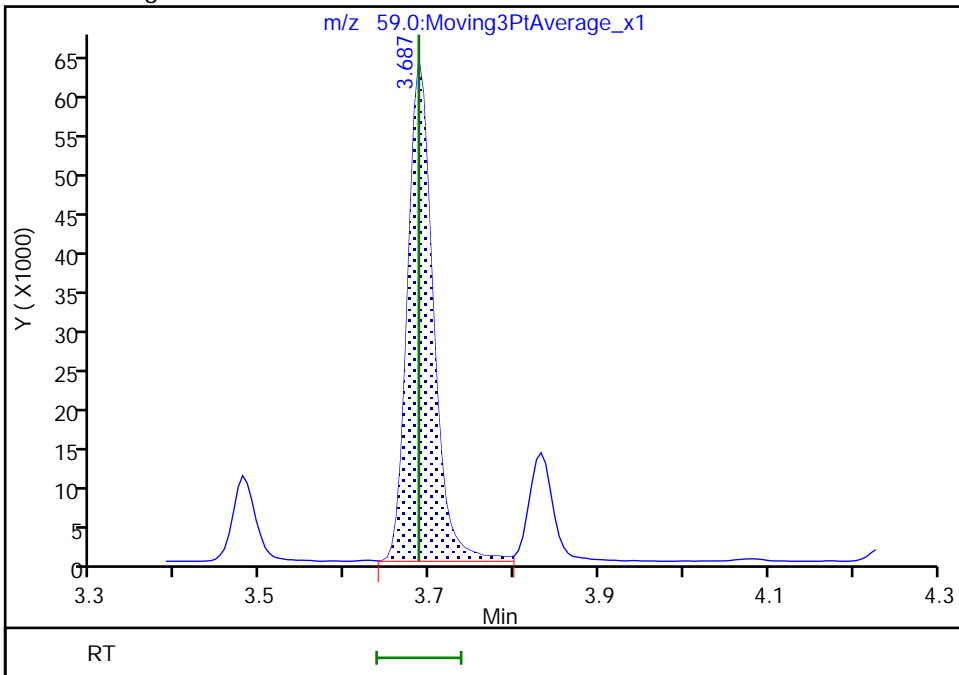
RT: 3.83
Area: 27498
Amount: 572.6097
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 134691
Amount: 1460.4551
Amount Units: ug/L

Manual Integration Results



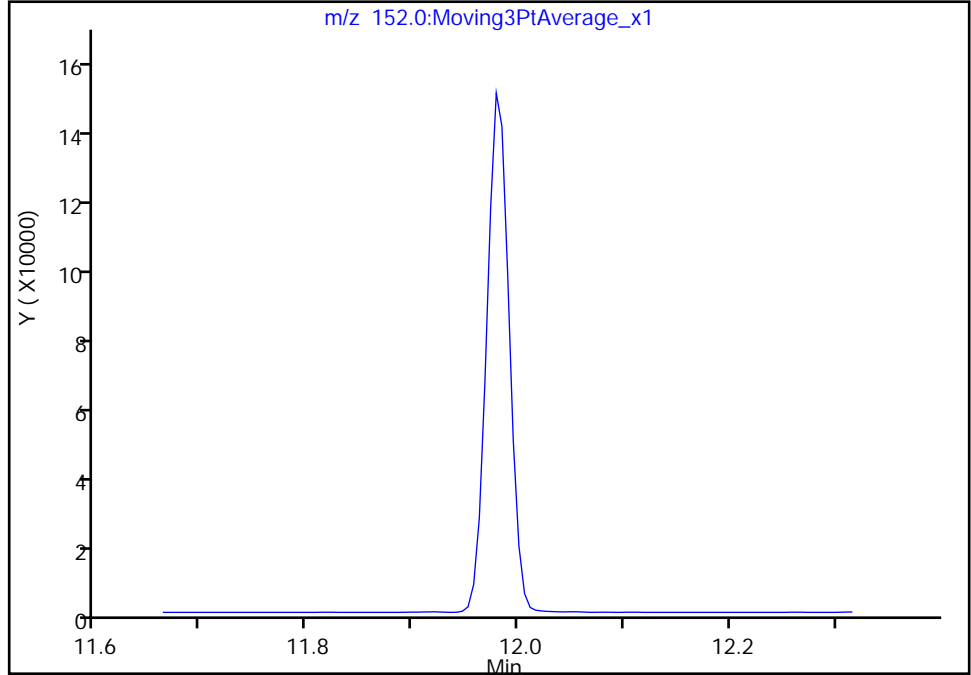
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09.d
Injection Date: 29-Jul-2022 13:07:30 Instrument ID: CMS19
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

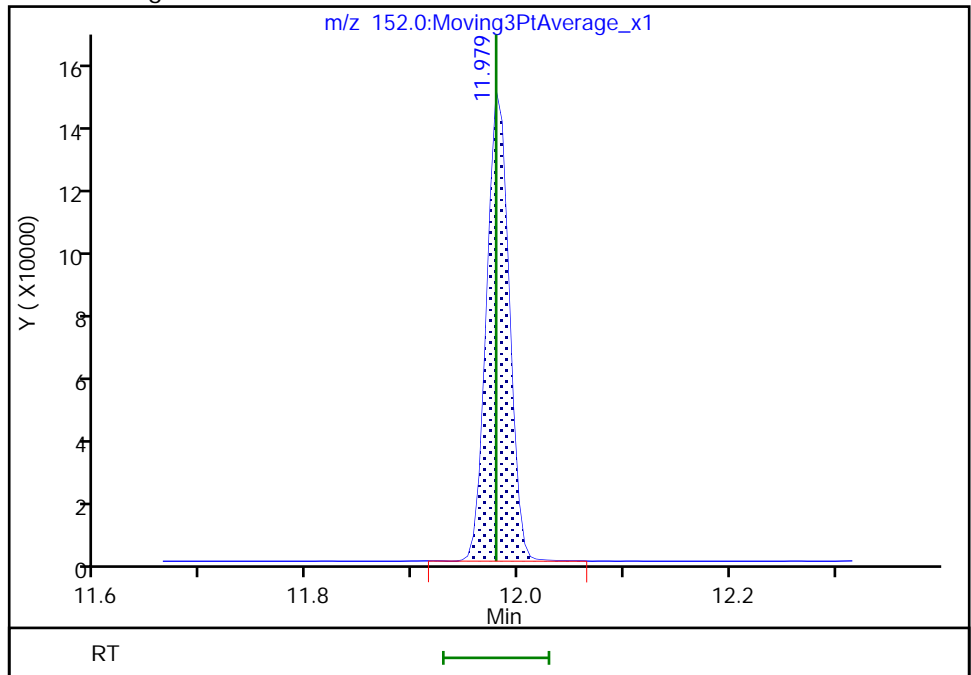
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 210748
Amount: 50.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 29-Jul-2022 13:49:16
Audit Action: Assigned Compound ID

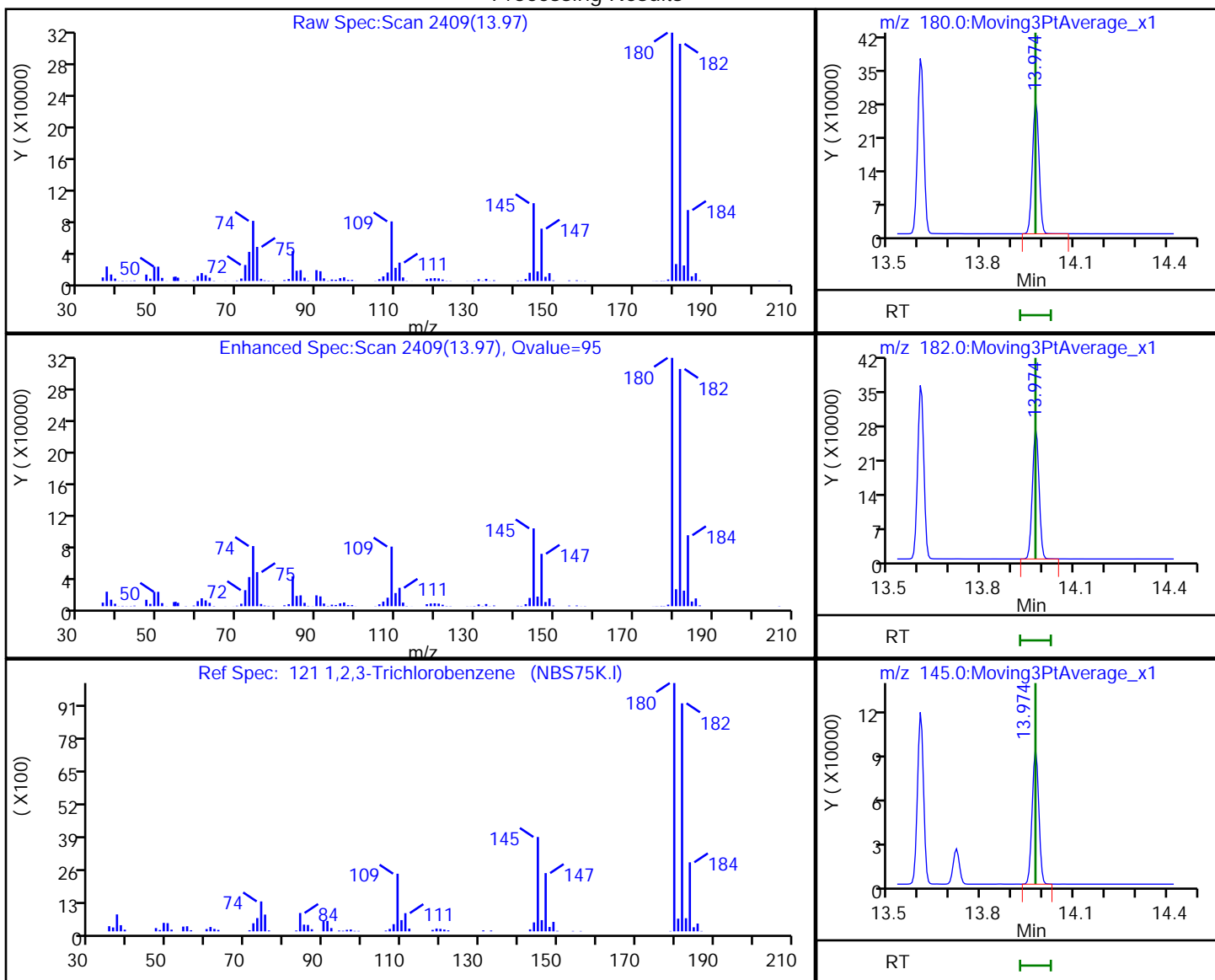
Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09.d
 Injection Date: 29-Jul-2022 13:07:30 Instrument ID: CMS19
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

121 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.97	180.00	422463	123.1124
13.97	182.00	404273	
13.97	145.00	132597	

Reviewer: BQP0, 31-Jul-2022 19:12:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
 Lims ID: STD010
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 29-Jul-2022 13:32:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD010
 Misc. Info.: 500-0087271-012
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:27 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 29-Jul-2022 13:59:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	89	837586	200.0	214.1	
2 Chloromethane	50	1.825	1.825	0.000	89	804819	200.0	203.3	
3 Vinyl chloride	62	1.948	1.943	0.005	83	765965	200.0	200.5	
4 Butadiene	39	1.964	1.959	0.005	91	742195	200.0	200.5	
5 Bromomethane	94	2.253	2.253	0.000	91	448162	200.0	174.4	
6 Chloroethane	64	2.355	2.355	0.000	95	452806	200.0	188.7	
8 Dichlorofluoromethane	67	2.569	2.569	0.000	84	1034337	200.0	189.6	
9 Trichlorofluoromethane	101	2.606	2.611	-0.005	81	1086691	200.0	196.4	
11 Ethyl ether	59	2.895	2.895	0.000	92	309606	200.0	185.8	
12 Acrolein	56	3.024	3.023	0.001	96	1345777	8000.0	8123.0	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	634018	200.0	189.1	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.120	3.120	0.000	83	714743	200.0	193.3	
15 Acetone	43	3.173	3.178	-0.005	98	60183	200.0	187.2	
16 Iodomethane	142	3.259	3.259	0.000	98	1151718	200.0	192.6	
17 Carbon disulfide	76	3.318	3.318	0.000	100	2182711	200.0	187.0	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	416304	200.0	189.9	
21 Methyl acetate	43	3.478	3.478	0.000	96	332742	400.0	405.0	
22 Methylene Chloride	84	3.575	3.574	0.001	91	575073	200.0	181.0	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	96	81550	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.687	3.687	0.000	99	188114	2000.0	1950.9	a
25 Acrylonitrile	53	3.815	3.815	0.000	98	851176	2000.0	1809.3	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	87	938907	200.0	185.3	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	96	697754	200.0	186.8	
28 Hexane	57	4.083	4.083	0.000	93	1162792	200.0	197.6	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	1116056	200.0	187.6	
30 Vinyl acetate	43	4.281	4.281	0.000	99	555900	200.0	180.7	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	71	860967	200.0	172.7	
35 cis-1,2-Dichloroethene	96	4.800	4.799	0.001	90	674084	200.0	182.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.816	4.821	-0.005	40	90300	200.0	199.4	
39 Chlorobromomethane	128	5.040	5.040	0.000	91	268588	200.0	181.6	
41 Tetrahydrofuran	42	5.089	5.088	0.001	87	117232	400.0	397.7	
42 Chloroform	83	5.115	5.115	0.000	83	1000229	200.0	196.5	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	90	214297	75.0	75.3	
44 1,1,1-Trichloroethane	97	5.303	5.302	0.001	91	1005631	200.0	184.7	
45 Cyclohexane	56	5.351	5.350	0.001	91	1257284	200.0	186.6	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	89	915318	200.0	187.0	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	988151	200.0	190.0	
48 Isobutyl alcohol	43	5.575	5.575	0.000	96	213056	5000.0	4642.3	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	167740	75.0	74.1	
50 Benzene	78	5.682	5.682	0.000	96	2500381	200.0	180.9	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	80	547277	200.0	185.9	
54 n-Heptane	43	5.934	5.934	0.000	91	1077637	200.0	182.7	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	633040	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	780339	200.0	192.7	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	1355879	200.0	185.4	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	92	534869	200.0	186.5	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	86	13743	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.741	0.001	94	221773	200.0	180.9	
65 1,4-Dioxane	88	6.758	6.757	0.001	50	52847	4000.0	3822.7	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	657668	200.0	188.2	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	92	191156	200.0	197.5	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	92	795345	200.0	193.6	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	97	205252	200.0	197.1	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	906513	75.0	75.9	
72 Toluene	92	7.812	7.811	0.001	93	1616235	200.0	197.1	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	92	590372	200.0	190.2	
74 Ethyl methacrylate	69	8.181	8.180	0.001	91	347958	200.0	195.4	
76 Tetrachloroethene	166	8.470	8.469	0.001	91	739480	200.0	189.2	
77 1,3-Dichloropropane	76	8.518	8.517	0.001	92	516482	200.0	185.7	
78 2-Hexanone	43	8.614	8.614	0.000	97	124619	200.0	188.2	
80 Chlorodibromomethane	129	8.796	8.796	0.000	88	421379	200.0	189.1	
81 Ethylene Dibromide	107	8.940	8.940	0.000	100	286502	200.0	180.9	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	82	419925	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	1674206	200.0	188.7	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	90	598262	200.0	190.8	
86 Ethylbenzene	106	9.705	9.705	0.000	99	990544	200.0	177.7	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	97	2290271	200.0	179.2	
88 o-Xylene	91	10.315	10.310	0.005	93	2358548	200.0	183.3	
89 Styrene	104	10.331	10.331	0.000	95	1847322	200.0	191.3	
90 Bromoform	173	10.535	10.534	0.001	98	223830	200.0	189.8	
91 Isopropylbenzene	105	10.716	10.716	0.000	98	3327891	200.0	195.1	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	93	265030	75.0	74.7	
95 Bromobenzene	156	11.027	11.027	0.001	93	648247	200.0	188.8	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	57	283803	200.0	195.4	
97 1,2,3-Trichloropropane	110	11.075	11.075	0.000	87	86848	200.0	178.5	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	84	82443	200.0	196.0	
99 N-Propylbenzene	91	11.139	11.133	0.006	98	3627546	200.0	185.3	
100 2-Chlorotoluene	91	11.225	11.219	0.006	96	1967743	200.0	185.7	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	2724379	200.0	195.1	
102 4-Chlorotoluene	91	11.326	11.326	0.000	96	2232575	200.0	187.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 tert-Butylbenzene	119	11.621	11.620	0.001	91	2605540	200.0	198.1	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	94	2684719	200.0	192.0	
107 sec-Butylbenzene	105	11.819	11.818	0.001	93	3768361	200.0	193.5	
108 1,3-Dichlorobenzene	146	11.926	11.920	0.006	97	1389013	200.0	189.2	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	97	3263795	200.0	194.8	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	212184	50.0	50.0	a
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	96	1338615	200.0	186.0	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	2672914	200.0	182.3	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	98	1187162	200.0	187.9	
116 1,2-Dibromo-3-Chloropropane	75	12.969	12.968	0.001	67	44432	200.0	175.1	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	93	718224	200.0	196.7	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	94	455323	200.0	167.9	
S 124 Xylenes, Total	91				0			362.5	
S 125 Trihalomethanes, Total	1				0			763.6	
S 126 1,3-Dichloropropene, Total	1				0			383.8	
S 127 Trimethylbenzene, Total	1				0			387.1	
S 128 1,2-Dichloroethene, Total	96				0			369.3	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 7.50	Units: uL
8260/624ACRWK_00681	Amount Added: 10.00	Units: uL
8260/624GASWK_01464	Amount Added: 10.00	Units: uL
8260/624KETWK_00635	Amount Added: 10.00	Units: uL
8260/624MEGWK_01401	Amount Added: 10.00	Units: uL
8260VA/2CEVE_00606	Amount Added: 10.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d

Injection Date: 29-Jul-2022 13:32:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD010

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

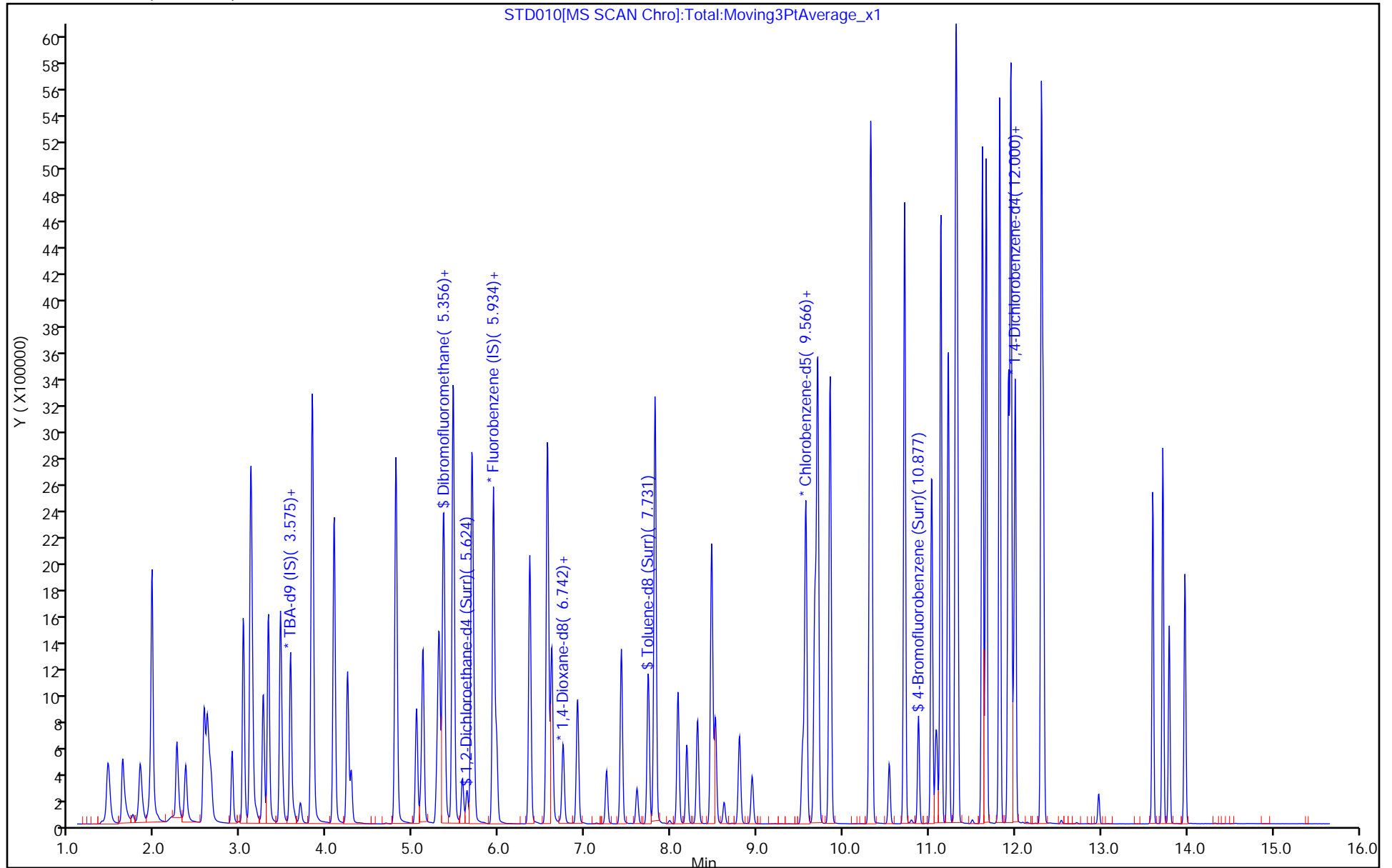
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

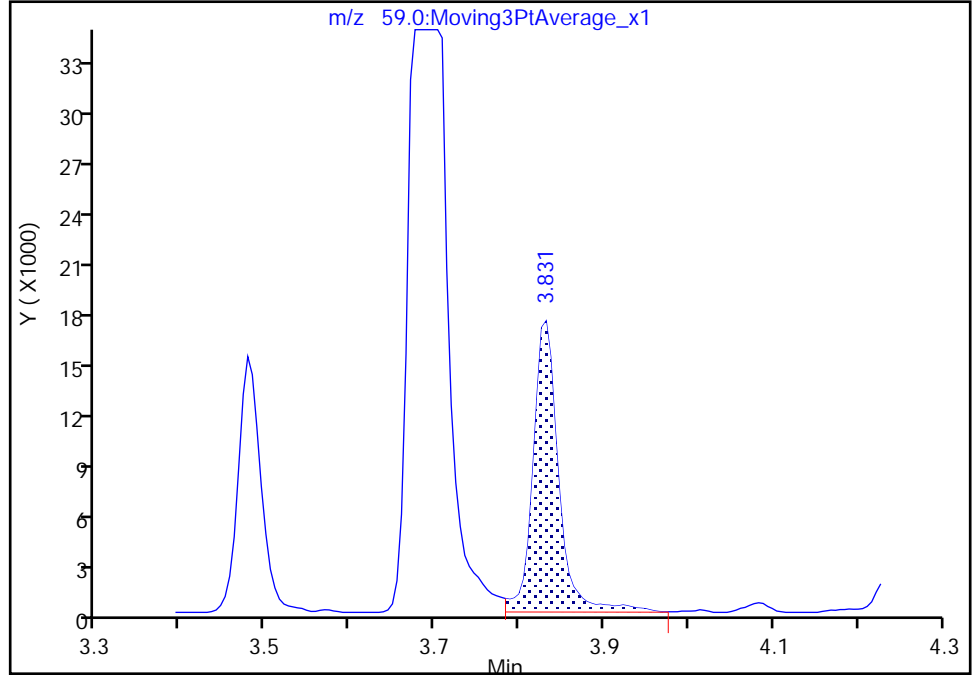
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
Injection Date: 29-Jul-2022 13:32:30 Instrument ID: CMS19
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

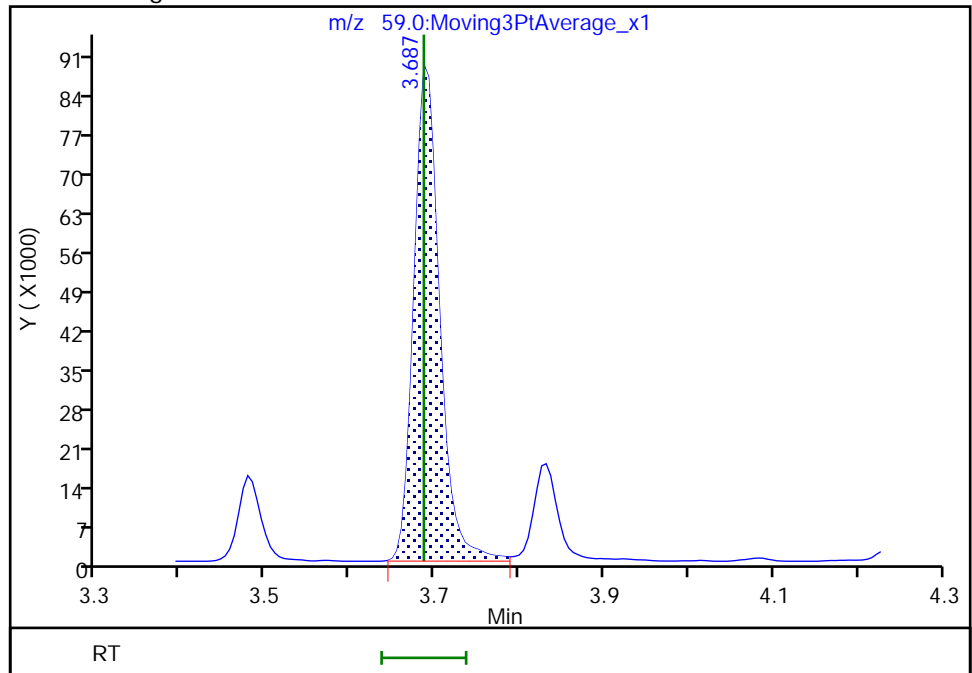
RT: 3.83
Area: 36710
Amount: 2009.1942
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 188114
Amount: 1950.9037
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 18:59:25
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

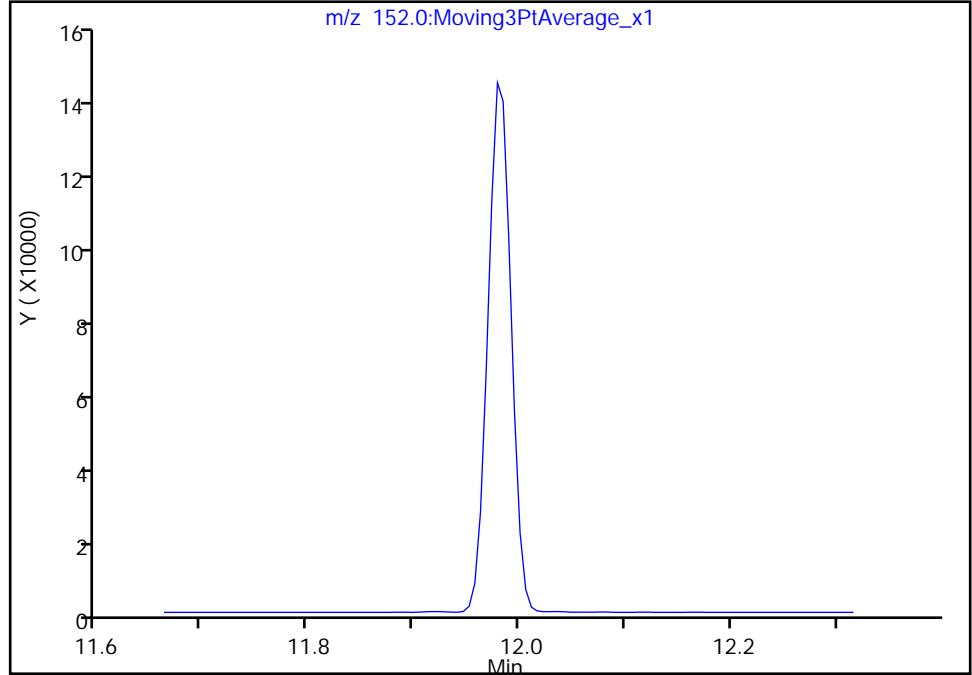
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
Injection Date: 29-Jul-2022 13:32:30 Instrument ID: CMS19
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

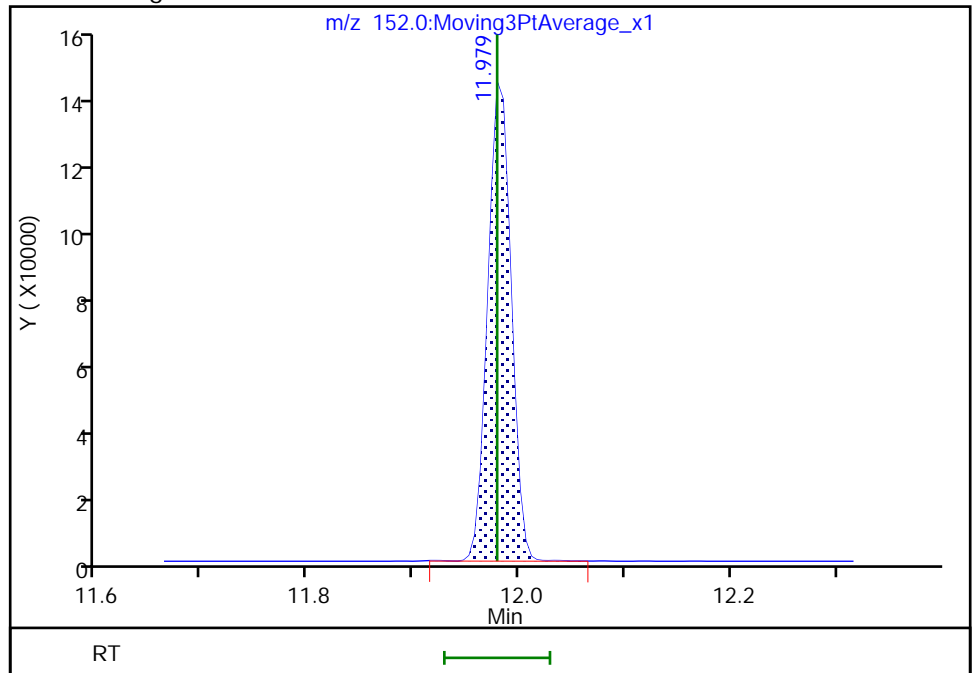
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 212184
Amount: 50.000000
Amount Units: ug/L

Manual Integration Results

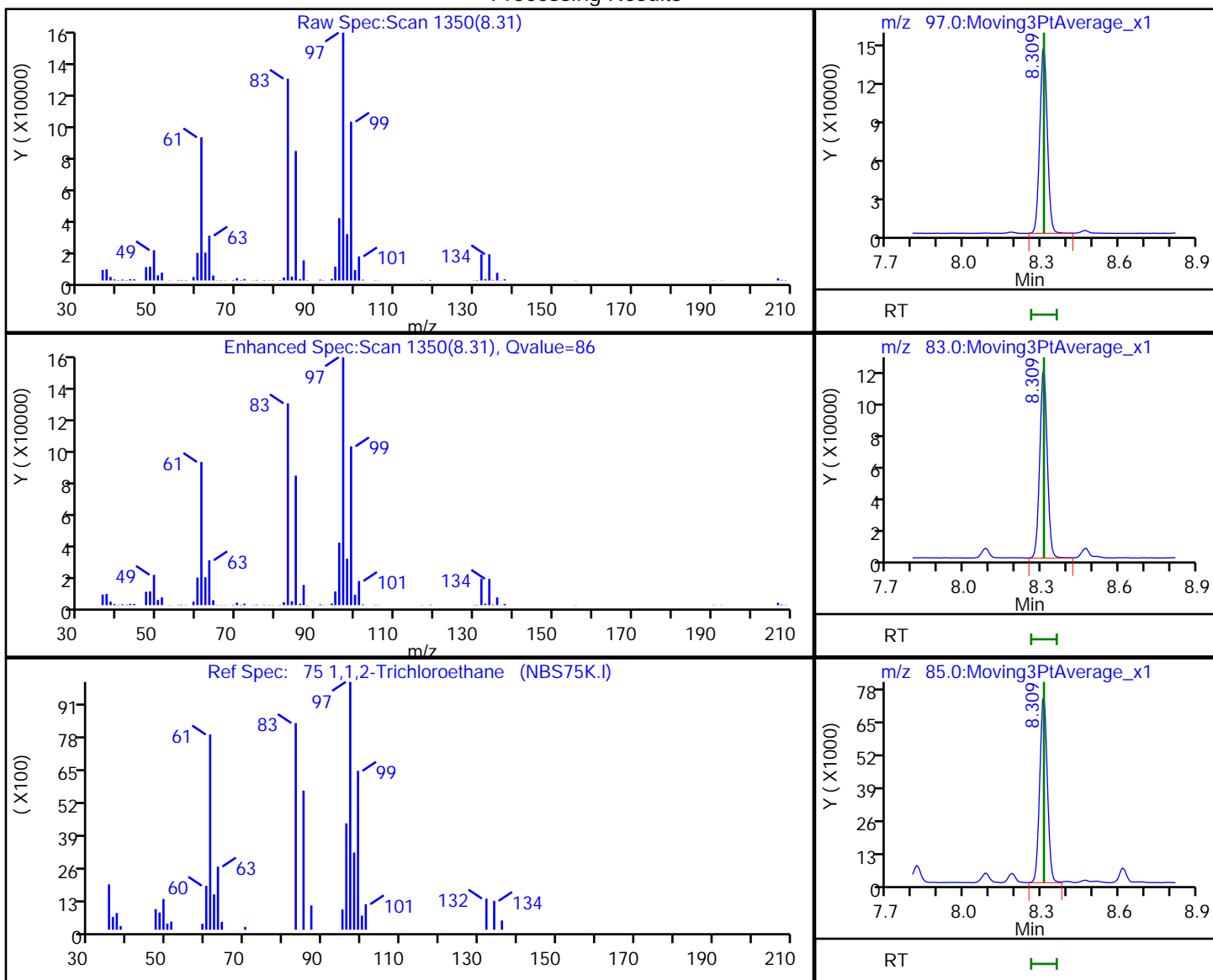


Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
 Injection Date: 29-Jul-2022 13:32:30 Instrument ID: CMS19
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

75 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
8.31	97.00	293608	176.4577
8.31	83.00	240215	
8.31	85.00	154037	

Reviewer: BQP0, 31-Jul-2022 19:11:05

Audit Action: Marked Compound Undetected

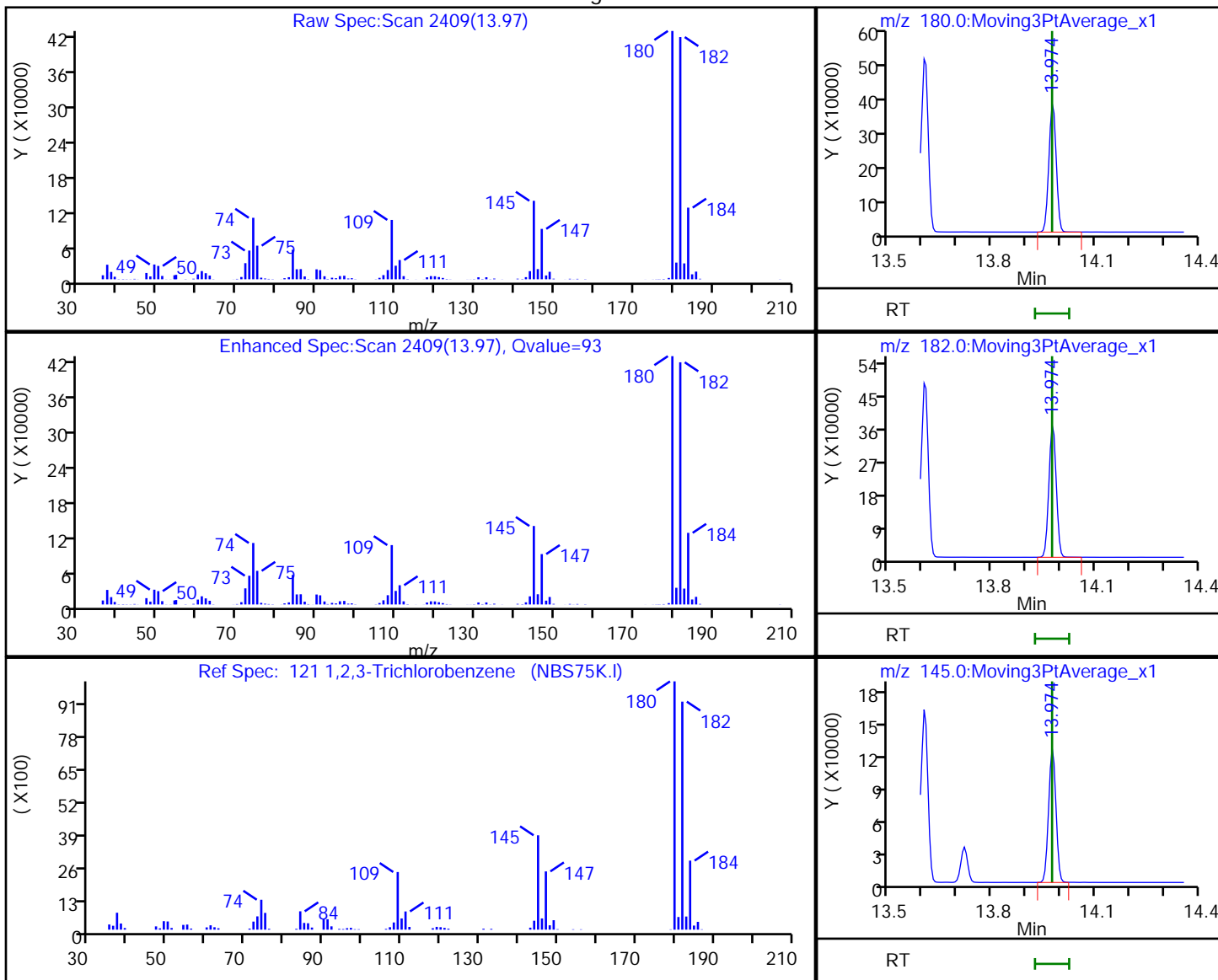
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
 Injection Date: 29-Jul-2022 13:32:30 Instrument ID: CMS19
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

121 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.97	180.00	569799	168.6212
13.97	182.00	548324	
13.97	145.00	180387	

Reviewer: BQP0, 31-Jul-2022 19:12:24

Audit Action: Marked Compound Undetected

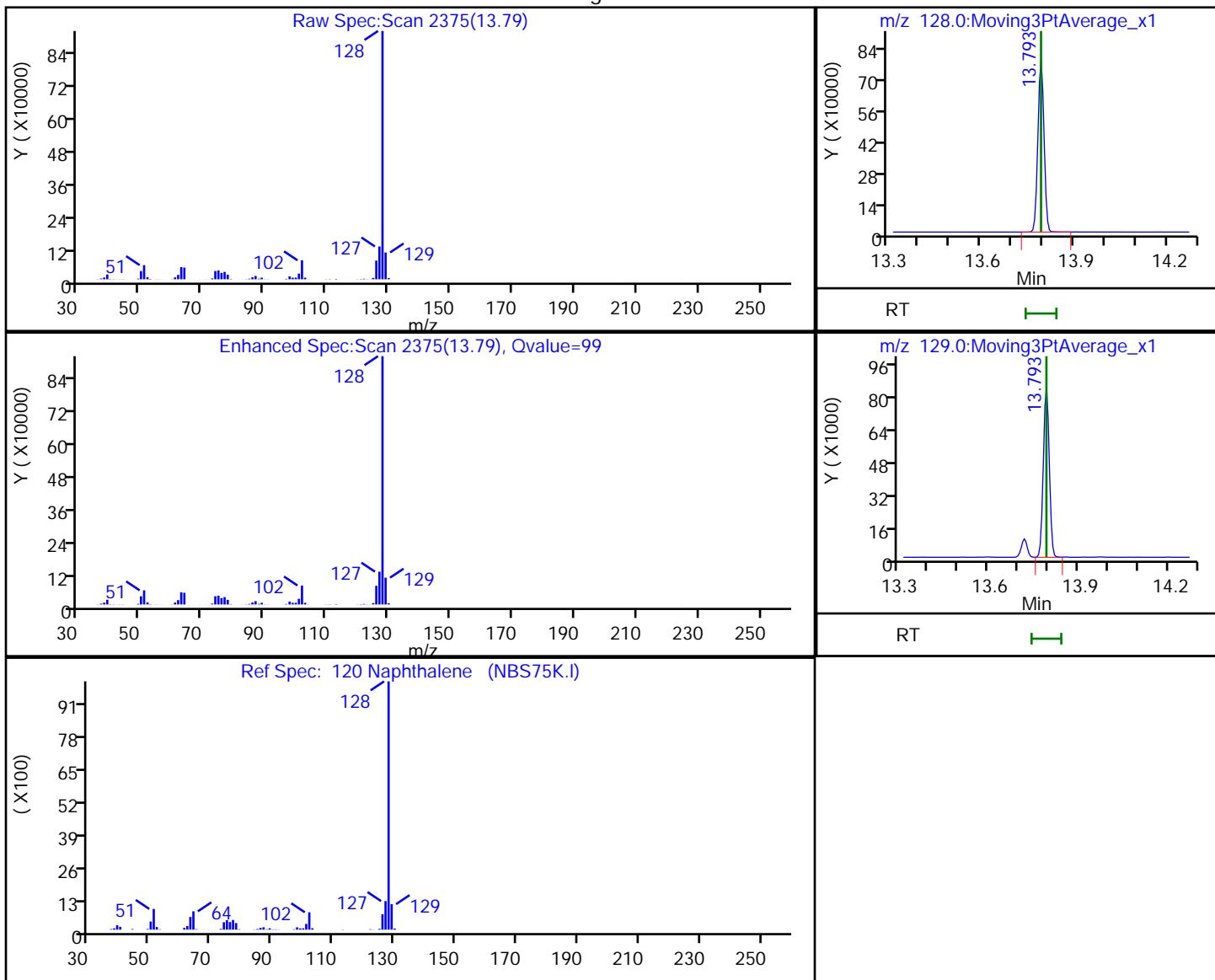
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010.d
Injection Date: 29-Jul-2022 13:32:30 Instrument ID: CMS19
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
13.79	128.00	1097176	165.7727
13.79	129.00	117452	

Reviewer: BQP0, 31-Jul-2022 19:12:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD01a.d
 Lims ID: STD01
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Jul-2022 15:09:30 ALS Bottle#: 16 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD01
 Misc. Info.: 500-0087271-003
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:00 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 29-Jul-2022 15:40:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	73260	1000.0	1000.0	
50 Benzene	78	5.688	5.682	0.006	66	3316	0.2500	0.2909	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	522032	50.0	50.0	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	75	9270	1000.0	1000.0	
72 Toluene	92	7.811	7.811	0.000	67	2609	0.2500	0.2485	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	339576	50.0	50.0	
86 Ethylbenzene	106	9.700	9.705	-0.005	66	1488	0.2500	0.3301	
87 m-Xylene & p-Xylene	91	9.844	9.850	-0.006	77	3236	0.2500	0.3130	
88 o-Xylene	91	10.315	10.310	0.005	72	3267	0.2500	0.3140	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	177328	50.0	50.0	
S 124 Xylenes, Total	91				0			0.6270	

QC Flag Legend

Processing Flags

Reagents:

LEVEL1 8260_00012 Amount Added: 2.50 Units: uL
 8260 LOWIS1_00170 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD01a.d

Injection Date: 29-Jul-2022 15:09:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD01

Worklist Smp#: 27

Client ID:

Purge Vol: 5.000 mL

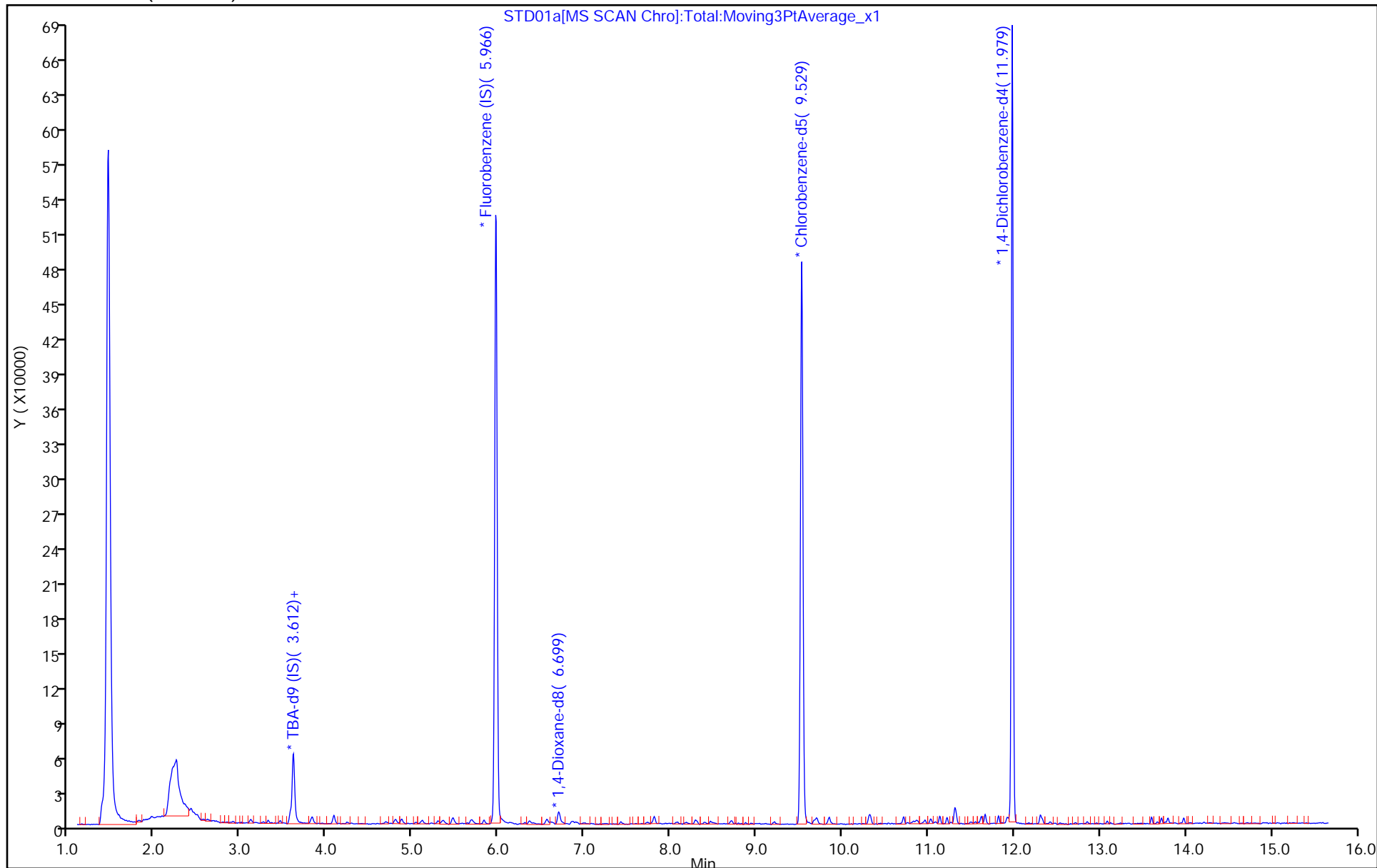
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)

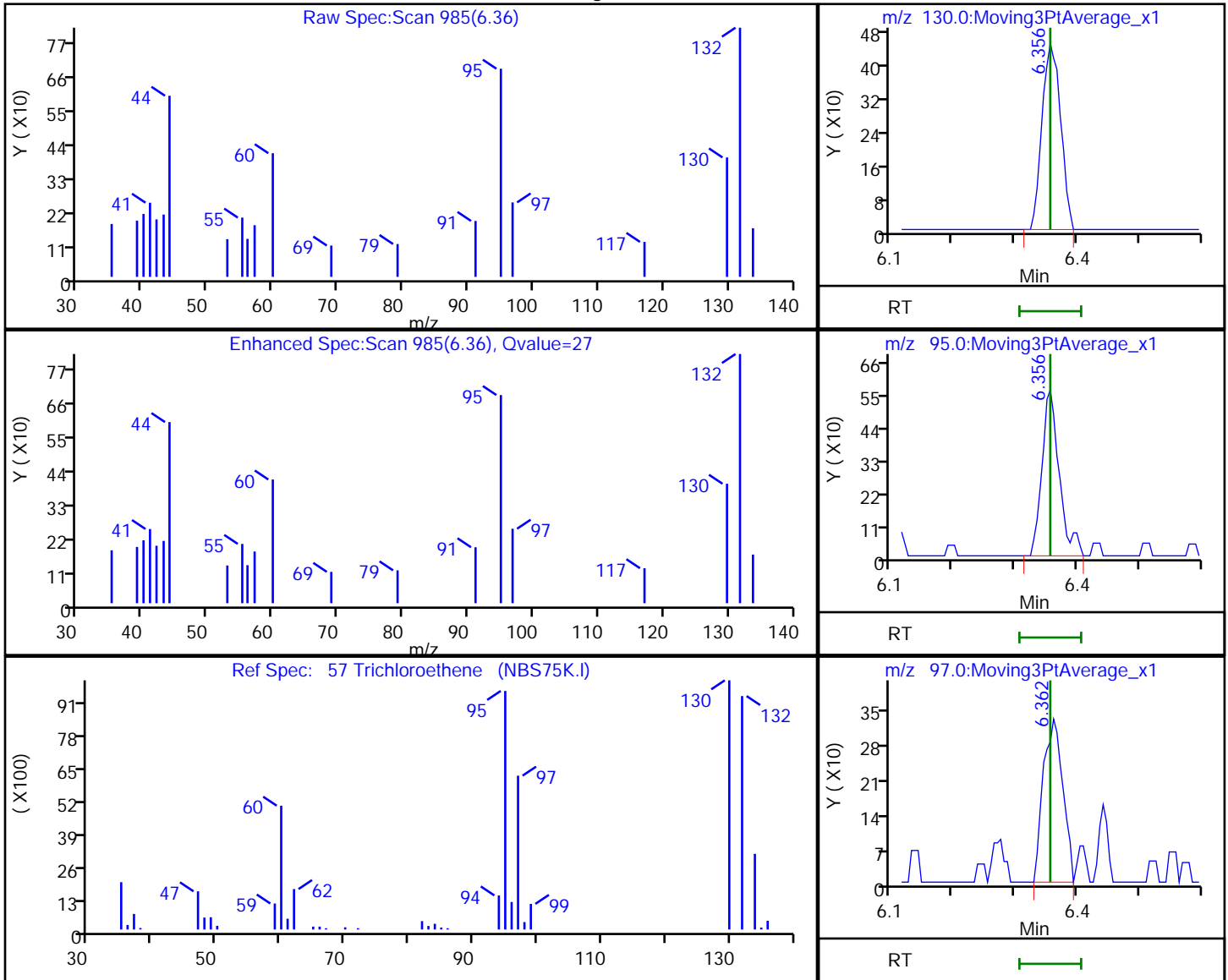


Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD01a.d
 Injection Date: 29-Jul-2022 15:09:30 Instrument ID: CMS19
 Lims ID: STD01
 Client ID:
 Operator ID: EA ALS Bottle#: 16 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
6.36	130.00	941	0.271404
6.36	95.00	1095	
6.36	97.00	714	

Reviewer: BQP0, 29-Jul-2022 15:26:41

Audit Action: Marked Compound Undetected

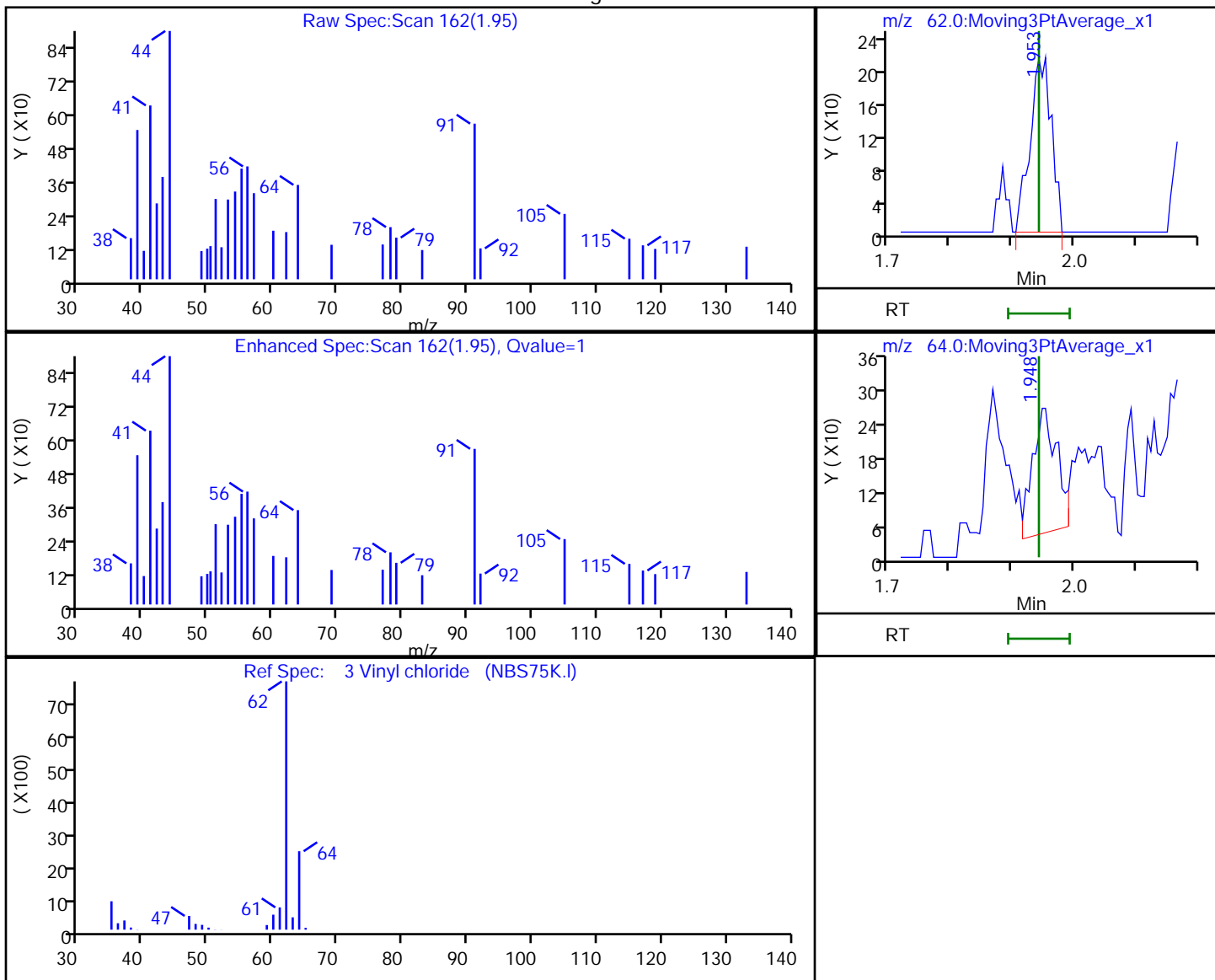
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD01a.d
 Injection Date: 29-Jul-2022 15:09:30 Instrument ID: CMS19
 Lims ID: STD01
 Client ID:
 Operator ID: EA ALS Bottle#: 16 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.95	62.00	519	0.170777
1.95	64.00	604	

Reviewer: BQP0, 29-Jul-2022 15:26:38

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD02a.d
 Lims ID: STD02
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Jul-2022 15:33:30 ALS Bottle#: 17 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD02
 Misc. Info.: 500-0087271-004
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:03 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0 Date: 29-Jul-2022 15:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 23 TBA-d9 (IS)	65	3.606	3.606	0.000	97	75415	1000.0	1000.0	
50 Benzene	78	5.682	5.682	0.000	94	6344	0.5000	0.5140	
* 55 Fluorobenzene (IS)	96	5.971	5.966	0.005	99	565295	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	46	1862	0.5000	0.5149	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	61	9725	1000.0	1000.0	
72 Toluene	92	7.811	7.811	0.000	81	4323	0.5000	0.4522	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	370780	50.0	50.0	
86 Ethylbenzene	106	9.705	9.705	0.000	82	2424	0.5000	0.4925	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	87	6080	0.5000	0.5386	
88 o-Xylene	91	10.310	10.310	0.000	77	5800	0.5000	0.5105	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	186270	50.0	50.0	
S 124 Xylenes, Total	91				0			1.05	

QC Flag Legend

Processing Flags

Reagents:

LEVEL1 8260_00012 Amount Added: 5.00 Units: uL
 8260 LOWIS1_00170 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD02a.d

Injection Date: 29-Jul-2022 15:33:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD02

Worklist Smp#: 28

Client ID:

Purge Vol: 5.000 mL

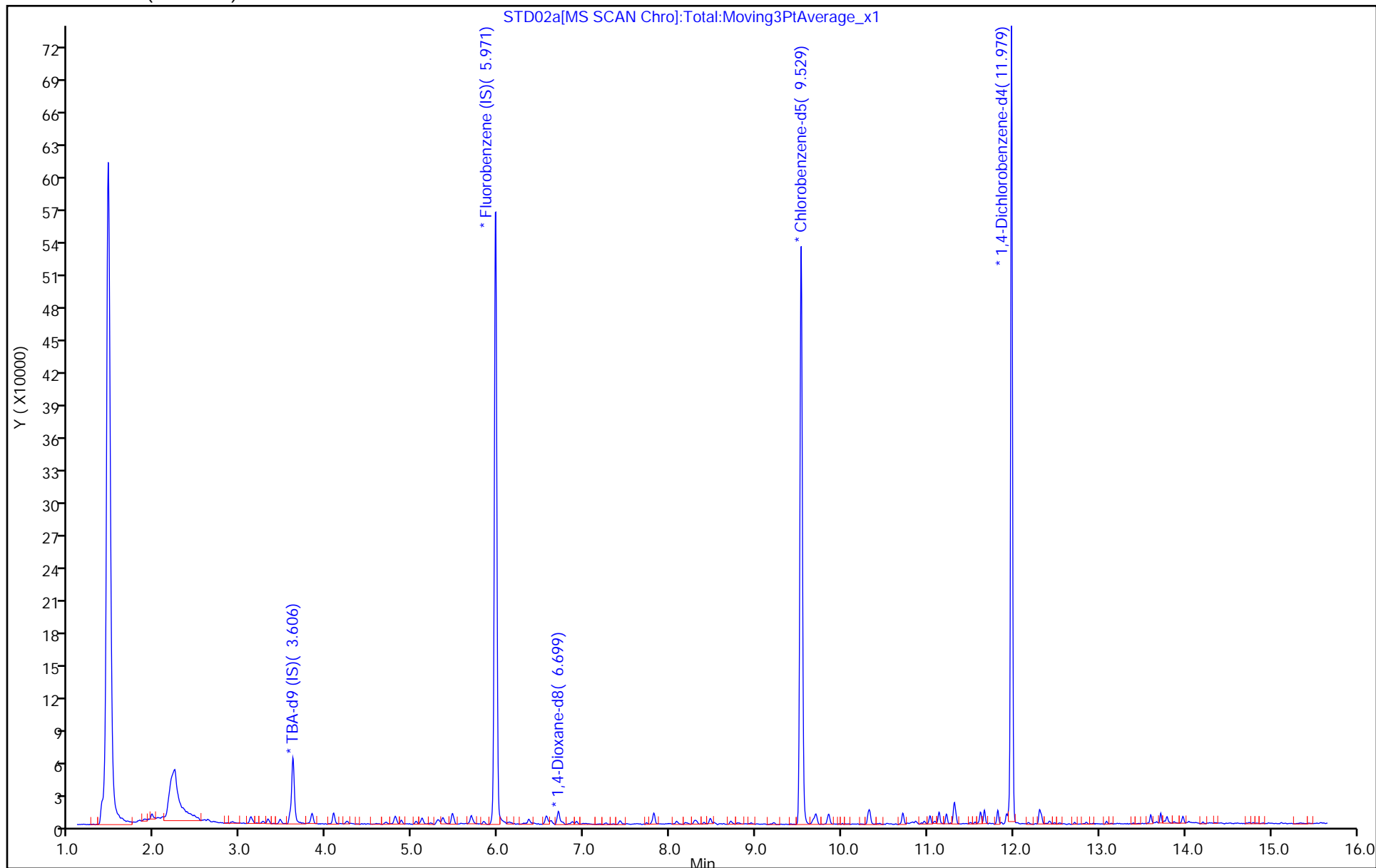
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)

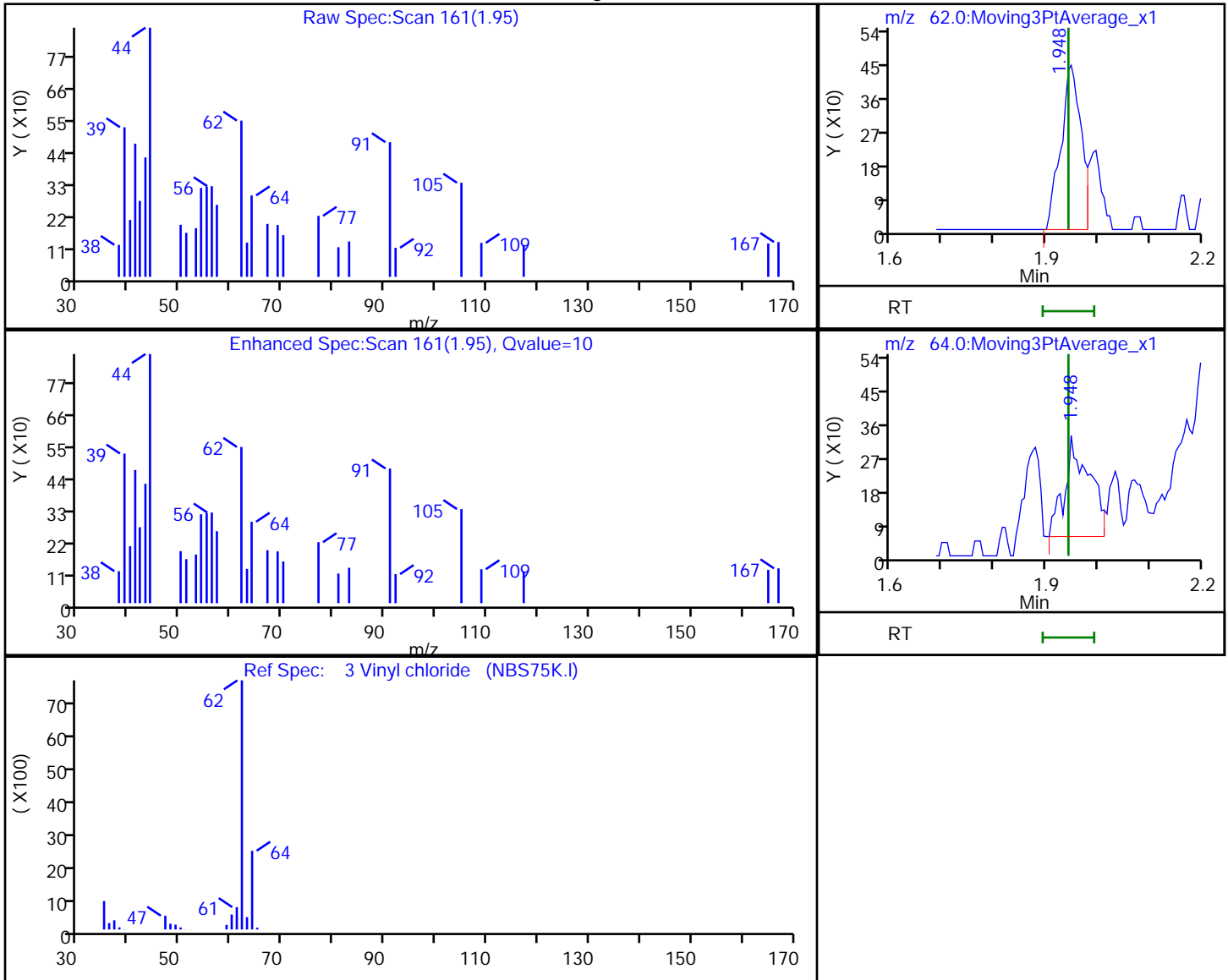


Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD02a.d
Injection Date: 29-Jul-2022 15:33:30 Instrument ID: CMS19
Lims ID: STD02
Client ID:
Operator ID: EA ALS Bottle#: 17 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.95	62.00	1215	0.366945
1.95	64.00	911	

Reviewer: BQP0, 29-Jul-2022 15:52:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Lims ID: STD03
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2022 15:57:30 ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD03
 Misc. Info.: 500-0087271-005
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:06 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 30-Jul-2022 10:19:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	3	3553	1.00	1.02	
2 Chloromethane	50	1.830	1.825	0.005	29	3682	1.00	1.04	a
3 Vinyl chloride	62	1.948	1.943	0.005	38	3627	1.00	1.06	
4 Butadiene	39	1.964	1.959	0.005	93	3514	1.00	1.06	
6 Chloroethane	64	2.360	2.355	0.005	83	2313	1.00	1.08	
8 Dichlorofluoromethane	67	2.569	2.569	0.000	49	4997	1.00	1.03	
9 Trichlorofluoromethane	101	2.611	2.611	0.000	60	5263	1.00	1.06	
11 Ethyl ether	59	2.895	2.895	0.000	71	1872	1.00	1.26	
12 Acrolein	56	3.023	3.023	0.000	79	5759	40.0	38.9	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	80	3231	1.00	1.08	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.120	3.120	0.000	67	3639	1.00	1.10	
16 Iodomethane	142	3.259	3.259	0.000	95	5779	1.00	1.08	
17 Carbon disulfide	76	3.318	3.318	0.000	97	11712	1.00	1.12	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	73	2191	1.00	1.12	
21 Methyl acetate	43	3.483	3.478	0.005	83	2304	2.00	1.97	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	74673	1000.0	1000.0	
25 Acrylonitrile	53	3.820	3.815	0.005	96	4938	10.0	11.7	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	85	4944	1.00	1.09	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	93	3619	1.00	1.08	
28 Hexane	57	4.083	4.083	0.000	85	7665	1.00	0.9133	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	62	5862	1.00	1.10	
30 Vinyl acetate	43	4.281	4.281	0.000	92	2706	1.00	0.9845	
34 2,2-Dichloropropane	77	4.799	4.799	0.000	67	5336	1.00	1.20	
35 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	3810	1.00	1.15	
39 Chlorobromomethane	128	5.040	5.040	0.000	69	1551	1.00	1.17	
44 1,1,1-Trichloroethane	97	5.297	5.302	-0.005	67	5346	1.00	1.10	
45 Cyclohexane	56	5.356	5.350	0.006	89	6496	1.00	1.08	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	78	4808	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
47 Carbon tetrachloride	117	5.468	5.468	0.000	76	4760	1.00	1.02	
50 Benzene	78	5.682	5.682	0.000	96	13490	1.00	1.09	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	60	3000	1.00	1.14	
54 n-Heptane	43	5.928	5.934	-0.006	80	6316	1.00	1.20	a
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	565551	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	71	3979	1.00	1.10	
59 Methylcyclohexane	83	6.560	6.559	0.001	87	7295	1.00	1.12	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	60	2894	1.00	1.13	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	75	10292	1000.0	1000.0	
63 Dibromomethane	93	6.741	6.741	0.000	68	1172	1.00	1.07	
66 Dichlorobromomethane	83	6.913	6.913	0.000	72	3417	1.00	1.09	
68 2-Chloroethyl vinyl ether	63	7.244	7.250	-0.006	21	817	1.00	0.9259	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	51	3723	1.00	0.99	
72 Toluene	92	7.811	7.811	0.000	86	8688	1.00	1.02	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	69	3098	1.00	1.09	
74 Ethyl methacrylate	69	8.180	8.180	0.000	37	2495	1.00	0.8172	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	29	1824	1.00	0.8090	
76 Tetrachloroethene	166	8.469	8.469	0.000	83	3857	1.00	1.08	
77 1,3-Dichloropropane	76	8.517	8.517	0.000	72	2841	1.00	1.12	
80 Chlorodibromomethane	129	8.796	8.796	0.000	21	2514	1.00	1.24	
81 Ethylene Dibromide	107	8.945	8.940	0.005	54	1722	1.00	1.19	a
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	382869	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	91	8960	1.00	1.11	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	72	2937	1.00	1.03	
86 Ethylbenzene	106	9.700	9.705	-0.005	94	5689	1.00	1.12	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	93	12547	1.00	1.08	
88 o-Xylene	91	10.310	10.310	0.000	91	12049	1.00	1.03	
89 Styrene	104	10.331	10.331	0.000	93	9398	1.00	1.07	
90 Bromoform	173	10.534	10.534	0.000	44	1186	1.00	1.10	
91 Isopropylbenzene	105	10.716	10.716	0.000	93	16466	1.00	1.07	
95 Bromobenzene	156	11.027	11.027	0.000	94	3424	1.00	1.10	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	27	1992	1.00	0.8894	
97 1,2,3-Trichloropropane	110	11.080	11.075	0.005	42	464	1.00	1.06	
99 N-Propylbenzene	91	11.133	11.133	0.000	95	18925	1.00	1.07	
100 2-Chlorotoluene	91	11.219	11.219	0.000	86	10544	1.00	1.10	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	90	13652	1.00	1.08	
102 4-Chlorotoluene	91	11.326	11.326	0.000	94	11858	1.00	1.11	
104 tert-Butylbenzene	119	11.620	11.620	0.000	87	12694	1.00	1.07	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	90	14216	1.00	1.13	
107 sec-Butylbenzene	105	11.818	11.818	0.000	86	18655	1.00	1.06	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	89	7646	1.00	1.15	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	91	16066	1.00	1.06	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	191457	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	59	7685	1.00	1.18	a
115 n-Butylbenzene	91	12.305	12.305	0.000	96	14719	1.00	1.11	
114 1,2-Dichlorobenzene	146	12.326	12.326	0.000	89	6618	1.00	1.16	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	79	4707	1.00	0.6776	
119 Hexachlorobutadiene	225	13.717	13.717	0.000	78	2863	1.00	1.17	
120 Naphthalene	128	13.792	13.792	0.000	85	7642	1.00	0.7254	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	77	3448	1.00	0.7139	
S 124 Xylenes, Total	91				0			2.10	
S 125 Trihalomethanes, Total	1				0			3.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 1,3-Dichloropropene, Total	1				0			2.09	
S 127 Trimethylbenzene, Total	1				0			2.21	
S 128 1,2-Dichloroethene, Total	96				0			2.24	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LO8260/624STD_00548	Amount Added: 1.00	Units: uL
LOW8260ACR_00326	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d

Injection Date: 29-Jul-2022 15:57:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD03

Worklist Smp#: 29

Client ID:

Purge Vol: 5.000 mL

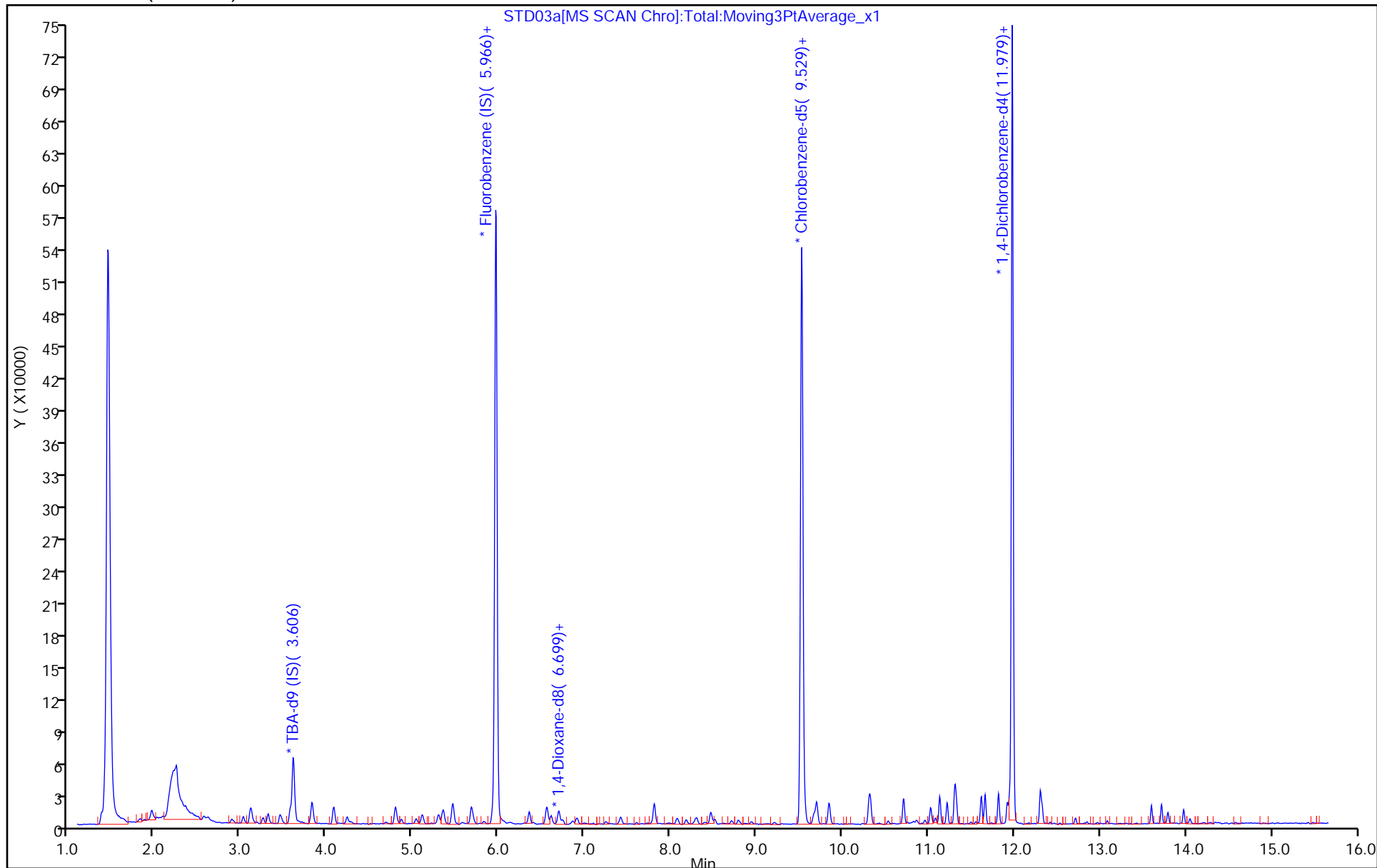
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

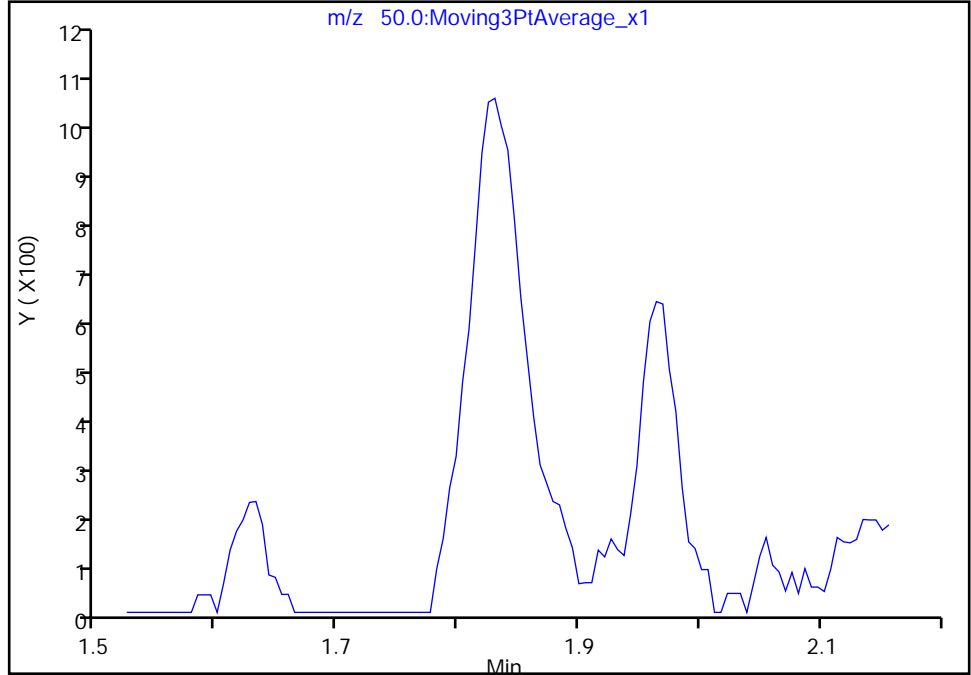
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Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

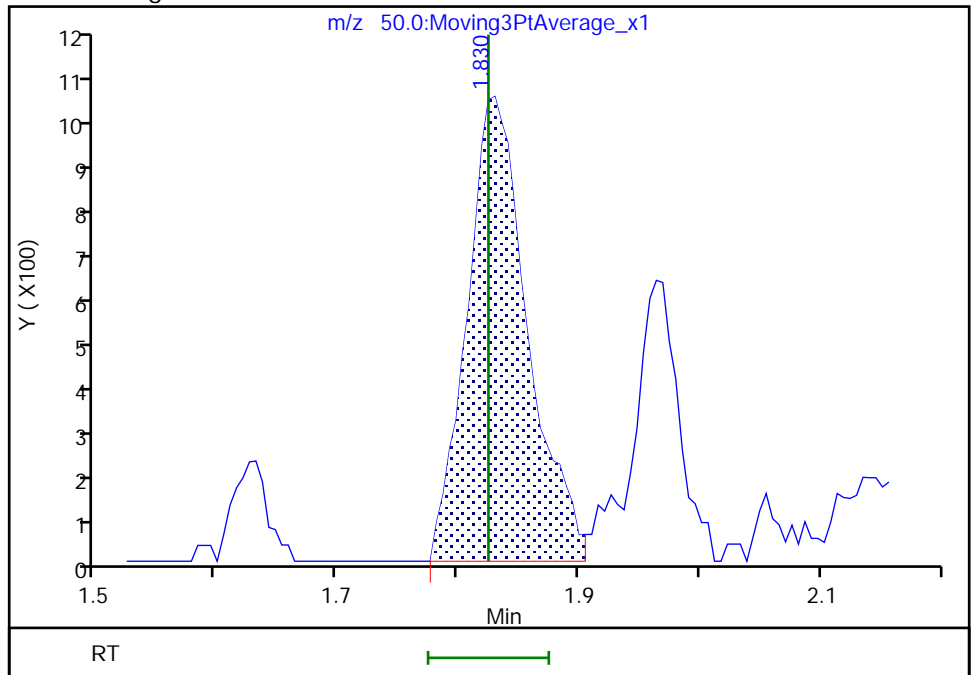
Not Detected
Expected RT: 1.83

Processing Integration Results



Manual Integration Results

RT: 1.83
Area: 3682
Amount: 1.041143
Amount Units: ug/L



Eurofins Chicago

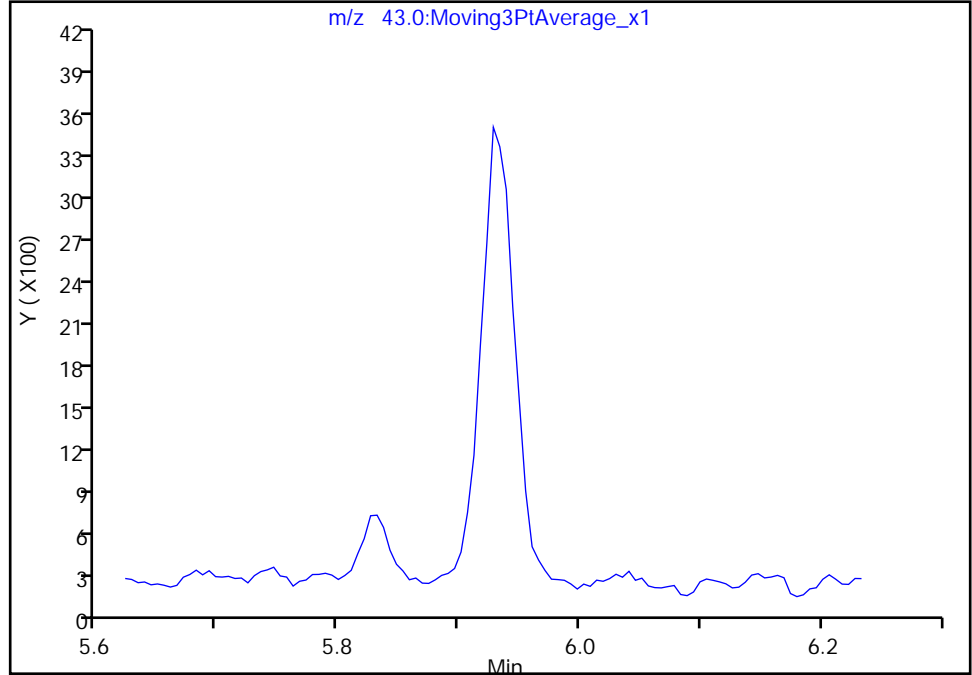
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Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

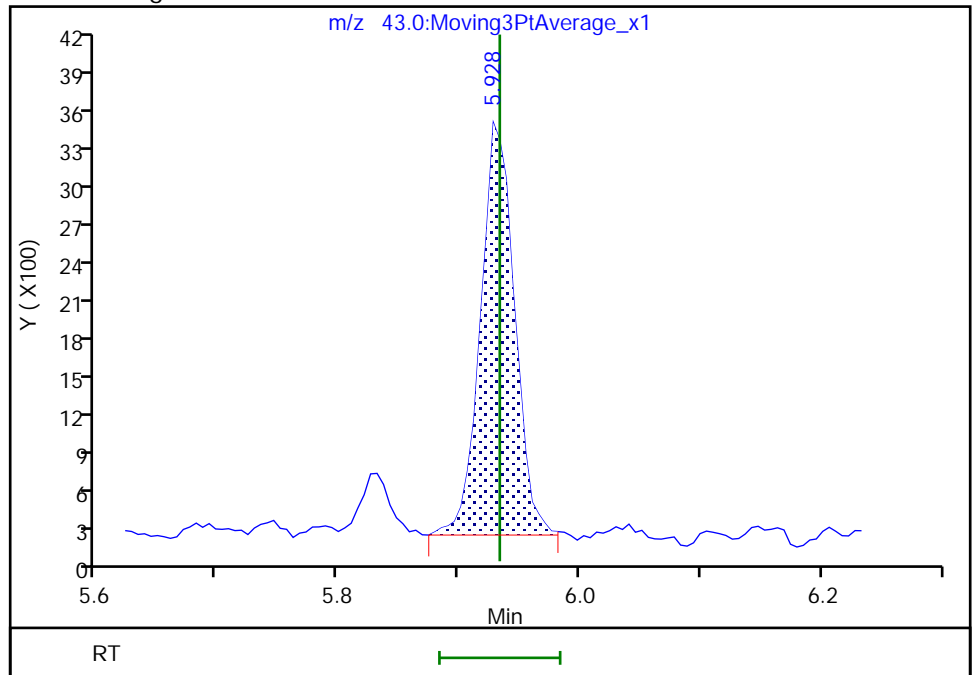
Not Detected
Expected RT: 5.93

Processing Integration Results



RT: 5.93
Area: 6316
Amount: 1.198909
Amount Units: ug/L

Manual Integration Results



Eurofins Chicago

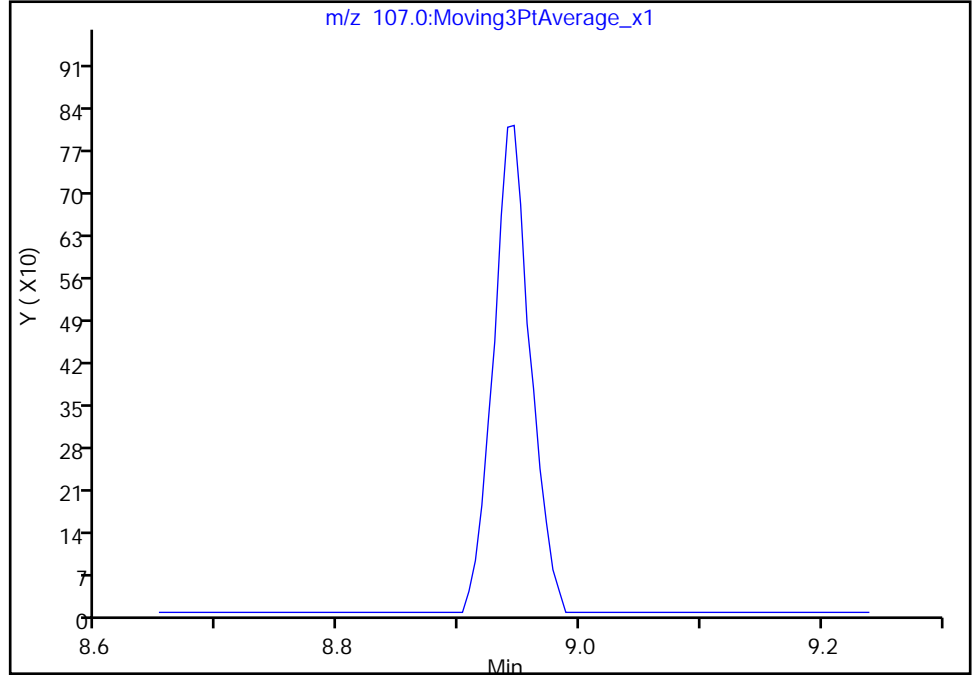
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Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

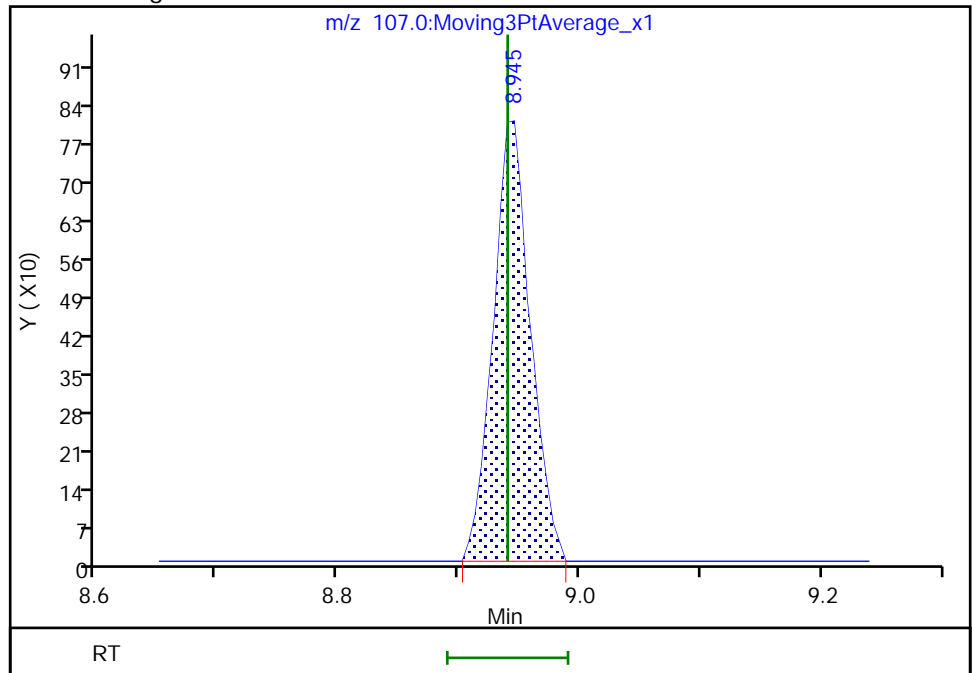
Not Detected
Expected RT: 8.94

Processing Integration Results



RT: 8.95
Area: 1722
Amount: 1.192740
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 30-Jul-2022 10:19:04
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

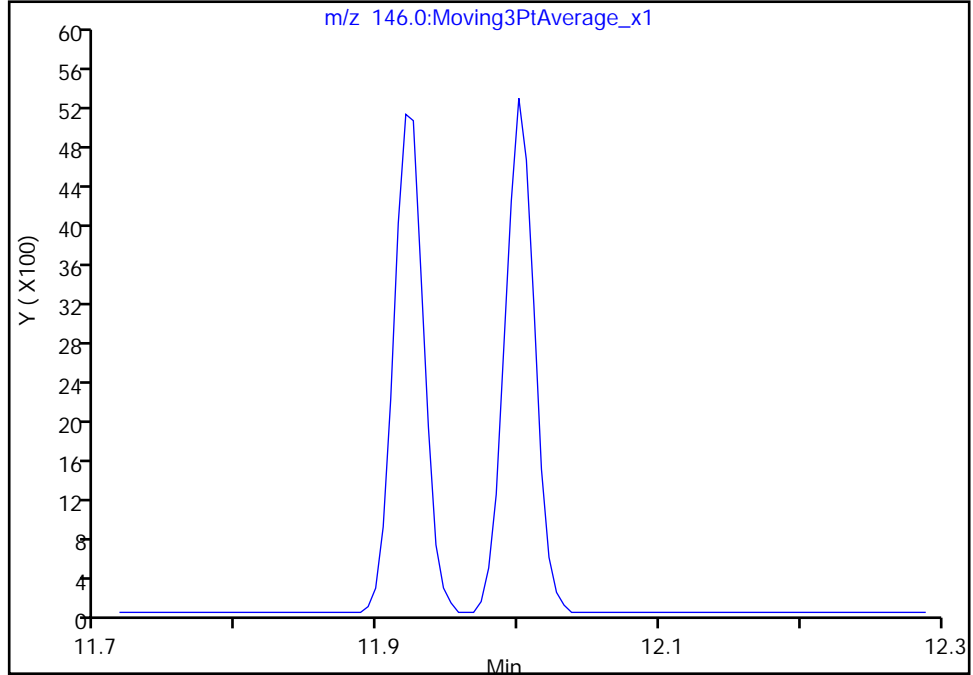
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Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

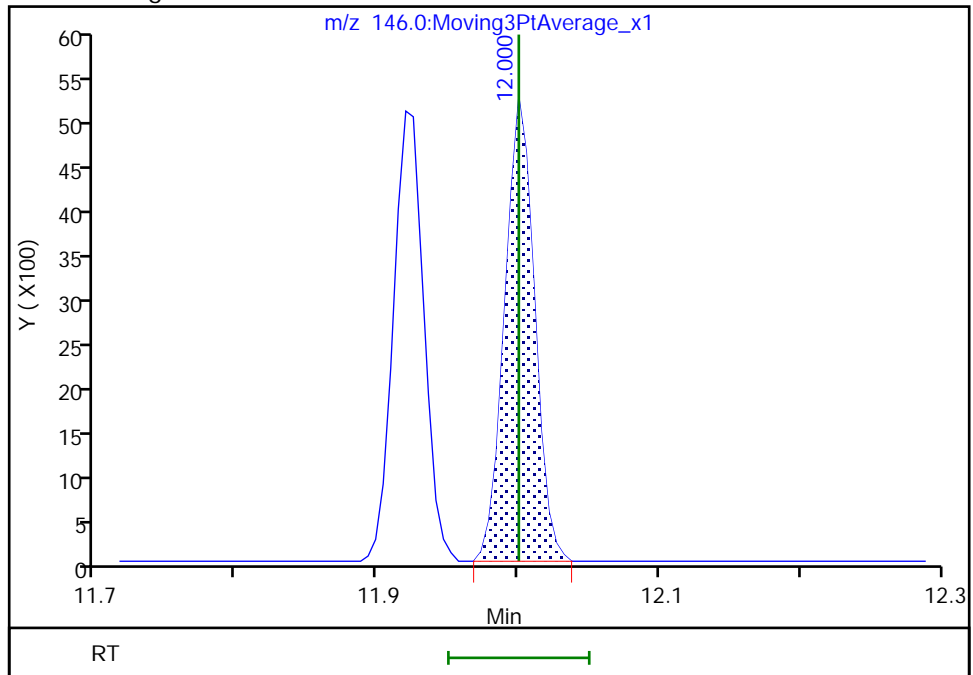
Not Detected
Expected RT: 12.00

Processing Integration Results



RT: 12.00
Area: 7685
Amount: 1.183340
Amount Units: ug/L

Manual Integration Results



Eurofins Chicago

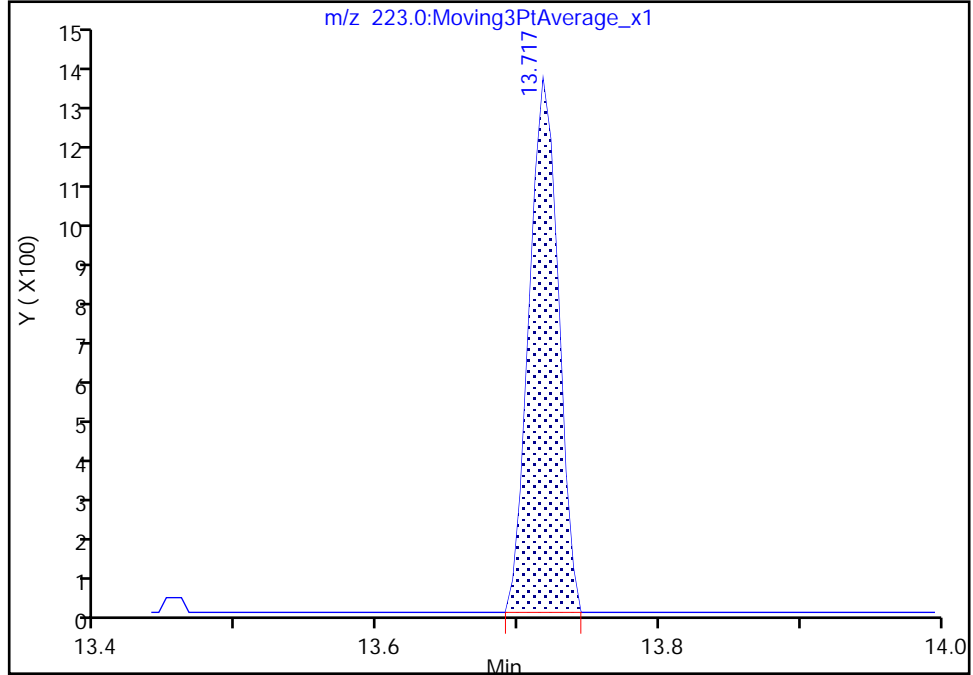
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Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 2

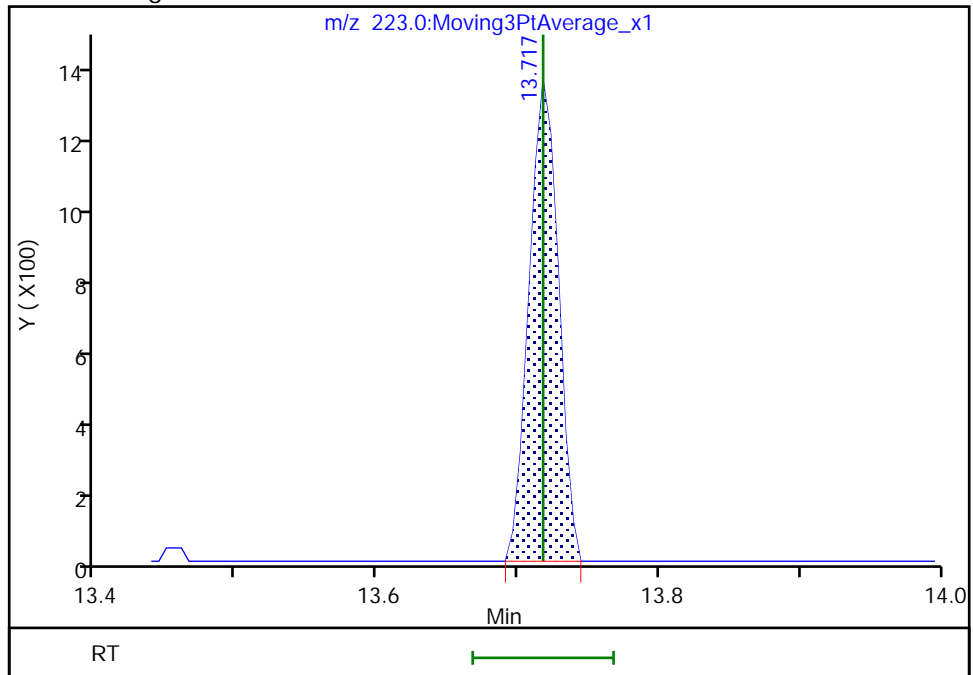
RT: 13.72
Area: 1922
Amount: 1.169917
Amount Units: ug/L

Processing Integration Results



RT: 13.72
Area: 1922
Amount: 1.169917
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 30-Jul-2022 10:19:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

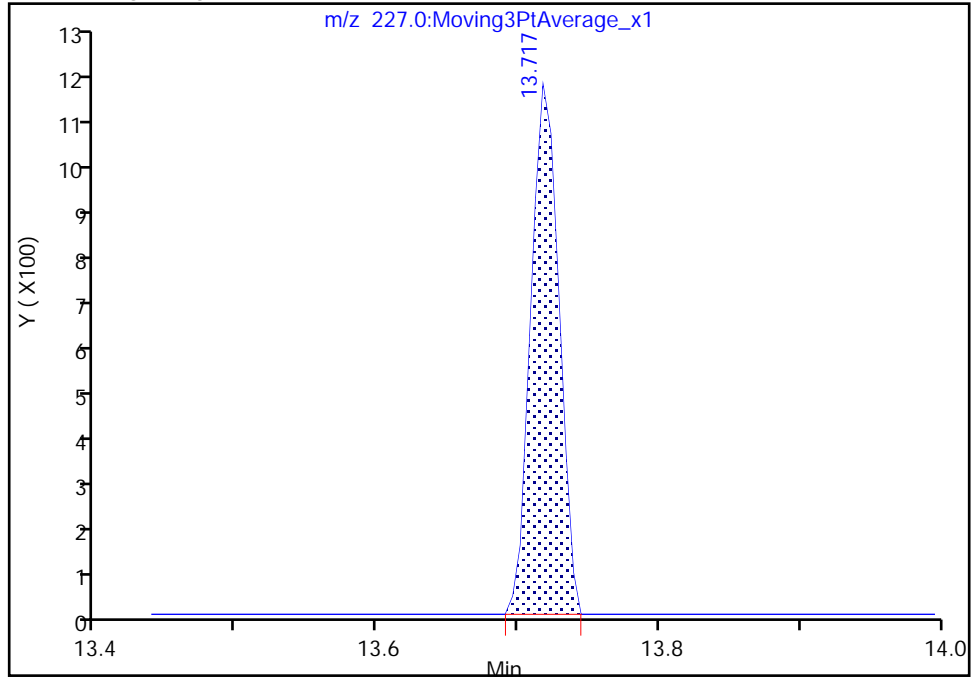
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 3

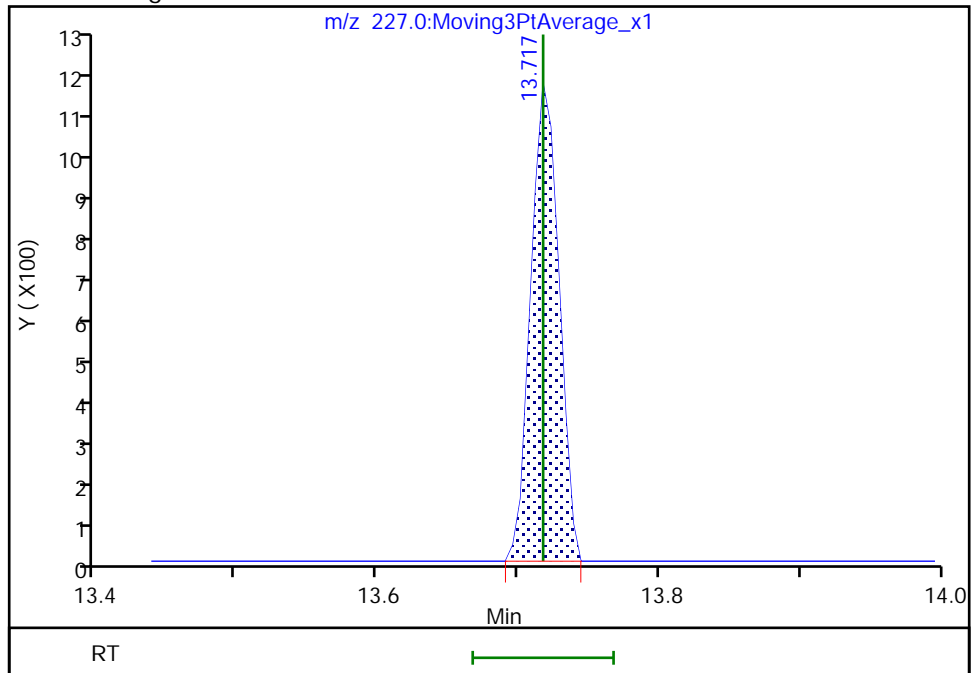
RT: 13.72
Area: 1605
Amount: 1.169917
Amount Units: ug/L

Processing Integration Results



RT: 13.72
Area: 1605
Amount: 1.169917
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 30-Jul-2022 10:19:26

Audit Action: Marked Compound Undetected

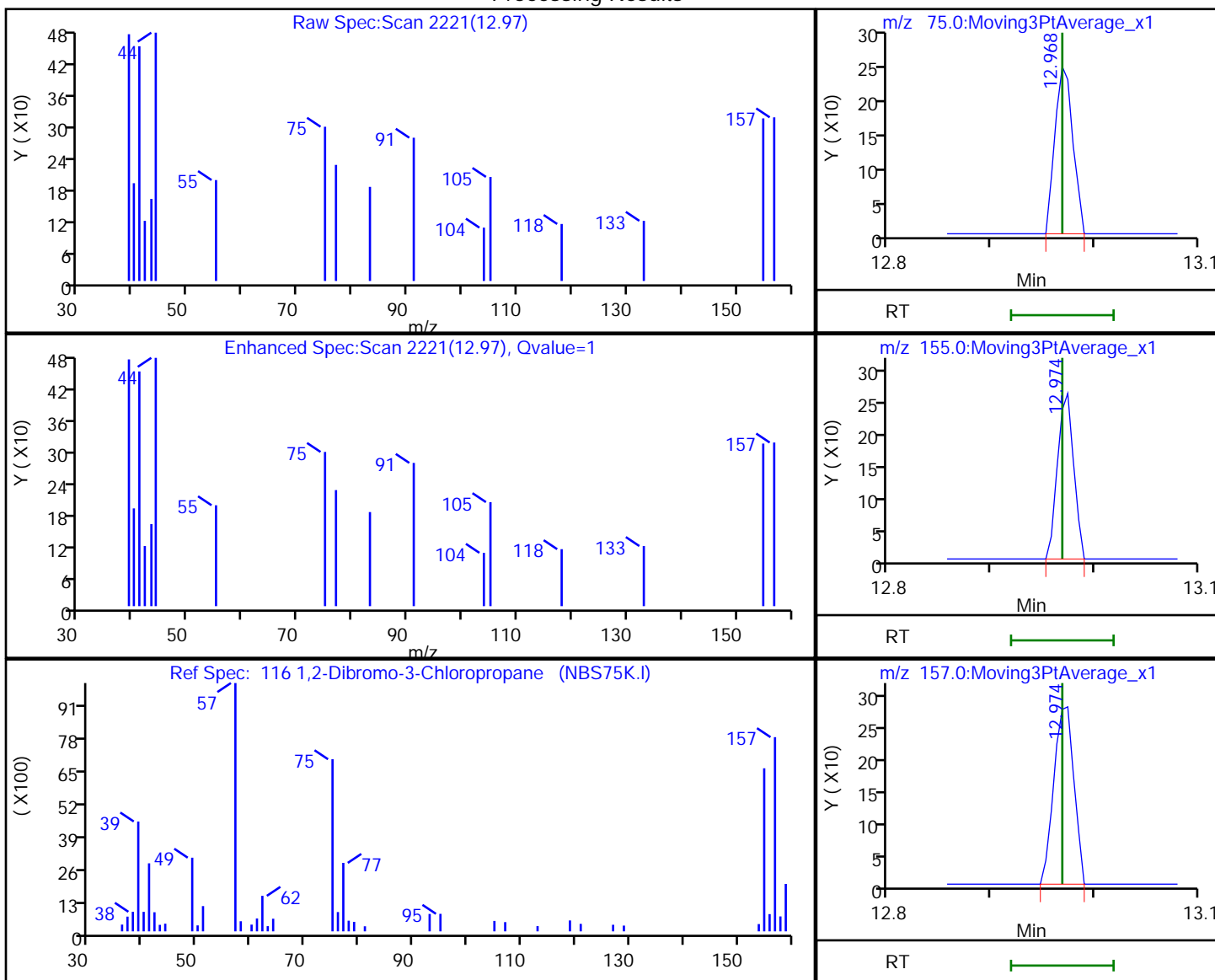
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
12.97	75.00	297	0.728874
12.97	155.00	280	
12.97	157.00	376	

Reviewer: BQP0, 31-Jul-2022 19:04:46

Audit Action: Marked Compound Undetected

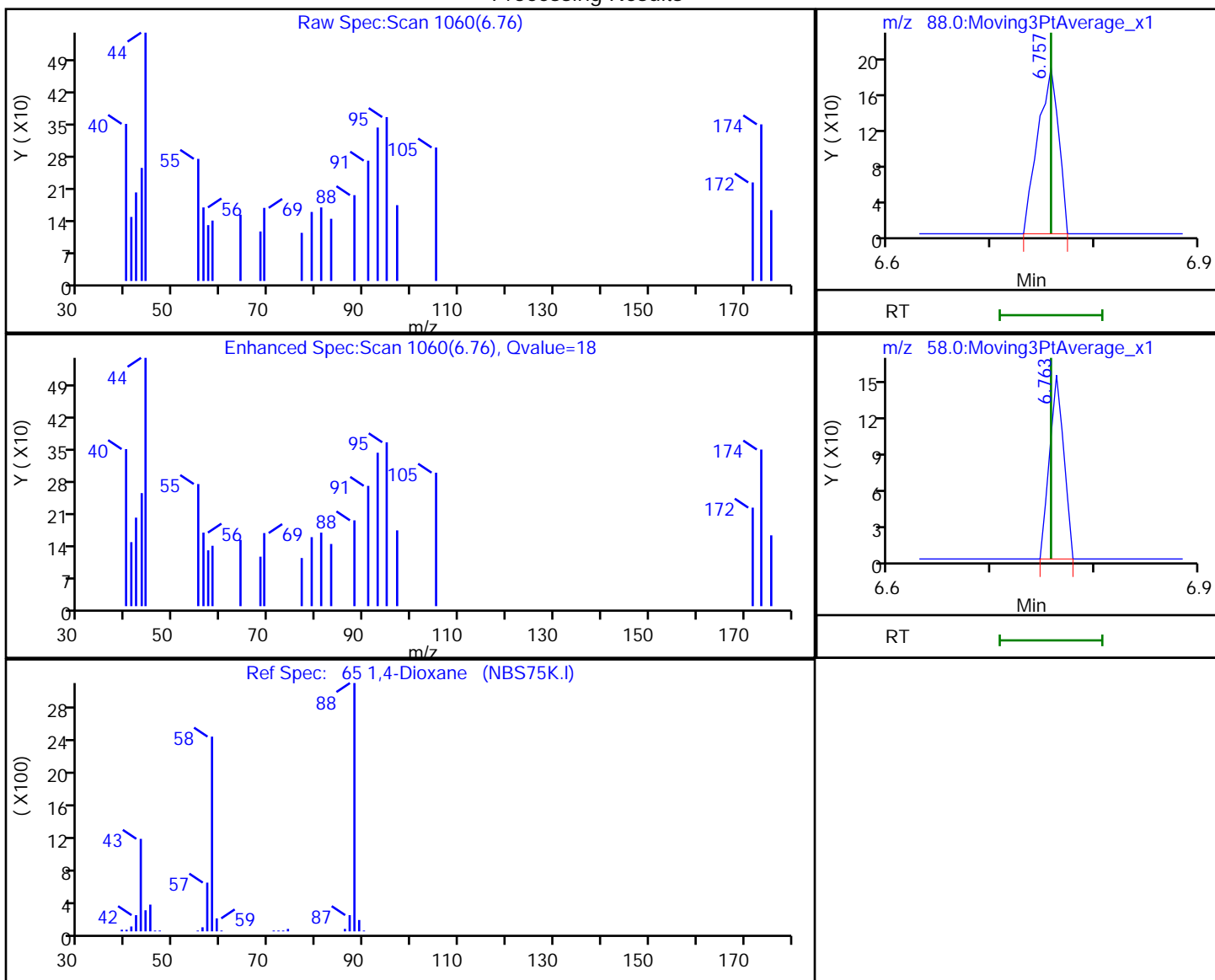
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.76	88.00	265	11.471772
6.76	58.00	143	

Reviewer: BQP0, 30-Jul-2022 10:18:51

Audit Action: Marked Compound Undetected

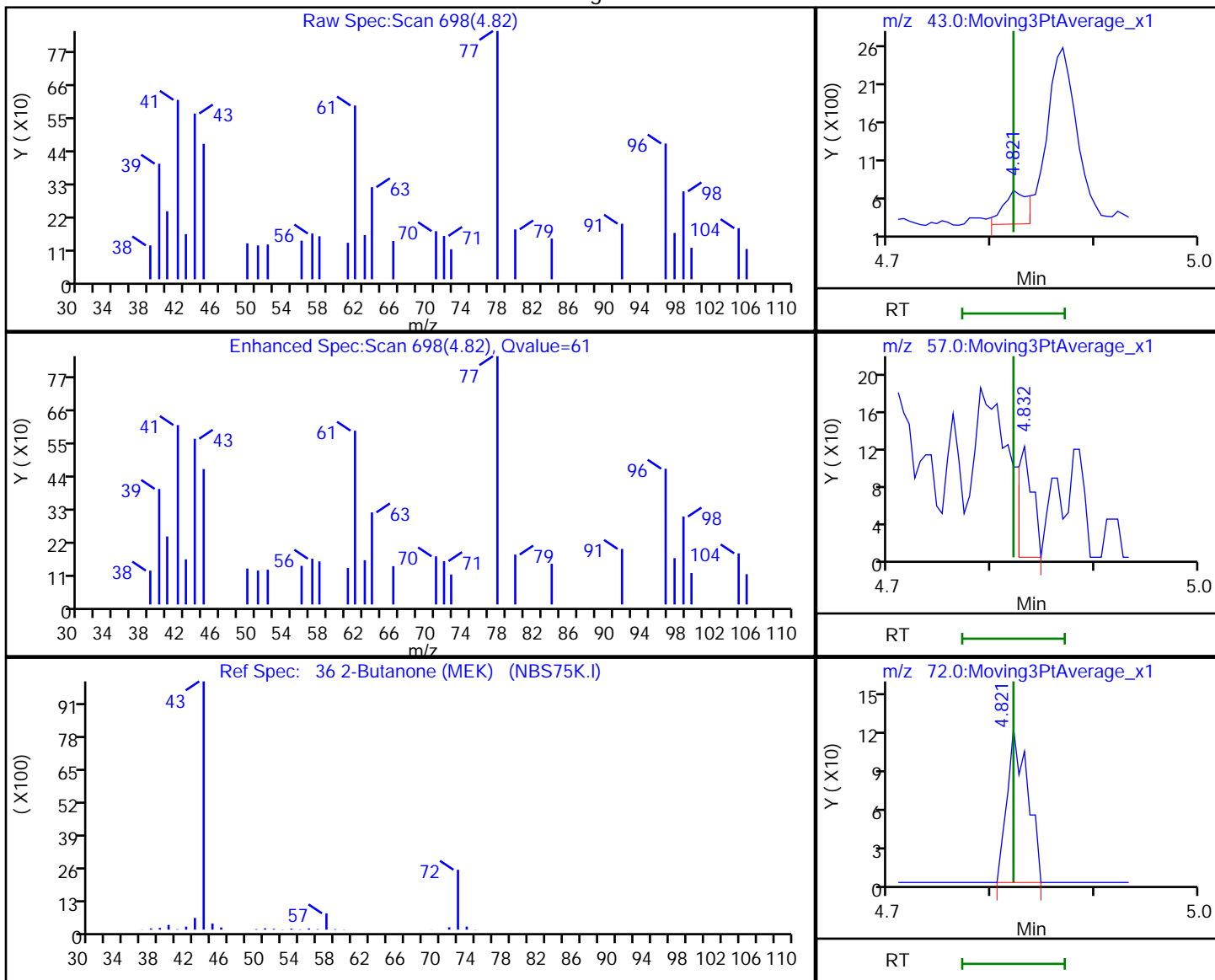
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.82	43.00	736	1.152537
4.83	57.00	114	
4.82	72.00	165	

Reviewer: BQP0, 30-Jul-2022 10:18:31

Audit Action: Marked Compound Undetected

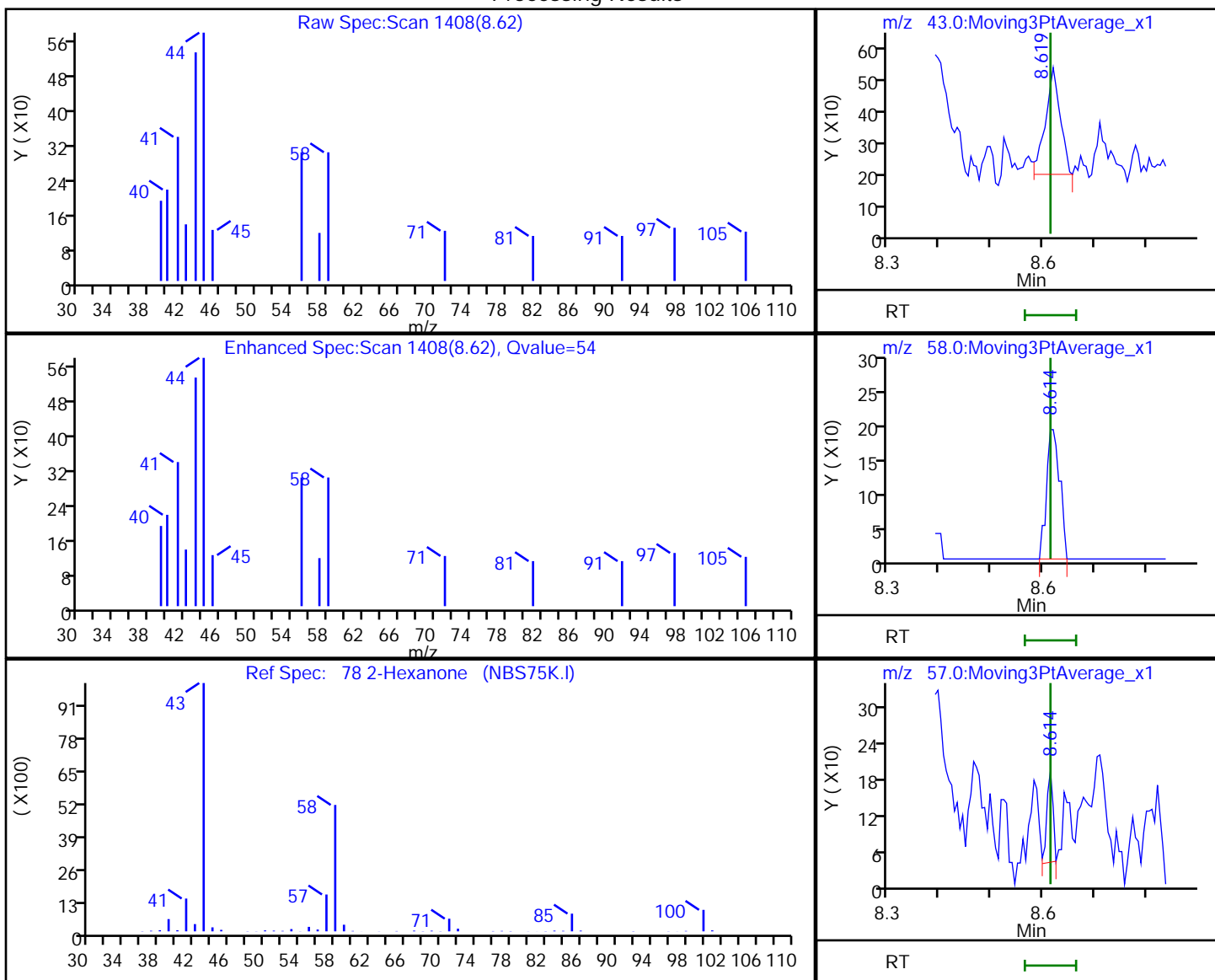
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

78 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.62	43.00	690	1.104915
8.61	58.00	345	
8.61	57.00	126	

Reviewer: BQP0, 30-Jul-2022 10:19:00

Audit Action: Marked Compound Undetected

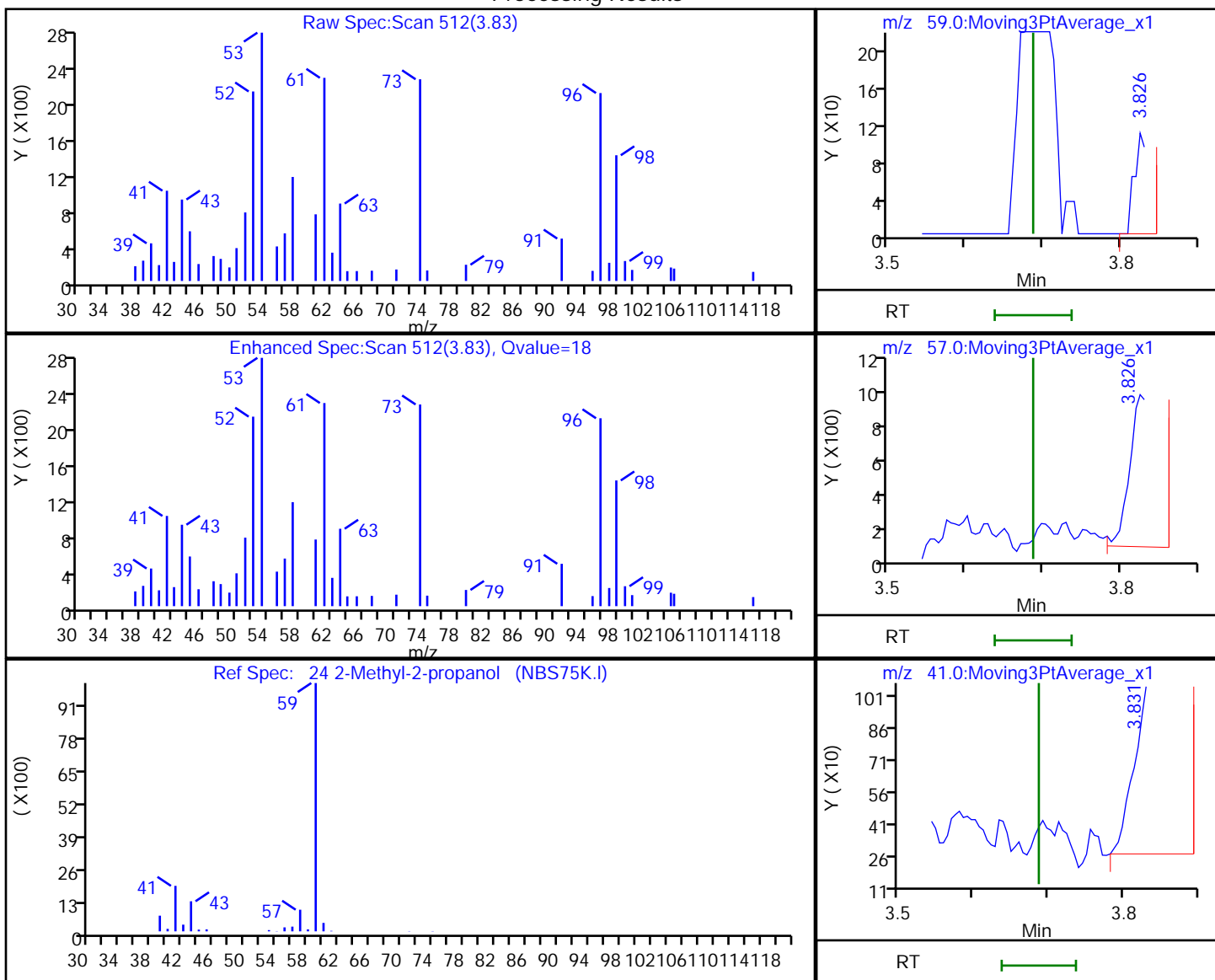
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
3.83	59.00	105	9.755216
3.83	57.00	2014	
3.83	41.00	1783	

Reviewer: BQP0, 30-Jul-2022 10:18:25

Audit Action: Marked Compound Undetected

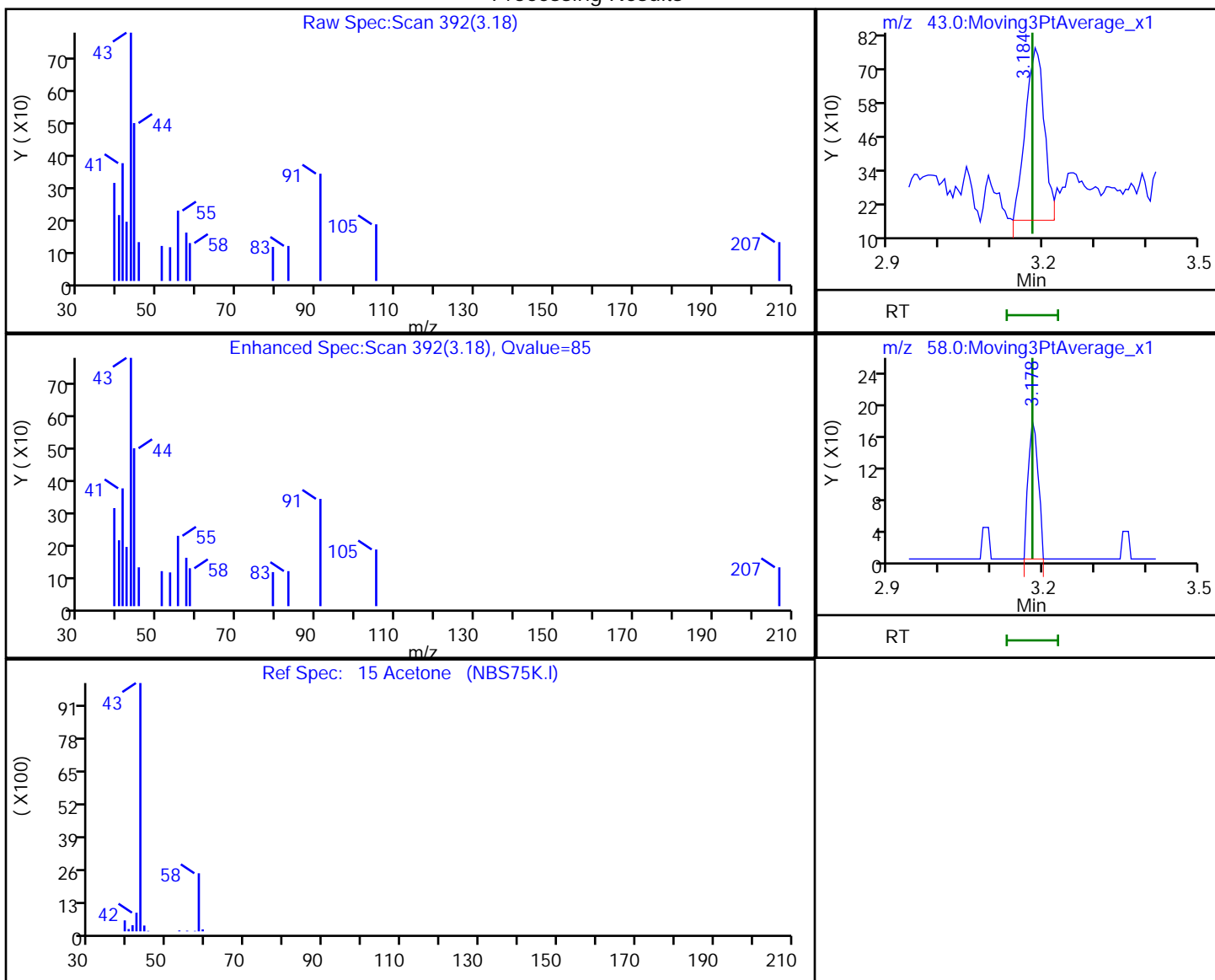
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.18	43.00	1556	2.957952
3.18	58.00	235	

Reviewer: BQP0, 30-Jul-2022 10:18:14

Audit Action: Marked Compound Undetected

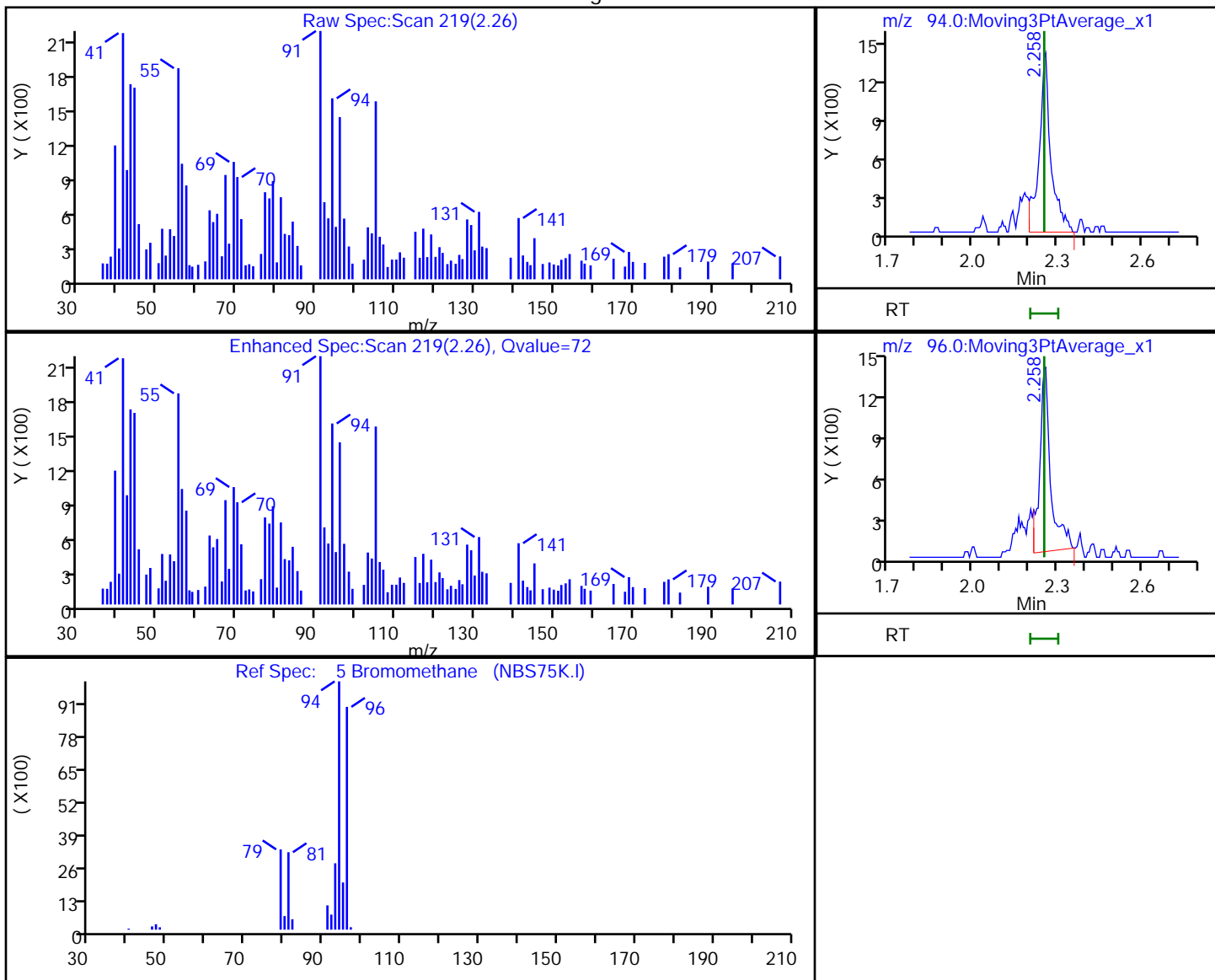
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.26	94.00	4150	1.409759
2.26	96.00	3486	

Reviewer: BQP0, 31-Jul-2022 19:05:19

Audit Action: Marked Compound Undetected

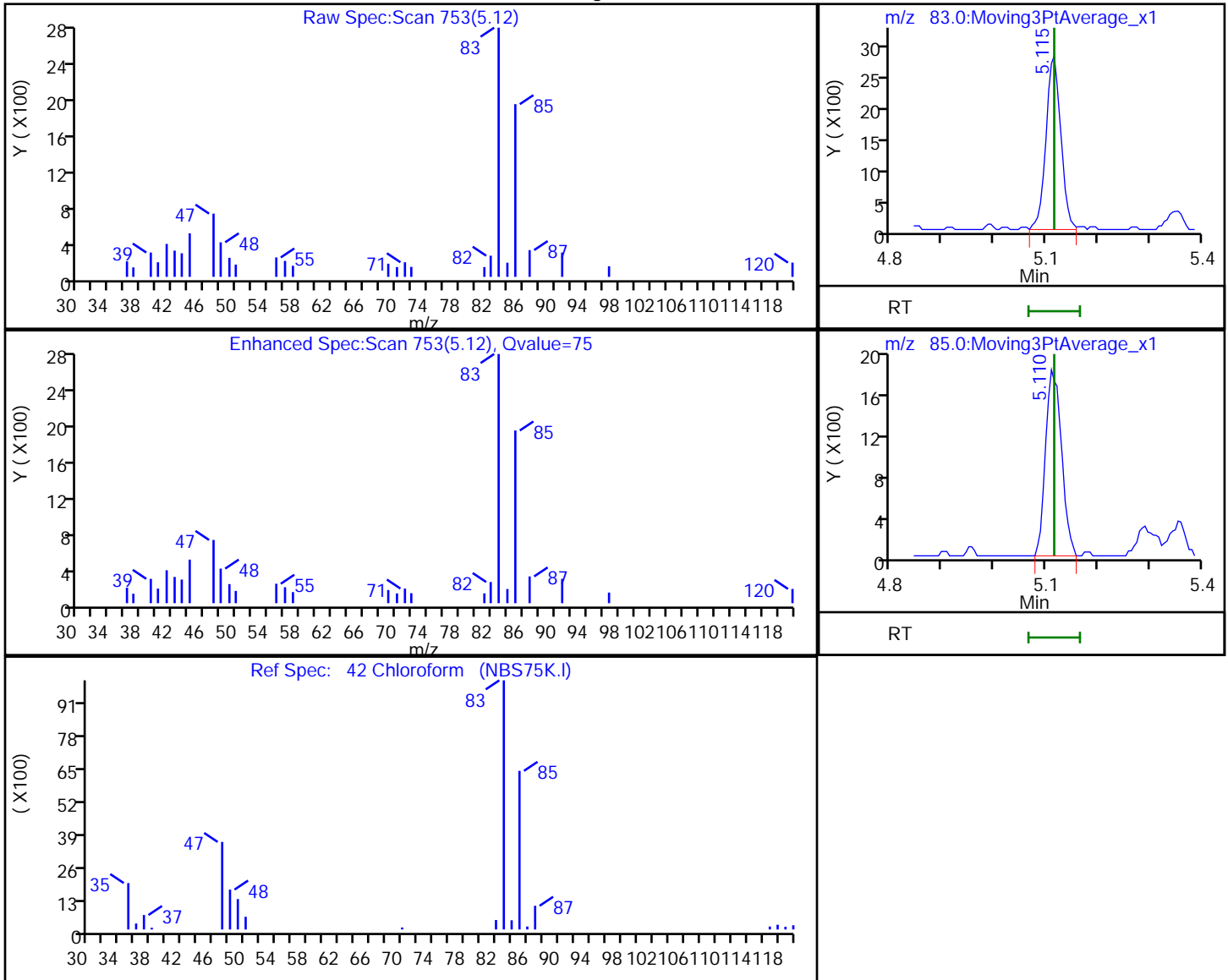
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
5.12	83.00	5616	0.786533
5.11	85.00	3785	

Reviewer: BQP0, 31-Jul-2022 19:05:25

Audit Action: Marked Compound Undetected

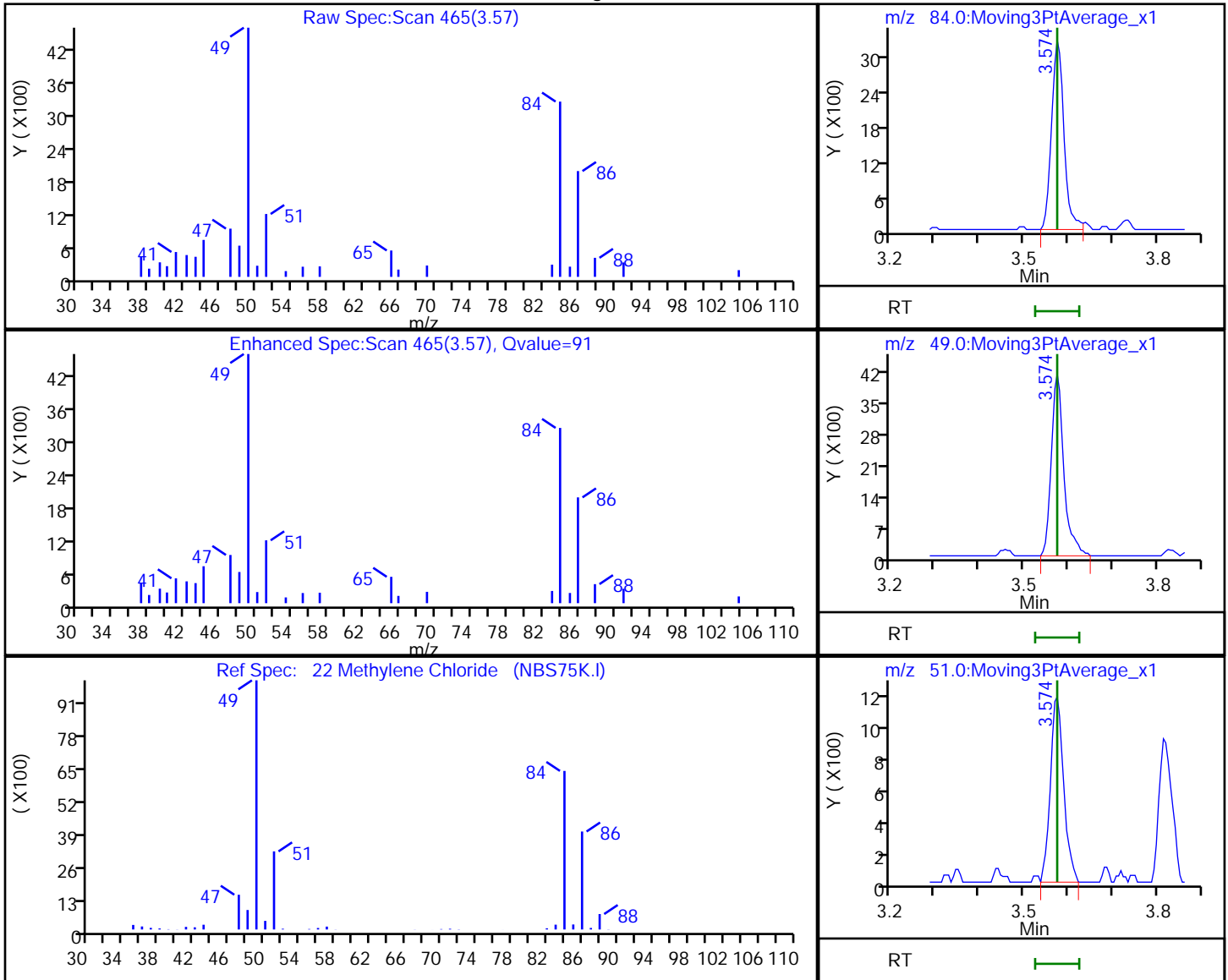
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.57	84.00	6308	0.776715
3.57	49.00	8186	
3.57	51.00	2469	

Reviewer: BQP0, 30-Jul-2022 10:18:22

Audit Action: Marked Compound Undetected

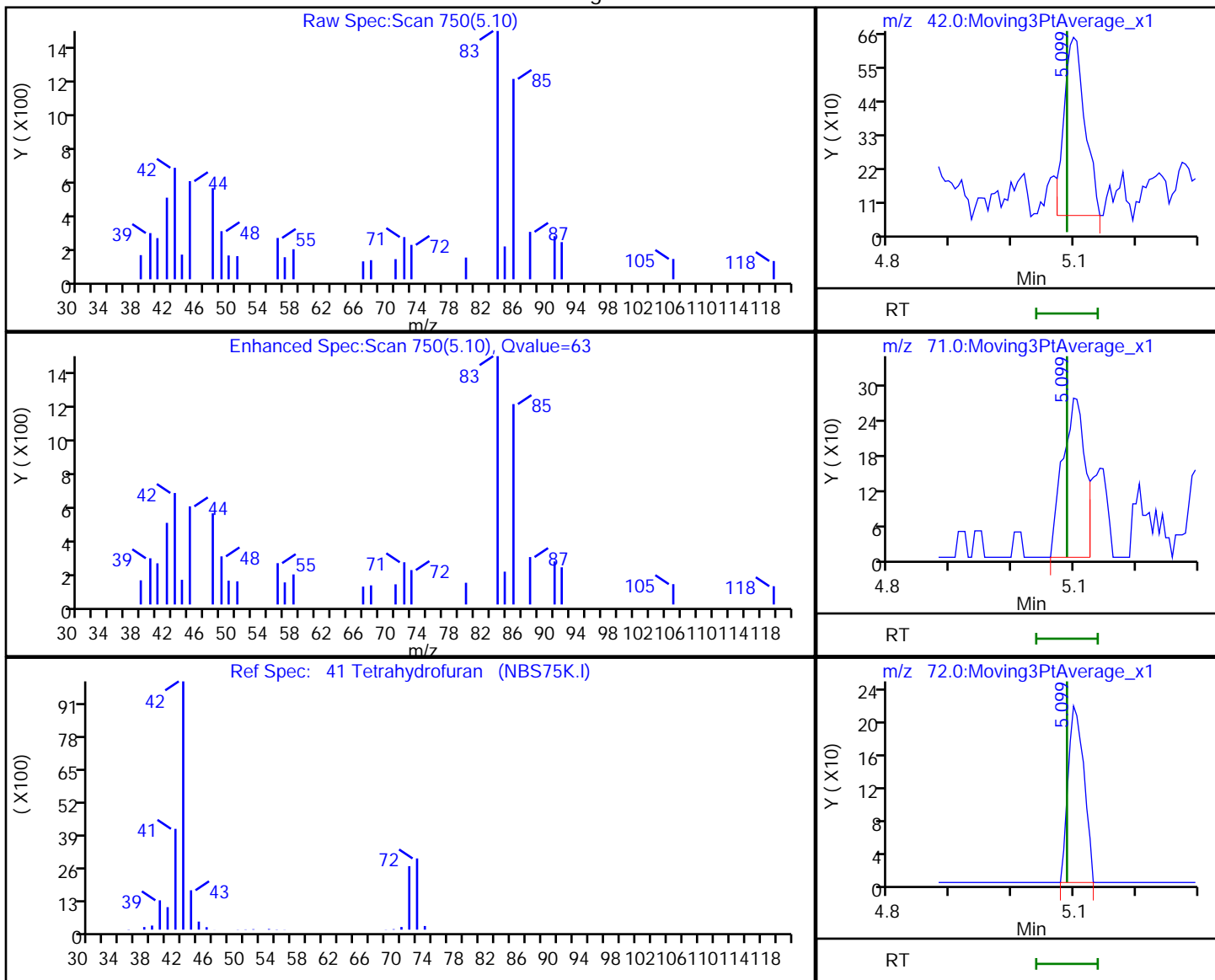
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
5.10	42.00	1387	1.786918
5.10	71.00	702	
5.10	72.00	385	

Reviewer: BQP0, 31-Jul-2022 19:05:23

Audit Action: Marked Compound Undetected

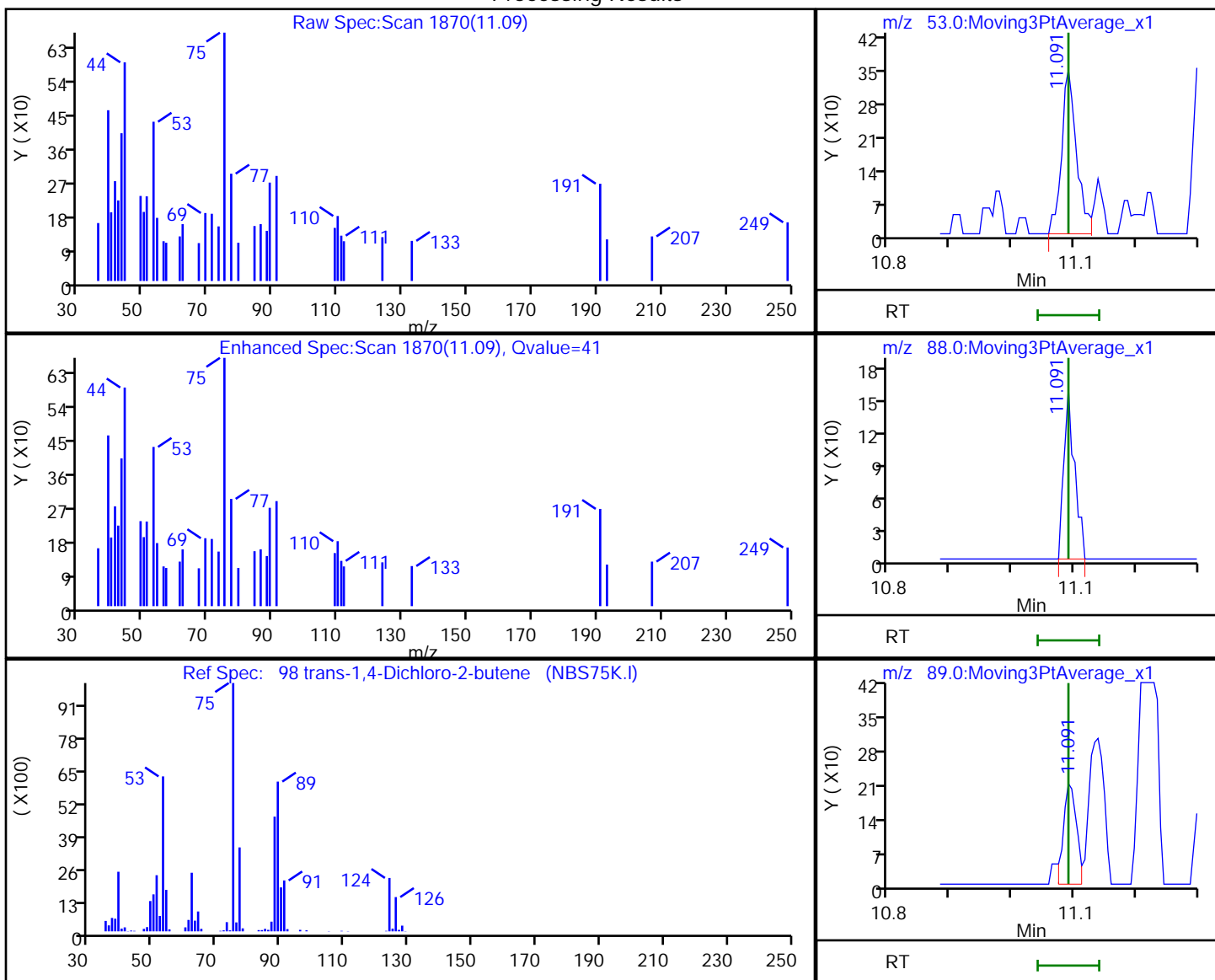
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03a.d
 Injection Date: 29-Jul-2022 15:57:30 Instrument ID: CMS19
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 18 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
11.09	53.00	592	0.668261
11.09	88.00	187	
11.09	89.00	310	

Reviewer: BQP0, 30-Jul-2022 10:19:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Jul-2022 16:21:30 ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04
 Misc. Info.: 500-0087271-006
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:14 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 30-Jul-2022 10:21:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	66	6258	2.00	1.95	
2 Chloromethane	50	1.825	1.825	0.000	84	6931	2.00	2.14	
3 Vinyl chloride	62	1.943	1.943	0.000	82	6343	2.00	2.03	
4 Butadiene	39	1.959	1.959	0.000	94	6300	2.00	2.08	
5 Bromomethane	94	2.253	2.253	0.000	88	4605	2.00	2.19	M
6 Chloroethane	64	2.360	2.355	0.005	88	3939	2.00	2.00	M
8 Dichlorofluoromethane	67	2.569	2.569	0.000	92	10189	2.00	2.28	
9 Trichlorofluoromethane	101	2.612	2.611	0.001	71	9634	2.00	2.12	
11 Ethyl ether	59	2.895	2.895	0.000	75	2996	2.00	2.19	
12 Acrolein	56	3.029	3.023	0.006	96	11399	80.0	84.0	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	87	6350	2.00	2.31	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.120	3.120	0.000	77	6486	2.00	2.14	
16 Iodomethane	142	3.259	3.259	0.000	97	11306	2.00	2.31	
17 Carbon disulfide	76	3.318	3.318	0.000	98	22351	2.00	2.34	
20 3-Chloro-1-propene	76	3.462	3.457	0.005	88	4119	2.00	2.29	
21 Methyl acetate	43	3.484	3.478	0.006	93	3610	4.00	4.20	
* 23 TBA-d9 (IS)	65	3.607	3.606	0.001	97	70952	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.692	3.687	0.005	76	1936	20.0	23.1	a
25 Acrylonitrile	53	3.821	3.815	0.006	97	9524	20.0	24.7	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	80	9415	2.00	2.27	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	92	7502	2.00	2.45	
28 Hexane	57	4.083	4.083	0.000	93	13305	2.00	2.22	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	78	10936	2.00	2.24	
30 Vinyl acetate	43	4.281	4.281	0.000	95	5401	2.00	2.14	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	74	10007	2.00	2.45	
35 cis-1,2-Dichloroethene	96	4.805	4.799	0.006	83	7378	2.00	2.44	
39 Chlorobromomethane	128	5.040	5.040	0.000	81	3012	2.00	2.49	
41 Tetrahydrofuran	42	5.094	5.088	0.006	67	1706	4.00	3.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
42 Chloroform	83	5.115	5.115	0.000	80	12241	2.00	2.19	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	76	24370	10.0	10.5	
44 1,1,1-Trichloroethane	97	5.297	5.302	-0.005	84	10324	2.00	2.31	
45 Cyclohexane	56	5.351	5.350	0.001	89	12536	2.00	2.27	
46 1,1-Dichloropropene	75	5.468	5.463	0.005	83	9114	2.00	2.27	
47 Carbon tetrachloride	117	5.468	5.468	0.000	80	9755	2.00	2.29	
48 Isobutyl alcohol	43	5.575	5.575	0.000	78	2577	50.0	64.5	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.623	5.629	-0.006	97	20387	10.0	11.0	
50 Benzene	78	5.682	5.682	0.000	96	24765	2.00	2.19	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	78	5746	2.00	2.38	
54 n-Heptane	43	5.934	5.934	0.000	89	11320	2.00	2.34	a
* 55 Fluorobenzene (IS)	96	5.971	5.966	0.005	99	518813	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	86	7328	2.00	2.21	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	13784	2.00	2.30	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	82	5221	2.00	2.22	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	75	9288	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.741	0.001	78	2552	2.00	2.54	
65 1,4-Dioxane	88	6.768	6.757	0.011	35	608	40.0	39.2	
66 Dichlorobromomethane	83	6.913	6.913	0.000	78	7089	2.00	2.48	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	71	1901	2.00	2.36	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	67	7847	2.00	2.29	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	99634	10.0	10.0	
72 Toluene	92	7.812	7.811	0.001	92	16303	2.00	2.24	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	87	5923	2.00	2.29	
74 Ethyl methacrylate	69	8.181	8.180	0.001	69	4133	2.00	2.07	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	62	3658	2.00	2.41	
76 Tetrachloroethene	166	8.470	8.469	0.001	88	7530	2.00	2.31	
77 1,3-Dichloropropane	76	8.518	8.517	0.001	82	5332	2.00	2.30	
80 Chlorodibromomethane	129	8.796	8.796	0.000	68	3971	2.00	2.14	
81 Ethylene Dibromide	107	8.946	8.940	0.006	64	3214	2.00	2.43	a
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	350114	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	92	16936	2.00	2.29	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	75	6091	2.00	2.33	
86 Ethylbenzene	106	9.700	9.705	-0.005	97	10309	2.00	2.22	
87 m-Xylene & p-Xylene	91	9.844	9.850	-0.006	97	22940	2.00	2.15	
88 o-Xylene	91	10.310	10.310	0.000	91	23881	2.00	2.23	
89 Styrene	104	10.331	10.331	0.000	95	18961	2.00	2.35	
90 Bromoform	173	10.540	10.534	0.006	81	2217	2.00	2.26	
91 Isopropylbenzene	105	10.711	10.716	-0.005	94	31663	2.00	2.20	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	89	31149	10.0	10.4	
95 Bromobenzene	156	11.027	11.027	0.001	92	7039	2.00	2.43	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	49	3352	2.00	2.11	
97 1,2,3-Trichloropropane	110	11.080	11.075	0.005	61	1002	2.00	2.44	
98 trans-1,4-Dichloro-2-butene	53	11.096	11.091	0.005	62	1144	2.00	1.88	
99 N-Propylbenzene	91	11.134	11.133	0.001	97	38586	2.00	2.34	
100 2-Chlorotoluene	91	11.219	11.219	0.000	94	20985	2.00	2.35	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	93	25611	2.00	2.17	
102 4-Chlorotoluene	91	11.326	11.326	0.000	94	22931	2.00	2.29	
104 tert-Butylbenzene	119	11.621	11.620	0.000	89	23014	2.00	2.08	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	94	25610	2.00	2.17	
107 sec-Butylbenzene	105	11.818	11.818	0.000	92	35979	2.00	2.19	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	94	13884	2.00	2.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 4-Isopropyltoluene	119	11.947	11.952	-0.005	94	30580	2.00	2.16	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	178940	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	78	14283	2.00	2.35	
115 n-Butylbenzene	91	12.305	12.305	0.000	95	28584	2.00	2.31	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	93	12304	2.00	2.31	
116 1,2-Dibromo-3-Chloropropane	75	12.969	12.968	0.001	7	510	2.00	2.38	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	88	8710	2.00	2.08	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	84	5496	2.00	2.40	
120 Naphthalene	128	13.792	13.792	0.000	96	14565	2.00	2.28	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	88	7649	2.00	2.42	
S 124 Xylenes, Total	91				0			4.38	
S 125 Trihalomethanes, Total	1				0			9.06	
S 126 1,3-Dichloropropene, Total	1				0			4.58	
S 127 Trimethylbenzene, Total	1				0			4.35	
S 128 1,2-Dichloroethene, Total	96				0			4.89	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LO8260/624STD_00548	Amount Added: 2.00	Units: uL
LOW8260ACR_00326	Amount Added: 2.00	Units: uL
8260 LOWSS1_00200	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d

Injection Date: 29-Jul-2022 16:21:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD04

Worklist Smp#: 30

Client ID:

Purge Vol: 5.000 mL

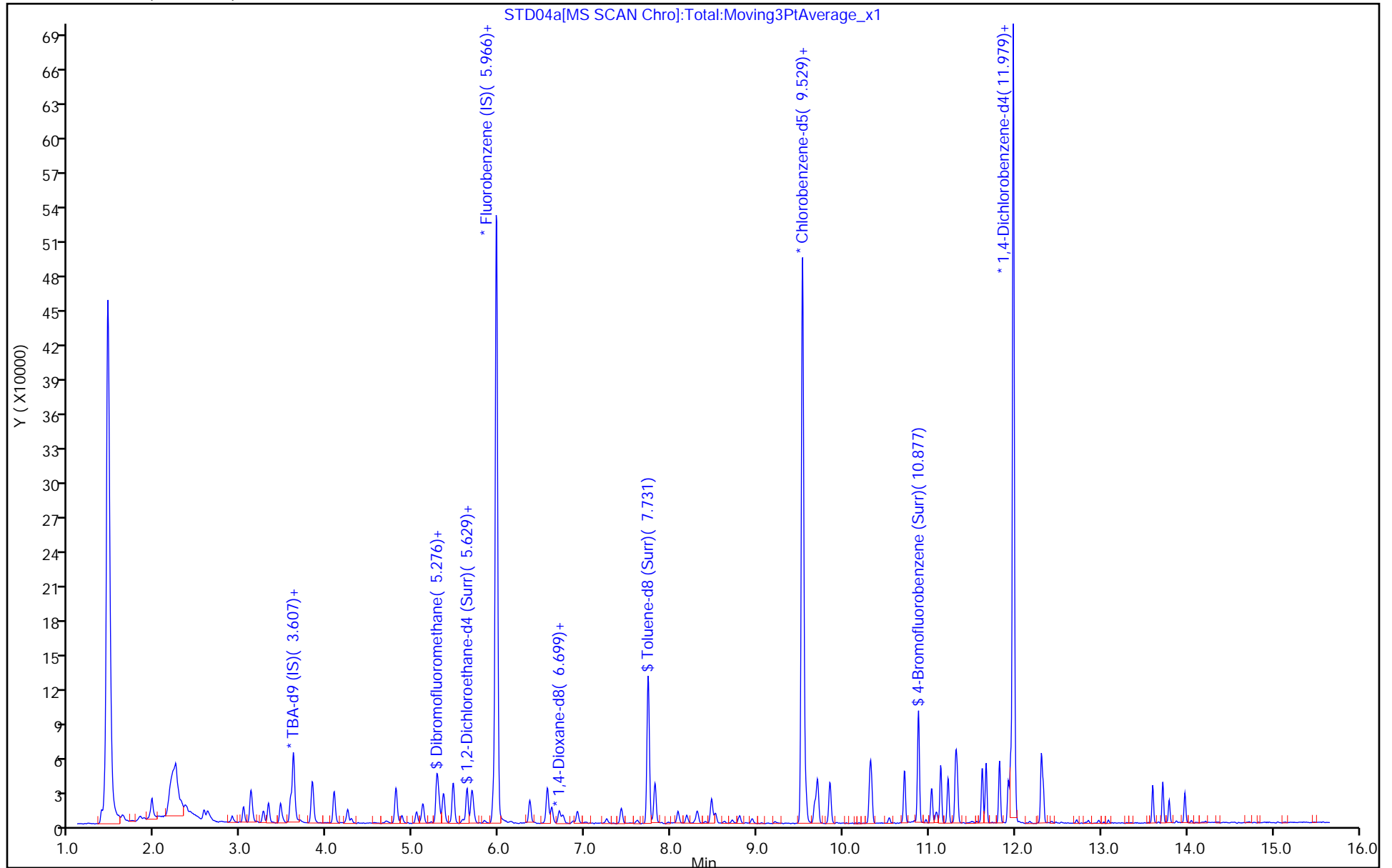
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

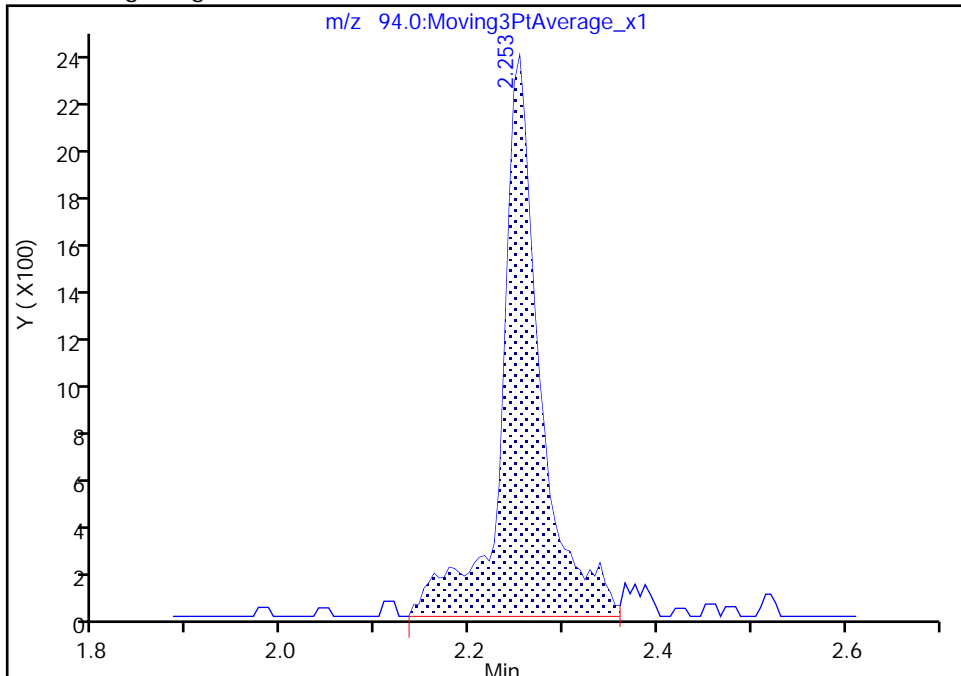
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Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

Signal: 1

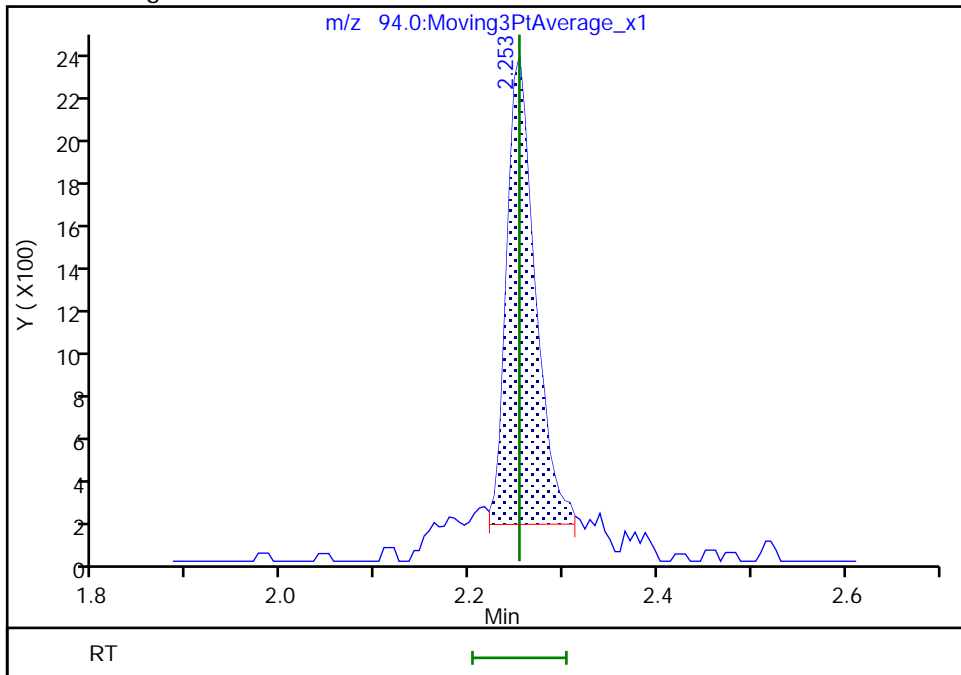
RT: 2.25
Area: 6826
Amount: 2.400838
Amount Units: ug/L

Processing Integration Results



RT: 2.25
Area: 4605
Amount: 2.186424
Amount Units: ug/L

Manual Integration Results



Eurofins Chicago

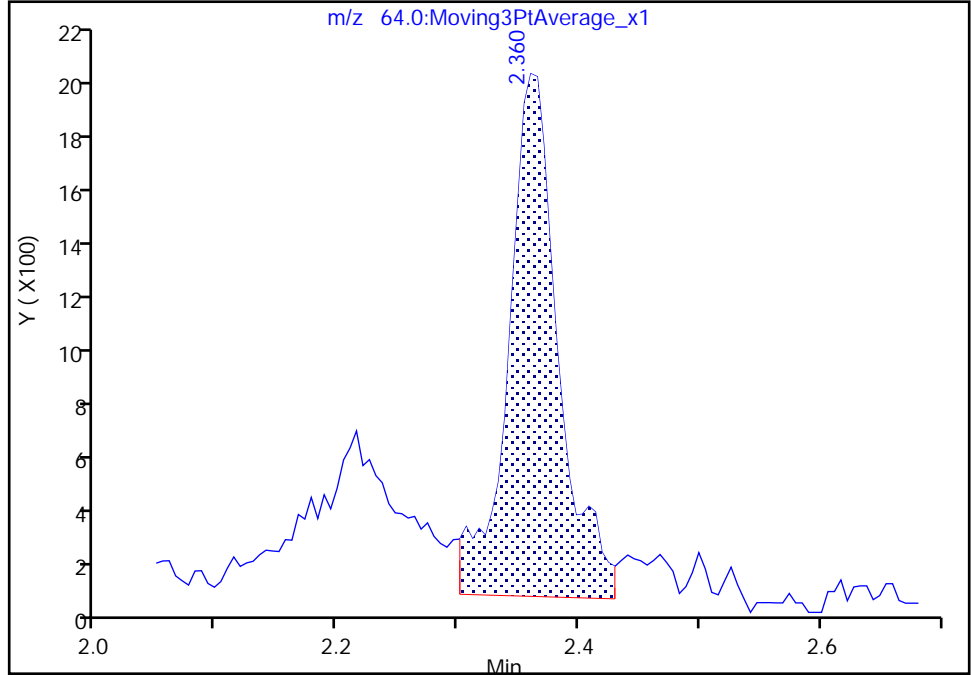
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Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

6 Chloroethane, CAS: 75-00-3

Signal: 1

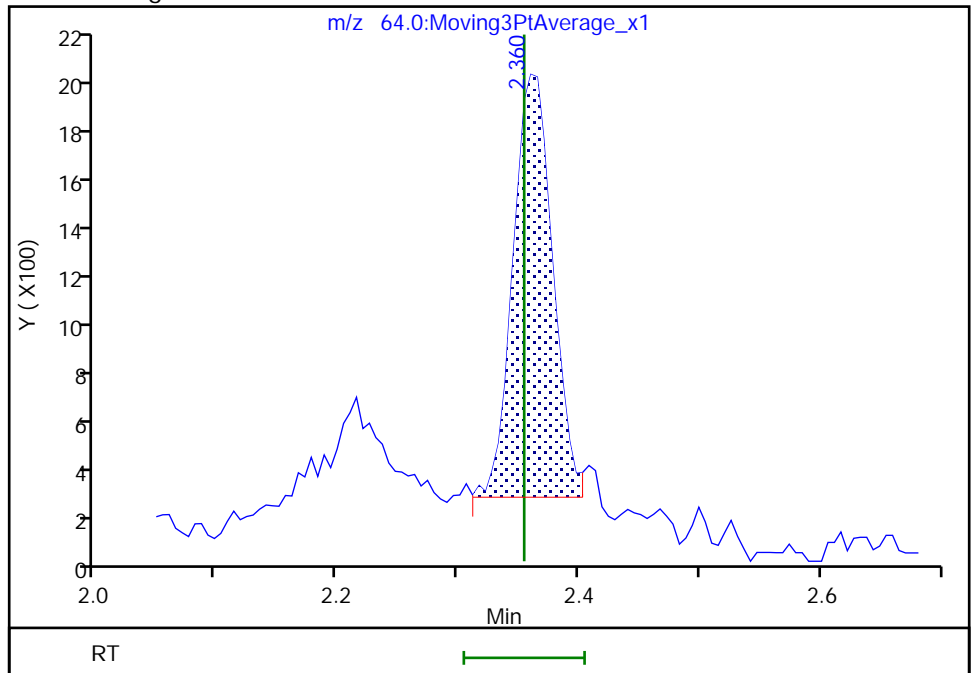
RT: 2.36
Area: 5603
Amount: 2.572414
Amount Units: ug/L

Processing Integration Results



RT: 2.36
Area: 3939
Amount: 2.002923
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:03:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

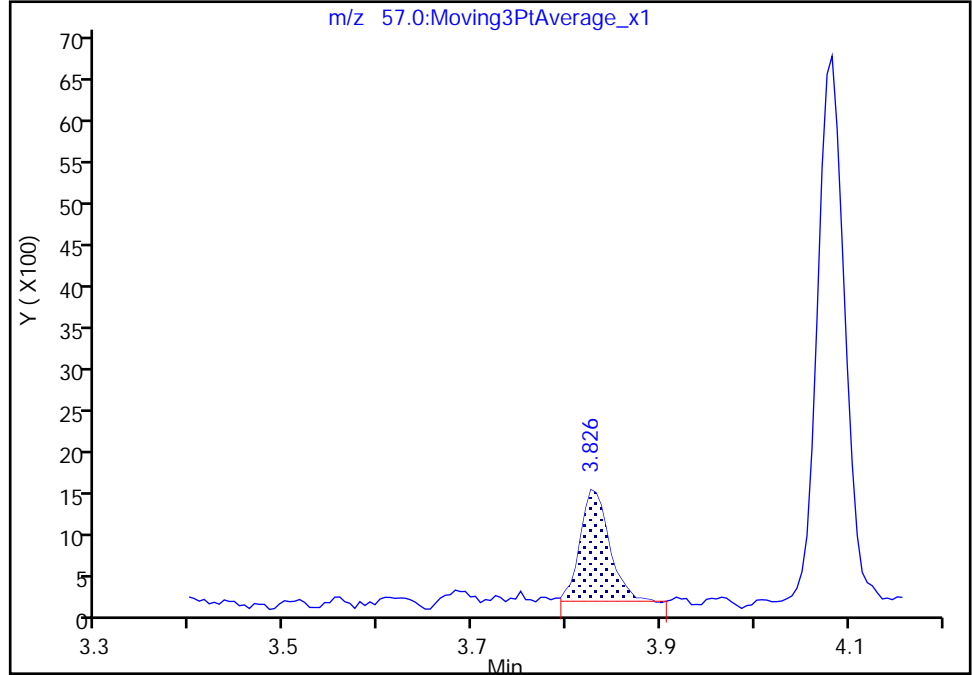
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Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 2

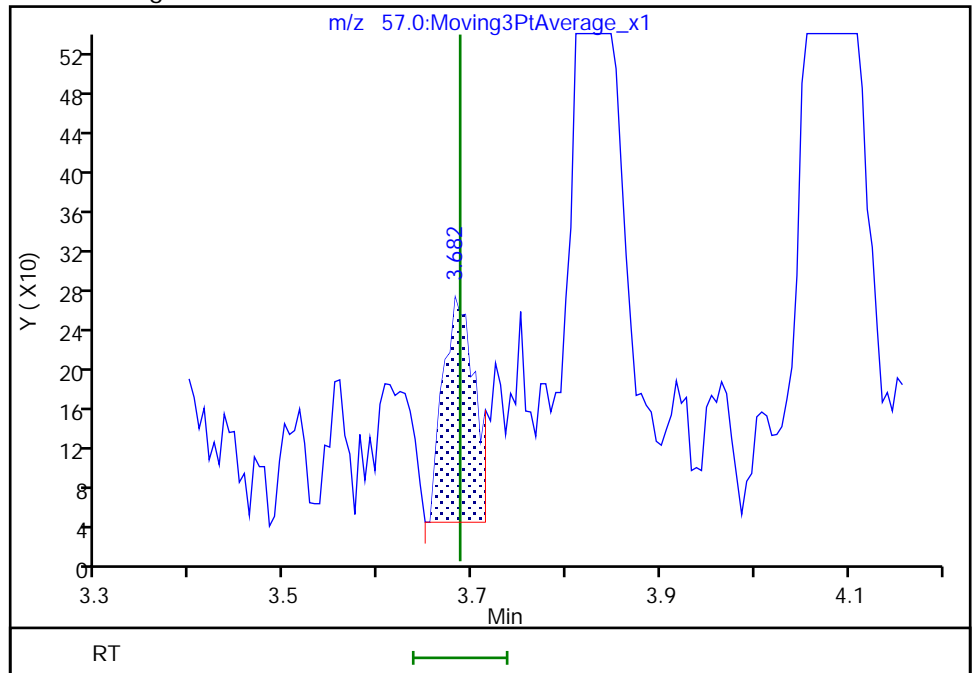
RT: 3.83
Area: 2897
Amount: 14.654114
Amount Units: ug/L

Processing Integration Results



RT: 3.68
Area: 542
Amount: 23.077002
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:01:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

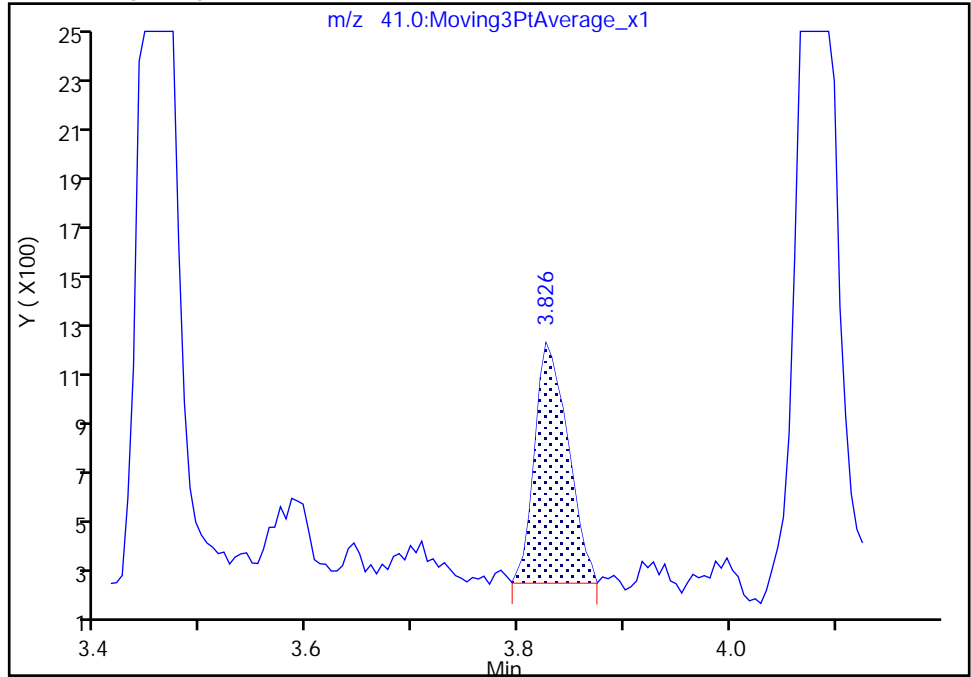
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Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 3

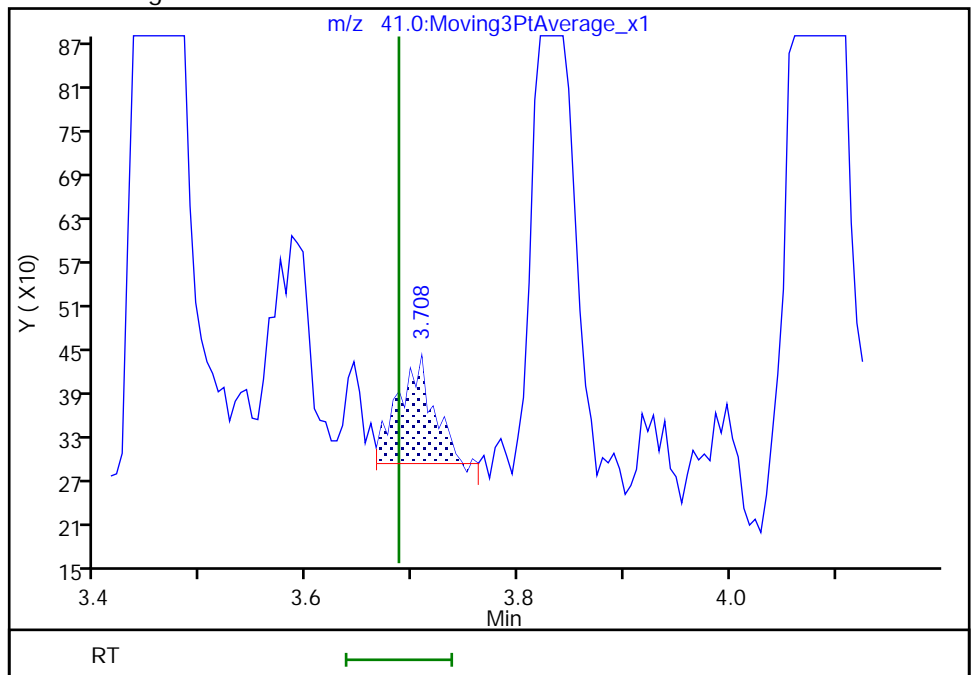
RT: 3.83
Area: 2018
Amount: 14.654114
Amount Units: ug/L

Processing Integration Results



RT: 3.71
Area: 338
Amount: 23.077002
Amount Units: ug/L

Manual Integration Results



Eurofins Chicago

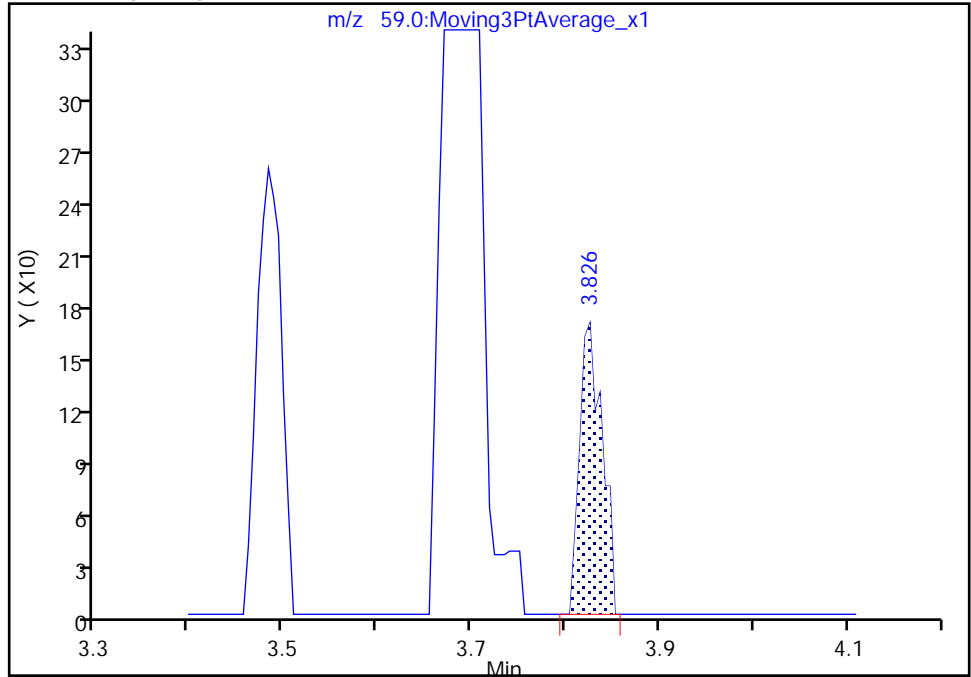
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Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

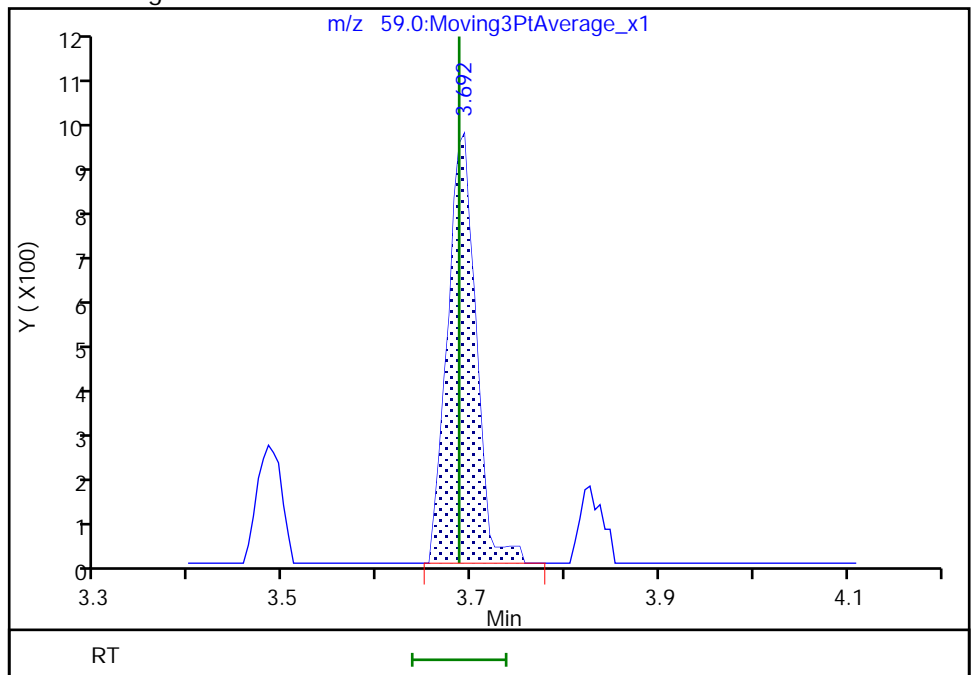
RT: 3.83
Area: 273
Amount: 14.654114
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 1936
Amount: 23.077002
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:02:33

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

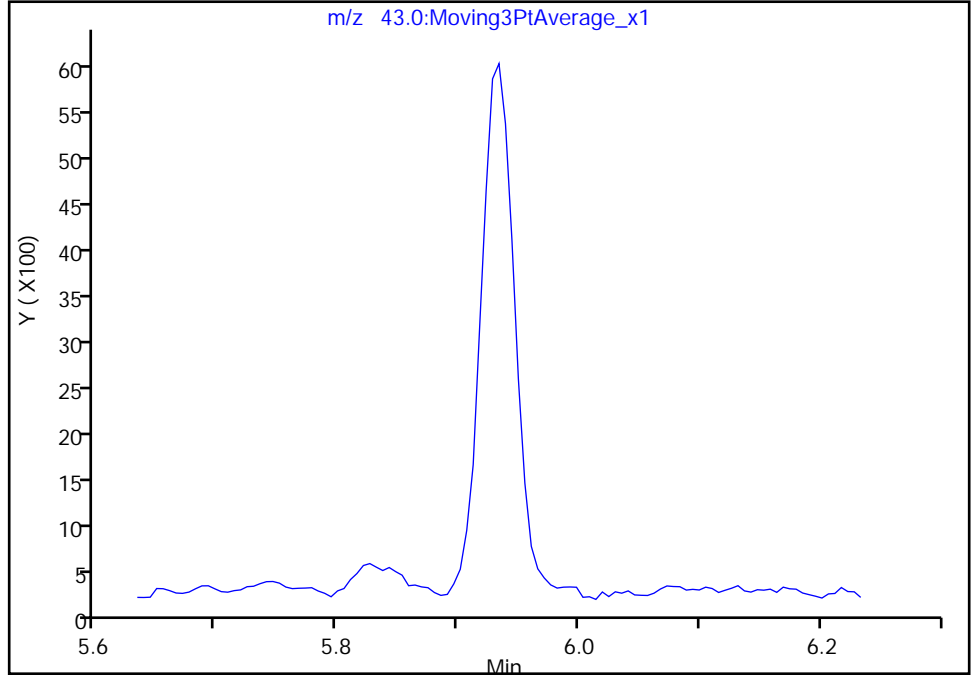
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

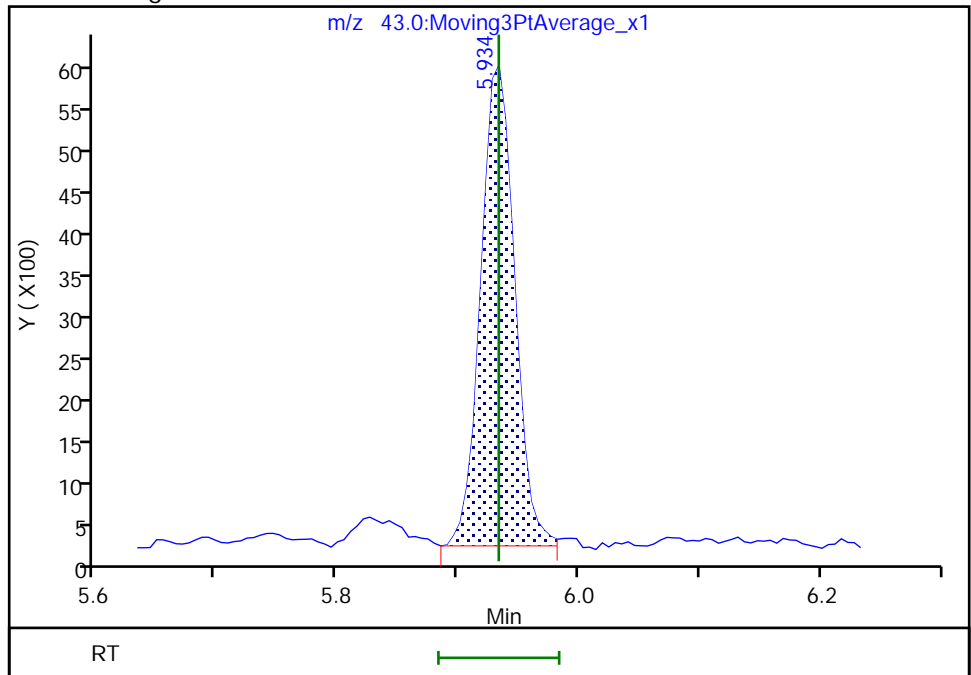
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 11320
Amount: 2.342348
Amount Units: ug/L



Eurofins Chicago

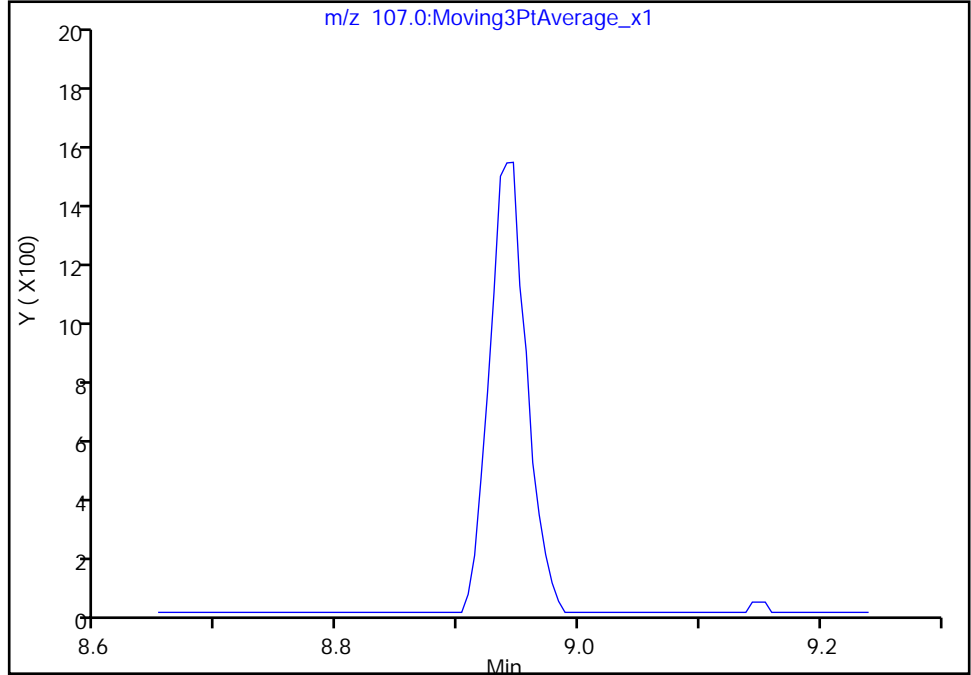
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

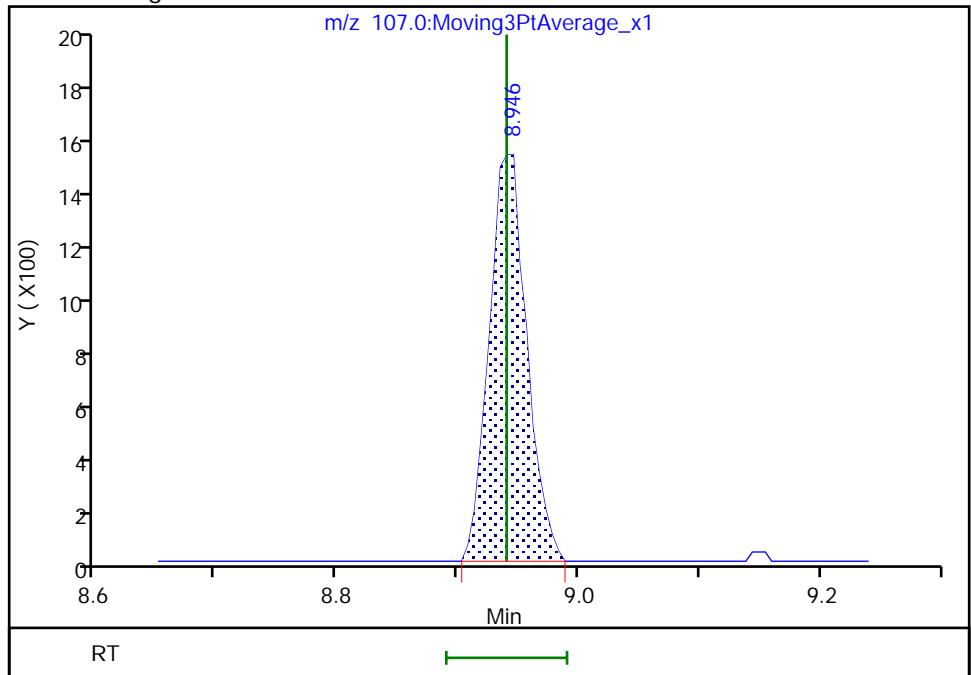
Not Detected
Expected RT: 8.94

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 3214
Amount: 2.434441
Amount Units: ug/L

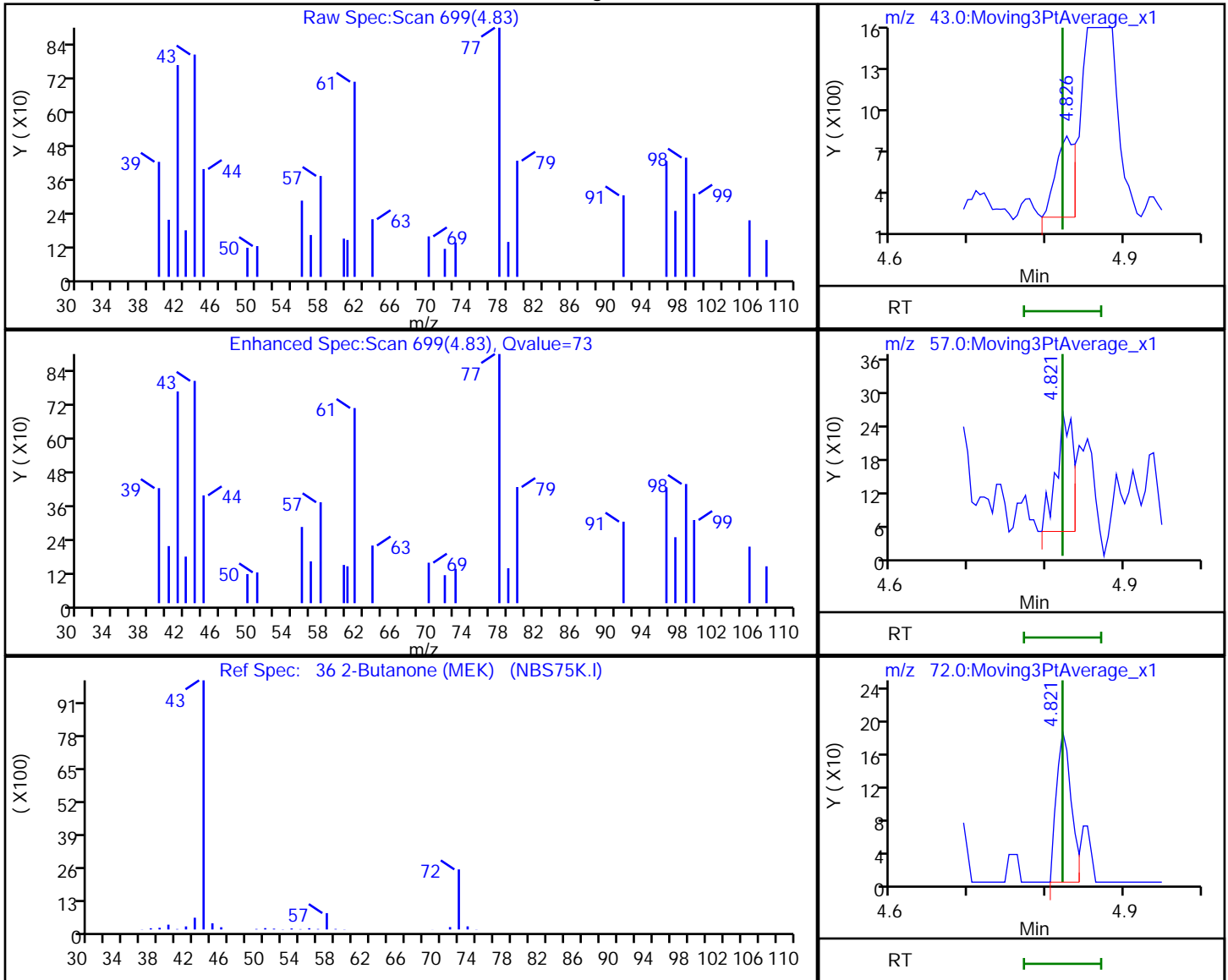


Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.83	43.00	1000	2.566839
4.82	57.00	324	
4.82	72.00	247	

Reviewer: BQP0, 30-Jul-2022 10:20:37

Audit Action: Marked Compound Undetected

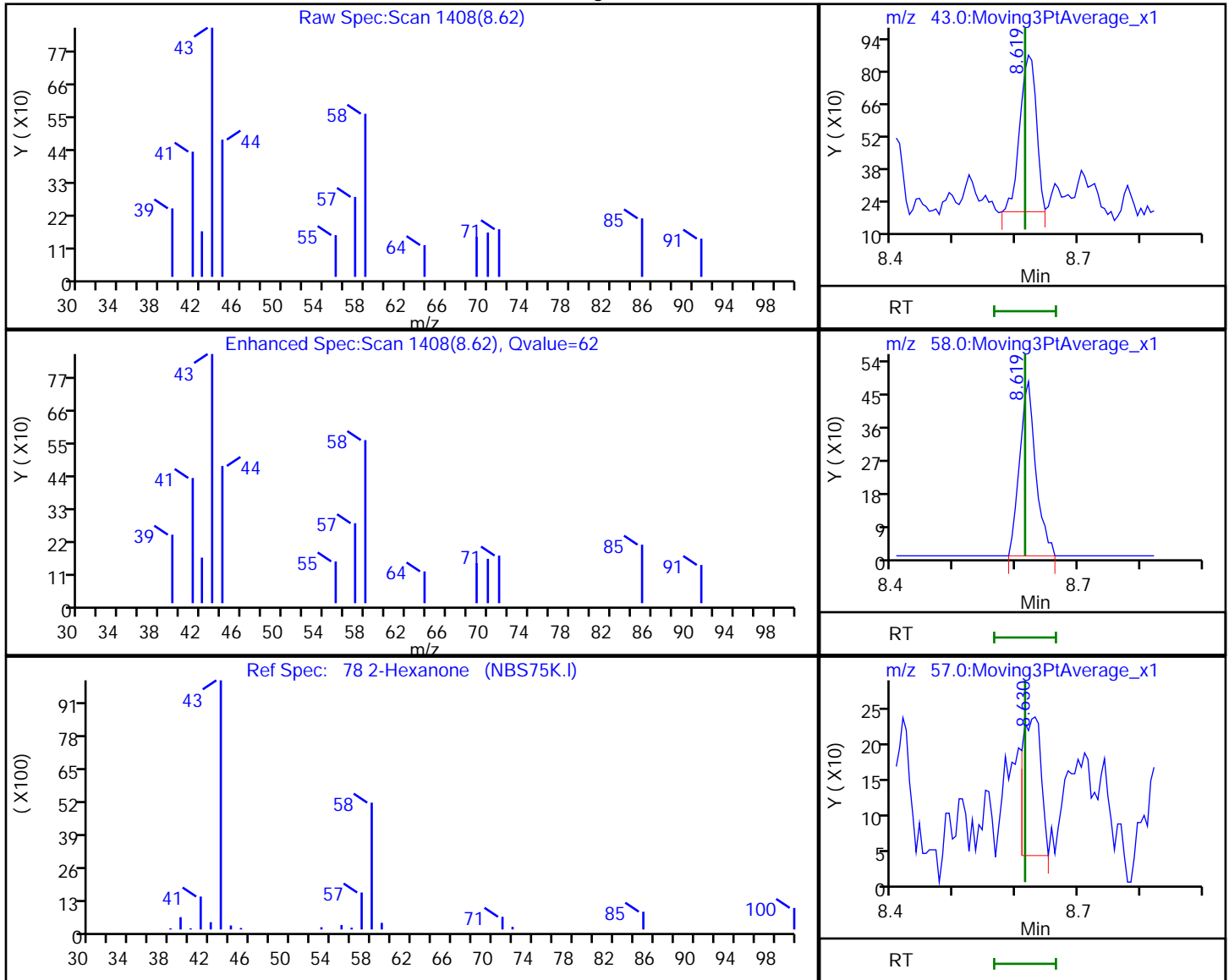
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

78 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.62	43.00	1250	2.222230
8.62	58.00	871	
8.63	57.00	393	

Reviewer: BQP0, 31-Jul-2022 19:04:01

Audit Action: Marked Compound Undetected

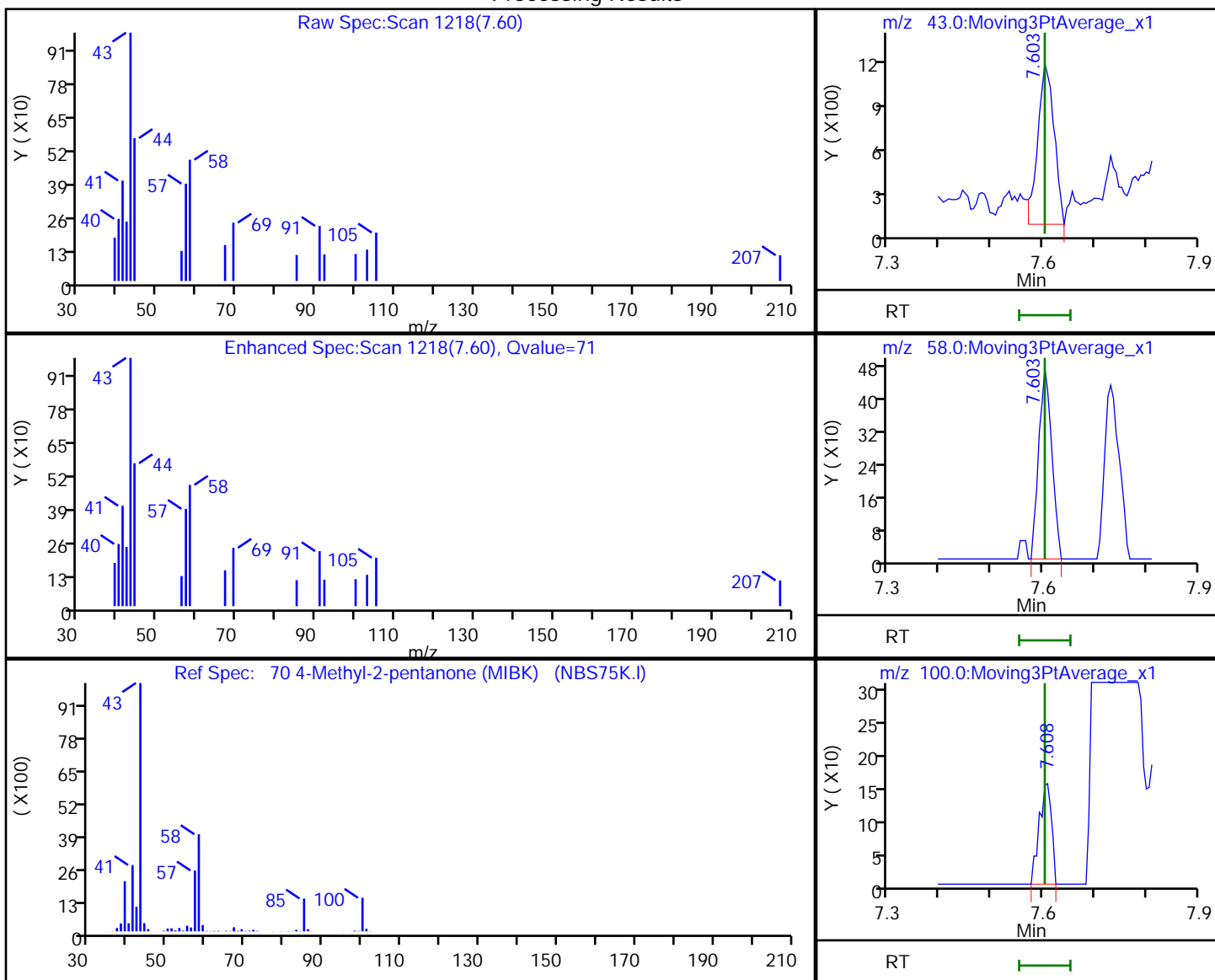
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.60	43.00	2313	2.543126
7.60	58.00	820	
7.61	100.00	255	

Reviewer: BQP0, 30-Jul-2022 10:20:15

Audit Action: Marked Compound Undetected

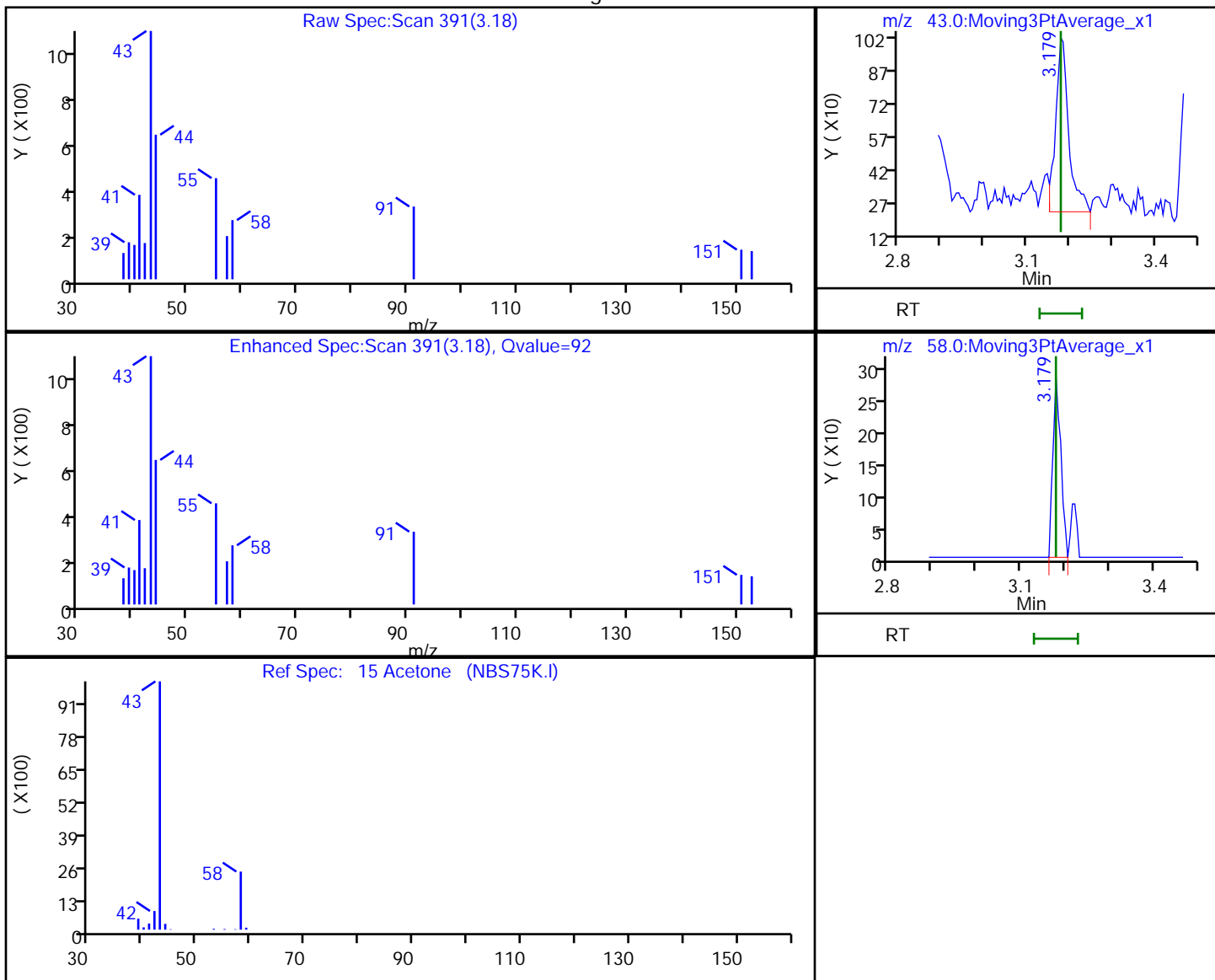
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.18	43.00	1704	4.902336
3.18	58.00	354	

Reviewer: BQP0, 30-Jul-2022 10:21:21

Audit Action: Marked Compound Undetected

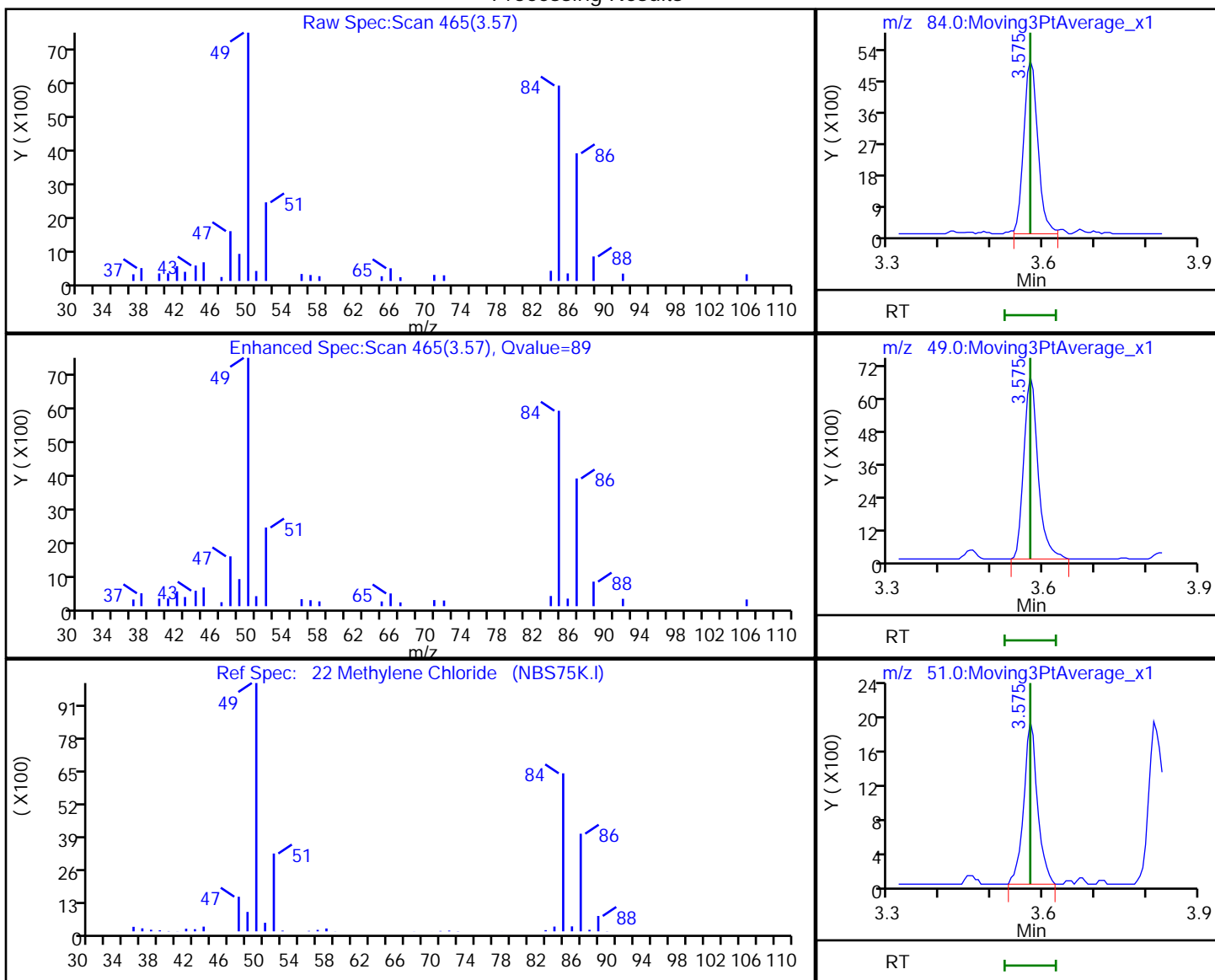
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04a.d
 Injection Date: 29-Jul-2022 16:21:30 Instrument ID: CMS19
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 19 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Column: DB624 (0.20 mm) Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.57	84.00	9659	2.081513
3.57	49.00	13045	
3.57	51.00	3543	

Reviewer: BQP0, 30-Jul-2022 10:20:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05a.d
 Lims ID: STD05
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Jul-2022 16:46:30 ALS Bottle#: 20 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD05
 Misc. Info.: 500-0087271-007
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:22 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 30-Jul-2022 10:21:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.627	1.622	0.005	82	13952	5.00	4.04	
2 Chloromethane	50	1.825	1.825	0.000	87	15107	5.00	4.33	
3 Vinyl chloride	62	1.948	1.943	0.005	78	14702	5.00	4.36	
4 Butadiene	39	1.964	1.959	0.005	94	14436	5.00	4.42	
5 Bromomethane	94	2.258	2.253	0.005	92	10752	5.00	4.74	
6 Chloroethane	64	2.360	2.355	0.005	91	9806	5.00	4.63	
8 Dichlorofluoromethane	67	2.574	2.569	0.005	82	22454	5.00	4.67	
9 Trichlorofluoromethane	101	2.612	2.611	0.001	77	22466	5.00	4.60	
11 Ethyl ether	59	2.895	2.895	0.000	86	6924	5.00	4.71	
12 Acrolein	56	3.029	3.023	0.006	94	27031	200.0	184.9	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	14454	5.00	4.89	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.125	3.120	0.005	81	16027	5.00	4.91	
15 Acetone	43	3.184	3.178	0.006	88	1766	5.00	6.23	
16 Iodomethane	142	3.259	3.259	0.000	97	24878	5.00	4.72	
17 Carbon disulfide	76	3.318	3.318	0.000	99	47109	5.00	4.58	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	9033	5.00	4.67	
21 Methyl acetate	43	3.484	3.478	0.006	93	7620	10.0	9.37	
22 Methylene Chloride	84	3.575	3.574	0.000	91	16679	5.00	5.95	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	96	74286	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.692	3.687	0.005	90	4227	50.0	48.1	a
25 Acrylonitrile	53	3.821	3.815	0.006	98	19926	50.0	48.0	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	88	22353	5.00	5.00	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	94	15337	5.00	4.65	
28 Hexane	57	4.083	4.083	0.000	95	28045	5.00	4.87	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	82	25177	5.00	4.80	
30 Vinyl acetate	43	4.281	4.281	0.000	97	12821	5.00	4.72	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	72	21524	5.00	4.89	
35 cis-1,2-Dichloroethene	96	4.800	4.799	0.001	87	15944	5.00	4.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.826	4.821	0.005	65	2011	5.00	5.03	
39 Chlorobromomethane	128	5.040	5.040	0.000	89	6284	5.00	4.82	
41 Tetrahydrofuran	42	5.099	5.088	0.011	53	4026	10.0	11.8	
42 Chloroform	83	5.115	5.115	0.000	81	23281	5.00	4.45	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	79	52409	20.0	20.9	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	90	22965	5.00	4.78	
45 Cyclohexane	56	5.351	5.350	0.001	89	28339	5.00	4.77	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	88	20608	5.00	4.77	
47 Carbon tetrachloride	117	5.468	5.468	0.000	84	22409	5.00	4.88	
48 Isobutyl alcohol	43	5.575	5.575	0.000	83	5028	125.0	120.3	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	43321	20.0	21.7	
50 Benzene	78	5.682	5.682	0.000	96	59035	5.00	4.84	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	77	12506	5.00	4.81	
54 n-Heptane	43	5.934	5.934	0.000	87	25353	5.00	4.87	
* 55 Fluorobenzene (IS)	96	5.971	5.966	0.005	99	558514	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	17271	5.00	4.83	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	30279	5.00	4.69	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	89	12629	5.00	4.99	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	73	9561	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.741	0.001	81	5523	5.00	5.11	
65 1,4-Dioxane	88	6.758	6.757	0.001	32	1061	100.0	84.7	
66 Dichlorobromomethane	83	6.913	6.913	0.000	87	14874	5.00	4.82	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	76	4532	5.00	5.20	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	81	17724	5.00	4.79	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	82	4619	5.00	4.93	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	228857	20.0	21.3	
72 Toluene	92	7.811	7.811	0.000	92	36781	5.00	4.84	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	90	13805	5.00	4.94	
74 Ethyl methacrylate	69	8.186	8.180	0.006	85	9623	5.00	5.30	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	85	7292	5.00	4.91	
76 Tetrachloroethene	166	8.469	8.469	0.000	89	16467	5.00	4.68	
77 1,3-Dichloropropane	76	8.512	8.517	-0.005	91	12374	5.00	4.94	
78 2-Hexanone	43	8.619	8.614	0.005	81	3274	5.00	5.49	
80 Chlorodibromomethane	129	8.796	8.796	0.000	82	9440	5.00	4.71	
81 Ethylene Dibromide	107	8.940	8.940	0.000	87	6928	5.00	4.86	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	82	377985	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	39002	5.00	4.88	
85 1,1,1,2-Tetrachloroethane	131	9.668	9.673	-0.005	86	13550	5.00	4.80	
86 Ethylbenzene	106	9.705	9.705	0.000	98	22571	5.00	4.50	
87 m-Xylene & p-Xylene	91	9.844	9.850	-0.006	98	53223	5.00	4.63	
88 o-Xylene	91	10.310	10.310	0.000	93	51355	5.00	4.43	
89 Styrene	104	10.331	10.331	0.000	96	41177	5.00	4.74	
90 Bromoform	173	10.534	10.534	0.000	95	5101	5.00	4.81	
91 Isopropylbenzene	105	10.716	10.716	0.000	97	71919	5.00	4.76	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	94	68609	20.0	21.8	
95 Bromobenzene	156	11.027	11.027	0.001	94	14667	5.00	4.82	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	59	7152	5.00	4.94	
97 1,2,3-Trichloropropane	110	11.075	11.075	0.000	81	2269	5.00	5.26	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	76	2352	5.00	4.99	
99 N-Propylbenzene	91	11.134	11.133	0.001	98	85358	5.00	4.92	
100 2-Chlorotoluene	91	11.219	11.219	0.000	97	45762	5.00	4.87	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	95	59186	5.00	4.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	94	51698	5.00	4.91	
104 tert-Butylbenzene	119	11.620	11.620	0.000	90	54548	5.00	4.68	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	94	58390	5.00	4.71	
107 sec-Butylbenzene	105	11.818	11.818	0.000	92	82626	5.00	4.79	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	31700	5.00	4.87	
109 4-Isopropyltoluene	119	11.947	11.952	-0.005	97	70793	5.00	4.77	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	187993	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	88	30827	5.00	4.83	
115 n-Butylbenzene	91	12.305	12.305	0.000	96	62995	5.00	4.85	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	97	27034	5.00	4.83	
116 1,2-Dibromo-3-Chloropropane	75	12.974	12.968	0.006	26	1314	5.00	5.85	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	92	19732	5.00	5.37	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	91	12100	5.00	5.04	
120 Naphthalene	128	13.792	13.792	0.000	98	28816	5.00	4.97	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	94	14873	5.00	4.93	
S 124 Xylenes, Total	91				0			9.06	
S 125 Trihalomethanes, Total	1				0			18.8	
S 126 1,3-Dichloropropene, Total	1				0			9.73	
S 127 Trimethylbenzene, Total	1				0			9.50	
S 128 1,2-Dichloroethene, Total	96				0			9.55	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LO8260/624STD_00548	Amount Added: 5.00	Units: uL
LOW8260ACR_00326	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 2.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05a.d

Injection Date: 29-Jul-2022 16:46:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD05

Worklist Smp#: 31

Client ID:

Purge Vol: 5.000 mL

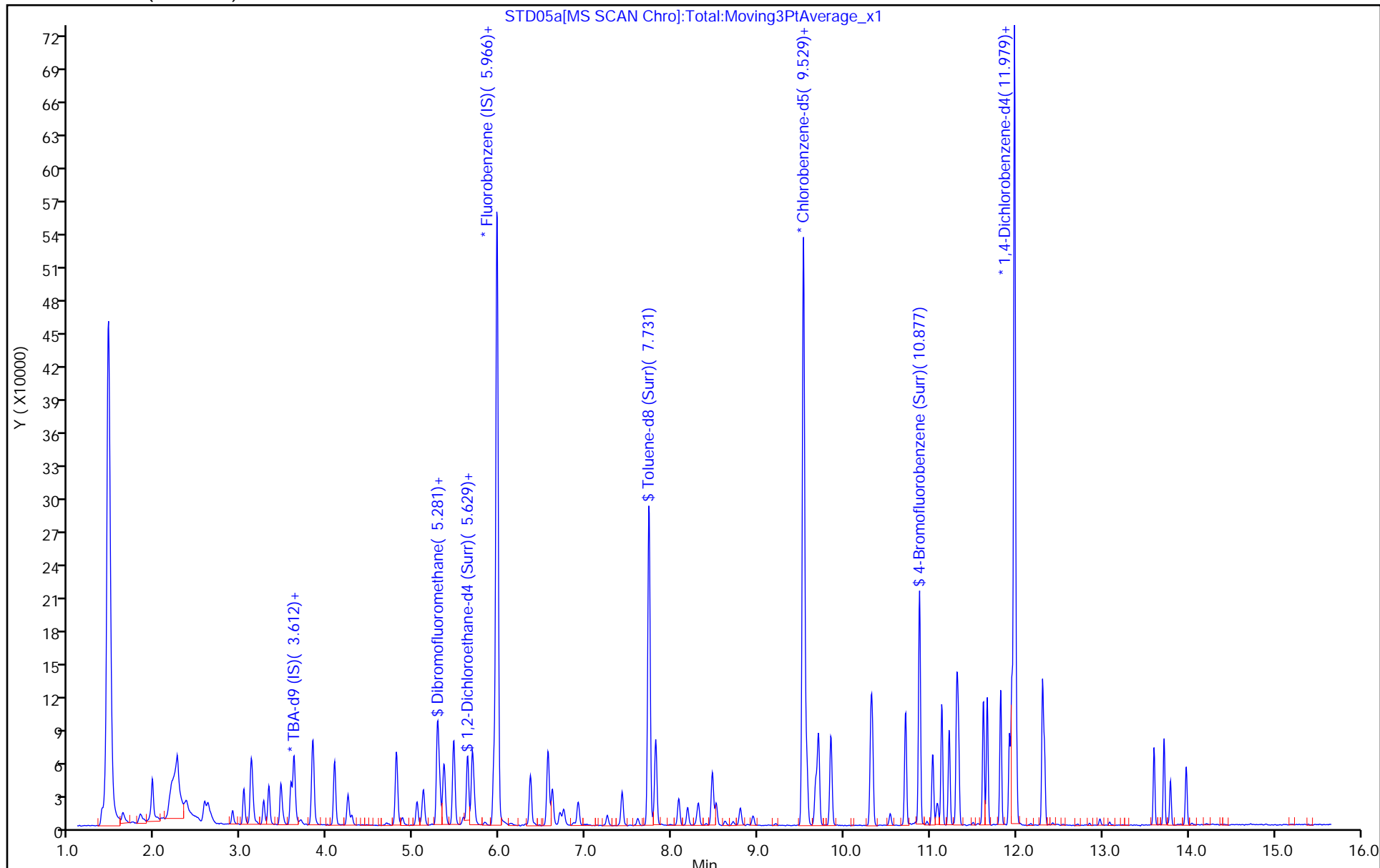
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

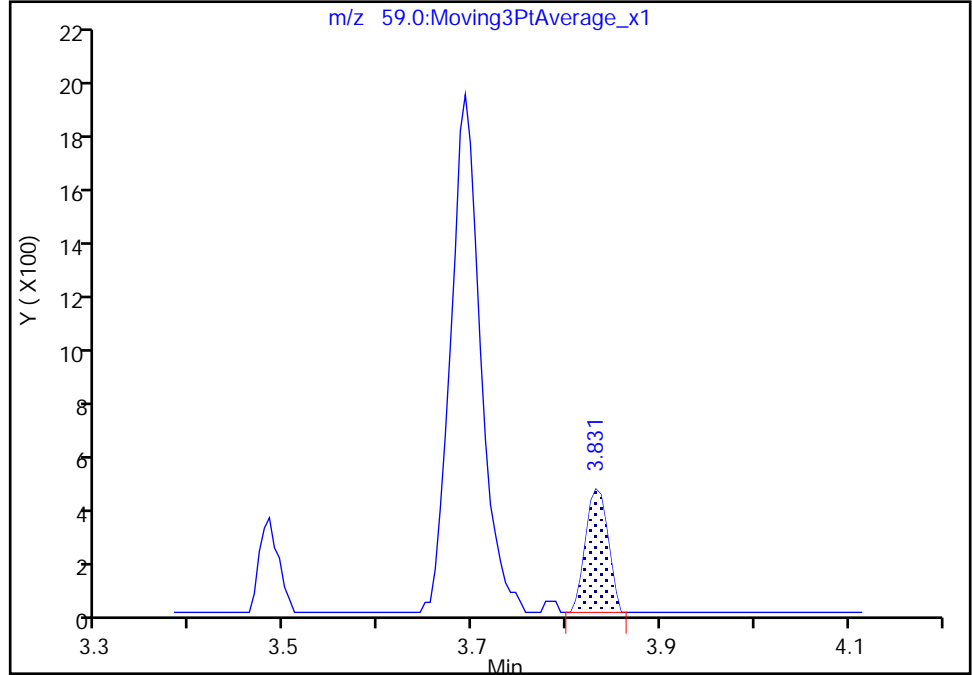
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05a.d
Injection Date: 29-Jul-2022 16:46:30 Instrument ID: CMS19
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 20 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

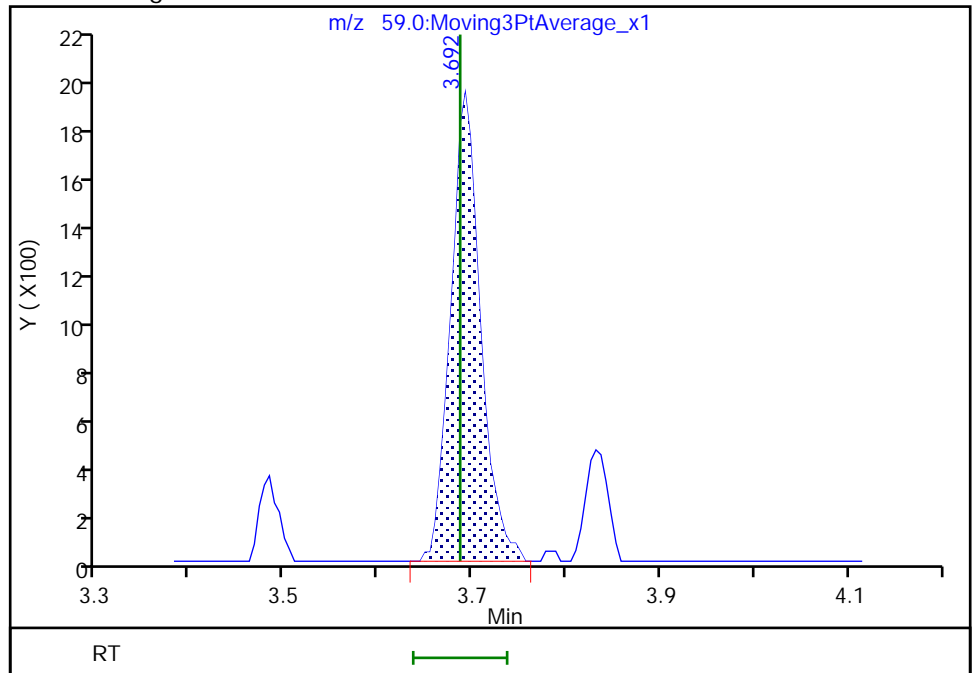
RT: 3.83
Area: 756
Amount: 27.326331
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 4227
Amount: 48.124247
Amount Units: ug/L

Manual Integration Results



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD06a.d
 Lims ID: STD06
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-Jul-2022 17:10:30 ALS Bottle#: 21 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD06
 Misc. Info.: 500-0087271-008
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:42:30 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 30-Jul-2022 10:25:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	85	53016	20.0	15.3	
2 Chloromethane	50	1.831	1.825	0.006	87	59027	20.0	16.8	
3 Vinyl chloride	62	1.948	1.943	0.005	83	60671	20.0	17.9	
4 Butadiene	39	1.964	1.959	0.005	91	55730	20.0	17.0	
5 Bromomethane	94	2.259	2.253	0.005	92	42291	20.0	18.5	
6 Chloroethane	64	2.360	2.355	0.005	94	40618	20.0	19.1	
8 Dichlorofluoromethane	67	2.574	2.569	0.005	83	89474	20.0	18.5	
9 Trichlorofluoromethane	101	2.612	2.611	0.001	79	87913	20.0	17.9	
11 Ethyl ether	59	2.895	2.895	0.000	91	27812	20.0	18.8	
12 Acrolein	56	3.024	3.023	0.001	96	117808	800.0	801.4	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	89	54238	20.0	18.2	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.125	3.120	0.005	85	61027	20.0	18.6	
15 Acetone	43	3.184	3.178	0.006	93	5897	20.0	20.7	
16 Iodomethane	142	3.259	3.259	0.000	97	97793	20.0	18.4	
17 Carbon disulfide	76	3.318	3.318	0.000	100	188832	20.0	18.2	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	90	35579	20.0	18.3	
21 Methyl acetate	43	3.484	3.478	0.006	97	30720	40.0	41.1	
22 Methylene Chloride	84	3.575	3.574	0.001	92	53837	20.0	19.1	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	98	72740	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.692	3.687	0.005	95	16946	200.0	197.0	a
25 Acrylonitrile	53	3.815	3.815	0.000	98	78172	200.0	187.3	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	87	88871	20.0	19.8	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	95	62161	20.0	18.8	
28 Hexane	57	4.083	4.083	0.000	94	101249	20.0	18.9	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	100670	20.0	19.1	
30 Vinyl acetate	43	4.281	4.281	0.000	98	49476	20.0	18.1	
34 2,2-Dichloropropane	77	4.800	4.799	0.001	72	80780	20.0	18.3	
35 cis-1,2-Dichloroethene	96	4.800	4.799	0.001	89	59399	20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.821	4.821	0.000	48	7632	20.0	19.0	
39 Chlorobromomethane	128	5.040	5.040	0.000	87	24268	20.0	18.5	
41 Tetrahydrofuran	42	5.094	5.088	0.006	71	11289	40.0	39.7	
42 Chloroform	83	5.115	5.115	0.000	83	90153	20.0	19.3	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	81	66809	30.0	26.5	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	89	90227	20.0	18.7	
45 Cyclohexane	56	5.351	5.350	0.001	91	110442	20.0	18.5	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	88	80888	20.0	18.6	
47 Carbon tetrachloride	117	5.468	5.468	0.000	84	86638	20.0	18.8	
48 Isobutyl alcohol	43	5.575	5.575	0.000	96	19927	500.0	486.8	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	53620	30.0	26.7	
50 Benzene	78	5.682	5.682	0.000	96	227200	20.0	18.5	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	82	48682	20.0	18.6	
54 n-Heptane	43	5.934	5.934	0.000	88	92974	20.0	17.8	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	561716	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	66277	20.0	18.4	
59 Methylcyclohexane	83	6.560	6.559	0.001	92	121209	20.0	18.7	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	91	46923	20.0	18.4	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	82	9795	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.741	0.001	88	20489	20.0	18.8	
65 1,4-Dioxane	88	6.763	6.757	0.006	53	4567	400.0	440.4	
66 Dichlorobromomethane	83	6.913	6.913	0.000	92	56981	20.0	18.4	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	90	15372	20.0	18.0	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	90	68802	20.0	19.0	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	91	17625	20.0	19.2	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	273251	30.0	26.0	
72 Toluene	92	7.812	7.811	0.001	92	139092	20.0	19.1	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	91	51609	20.0	18.9	
74 Ethyl methacrylate	69	8.181	8.180	0.001	90	34464	20.0	21.3	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	81	26362	20.0	19.6	
76 Tetrachloroethene	166	8.470	8.469	0.001	90	63341	20.0	18.4	
77 1,3-Dichloropropane	76	8.518	8.517	0.001	91	46802	20.0	19.1	
78 2-Hexanone	43	8.614	8.614	0.000	93	11960	20.0	20.5	
80 Chlorodibromomethane	129	8.796	8.796	0.000	86	35922	20.0	18.3	
81 Ethylene Dibromide	107	8.940	8.940	0.000	97	26525	20.0	19.0	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	369658	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	146827	20.0	18.8	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	89	52097	20.0	18.9	
86 Ethylbenzene	106	9.700	9.705	-0.005	99	87364	20.0	17.8	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	200559	20.0	17.8	
88 o-Xylene	91	10.310	10.310	0.000	94	206580	20.0	18.2	
89 Styrene	104	10.331	10.331	0.000	96	157853	20.0	18.6	
90 Bromoform	173	10.535	10.534	0.000	98	19552	20.0	18.8	
91 Isopropylbenzene	105	10.716	10.716	0.000	97	285487	20.0	18.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	93	81955	30.0	26.0	
95 Bromobenzene	156	11.027	11.027	0.001	94	56758	20.0	18.6	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	58	27320	20.0	20.6	
97 1,2,3-Trichloropropane	110	11.075	11.075	0.000	86	8509	20.0	19.7	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	84	8079	20.0	20.4	
99 N-Propylbenzene	91	11.134	11.133	0.001	98	328525	20.0	18.9	
100 2-Chlorotoluene	91	11.219	11.219	0.000	97	177678	20.0	18.9	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	96	232683	20.0	18.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	95	197487	20.0	18.7	
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	221286	20.0	19.0	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	232828	20.0	18.8	
107 sec-Butylbenzene	105	11.818	11.818	0.000	93	328595	20.0	19.0	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	122804	20.0	18.8	
109 4-Isopropyltoluene	119	11.947	11.952	-0.005	97	281631	20.0	18.9	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	188278	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	94	116042	20.0	18.2	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	251764	20.0	19.3	
114 1,2-Dichlorobenzene	146	12.327	12.326	0.001	98	104246	20.0	18.6	
116 1,2-Dibromo-3-Chloropropane	75	12.969	12.968	0.001	42	4578	20.0	20.3	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	91	74338	20.0	22.3	
119 Hexachlorobutadiene	225	13.718	13.717	0.001	94	49404	20.0	20.5	
120 Naphthalene	128	13.792	13.792	0.000	99	113664	20.0	21.8	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	93	59161	20.0	21.1	
S 124 Xylenes, Total	91				0			36.1	
S 125 Trihalomethanes, Total	1				0			74.8	
S 126 1,3-Dichloropropene, Total	1				0			37.9	
S 127 Trimethylbenzene, Total	1				0			37.5	
S 128 1,2-Dichloroethene, Total	96				0			36.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
8260 LOWSS1_00200	Amount Added: 3.00	Units: uL
LO8260/624STD_00548	Amount Added: 20.00	Units: uL
LOW8260ACR_00326	Amount Added: 20.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD06a.d

Injection Date: 29-Jul-2022 17:10:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD06

Worklist Smp#: 32

Client ID:

Purge Vol: 5.000 mL

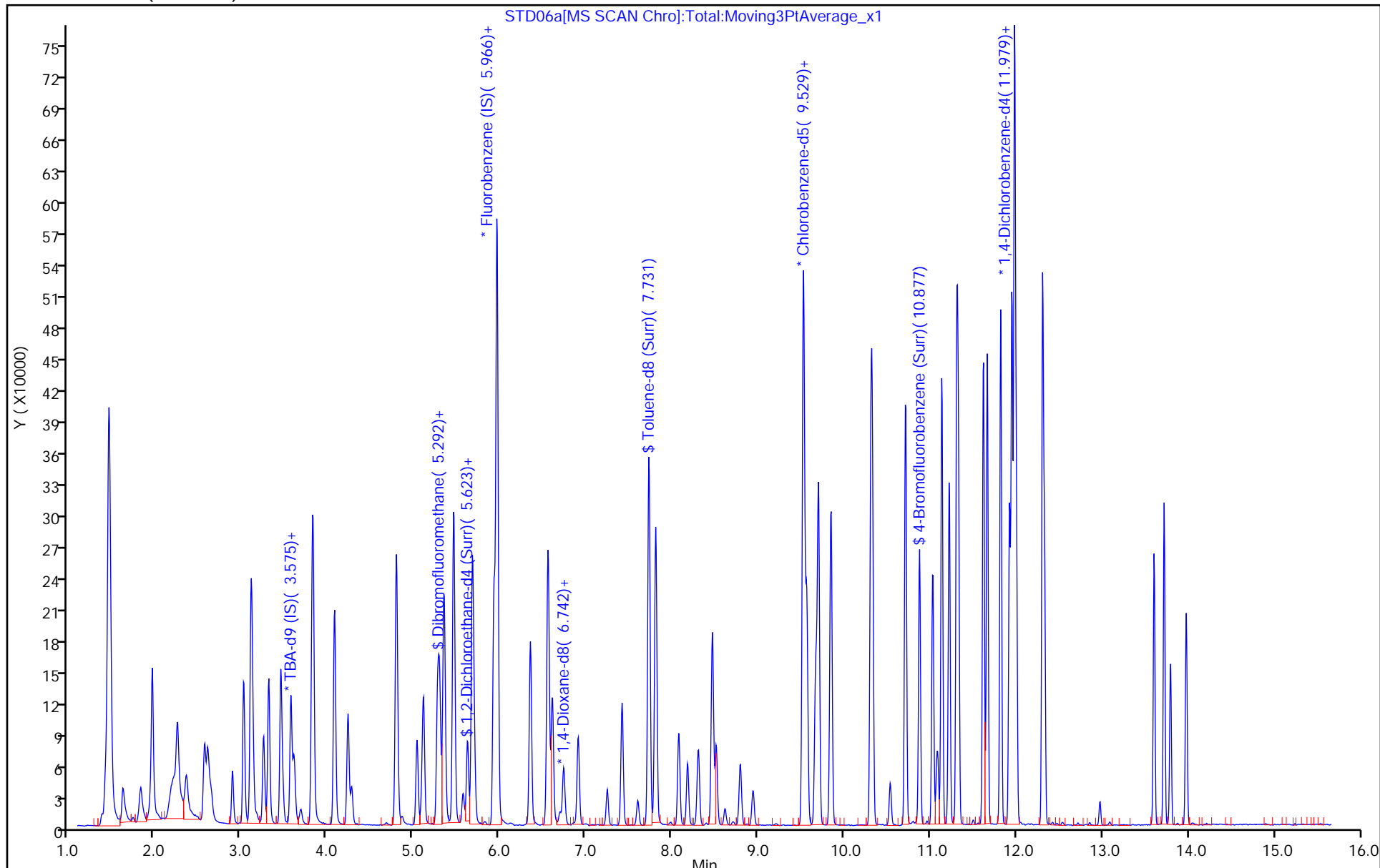
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

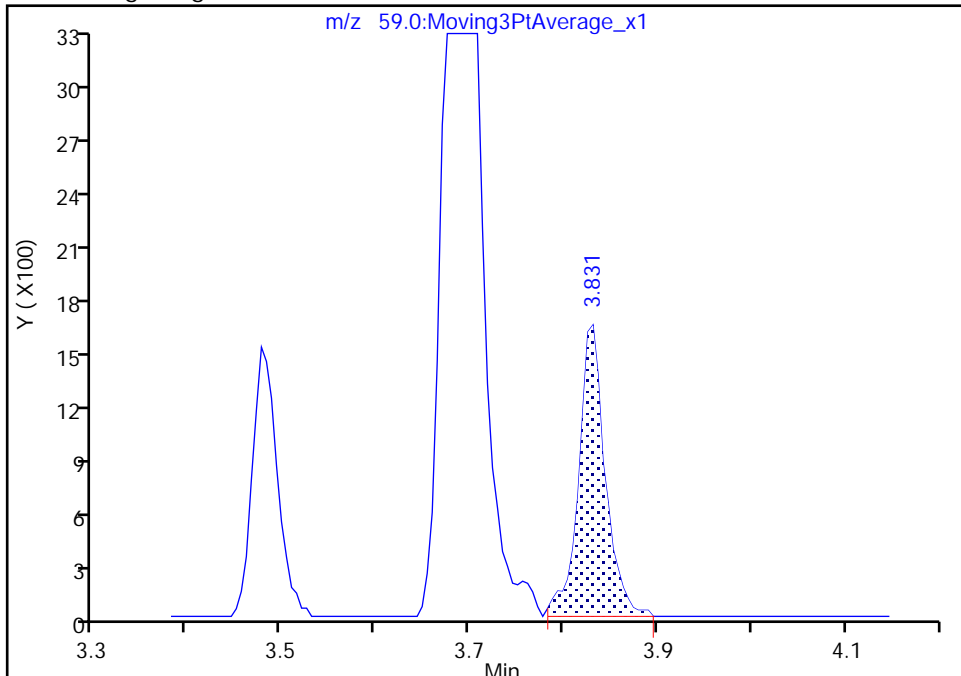
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Injection Date: 29-Jul-2022 17:10:30 Instrument ID: CMS19
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 21 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

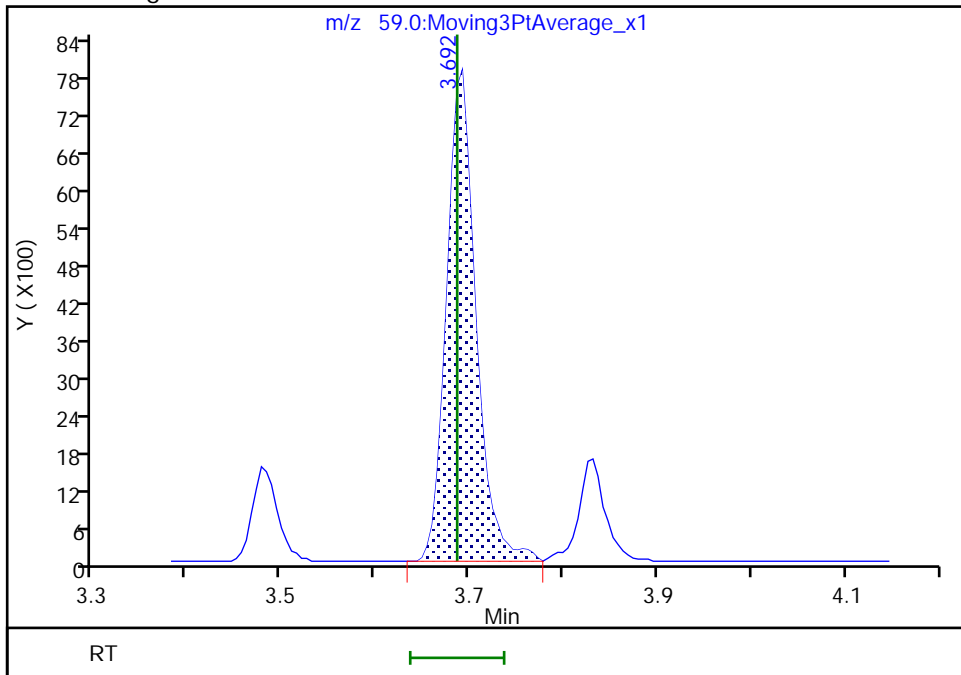
RT: 3.83
Area: 3207
Amount: 95.837448
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 16946
Amount: 197.0301
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:01:09
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Calibration

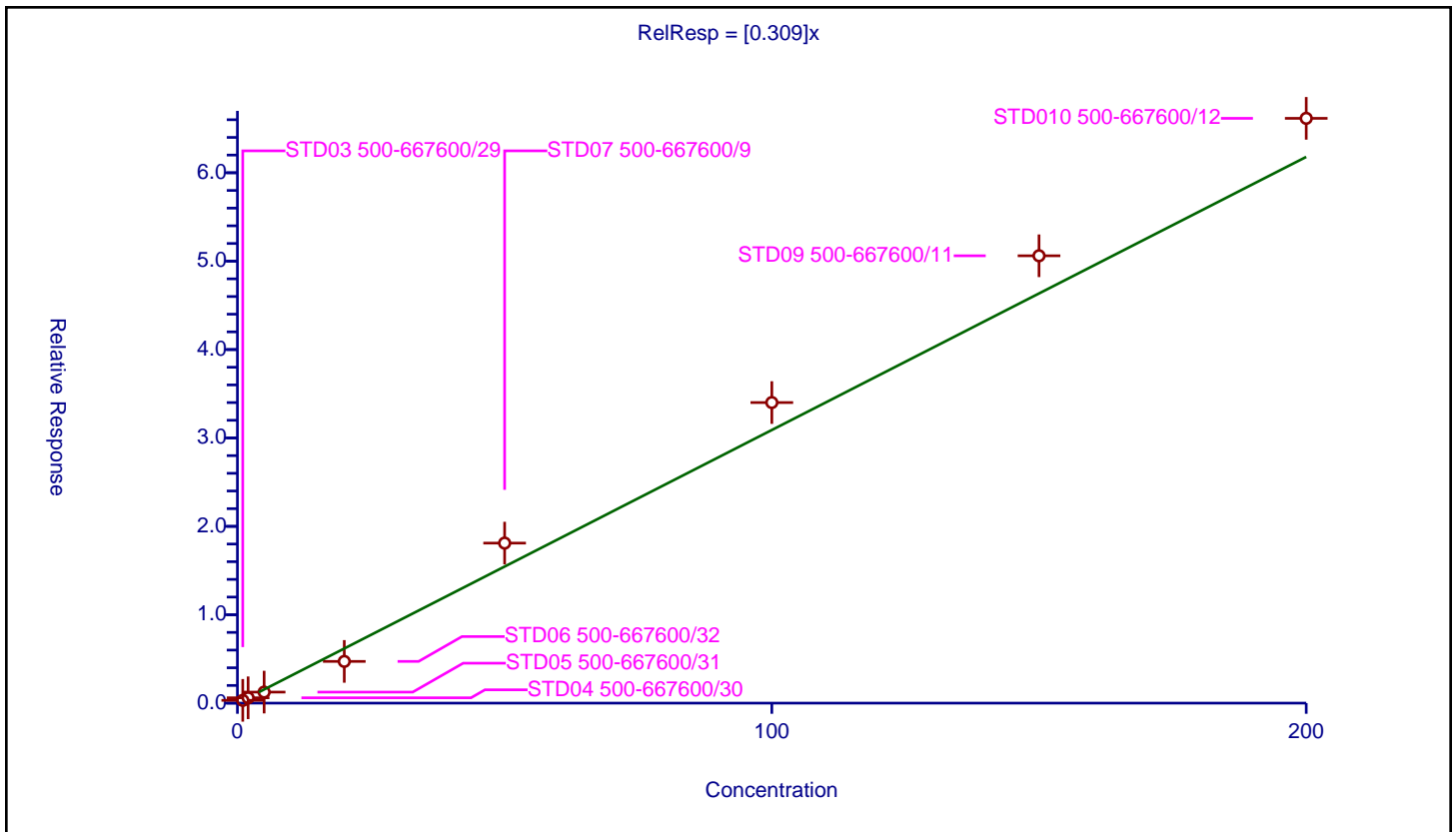
/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.309

Error Coefficients	
Standard Error:	435000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.314118	50.0	565551.0	0.314118	Y
2	STD04 500-667600/30	2.0	0.603107	50.0	518813.0	0.301554	Y
3	STD05 500-667600/31	5.0	1.249029	50.0	558514.0	0.249806	Y
4	STD06 500-667600/32	20.0	4.719111	50.0	561716.0	0.235956	Y
5	STD07 500-667600/9	50.0	18.10523	50.0	590346.0	0.362105	Y
6	STD08 500-667600/10	100.0	34.005188	50.0	609482.0	0.340052	Y
7	STD09 500-667600/11	150.0	50.608138	50.0	627160.0	0.337388	Y
8	STD010 500-667600/12	200.0	66.155851	50.0	633040.0	0.330779	Y



Calibration

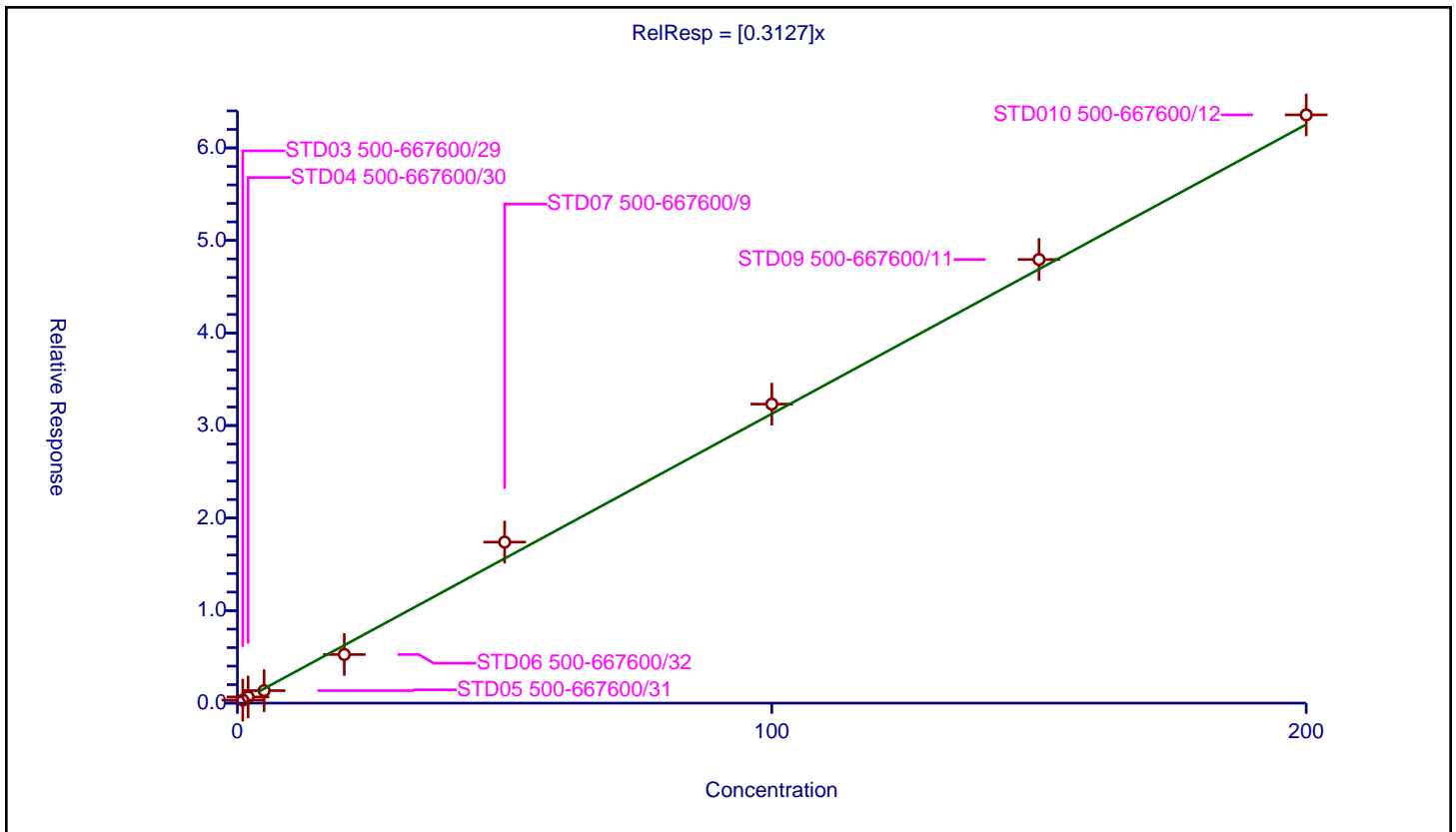
/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3127

Error Coefficients	
Standard Error:	416000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.325523	50.0	565551.0	0.325523	Y
2	STD04 500-667600/30	2.0	0.667967	50.0	518813.0	0.333984	Y
3	STD05 500-667600/31	5.0	1.352428	50.0	558514.0	0.270486	Y
4	STD06 500-667600/32	20.0	5.254168	50.0	561716.0	0.262708	Y
5	STD07 500-667600/9	50.0	17.399796	50.0	590346.0	0.347996	Y
6	STD08 500-667600/10	100.0	32.314572	50.0	609482.0	0.323146	Y
7	STD09 500-667600/11	150.0	47.939282	50.0	627160.0	0.319595	Y
8	STD010 500-667600/12	200.0	63.567784	50.0	633040.0	0.317839	Y



Calibration

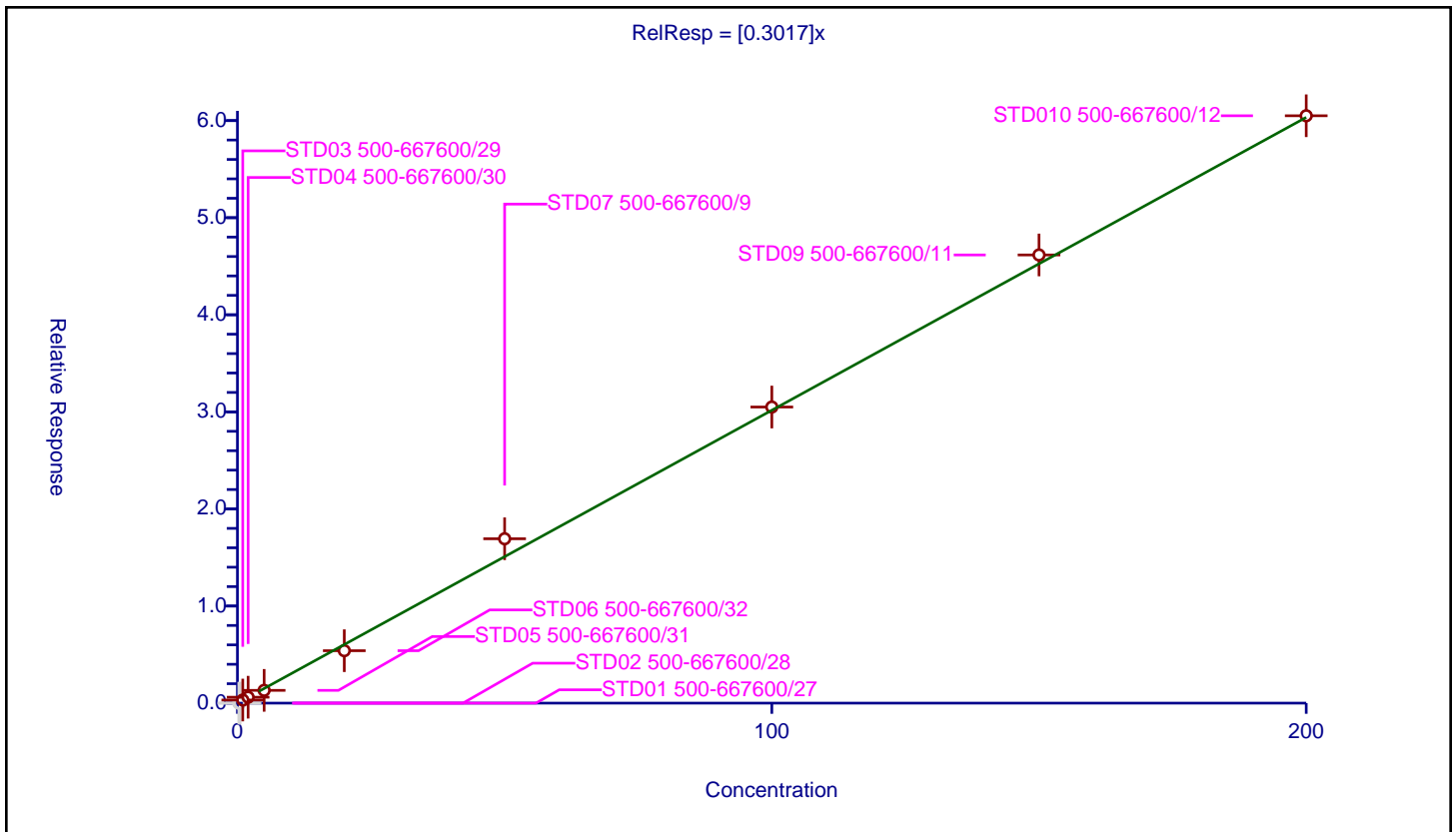
/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3017

Error Coefficients	
Standard Error:	397000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.0	50.0	522032.0	0.0	N
2	STD02 500-667600/28	0.5	0.0	50.0	565295.0	0.0	N
3	STD03 500-667600/29	1.0	0.320661	50.0	565551.0	0.320661	Y
4	STD04 500-667600/30	2.0	0.611299	50.0	518813.0	0.30565	Y
5	STD05 500-667600/31	5.0	1.316171	50.0	558514.0	0.263234	Y
6	STD06 500-667600/32	20.0	5.400505	50.0	561716.0	0.270025	Y
7	STD07 500-667600/9	50.0	16.928547	50.0	590346.0	0.338571	Y
8	STD08 500-667600/10	100.0	30.497045	50.0	609482.0	0.30497	Y
9	STD09 500-667600/11	150.0	46.162542	50.0	627160.0	0.30775	Y
10	STD010 500-667600/12	200.0	60.498942	50.0	633040.0	0.302495	Y



Calibration

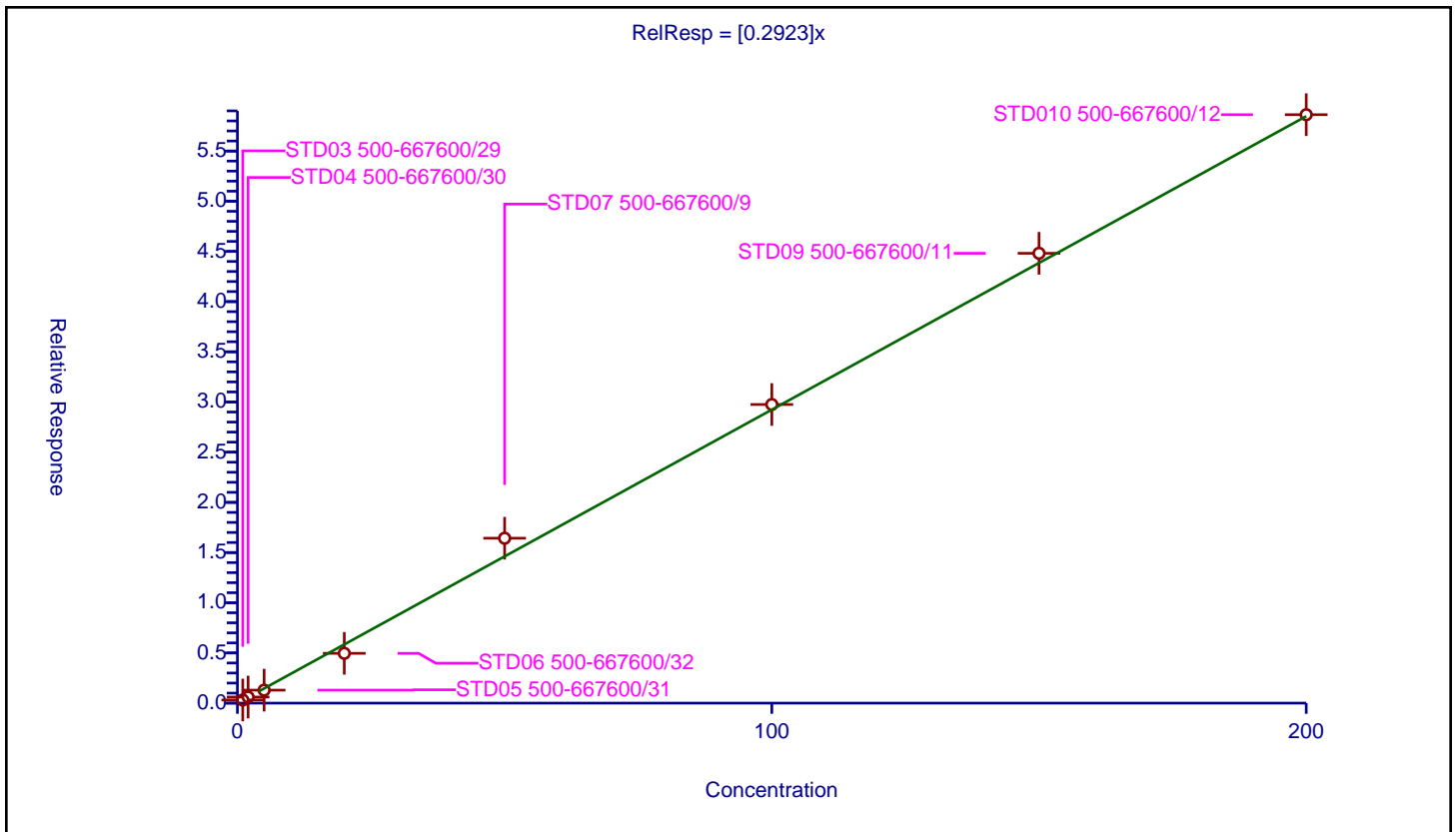
/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2923

Error Coefficients	
Standard Error:	385000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.31067	50.0	565551.0	0.31067	Y
2	STD04 500-667600/30	2.0	0.607155	50.0	518813.0	0.303578	Y
3	STD05 500-667600/31	5.0	1.292358	50.0	558514.0	0.258472	Y
4	STD06 500-667600/32	20.0	4.960692	50.0	561716.0	0.248035	Y
5	STD07 500-667600/9	50.0	16.42757	50.0	590346.0	0.328551	Y
6	STD08 500-667600/10	100.0	29.749853	50.0	609482.0	0.297499	Y
7	STD09 500-667600/11	150.0	44.813206	50.0	627160.0	0.298755	Y
8	STD010 500-667600/12	200.0	58.621493	50.0	633040.0	0.293107	Y



Calibration

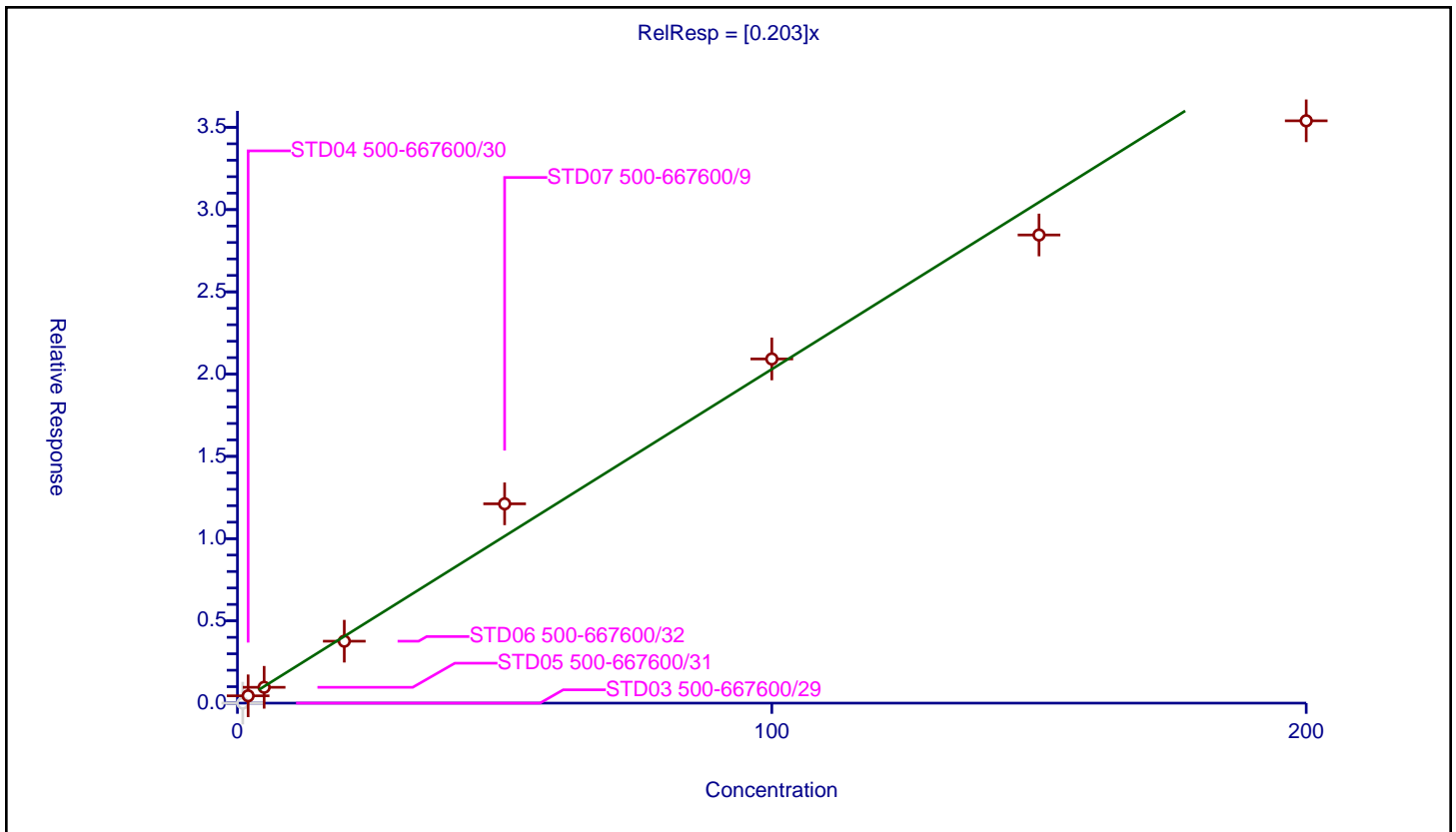
/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.203

Error Coefficients	
Standard Error:	263000
Relative Standard Error:	11.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	2.0	0.443802	50.0	518813.0	0.221901	Y
3	STD05 500-667600/31	5.0	0.962554	50.0	558514.0	0.192511	Y
4	STD06 500-667600/32	20.0	3.764447	50.0	561716.0	0.188222	Y
5	STD07 500-667600/9	50.0	12.116115	50.0	590346.0	0.242322	Y
6	STD08 500-667600/10	100.0	20.920224	50.0	609482.0	0.209202	Y
7	STD09 500-667600/11	150.0	28.457571	50.0	627160.0	0.189717	Y
8	STD010 500-667600/12	200.0	35.397605	50.0	633040.0	0.176988	Y



Calibration

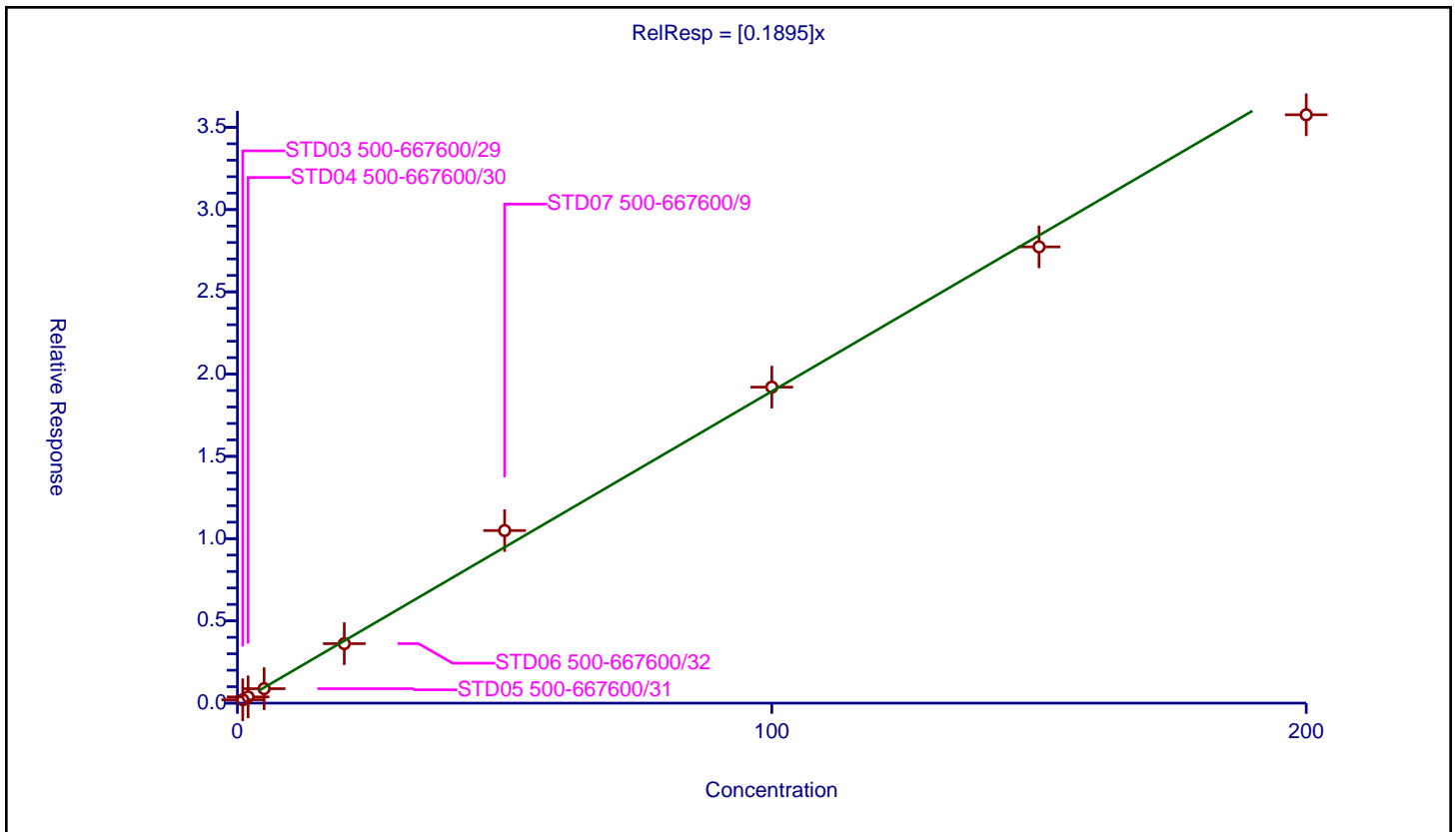
/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1895

Error Coefficients	
Standard Error:	238000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.204491	50.0	565551.0	0.204491	Y
2	STD04 500-667600/30	2.0	0.379617	50.0	518813.0	0.189808	Y
3	STD05 500-667600/31	5.0	0.877865	50.0	558514.0	0.175573	Y
4	STD06 500-667600/32	20.0	3.615528	50.0	561716.0	0.180776	Y
5	STD07 500-667600/9	50.0	10.490628	50.0	590346.0	0.209813	Y
6	STD08 500-667600/10	100.0	19.208032	50.0	609482.0	0.19208	Y
7	STD09 500-667600/11	150.0	27.732955	50.0	627160.0	0.184886	Y
8	STD010 500-667600/12	200.0	35.764407	50.0	633040.0	0.178822	Y



Calibration

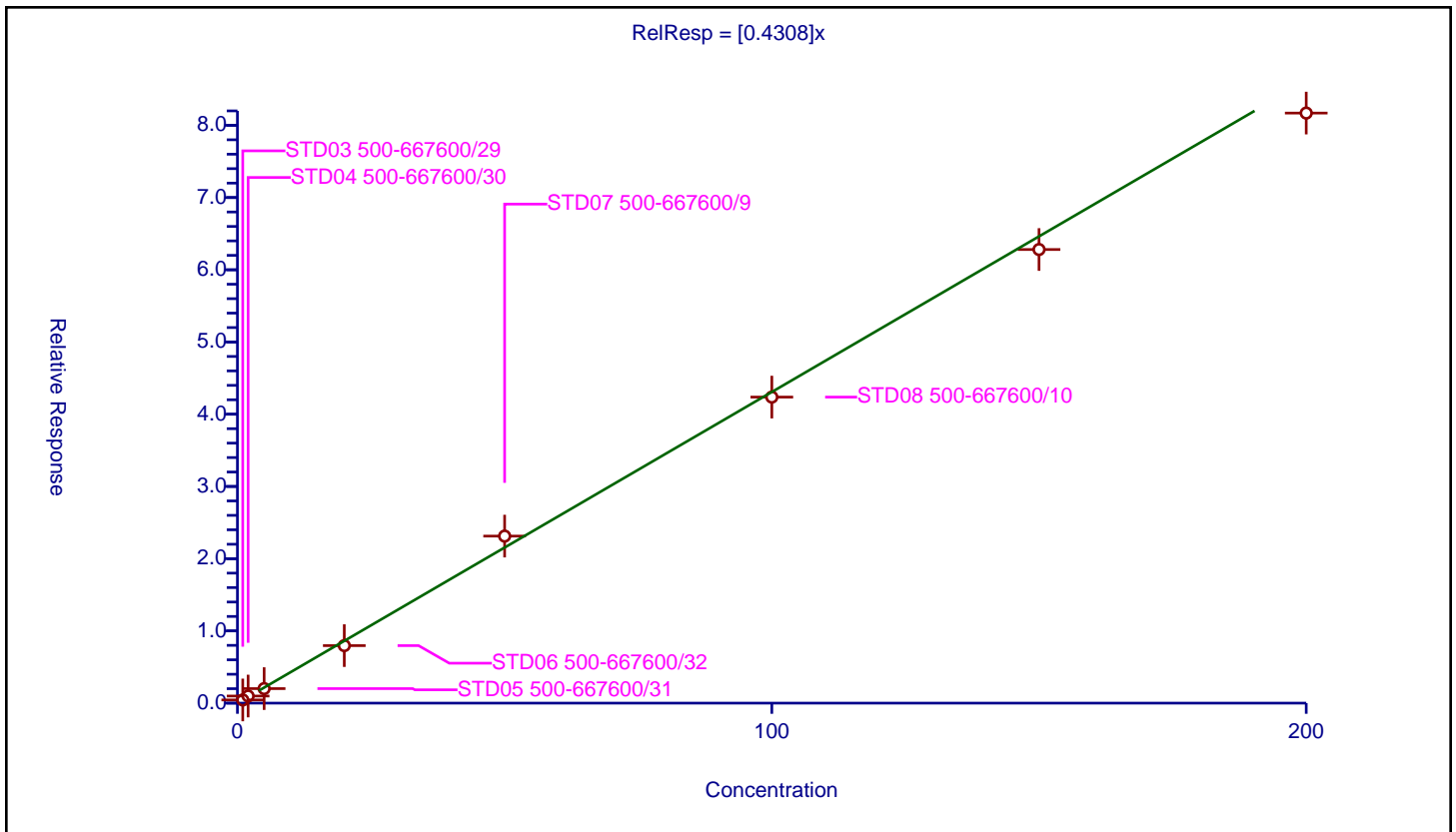
/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4308

Error Coefficients	
Standard Error:	540000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.441782	50.0	565551.0	0.441782	Y
2	STD04 500-667600/30	2.0	0.981953	50.0	518813.0	0.490977	Y
3	STD05 500-667600/31	5.0	2.010156	50.0	558514.0	0.402031	Y
4	STD06 500-667600/32	20.0	7.964345	50.0	561716.0	0.398217	Y
5	STD07 500-667600/9	50.0	23.127369	50.0	590346.0	0.462547	Y
6	STD08 500-667600/10	100.0	42.370899	50.0	609482.0	0.423709	Y
7	STD09 500-667600/11	150.0	62.807258	50.0	627160.0	0.418715	Y
8	STD010 500-667600/12	200.0	81.696022	50.0	633040.0	0.40848	Y



Calibration

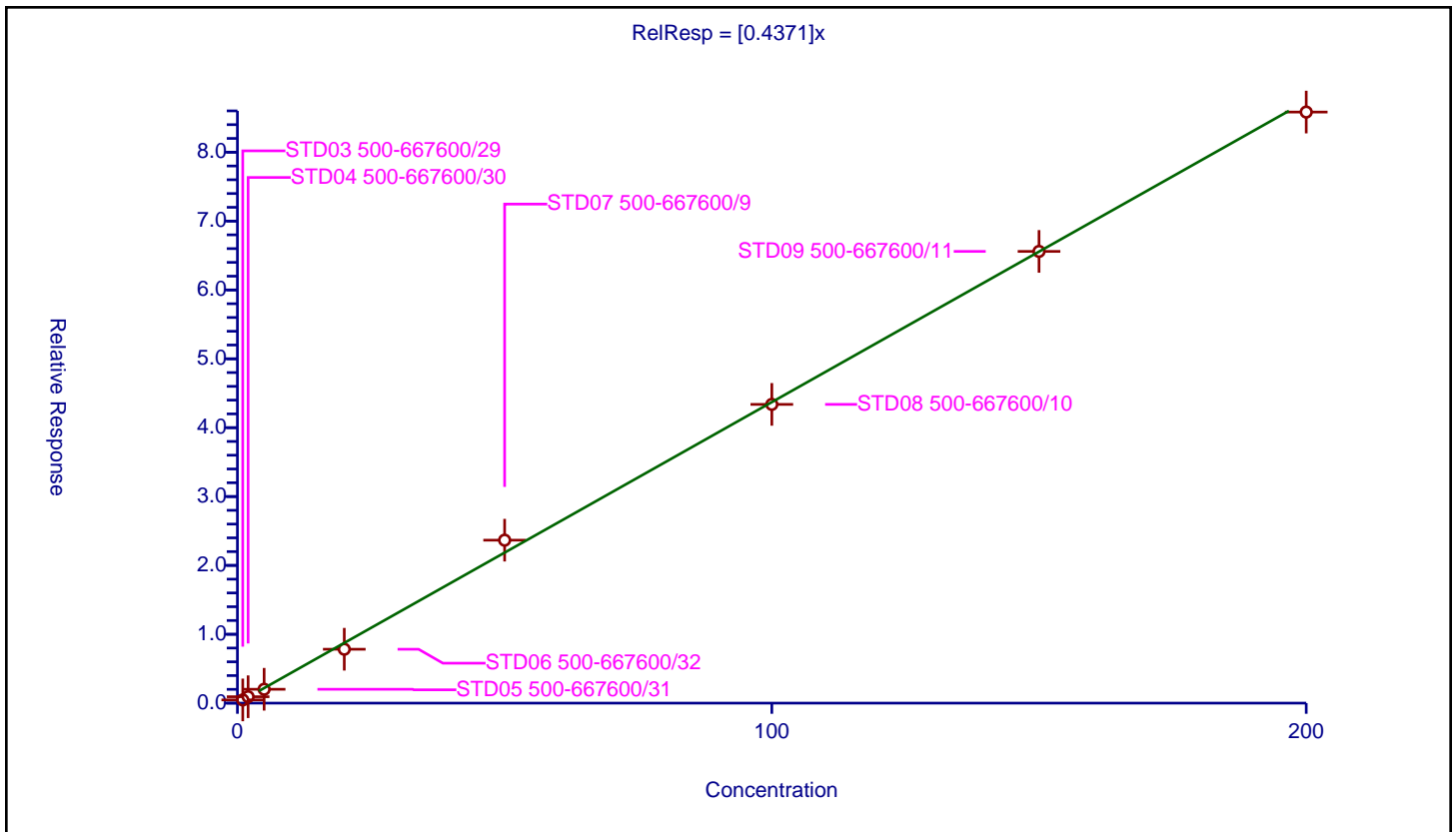
/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4371

Error Coefficients	
Standard Error:	564000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.465298	50.0	565551.0	0.465298	Y
2	STD04 500-667600/30	2.0	0.928466	50.0	518813.0	0.464233	Y
3	STD05 500-667600/31	5.0	2.01123	50.0	558514.0	0.402246	Y
4	STD06 500-667600/32	20.0	7.825396	50.0	561716.0	0.39127	Y
5	STD07 500-667600/9	50.0	23.664173	50.0	590346.0	0.473283	Y
6	STD08 500-667600/10	100.0	43.380034	50.0	609482.0	0.4338	Y
7	STD09 500-667600/11	150.0	65.593788	50.0	627160.0	0.437292	Y
8	STD010 500-667600/12	200.0	85.831148	50.0	633040.0	0.429156	Y



Calibration

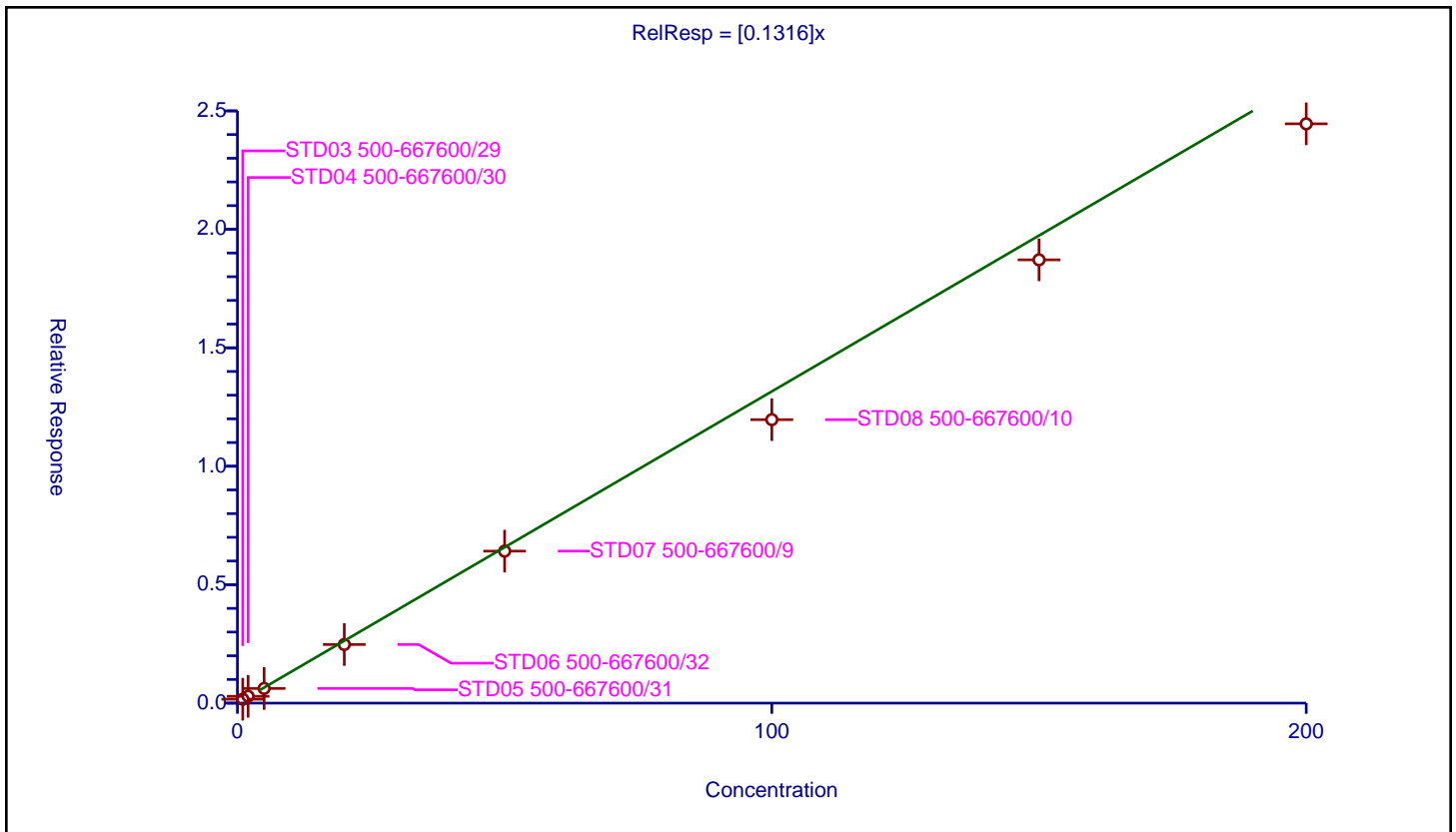
/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1316

Error Coefficients	
Standard Error:	160000
Relative Standard Error:	11.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.165502	50.0	565551.0	0.165502	Y
2	STD04 500-667600/30	2.0	0.288736	50.0	518813.0	0.144368	Y
3	STD05 500-667600/31	5.0	0.619859	50.0	558514.0	0.123972	Y
4	STD06 500-667600/32	20.0	2.475628	50.0	561716.0	0.123781	Y
5	STD07 500-667600/9	50.0	6.416915	50.0	590346.0	0.128338	Y
6	STD08 500-667600/10	100.0	11.965735	50.0	609482.0	0.119657	Y
7	STD09 500-667600/11	150.0	18.712529	50.0	627160.0	0.12475	Y
8	STD010 500-667600/12	200.0	24.453905	50.0	633040.0	0.12227	Y



Calibration

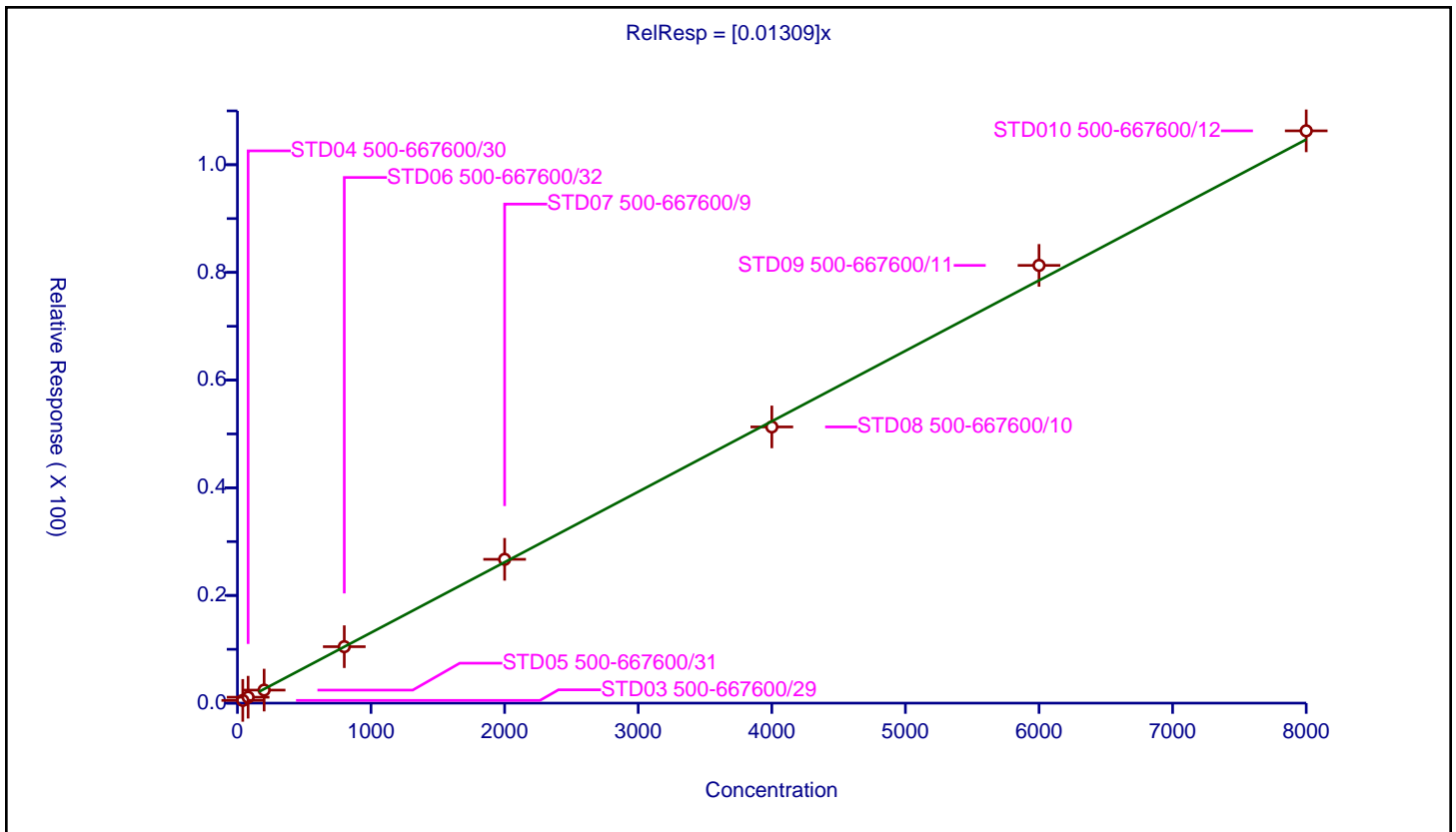
/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01309

Error Coefficients	
Standard Error:	692000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	40.0	0.509149	50.0	565551.0	0.012729	Y
2	STD04 500-667600/30	80.0	1.098565	50.0	518813.0	0.013732	Y
3	STD05 500-667600/31	200.0	2.419904	50.0	558514.0	0.0121	Y
4	STD06 500-667600/32	800.0	10.486438	50.0	561716.0	0.013108	Y
5	STD07 500-667600/9	2000.0	26.70849	50.0	590346.0	0.013354	Y
6	STD08 500-667600/10	4000.0	51.301597	50.0	609482.0	0.012825	Y
7	STD09 500-667600/11	6000.0	81.305409	50.0	627160.0	0.013551	Y
8	STD10 500-667600/12	8000.0	106.294784	50.0	633040.0	0.013287	Y



Calibration

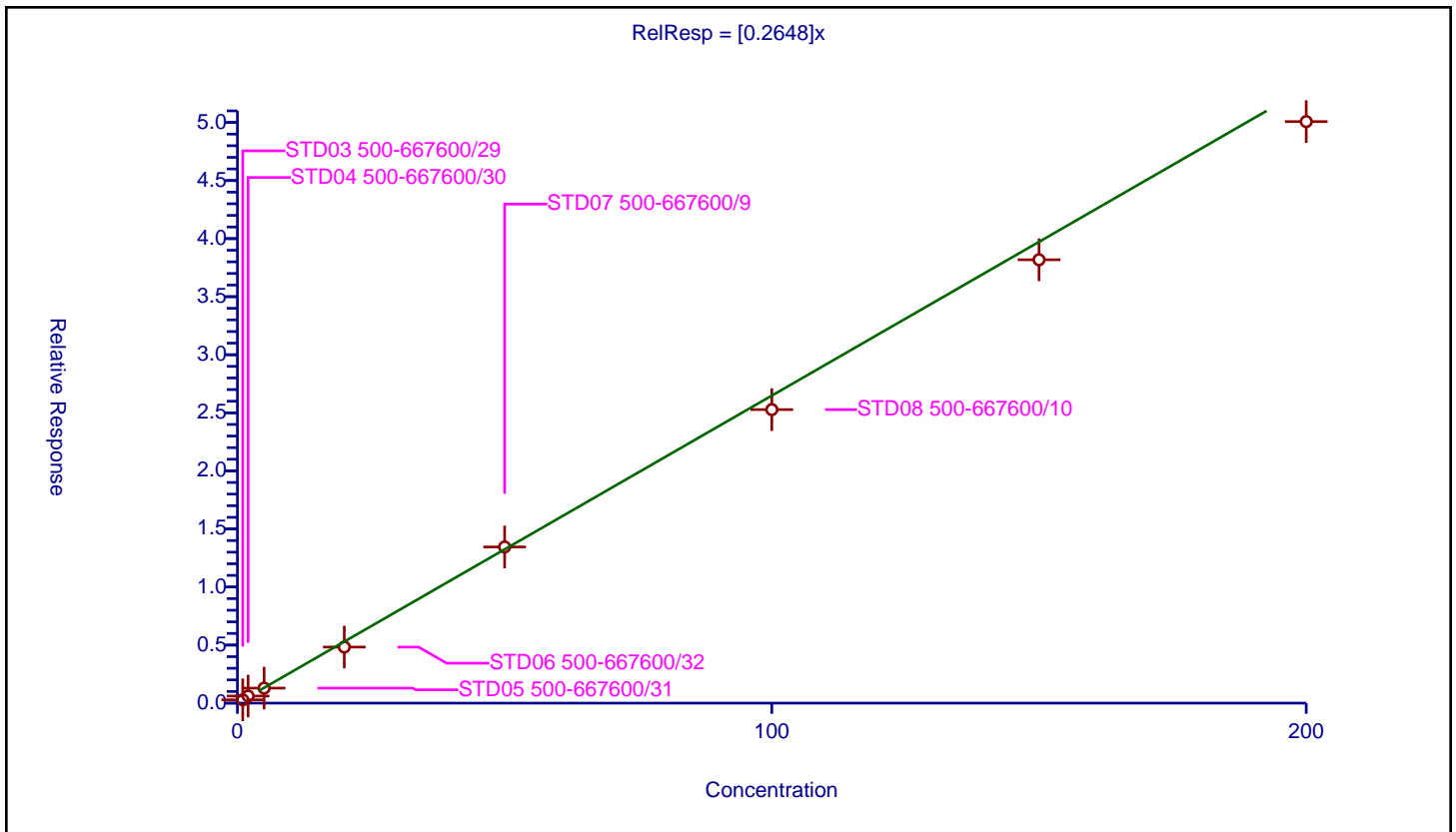
/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2648

Error Coefficients	
Standard Error:	328000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.285651	50.0	565551.0	0.285651	Y
2	STD04 500-667600/30	2.0	0.611974	50.0	518813.0	0.305987	Y
3	STD05 500-667600/31	5.0	1.293969	50.0	558514.0	0.258794	Y
4	STD06 500-667600/32	20.0	4.827885	50.0	561716.0	0.241394	Y
5	STD07 500-667600/9	50.0	13.448808	50.0	590346.0	0.268976	Y
6	STD08 500-667600/10	100.0	25.274906	50.0	609482.0	0.252749	Y
7	STD09 500-667600/11	150.0	38.179412	50.0	627160.0	0.254529	Y
8	STD010 500-667600/12	200.0	50.077246	50.0	633040.0	0.250386	Y



Calibration

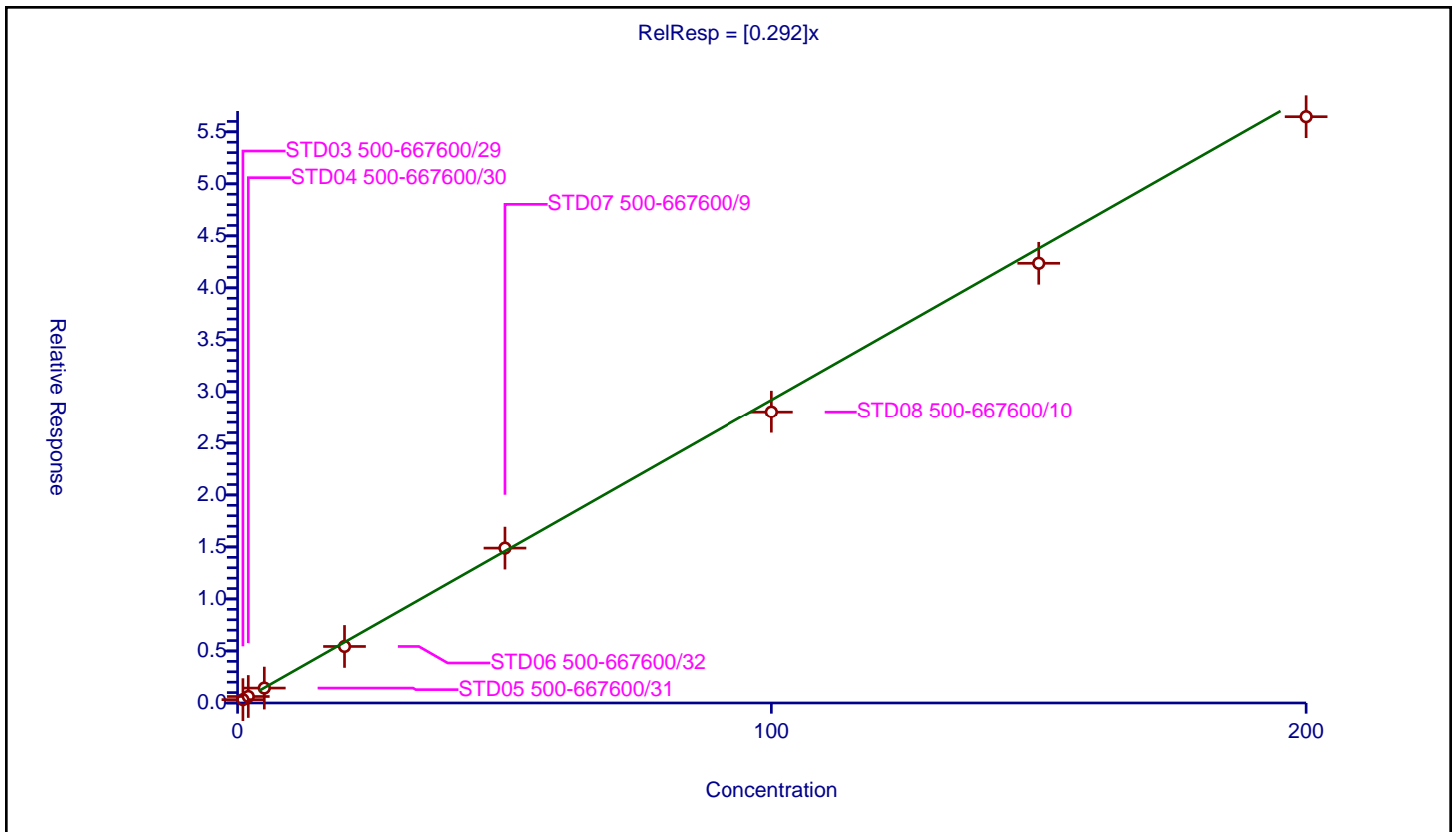
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.292

Error Coefficients	
Standard Error:	367000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.321722	50.0	565551.0	0.321722	Y
2	STD04 500-667600/30	2.0	0.625081	50.0	518813.0	0.31254	Y
3	STD05 500-667600/31	5.0	1.434789	50.0	558514.0	0.286958	Y
4	STD06 500-667600/32	20.0	5.432193	50.0	561716.0	0.27161	Y
5	STD07 500-667600/9	50.0	14.89042	50.0	590346.0	0.297808	Y
6	STD08 500-667600/10	100.0	28.049147	50.0	609482.0	0.280491	Y
7	STD09 500-667600/11	150.0	42.362714	50.0	627160.0	0.282418	Y
8	STD10 500-667600/12	200.0	56.453226	50.0	633040.0	0.282266	Y



Calibration

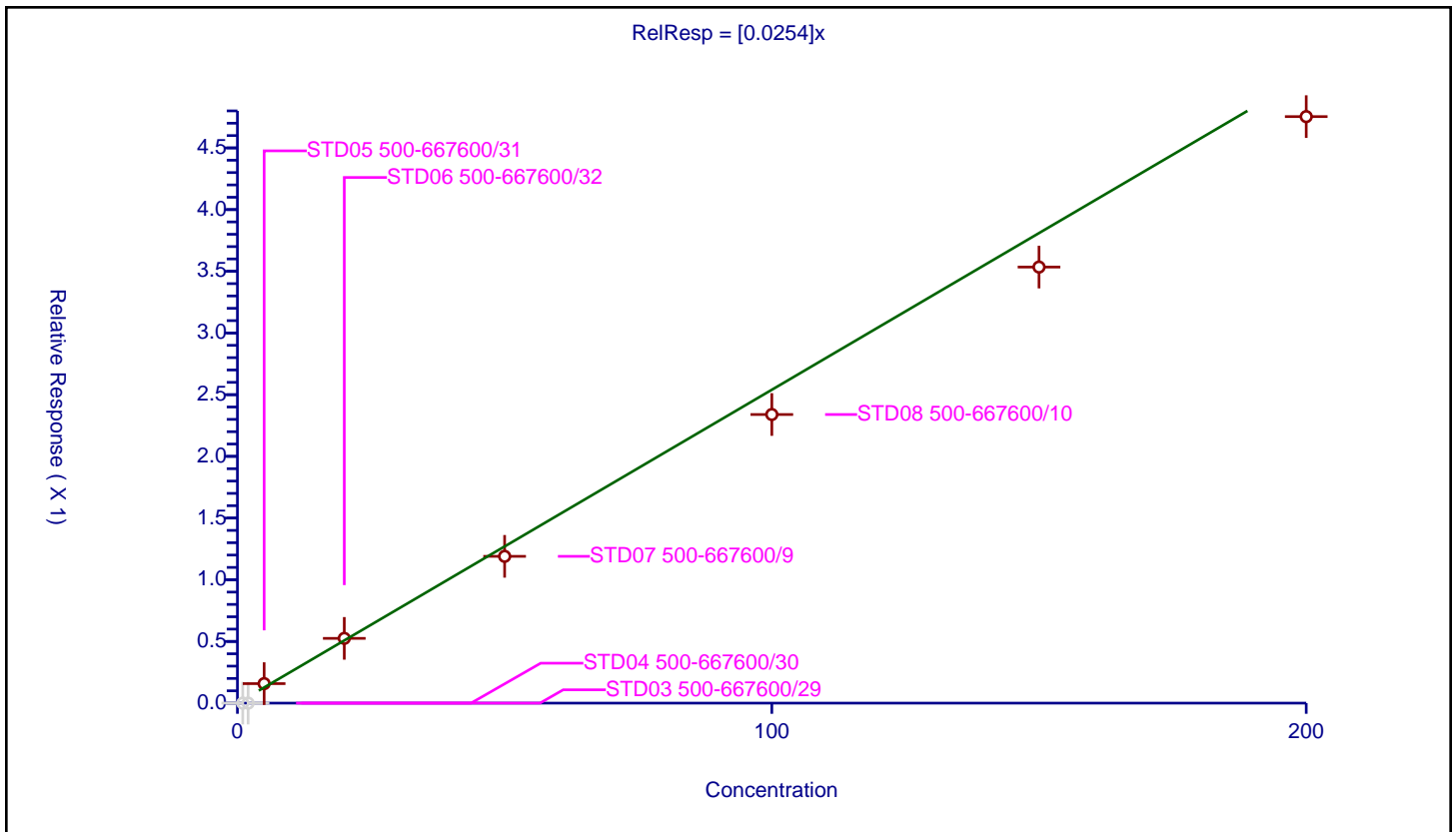
/ Acetone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0254

Error Coefficients	
Standard Error:	36400
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	2.0	0.0	50.0	518813.0	0.0	N
3	STD05 500-667600/31	5.0	0.158098	50.0	558514.0	0.03162	Y
4	STD06 500-667600/32	20.0	0.524909	50.0	561716.0	0.026245	Y
5	STD07 500-667600/9	50.0	1.189641	50.0	590346.0	0.023793	Y
6	STD08 500-667600/10	100.0	2.3392	50.0	609482.0	0.023392	Y
7	STD09 500-667600/11	150.0	3.534266	50.0	627160.0	0.023562	Y
8	STD010 500-667600/12	200.0	4.753491	50.0	633040.0	0.023767	Y



Calibration

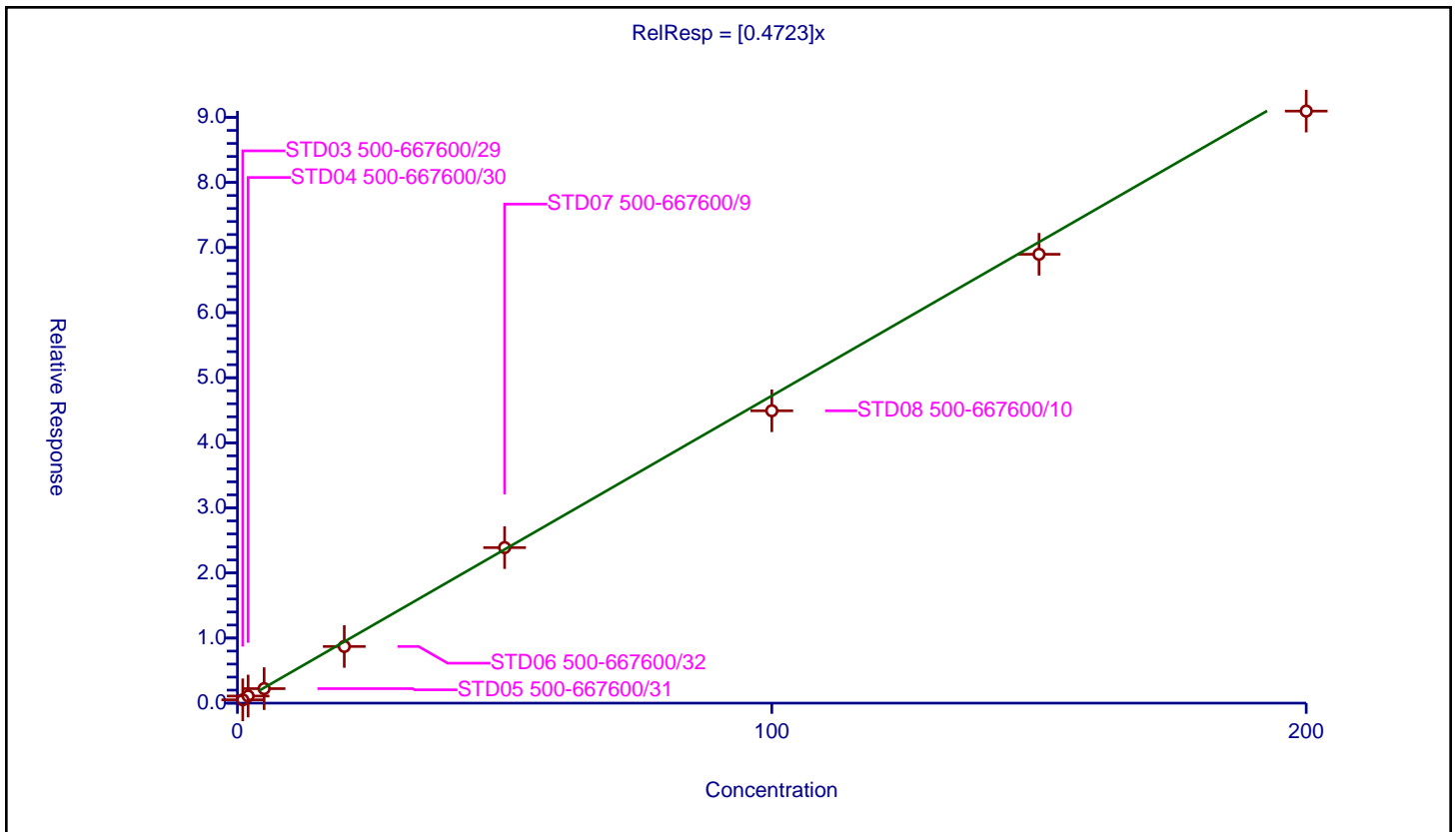
/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4723

Error Coefficients	
Standard Error:	593000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.510918	50.0	565551.0	0.510918	Y
2	STD04 500-667600/30	2.0	1.089603	50.0	518813.0	0.544801	Y
3	STD05 500-667600/31	5.0	2.22716	50.0	558514.0	0.445432	Y
4	STD06 500-667600/32	20.0	8.704844	50.0	561716.0	0.435242	Y
5	STD07 500-667600/9	50.0	23.898443	50.0	590346.0	0.477969	Y
6	STD08 500-667600/10	100.0	44.925117	50.0	609482.0	0.449251	Y
7	STD09 500-667600/11	150.0	68.969641	50.0	627160.0	0.459798	Y
8	STD010 500-667600/12	200.0	90.967237	50.0	633040.0	0.454836	Y



Calibration

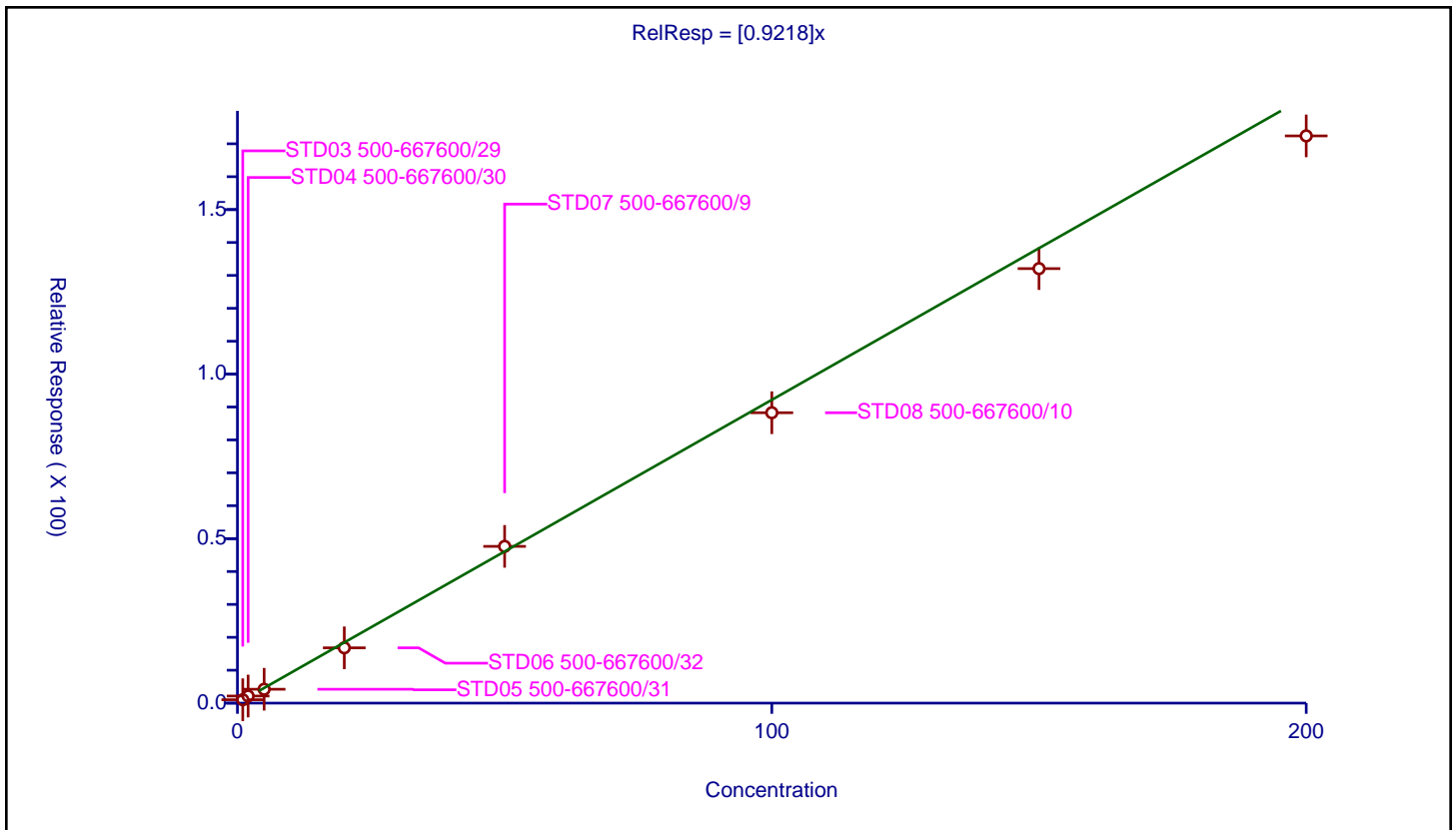
/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9218

Error Coefficients	
Standard Error:	1140000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.03545	50.0	565551.0	1.03545	Y
2	STD04 500-667600/30	2.0	2.154052	50.0	518813.0	1.077026	Y
3	STD05 500-667600/31	5.0	4.217352	50.0	558514.0	0.84347	Y
4	STD06 500-667600/32	20.0	16.808494	50.0	561716.0	0.840425	Y
5	STD07 500-667600/9	50.0	47.638673	50.0	590346.0	0.952773	Y
6	STD08 500-667600/10	100.0	88.258144	50.0	609482.0	0.882581	Y
7	STD09 500-667600/11	150.0	132.064146	50.0	627160.0	0.880428	Y
8	STD010 500-667600/12	200.0	172.399137	50.0	633040.0	0.861996	Y



Calibration

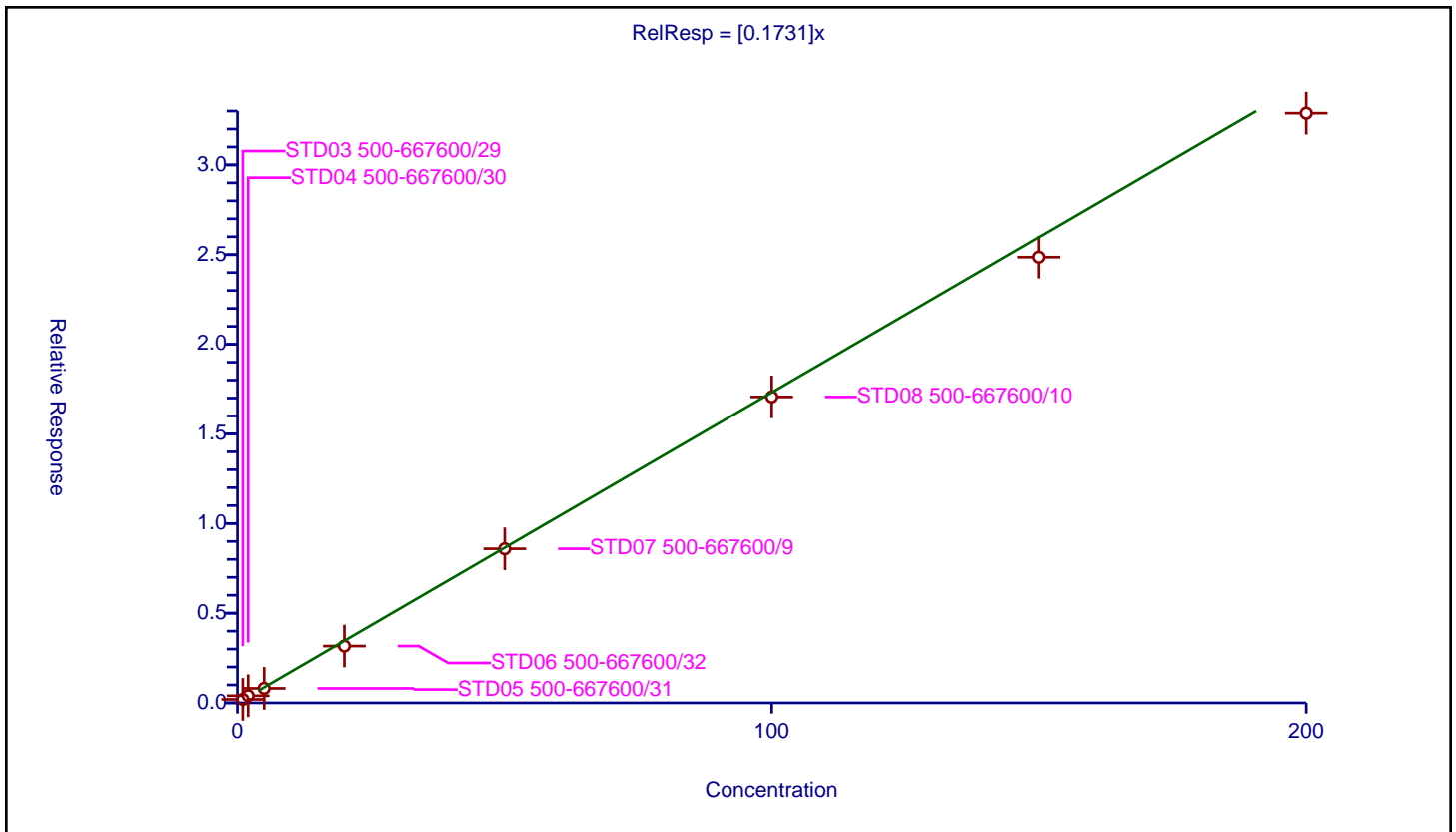
/ 3-Chloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1731

Error Coefficients	
Standard Error:	216000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.193705	50.0	565551.0	0.193705	Y
2	STD04 500-667600/30	2.0	0.396964	50.0	518813.0	0.198482	Y
3	STD05 500-667600/31	5.0	0.808664	50.0	558514.0	0.161733	Y
4	STD06 500-667600/32	20.0	3.166992	50.0	561716.0	0.15835	Y
5	STD07 500-667600/9	50.0	8.591402	50.0	590346.0	0.171828	Y
6	STD08 500-667600/10	100.0	17.063588	50.0	609482.0	0.170636	Y
7	STD09 500-667600/11	150.0	24.860243	50.0	627160.0	0.165735	Y
8	STD010 500-667600/12	200.0	32.881335	50.0	633040.0	0.164407	Y



Calibration

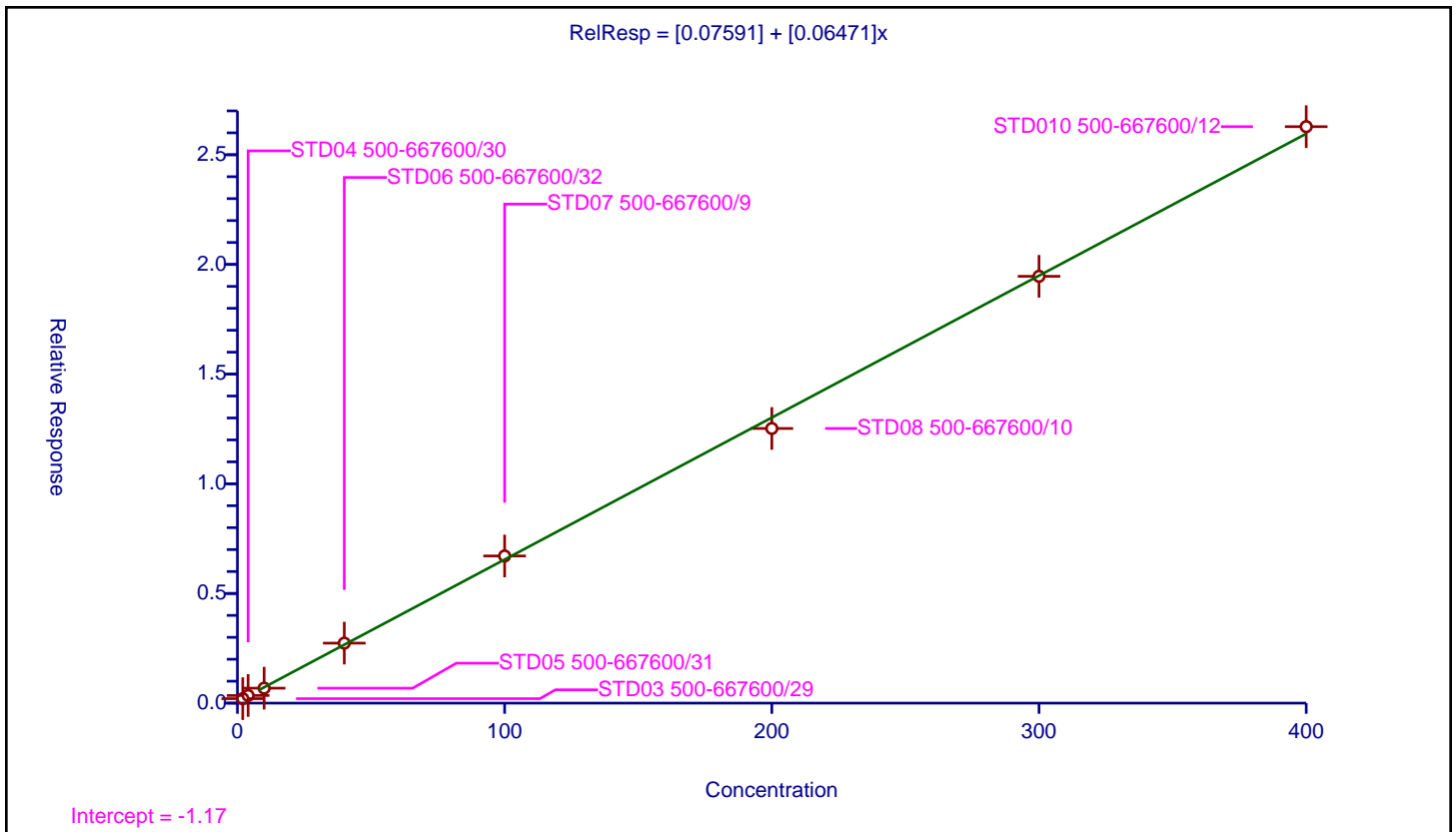
/ Methyl acetate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.07591
Slope:	0.06471

Error Coefficients	
Standard Error:	183000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	2.0	0.203695	50.0	565551.0	0.101848	Y
2	STD04 500-667600/30	4.0	0.34791	50.0	518813.0	0.086977	Y
3	STD05 500-667600/31	10.0	0.682167	50.0	558514.0	0.068217	Y
4	STD06 500-667600/32	40.0	2.734478	50.0	561716.0	0.068362	Y
5	STD07 500-667600/9	100.0	6.708862	50.0	590346.0	0.067089	Y
6	STD08 500-667600/10	200.0	12.521207	50.0	609482.0	0.062606	Y
7	STD09 500-667600/11	300.0	19.45891	50.0	627160.0	0.064863	Y
8	STD10 500-667600/12	400.0	26.281278	50.0	633040.0	0.065703	Y



Calibration

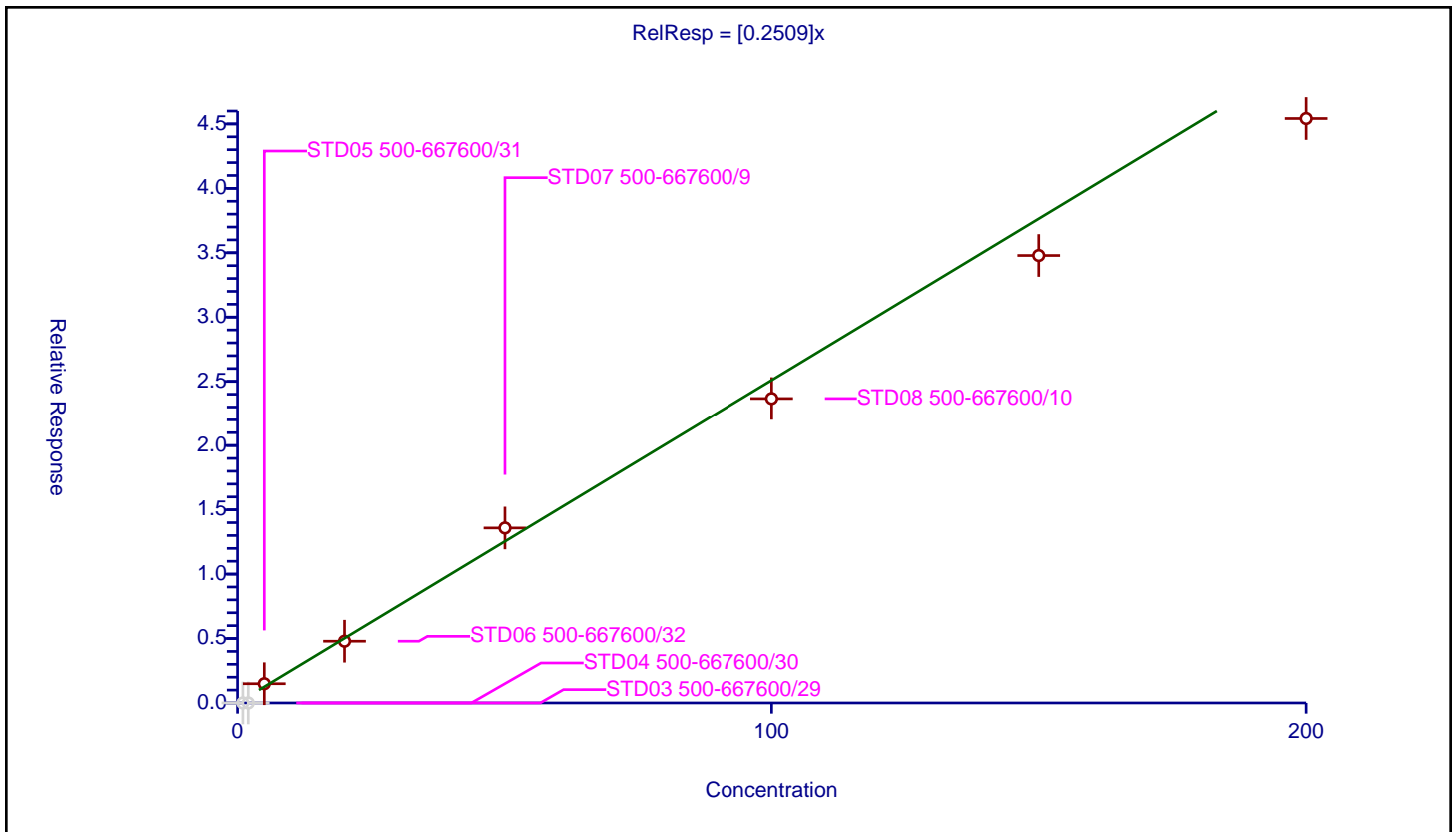
/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2509

Error Coefficients	
Standard Error:	356000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	2.0	0.0	50.0	518813.0	0.0	N
3	STD05 500-667600/31	5.0	1.493159	50.0	558514.0	0.298632	Y
4	STD06 500-667600/32	20.0	4.79219	50.0	561716.0	0.23961	Y
5	STD07 500-667600/9	50.0	13.586863	50.0	590346.0	0.271737	Y
6	STD08 500-667600/10	100.0	23.666819	50.0	609482.0	0.236668	Y
7	STD09 500-667600/11	150.0	34.787215	50.0	627160.0	0.231915	Y
8	STD10 500-667600/12	200.0	45.421537	50.0	633040.0	0.227108	Y



Calibration

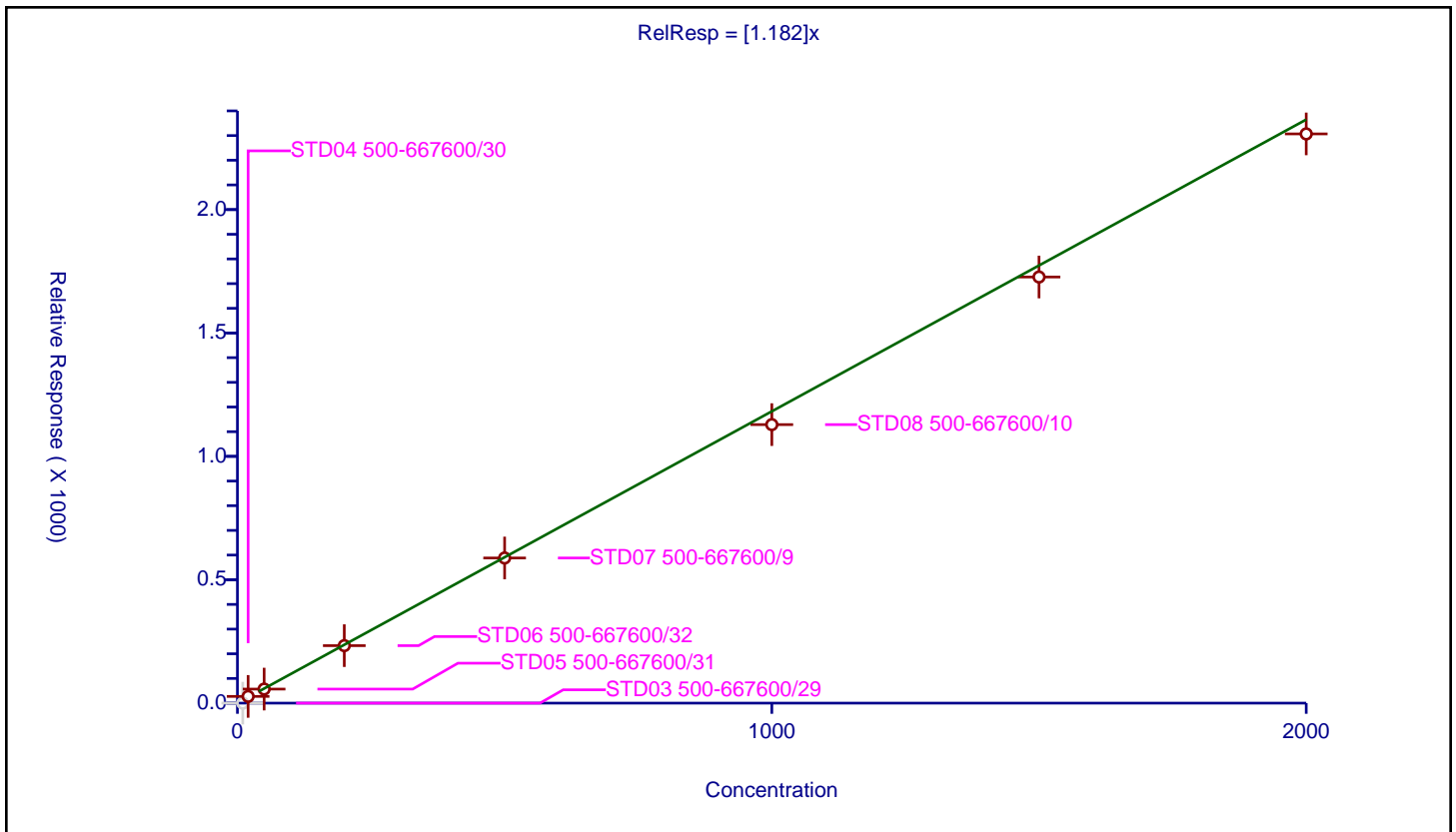
/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.182

Error Coefficients	
Standard Error:	101000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	10.0	0.0	1000.0	74673.0	0.0	N
2	STD04 500-667600/30	20.0	27.286053	1000.0	70952.0	1.364303	Y
3	STD05 500-667600/31	50.0	56.901704	1000.0	74286.0	1.138034	Y
4	STD06 500-667600/32	200.0	232.966731	1000.0	72740.0	1.164834	Y
5	STD07 500-667600/9	500.0	588.157895	1000.0	73720.0	1.176316	Y
6	STD08 500-667600/10	1000.0	1128.669015	1000.0	74952.0	1.128669	Y
7	STD09 500-667600/11	1500.0	1726.829831	1000.0	77999.0	1.15122	Y
8	STD010 500-667600/12	2000.0	2306.732066	1000.0	81550.0	1.153366	Y



Calibration

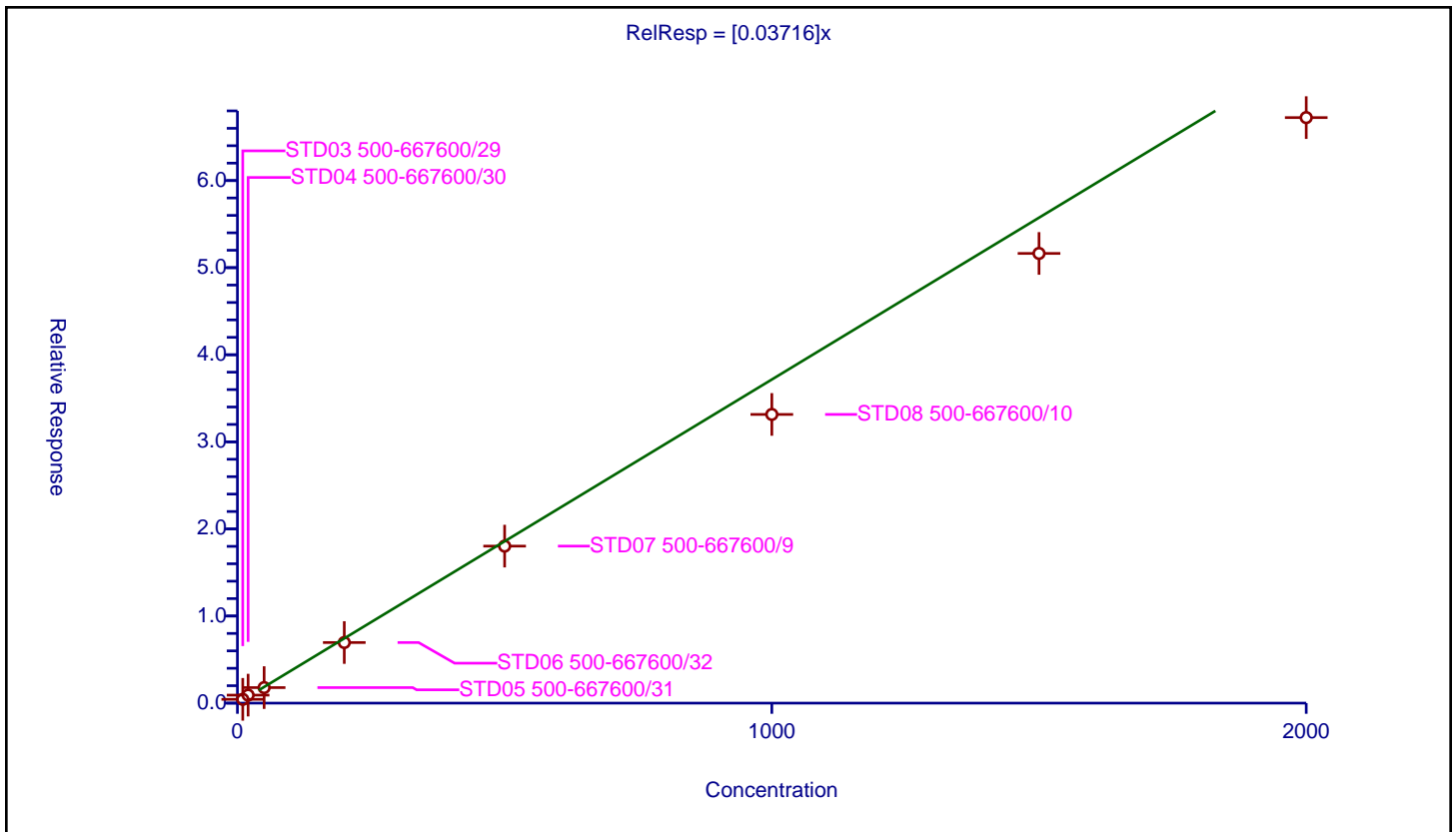
/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03716

Error Coefficients	
Standard Error:	441000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	10.0	0.436565	50.0	565551.0	0.043657	Y
2	STD04 500-667600/30	20.0	0.917864	50.0	518813.0	0.045893	Y
3	STD05 500-667600/31	50.0	1.783841	50.0	558514.0	0.035677	Y
4	STD06 500-667600/32	200.0	6.958321	50.0	561716.0	0.034792	Y
5	STD07 500-667600/9	500.0	18.02858	50.0	590346.0	0.036057	Y
6	STD08 500-667600/10	1000.0	33.148395	50.0	609482.0	0.033148	Y
7	STD09 500-667600/11	1500.0	51.634113	50.0	627160.0	0.034423	Y
8	STD10 500-667600/12	2000.0	67.229243	50.0	633040.0	0.033615	Y



Calibration

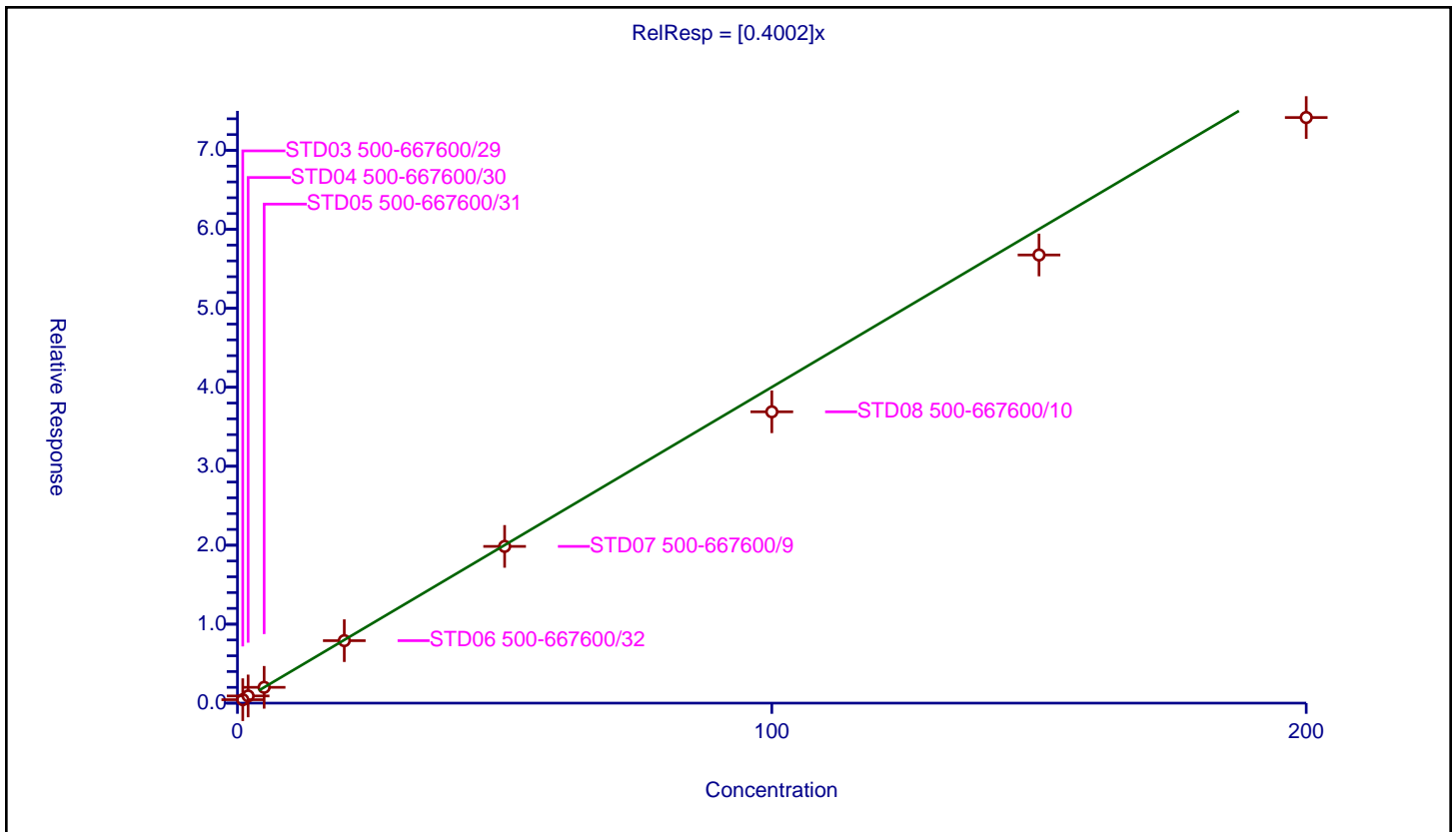
/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4002

Error Coefficients	
Standard Error:	486000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.437096	50.0	565551.0	0.437096	Y
2	STD04 500-667600/30	2.0	0.90736	50.0	518813.0	0.45368	Y
3	STD05 500-667600/31	5.0	2.001114	50.0	558514.0	0.400223	Y
4	STD06 500-667600/32	20.0	7.91067	50.0	561716.0	0.395534	Y
5	STD07 500-667600/9	50.0	19.846497	50.0	590346.0	0.39693	Y
6	STD08 500-667600/10	100.0	36.892886	50.0	609482.0	0.368929	Y
7	STD09 500-667600/11	150.0	56.752184	50.0	627160.0	0.378348	Y
8	STD010 500-667600/12	200.0	74.158584	50.0	633040.0	0.370793	Y



Calibration

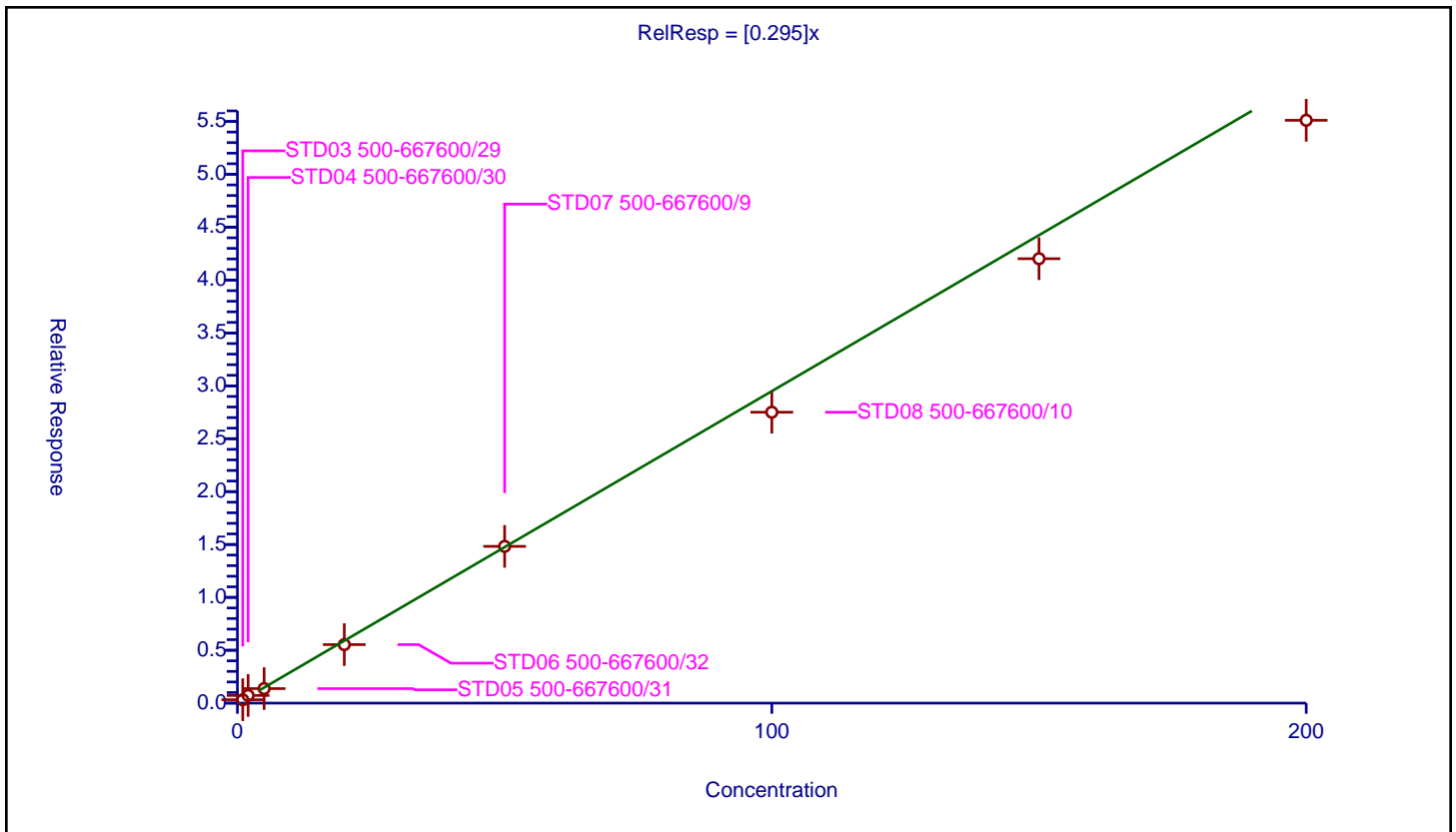
/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.295

Error Coefficients	
Standard Error:	361000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.319953	50.0	565551.0	0.319953	Y
2	STD04 500-667600/30	2.0	0.722997	50.0	518813.0	0.361498	Y
3	STD05 500-667600/31	5.0	1.373018	50.0	558514.0	0.274604	Y
4	STD06 500-667600/32	20.0	5.533134	50.0	561716.0	0.276657	Y
5	STD07 500-667600/9	50.0	14.821816	50.0	590346.0	0.296436	Y
6	STD08 500-667600/10	100.0	27.507375	50.0	609482.0	0.275074	Y
7	STD09 500-667600/11	150.0	42.022291	50.0	627160.0	0.280149	Y
8	STD10 500-667600/12	200.0	55.111367	50.0	633040.0	0.275557	Y



Calibration

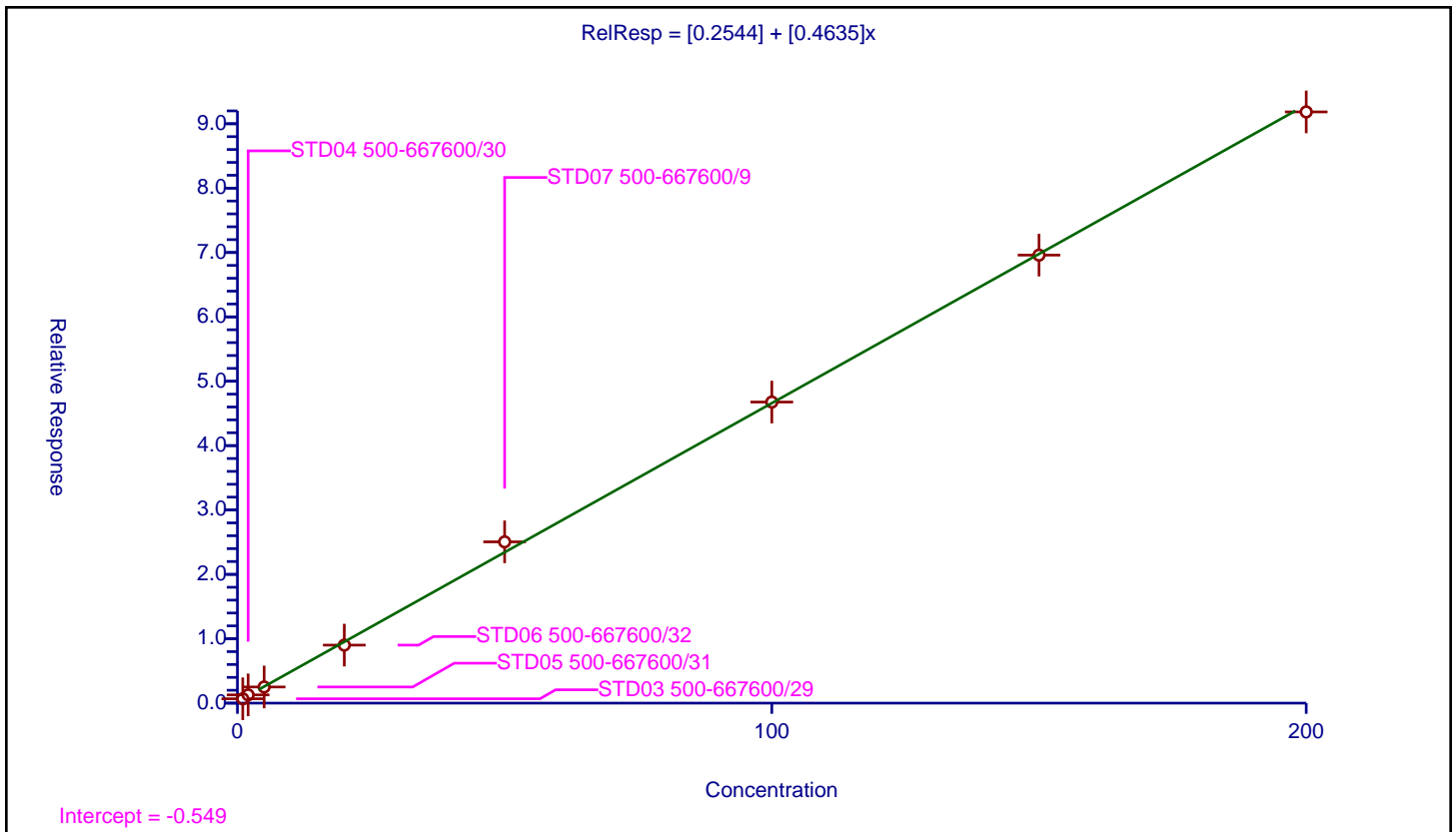
/ Hexane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2544
Slope:	0.4635

Error Coefficients	
Standard Error:	650000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.677658	50.0	565551.0	0.677658	Y
2	STD04 500-667600/30	2.0	1.282254	50.0	518813.0	0.641127	Y
3	STD05 500-667600/31	5.0	2.51068	50.0	558514.0	0.502136	Y
4	STD06 500-667600/32	20.0	9.012472	50.0	561716.0	0.450624	Y
5	STD07 500-667600/9	50.0	25.05302	50.0	590346.0	0.50106	Y
6	STD08 500-667600/10	100.0	46.769716	50.0	609482.0	0.467697	Y
7	STD09 500-667600/11	150.0	69.595	50.0	627160.0	0.463967	Y
8	STD010 500-667600/12	200.0	91.841906	50.0	633040.0	0.45921	Y



Calibration

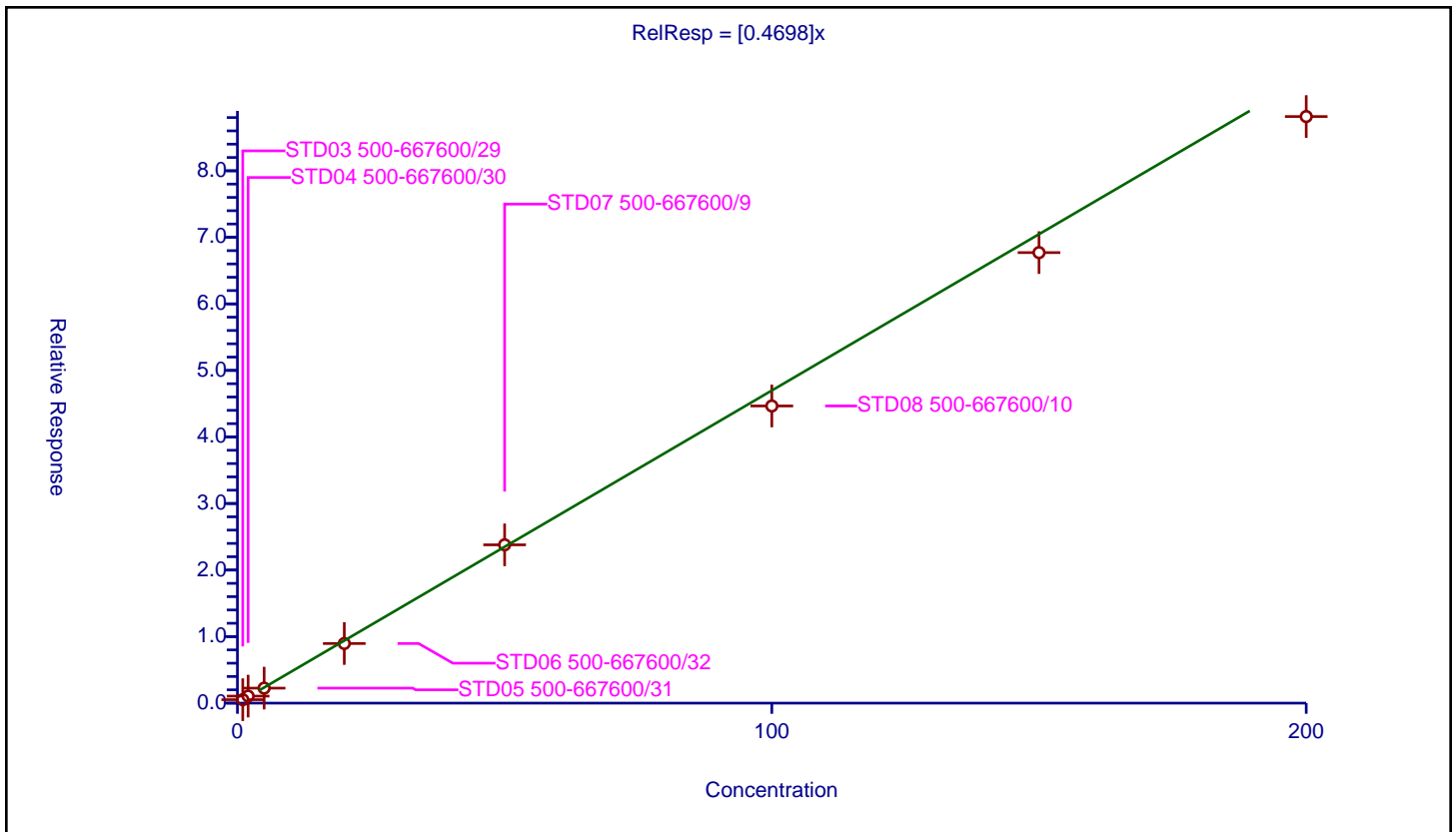
/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4698

Error Coefficients	
Standard Error:	580000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.518256	50.0	565551.0	0.518256	Y
2	STD04 500-667600/30	2.0	1.053944	50.0	518813.0	0.526972	Y
3	STD05 500-667600/31	5.0	2.253927	50.0	558514.0	0.450785	Y
4	STD06 500-667600/32	20.0	8.960934	50.0	561716.0	0.448047	Y
5	STD07 500-667600/9	50.0	23.788168	50.0	590346.0	0.475763	Y
6	STD08 500-667600/10	100.0	44.655051	50.0	609482.0	0.446551	Y
7	STD09 500-667600/11	150.0	67.702979	50.0	627160.0	0.451353	Y
8	STD10 500-667600/12	200.0	88.150512	50.0	633040.0	0.440753	Y



Calibration

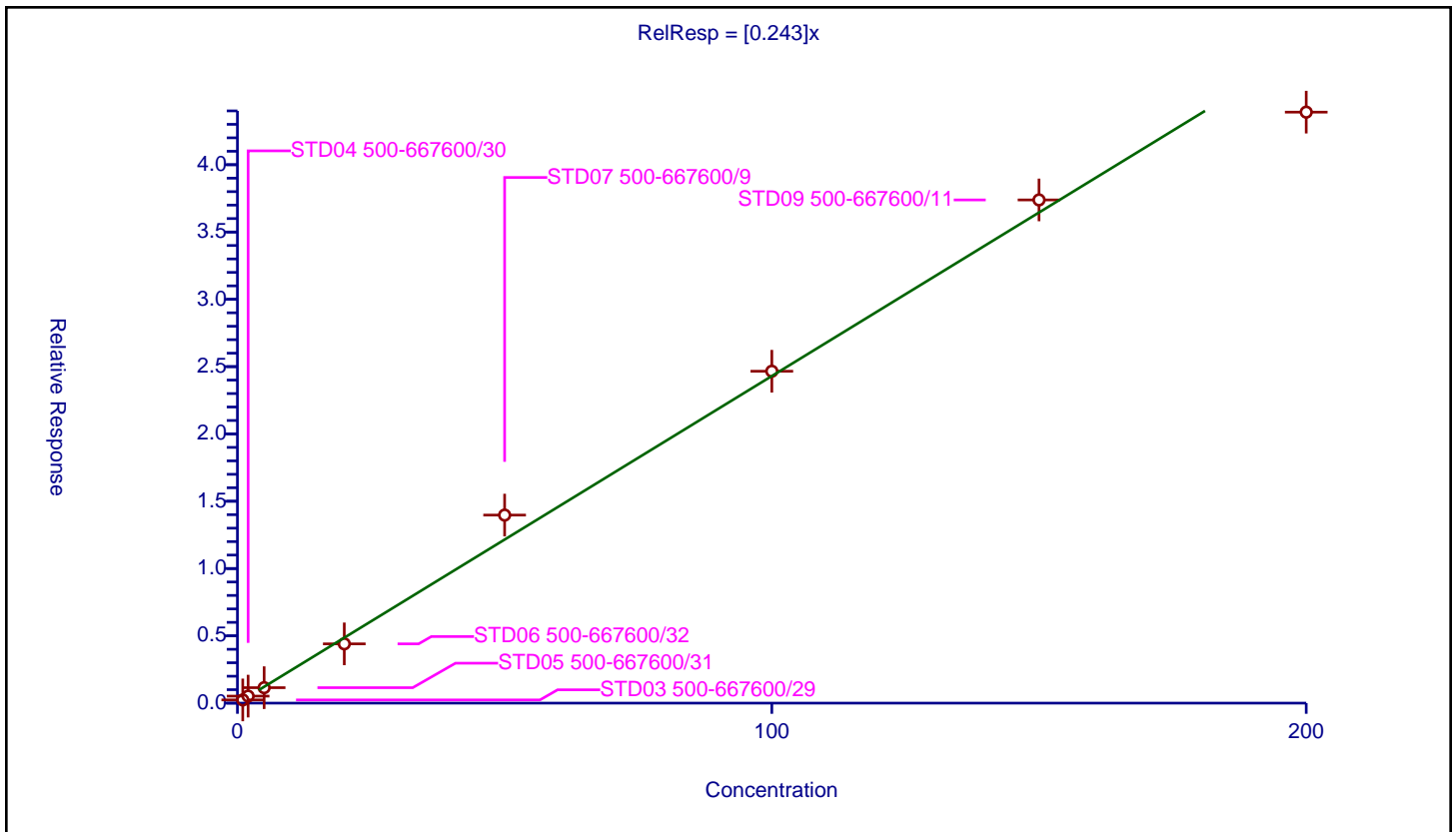
/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.243

Error Coefficients	
Standard Error:	304000
Relative Standard Error:	8.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.239236	50.0	565551.0	0.239236	Y
2	STD04 500-667600/30	2.0	0.520515	50.0	518813.0	0.260258	Y
3	STD05 500-667600/31	5.0	1.147778	50.0	558514.0	0.229556	Y
4	STD06 500-667600/32	20.0	4.404005	50.0	561716.0	0.2202	Y
5	STD07 500-667600/9	50.0	13.971298	50.0	590346.0	0.279426	Y
6	STD08 500-667600/10	100.0	24.657988	50.0	609482.0	0.24658	Y
7	STD09 500-667600/11	150.0	37.385835	50.0	627160.0	0.249239	Y
8	STD010 500-667600/12	200.0	43.907178	50.0	633040.0	0.219536	Y



Calibration

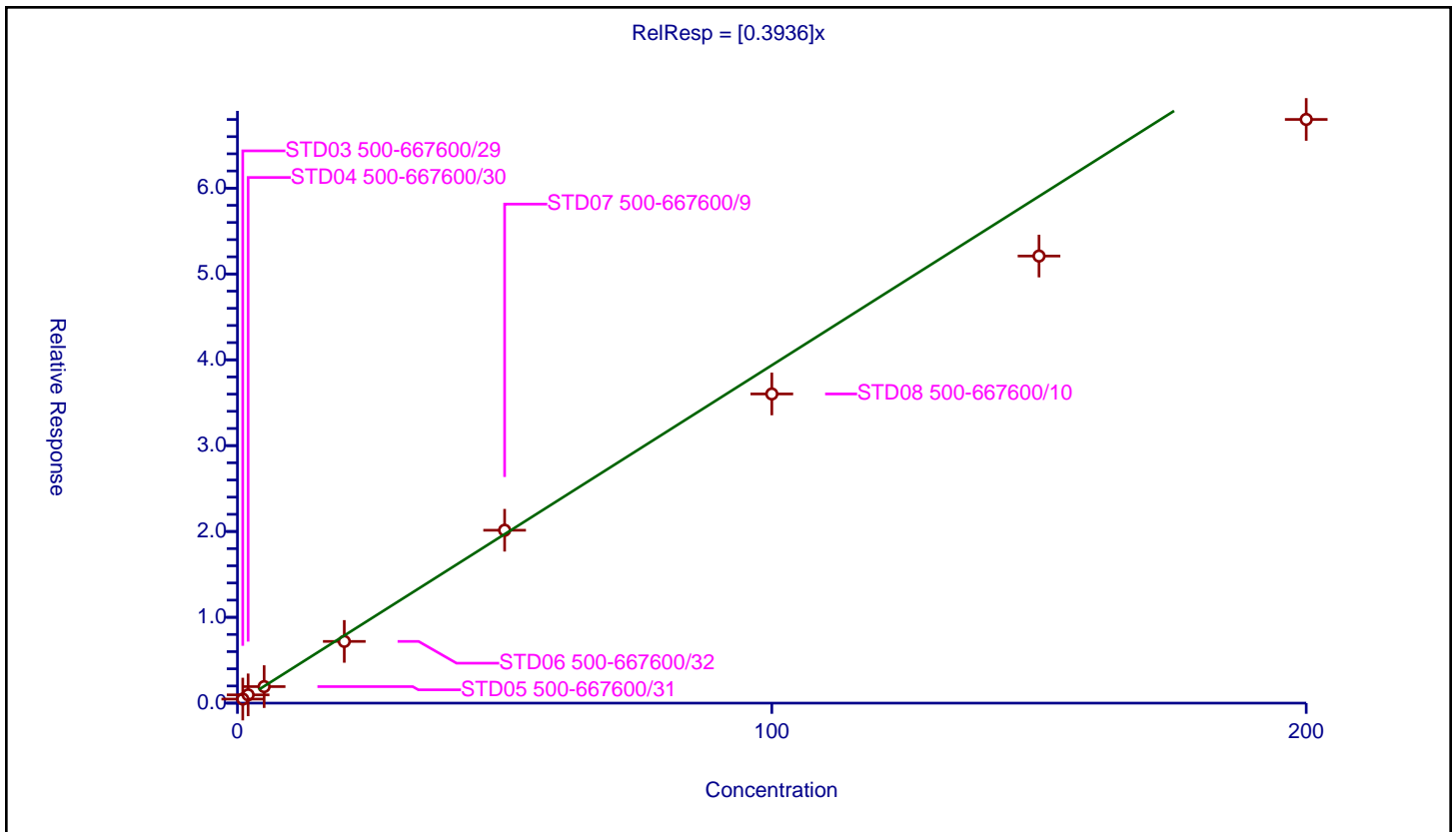
/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3936

Error Coefficients	
Standard Error:	451000
Relative Standard Error:	14.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.471752	50.0	565551.0	0.471752	Y
2	STD04 500-667600/30	2.0	0.964413	50.0	518813.0	0.482206	Y
3	STD05 500-667600/31	5.0	1.926899	50.0	558514.0	0.38538	Y
4	STD06 500-667600/32	20.0	7.190466	50.0	561716.0	0.359523	Y
5	STD07 500-667600/9	50.0	20.143018	50.0	590346.0	0.40286	Y
6	STD08 500-667600/10	100.0	36.01985	50.0	609482.0	0.360198	Y
7	STD09 500-667600/11	150.0	52.089738	50.0	627160.0	0.347265	Y
8	STD010 500-667600/12	200.0	68.002575	50.0	633040.0	0.340013	Y



Calibration

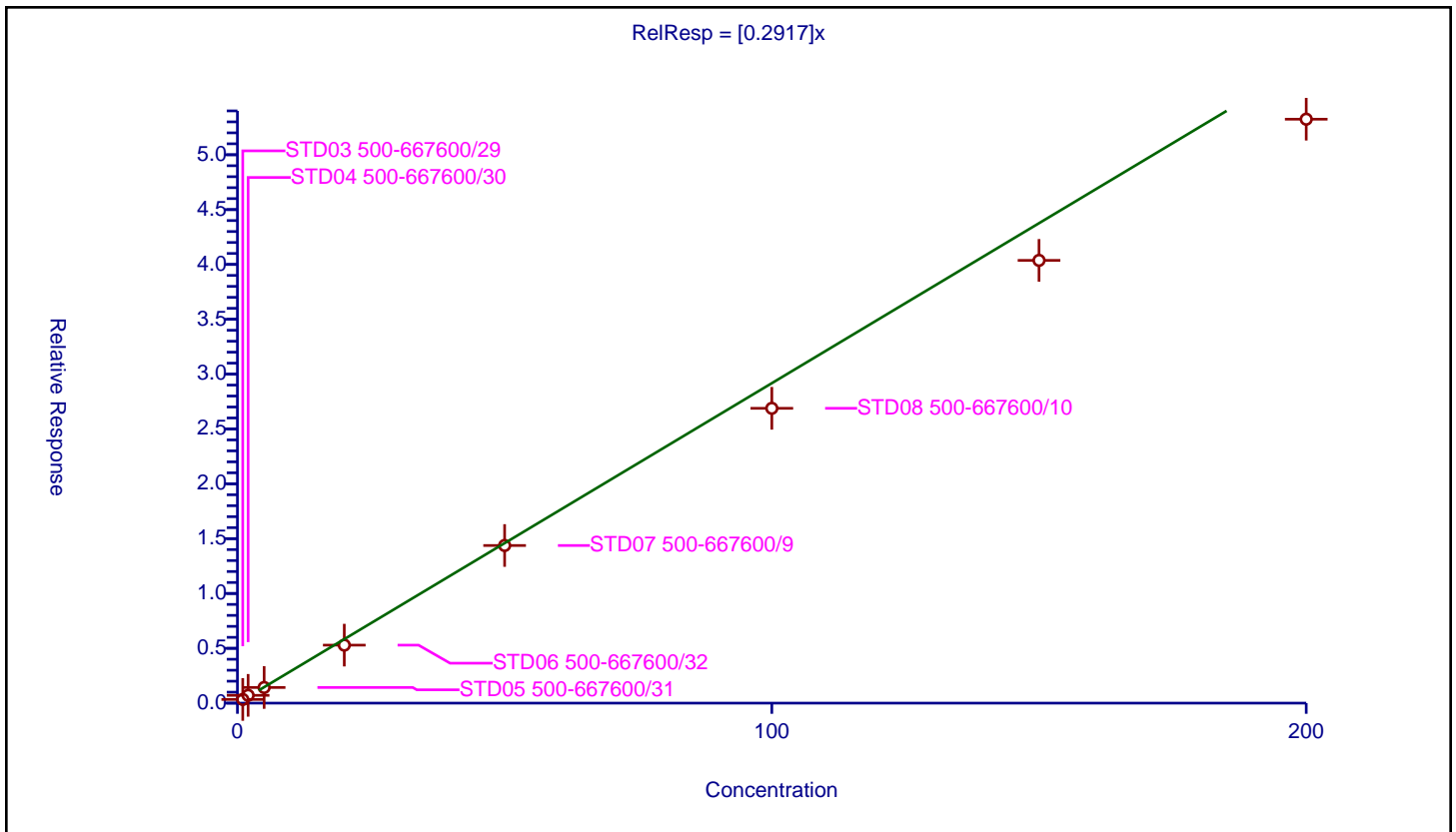
/ cis-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2917

Error Coefficients	
Standard Error:	349000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.33684	50.0	565551.0	0.33684	Y
2	STD04 500-667600/30	2.0	0.711046	50.0	518813.0	0.355523	Y
3	STD05 500-667600/31	5.0	1.427359	50.0	558514.0	0.285472	Y
4	STD06 500-667600/32	20.0	5.28728	50.0	561716.0	0.264364	Y
5	STD07 500-667600/9	50.0	14.371995	50.0	590346.0	0.28744	Y
6	STD08 500-667600/10	100.0	26.881188	50.0	609482.0	0.268812	Y
7	STD09 500-667600/11	150.0	40.368805	50.0	627160.0	0.269125	Y
8	STD010 500-667600/12	200.0	53.241817	50.0	633040.0	0.266209	Y



Calibration

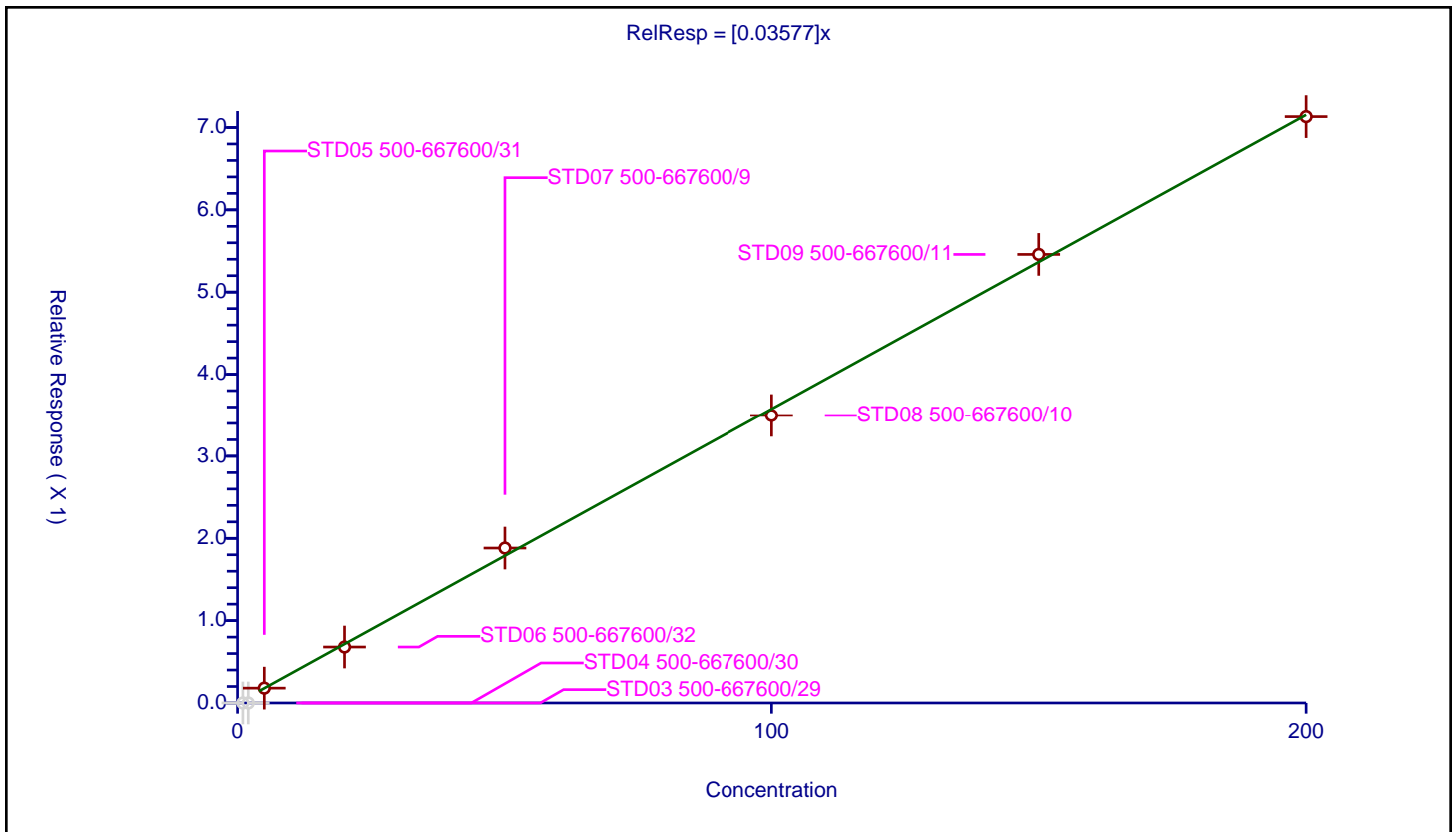
/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03577

Error Coefficients	
Standard Error:	55200
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	2.0	0.0	50.0	518813.0	0.0	N
3	STD05 500-667600/31	5.0	0.180031	50.0	558514.0	0.036006	Y
4	STD06 500-667600/32	20.0	0.679347	50.0	561716.0	0.033967	Y
5	STD07 500-667600/9	50.0	1.881608	50.0	590346.0	0.037632	Y
6	STD08 500-667600/10	100.0	3.49756	50.0	609482.0	0.034976	Y
7	STD09 500-667600/11	150.0	5.458575	50.0	627160.0	0.036391	Y
8	STD010 500-667600/12	200.0	7.132251	50.0	633040.0	0.035661	Y



Calibration

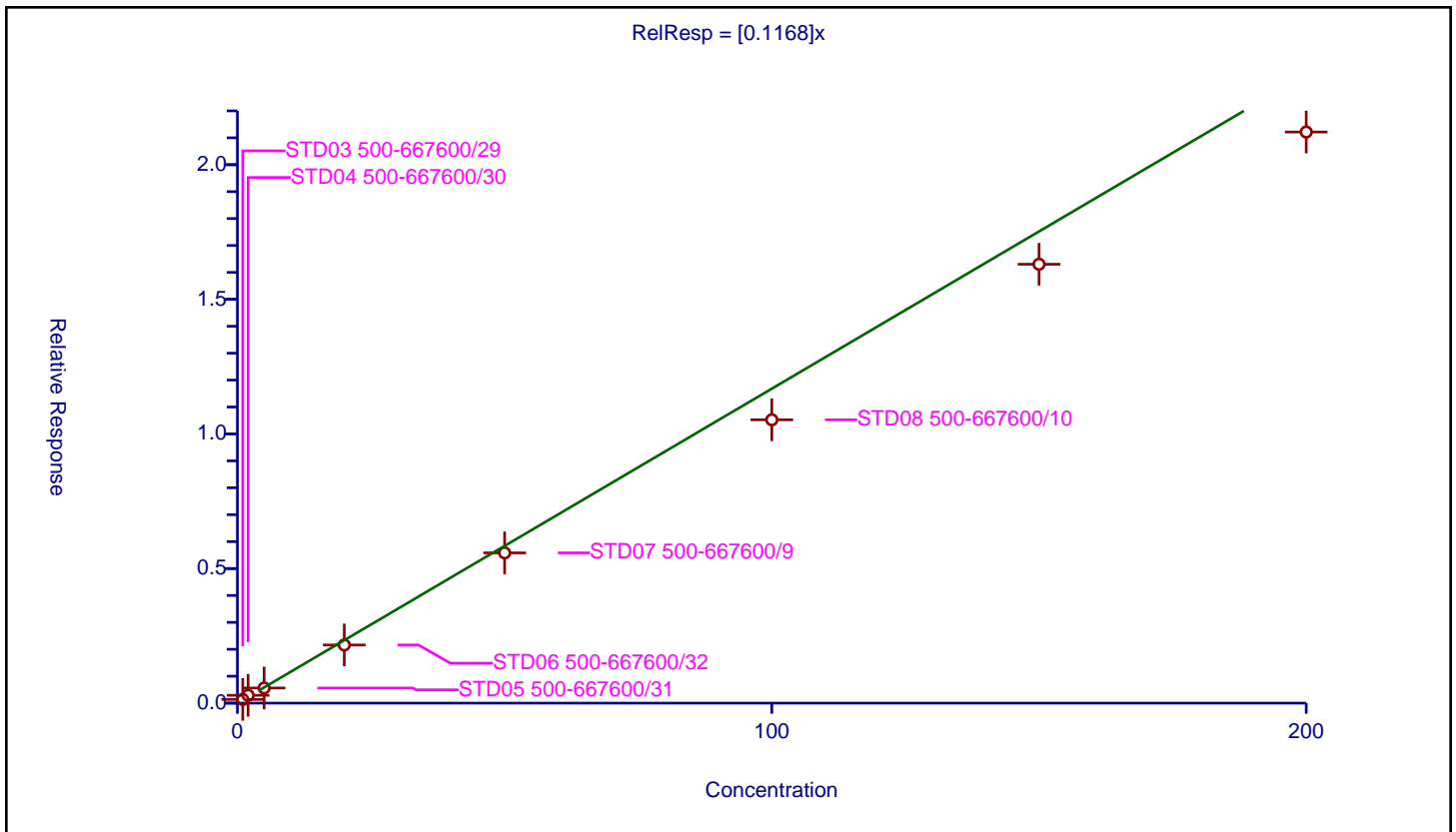
/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1168

Error Coefficients	
Standard Error:	139000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.137123	50.0	565551.0	0.137123	Y
2	STD04 500-667600/30	2.0	0.290278	50.0	518813.0	0.145139	Y
3	STD05 500-667600/31	5.0	0.562564	50.0	558514.0	0.112513	Y
4	STD06 500-667600/32	20.0	2.160166	50.0	561716.0	0.108008	Y
5	STD07 500-667600/9	50.0	5.581303	50.0	590346.0	0.111626	Y
6	STD08 500-667600/10	100.0	10.525085	50.0	609482.0	0.105251	Y
7	STD09 500-667600/11	150.0	16.302857	50.0	627160.0	0.108686	Y
8	STD010 500-667600/12	200.0	21.214141	50.0	633040.0	0.106071	Y



Calibration

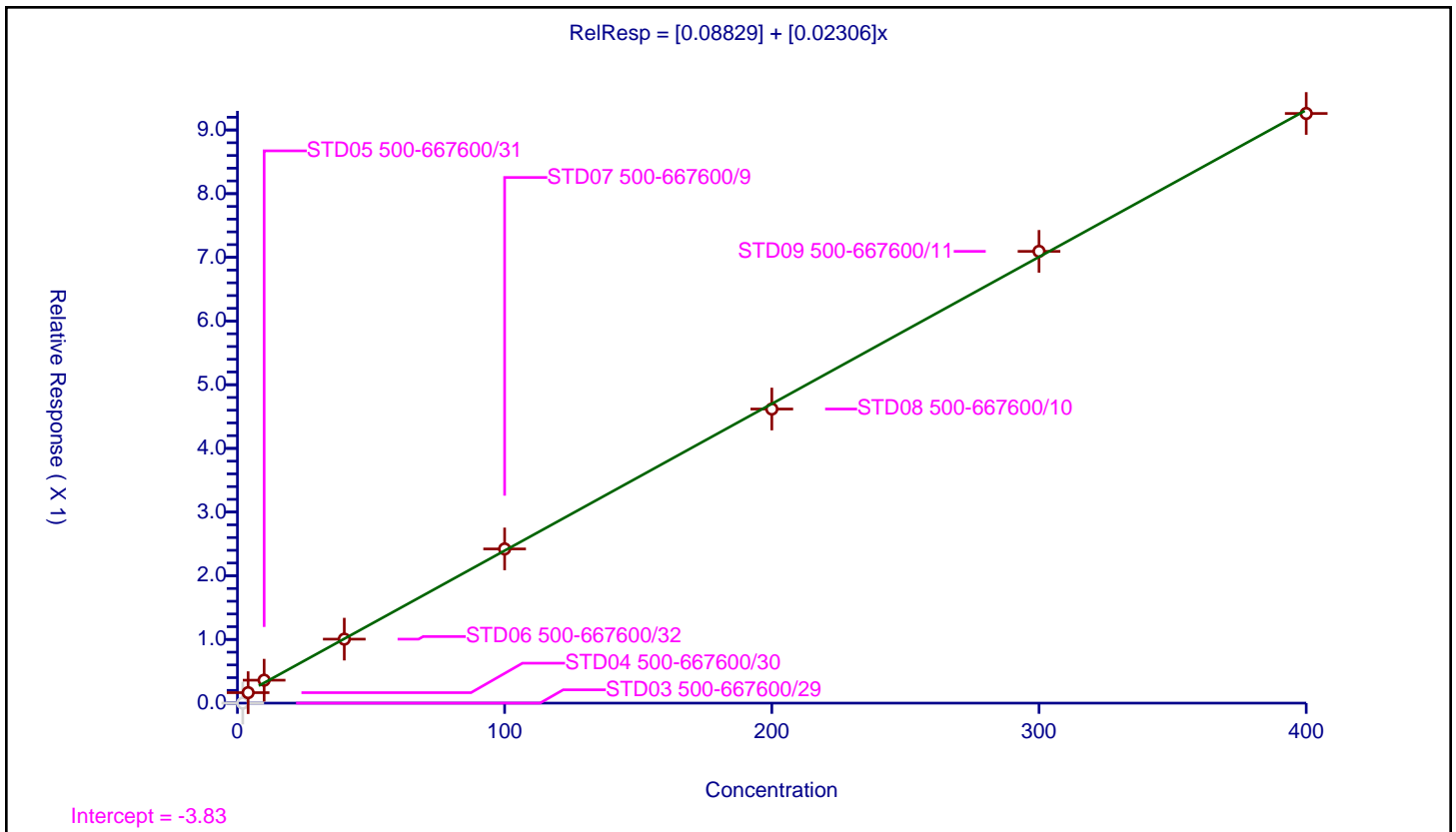
/ Tetrahydrofuran

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.08829
Slope:	0.02306

Error Coefficients	
Standard Error:	71800
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	2.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	4.0	0.164414	50.0	518813.0	0.041103	Y
3	STD05 500-667600/31	10.0	0.360421	50.0	558514.0	0.036042	Y
4	STD06 500-667600/32	40.0	1.004867	50.0	561716.0	0.025122	Y
5	STD07 500-667600/9	100.0	2.421546	50.0	590346.0	0.024215	Y
6	STD08 500-667600/10	200.0	4.618266	50.0	609482.0	0.023091	Y
7	STD09 500-667600/11	300.0	7.094442	50.0	627160.0	0.023648	Y
8	STD010 500-667600/12	400.0	9.259446	50.0	633040.0	0.023149	Y



Calibration

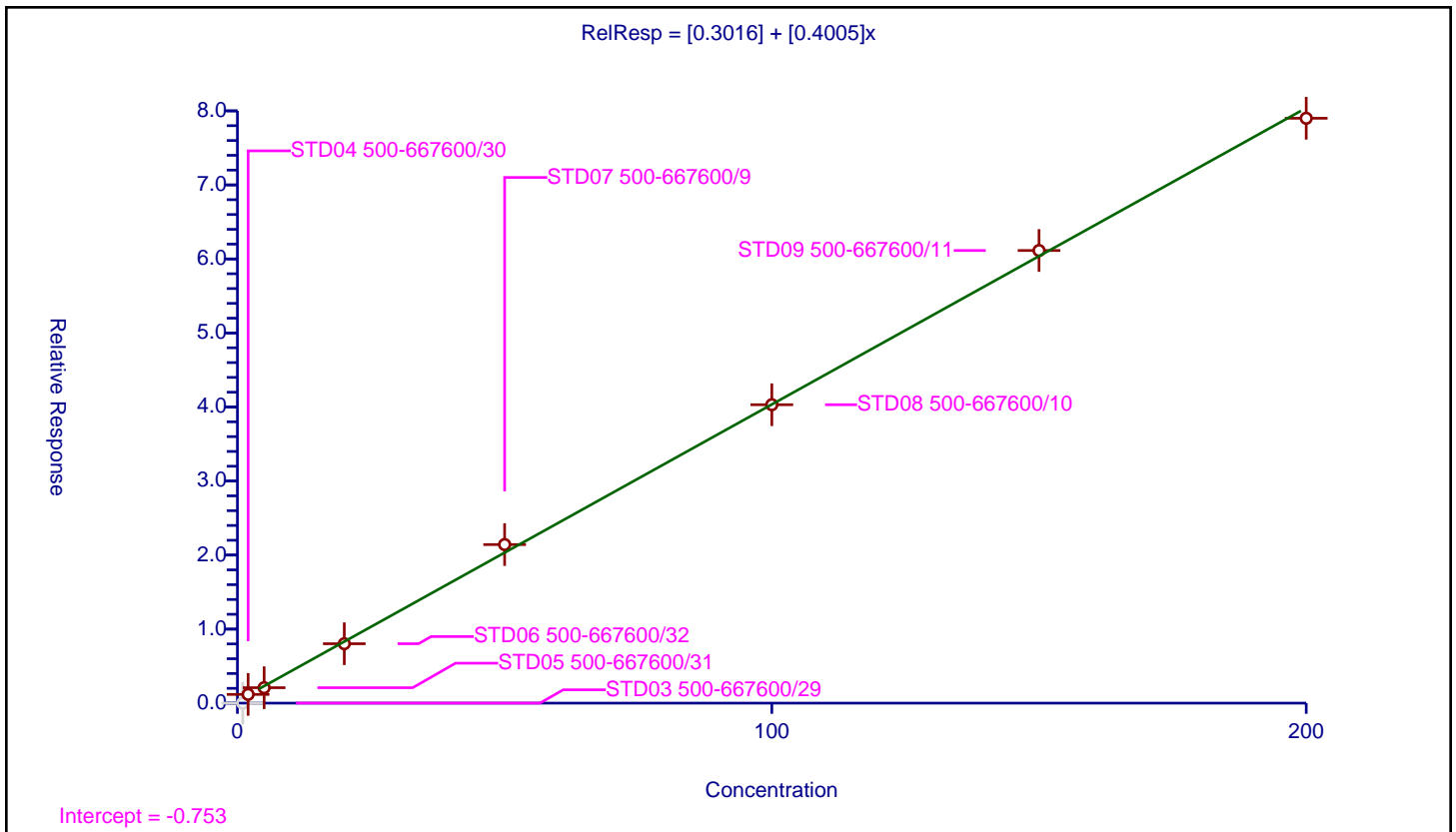
/ Chloroform

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.3016
Slope:	0.4005

Error Coefficients	
Standard Error:	617000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	565551.0	0.0	N
2	STD04 500-667600/30	2.0	1.179712	50.0	518813.0	0.589856	Y
3	STD05 500-667600/31	5.0	2.084191	50.0	558514.0	0.416838	Y
4	STD06 500-667600/32	20.0	8.024785	50.0	561716.0	0.401239	Y
5	STD07 500-667600/9	50.0	21.419473	50.0	590346.0	0.428389	Y
6	STD08 500-667600/10	100.0	40.309886	50.0	609482.0	0.403099	Y
7	STD09 500-667600/11	150.0	61.139103	50.0	627160.0	0.407594	Y
8	STD010 500-667600/12	200.0	79.002038	50.0	633040.0	0.39501	Y



Calibration

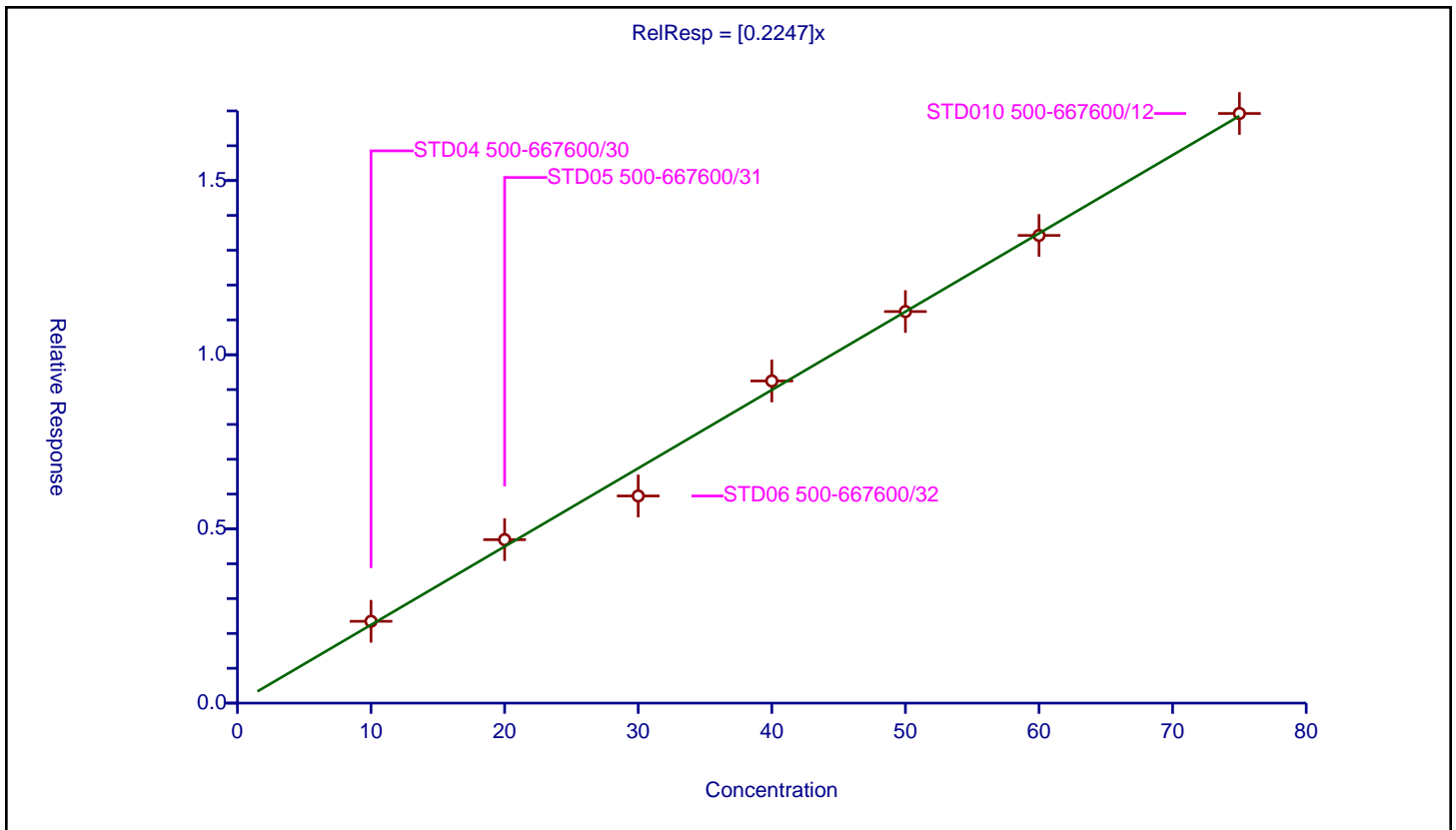
/ Dibromofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2247

Error Coefficients	
Standard Error:	137000
Relative Standard Error:	5.6
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-667600/30	10.0	2.34863	50.0	518813.0	0.234863	Y
2	STD05 500-667600/31	20.0	4.691825	50.0	558514.0	0.234591	Y
3	STD06 500-667600/32	30.0	5.946866	50.0	561716.0	0.198229	Y
4	STD07 500-667600/9	40.0	9.247882	50.0	590346.0	0.231197	Y
5	STD08 500-667600/10	50.0	11.239873	50.0	609482.0	0.224797	Y
6	STD09 500-667600/11	60.0	13.425362	50.0	627160.0	0.223756	Y
7	STD010 500-667600/12	75.0	16.926024	50.0	633040.0	0.22568	Y



Calibration

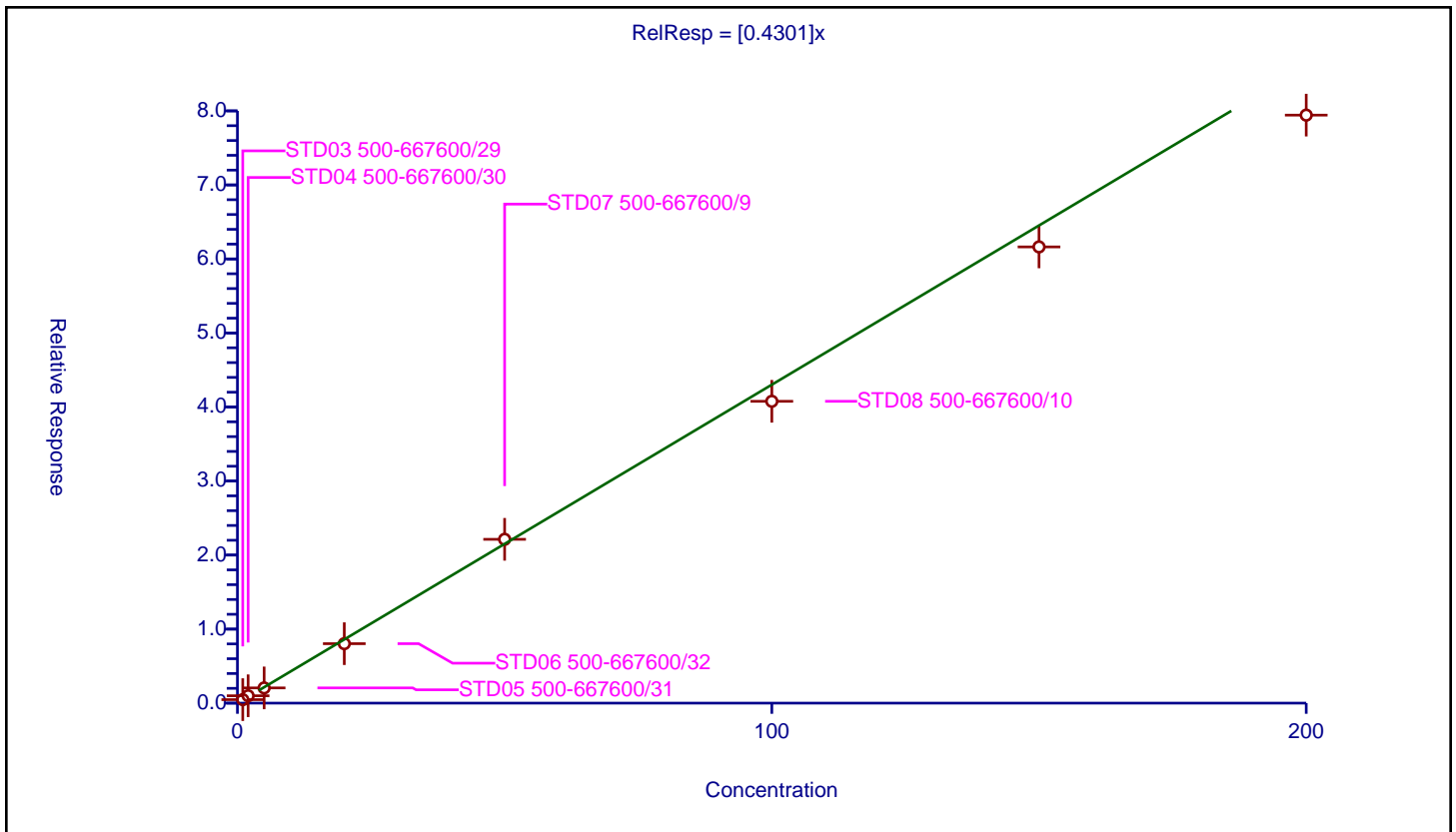
/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4301

Error Coefficients	
Standard Error:	525000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.472636	50.0	565551.0	0.472636	Y
2	STD04 500-667600/30	2.0	0.994964	50.0	518813.0	0.497482	Y
3	STD05 500-667600/31	5.0	2.055902	50.0	558514.0	0.41118	Y
4	STD06 500-667600/32	20.0	8.031372	50.0	561716.0	0.401569	Y
5	STD07 500-667600/9	50.0	22.128379	50.0	590346.0	0.442568	Y
6	STD08 500-667600/10	100.0	40.771672	50.0	609482.0	0.407717	Y
7	STD09 500-667600/11	150.0	61.625741	50.0	627160.0	0.410838	Y
8	STD10 500-667600/12	200.0	79.428709	50.0	633040.0	0.397144	Y



Calibration

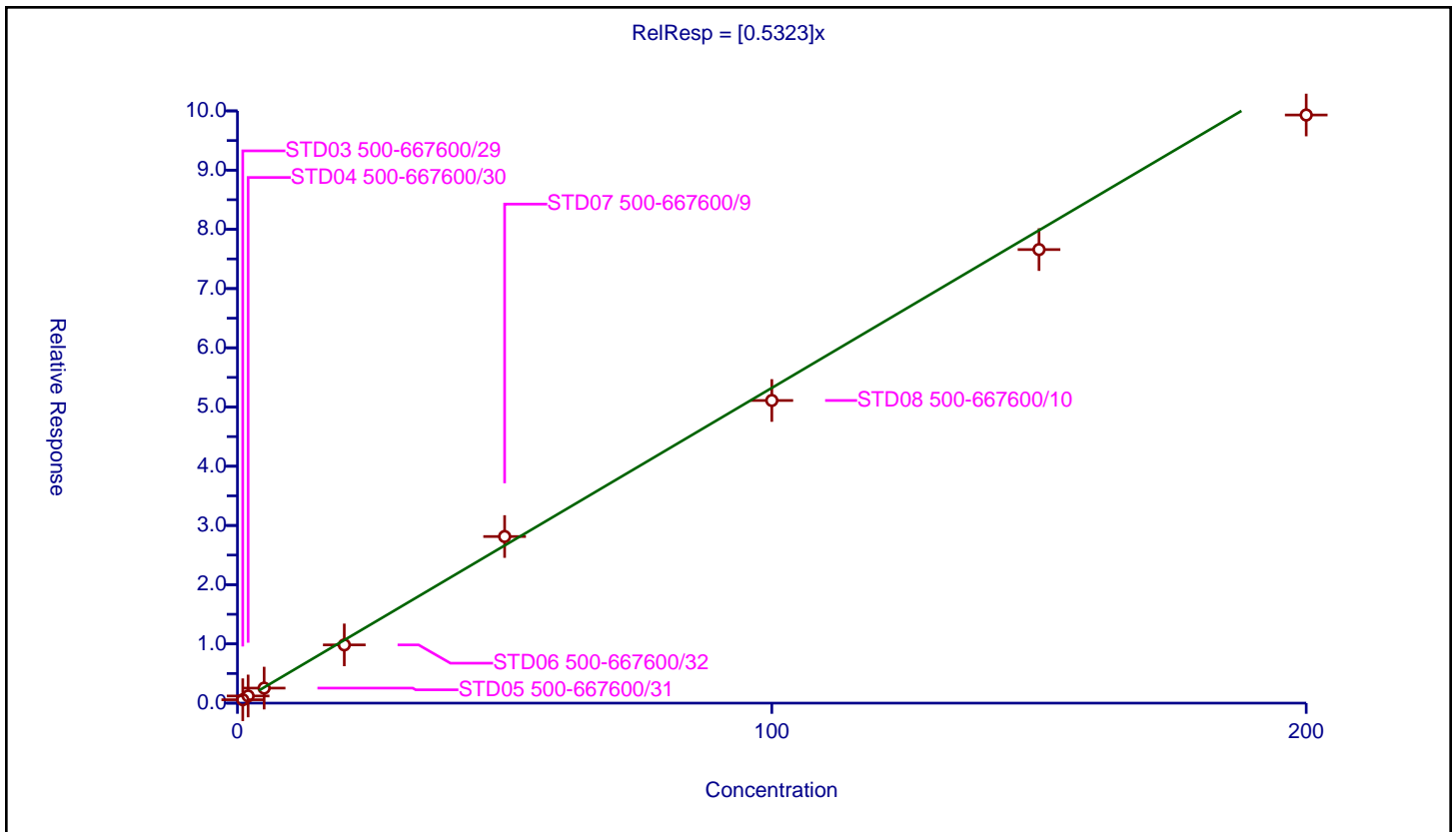
/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5323

Error Coefficients	
Standard Error:	656000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.574307	50.0	565551.0	0.574307	Y
2	STD04 500-667600/30	2.0	1.208142	50.0	518813.0	0.604071	Y
3	STD05 500-667600/31	5.0	2.537	50.0	558514.0	0.5074	Y
4	STD06 500-667600/32	20.0	9.830769	50.0	561716.0	0.491538	Y
5	STD07 500-667600/9	50.0	28.13096	50.0	590346.0	0.562619	Y
6	STD08 500-667600/10	100.0	51.101099	50.0	609482.0	0.511011	Y
7	STD09 500-667600/11	150.0	76.581734	50.0	627160.0	0.510545	Y
8	STD010 500-667600/12	200.0	99.305257	50.0	633040.0	0.496526	Y



Calibration

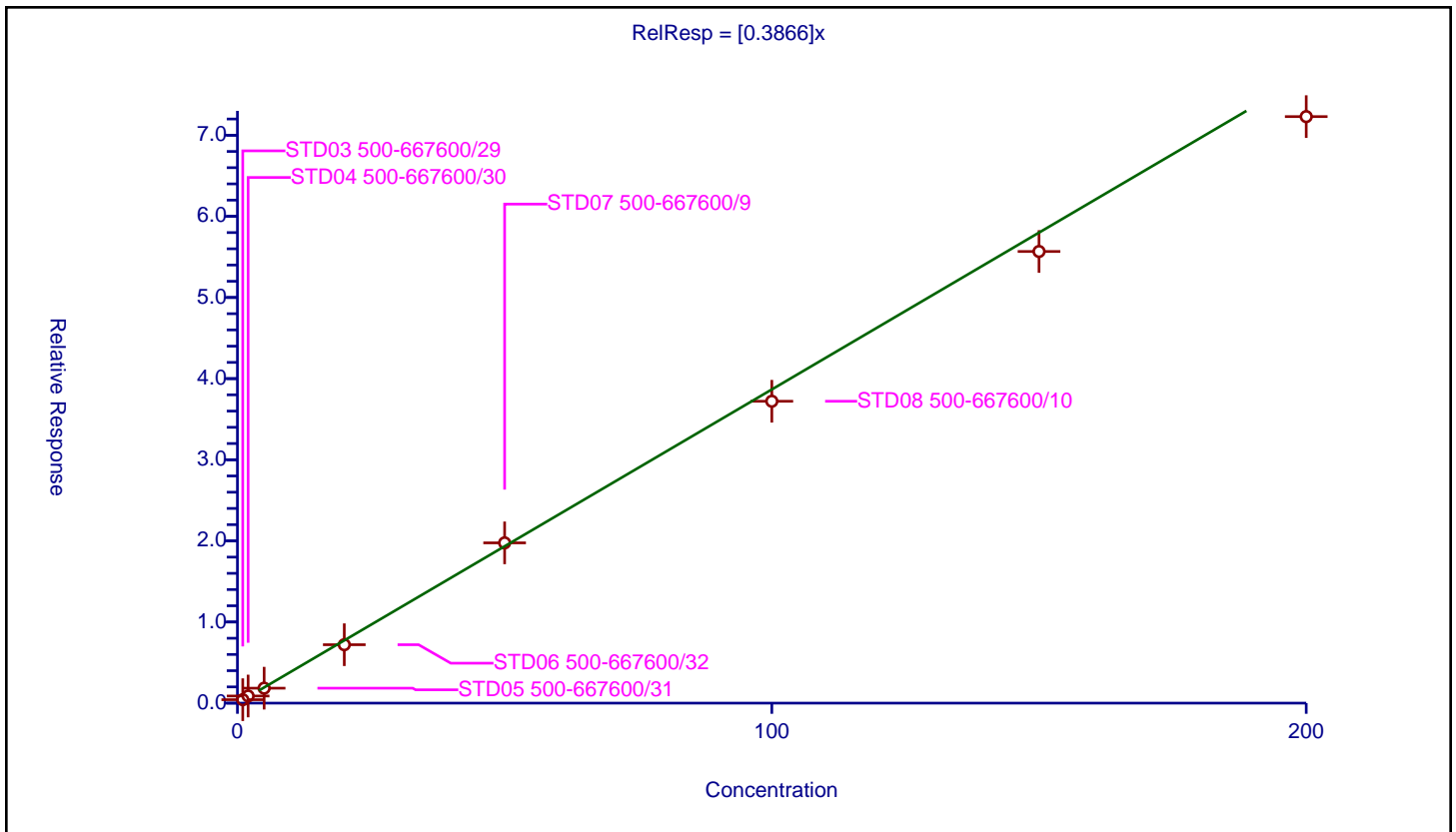
/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3866

Error Coefficients	
Standard Error:	477000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.425072	50.0	565551.0	0.425072	Y
2	STD04 500-667600/30	2.0	0.878351	50.0	518813.0	0.439176	Y
3	STD05 500-667600/31	5.0	1.844896	50.0	558514.0	0.368979	Y
4	STD06 500-667600/32	20.0	7.20008	50.0	561716.0	0.360004	Y
5	STD07 500-667600/9	50.0	19.753246	50.0	590346.0	0.395065	Y
6	STD08 500-667600/10	100.0	37.210697	50.0	609482.0	0.372107	Y
7	STD09 500-667600/11	150.0	55.6712	50.0	627160.0	0.371141	Y
8	STD010 500-667600/12	200.0	72.295432	50.0	633040.0	0.361477	Y



Calibration

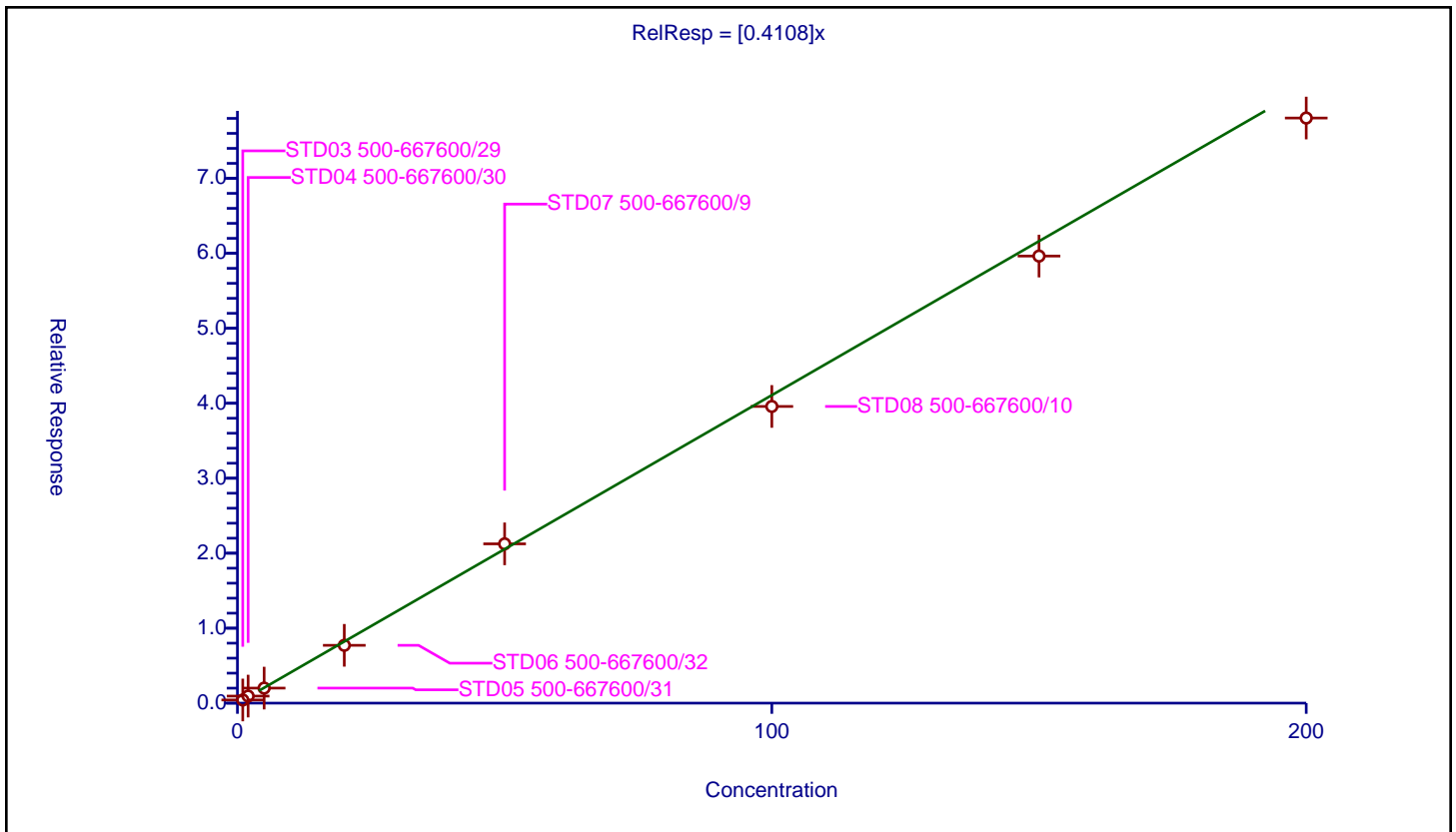
/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4108

Error Coefficients	
Standard Error:	513000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.420829	50.0	565551.0	0.420829	Y
2	STD04 500-667600/30	2.0	0.940127	50.0	518813.0	0.470063	Y
3	STD05 500-667600/31	5.0	2.006127	50.0	558514.0	0.401225	Y
4	STD06 500-667600/32	20.0	7.711904	50.0	561716.0	0.385595	Y
5	STD07 500-667600/9	50.0	21.248387	50.0	590346.0	0.424968	Y
6	STD08 500-667600/10	100.0	39.57623	50.0	609482.0	0.395762	Y
7	STD09 500-667600/11	150.0	59.632709	50.0	627160.0	0.397551	Y
8	STD010 500-667600/12	200.0	78.04807	50.0	633040.0	0.39024	Y



Calibration

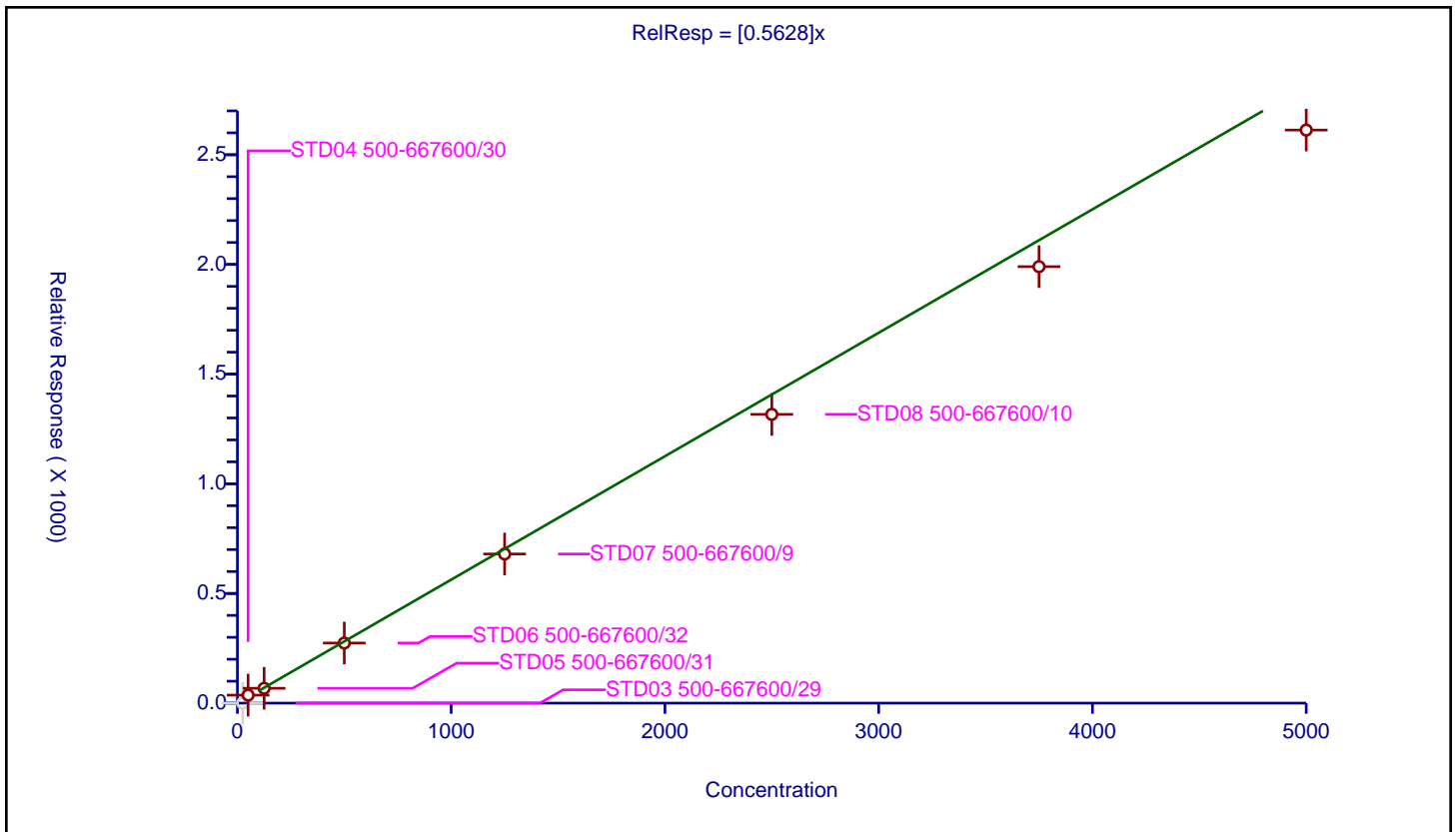
/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5628

Error Coefficients	
Standard Error:	115000
Relative Standard Error:	12.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	25.0	0.0	1000.0	74673.0	0.0	N
2	STD04 500-667600/30	50.0	36.320329	1000.0	70952.0	0.726407	Y
3	STD05 500-667600/31	125.0	67.684355	1000.0	74286.0	0.541475	Y
4	STD06 500-667600/32	500.0	273.948309	1000.0	72740.0	0.547897	Y
5	STD07 500-667600/9	1250.0	679.896907	1000.0	73720.0	0.543918	Y
6	STD08 500-667600/10	2500.0	1316.362472	1000.0	74952.0	0.526545	Y
7	STD09 500-667600/11	3750.0	1989.948589	1000.0	77999.0	0.530653	Y
8	STD010 500-667600/12	5000.0	2612.581239	1000.0	81550.0	0.522516	Y



Calibration

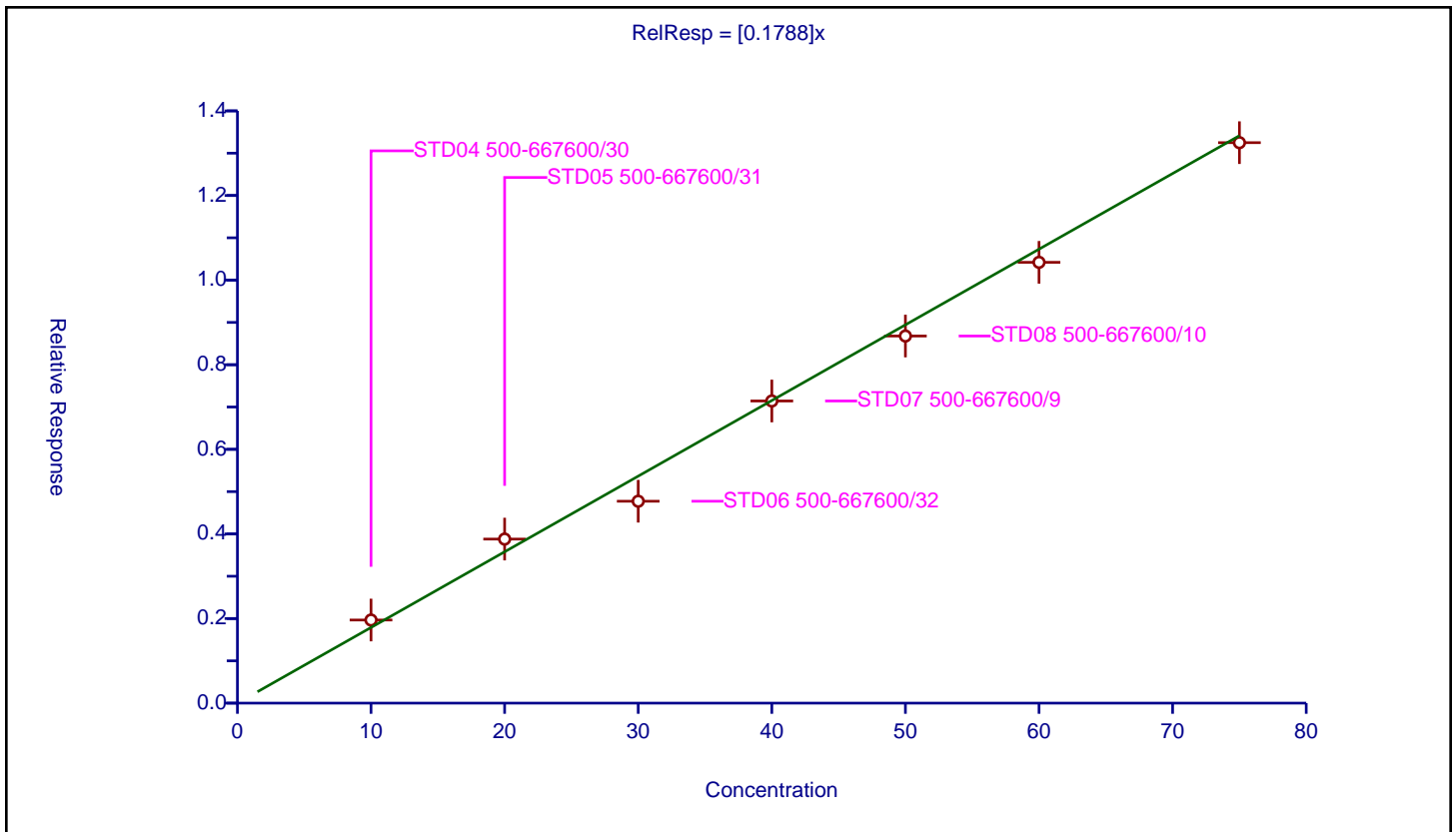
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1788

Error Coefficients	
Standard Error:	107000
Relative Standard Error:	7.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-667600/30	10.0	1.964773	50.0	518813.0	0.196477	Y
2	STD05 500-667600/31	20.0	3.878238	50.0	558514.0	0.193912	Y
3	STD06 500-667600/32	30.0	4.772875	50.0	561716.0	0.159096	Y
4	STD07 500-667600/9	40.0	7.142676	50.0	590346.0	0.178567	Y
5	STD08 500-667600/10	50.0	8.678107	50.0	609482.0	0.173562	Y
6	STD09 500-667600/11	60.0	10.420148	50.0	627160.0	0.173669	Y
7	STD10 500-667600/12	75.0	13.248768	50.0	633040.0	0.17665	Y



Calibration

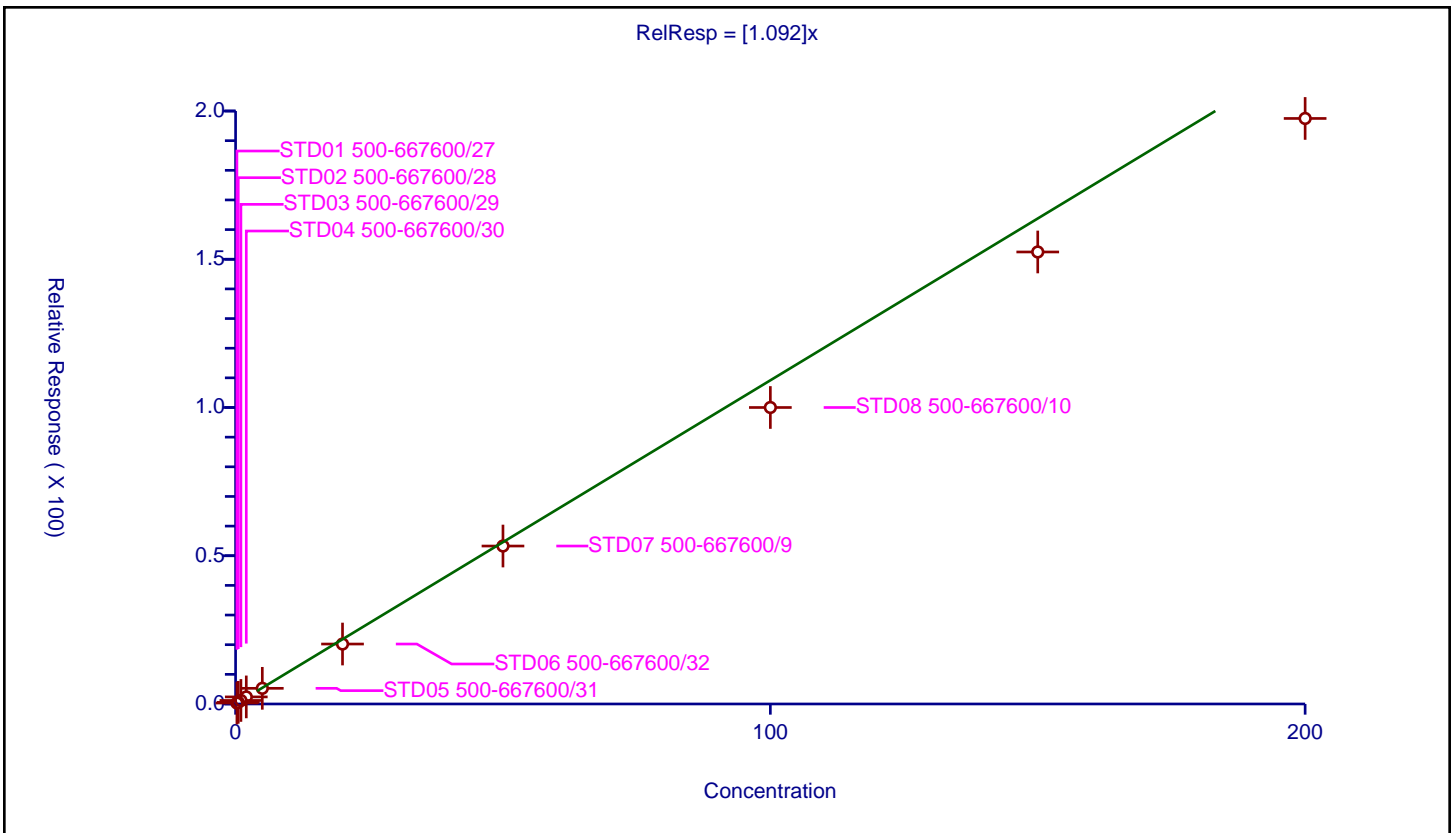
/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.092

Error Coefficients	
Standard Error:	1150000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.317605	50.0	522032.0	1.27042	Y
2	STD02 500-667600/28	0.5	0.561123	50.0	565295.0	1.122246	Y
3	STD03 500-667600/29	1.0	1.192642	50.0	565551.0	1.192642	Y
4	STD04 500-667600/30	2.0	2.386698	50.0	518813.0	1.193349	Y
5	STD05 500-667600/31	5.0	5.285006	50.0	558514.0	1.057001	Y
6	STD06 500-667600/32	20.0	20.223743	50.0	561716.0	1.011187	Y
7	STD07 500-667600/9	50.0	53.279348	50.0	590346.0	1.065587	Y
8	STD08 500-667600/10	100.0	100.001887	50.0	609482.0	1.000019	Y
9	STD09 500-667600/11	150.0	152.460855	50.0	627160.0	1.016406	Y
10	STD010 500-667600/12	200.0	197.489969	50.0	633040.0	0.98745	Y



Calibration

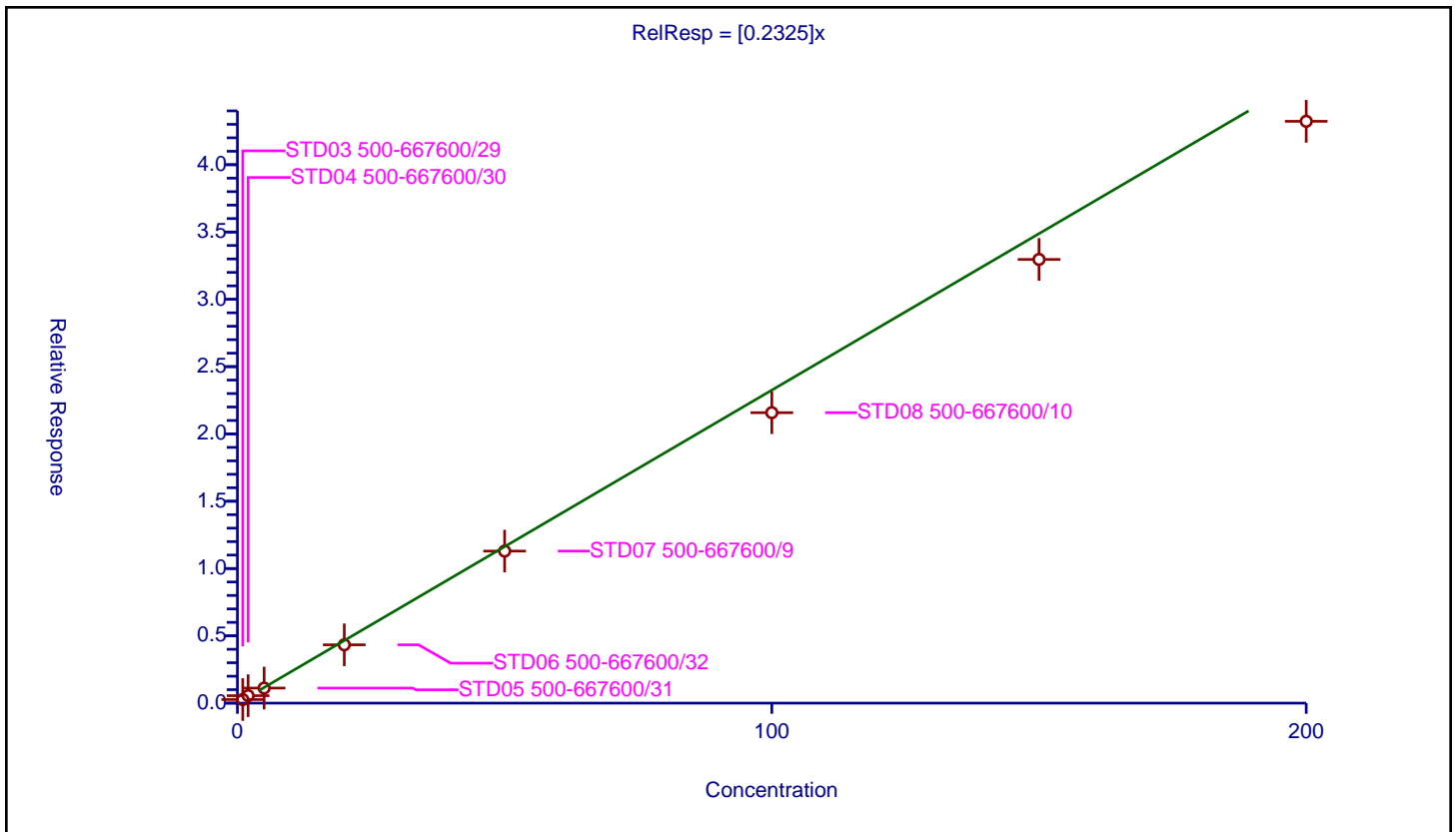
/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2325

Error Coefficients	
Standard Error:	283000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.265228	50.0	565551.0	0.265228	Y
2	STD04 500-667600/30	2.0	0.553764	50.0	518813.0	0.276882	Y
3	STD05 500-667600/31	5.0	1.119578	50.0	558514.0	0.223916	Y
4	STD06 500-667600/32	20.0	4.333329	50.0	561716.0	0.216666	Y
5	STD07 500-667600/9	50.0	11.295664	50.0	590346.0	0.225913	Y
6	STD08 500-667600/10	100.0	21.578734	50.0	609482.0	0.215787	Y
7	STD09 500-667600/11	150.0	32.96304	50.0	627160.0	0.219754	Y
8	STD010 500-667600/12	200.0	43.226099	50.0	633040.0	0.21613	Y



Calibration

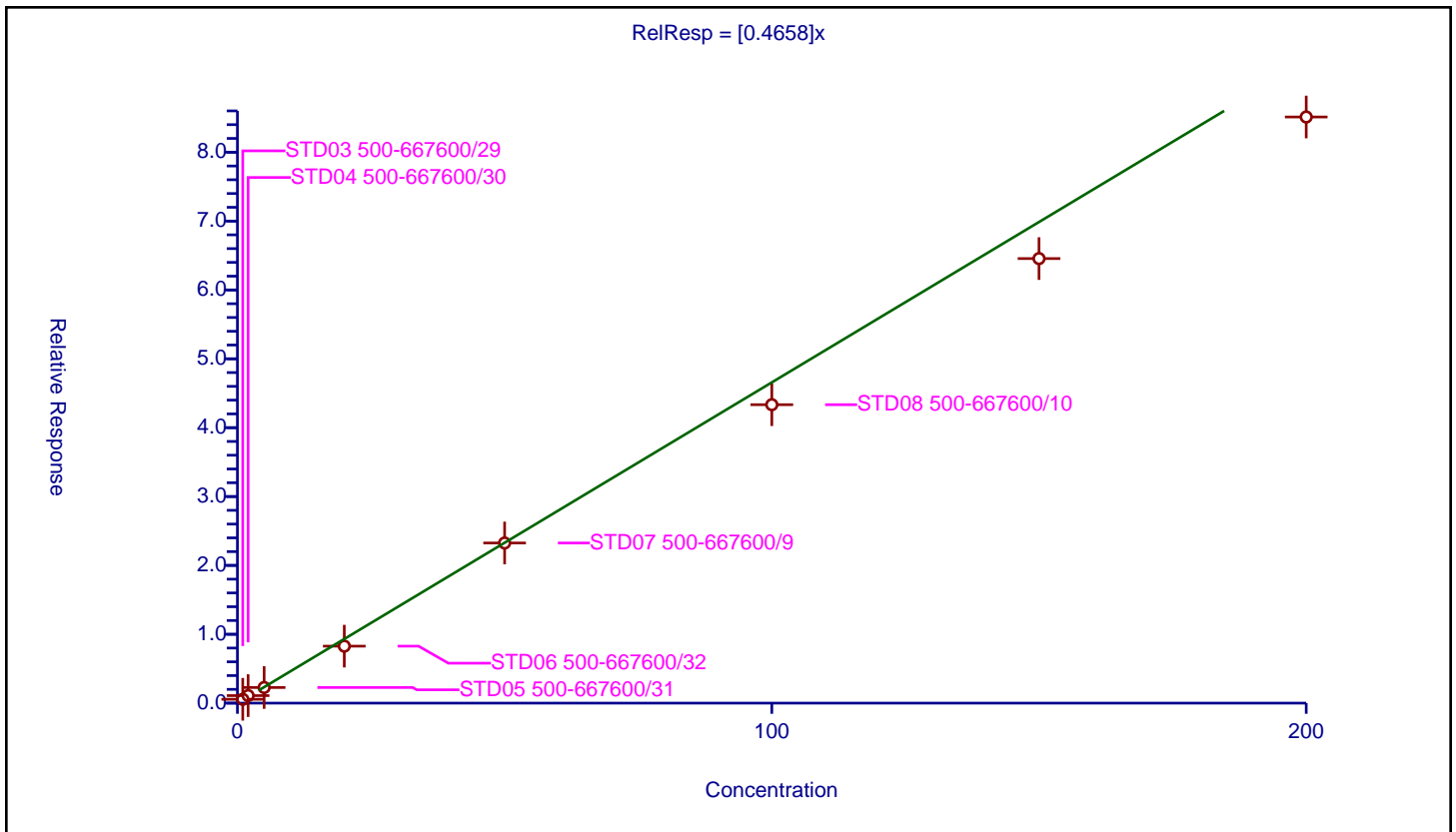
/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4658

Error Coefficients	
Standard Error:	558000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.558393	50.0	565551.0	0.558393	Y
2	STD04 500-667600/30	2.0	1.090952	50.0	518813.0	0.545476	Y
3	STD05 500-667600/31	5.0	2.269683	50.0	558514.0	0.453937	Y
4	STD06 500-667600/32	20.0	8.27589	50.0	561716.0	0.413795	Y
5	STD07 500-667600/9	50.0	23.25526	50.0	590346.0	0.465105	Y
6	STD08 500-667600/10	100.0	43.337211	50.0	609482.0	0.433372	Y
7	STD09 500-667600/11	150.0	64.552905	50.0	627160.0	0.430353	Y
8	STD010 500-667600/12	200.0	85.116027	50.0	633040.0	0.42558	Y



Calibration

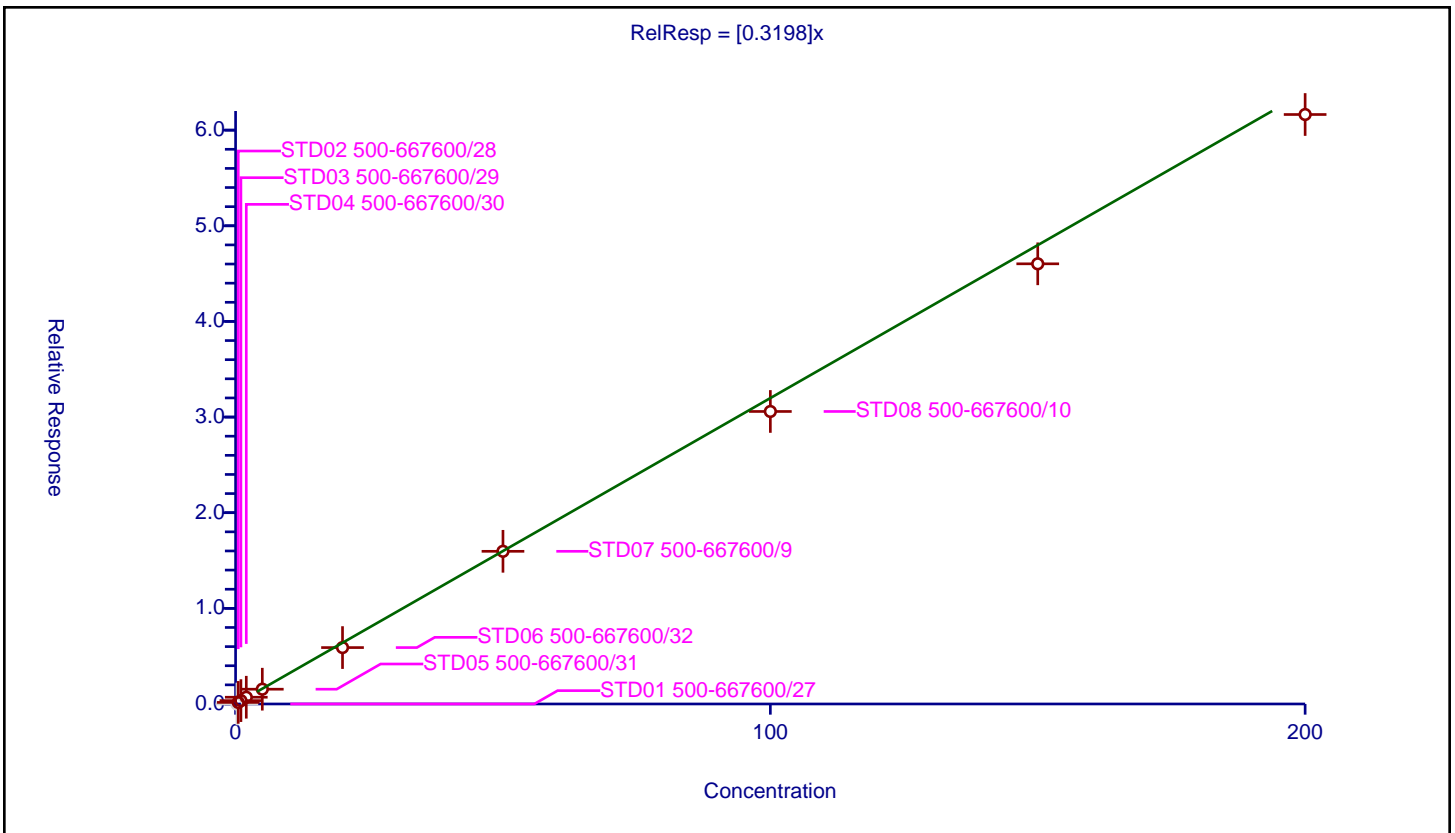
/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3198

Error Coefficients	
Standard Error:	374000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.0	50.0	522032.0	0.0	N
2	STD02 500-667600/28	0.5	0.164693	50.0	565295.0	0.329386	Y
3	STD03 500-667600/29	1.0	0.351781	50.0	565551.0	0.351781	Y
4	STD04 500-667600/30	2.0	0.706227	50.0	518813.0	0.353114	Y
5	STD05 500-667600/31	5.0	1.546156	50.0	558514.0	0.309231	Y
6	STD06 500-667600/32	20.0	5.899511	50.0	561716.0	0.294976	Y
7	STD07 500-667600/9	50.0	15.964282	50.0	590346.0	0.319286	Y
8	STD08 500-667600/10	100.0	30.584414	50.0	609482.0	0.305844	Y
9	STD09 500-667600/11	150.0	46.022785	50.0	627160.0	0.306819	Y
10	STD010 500-667600/12	200.0	61.634257	50.0	633040.0	0.308171	Y



Calibration

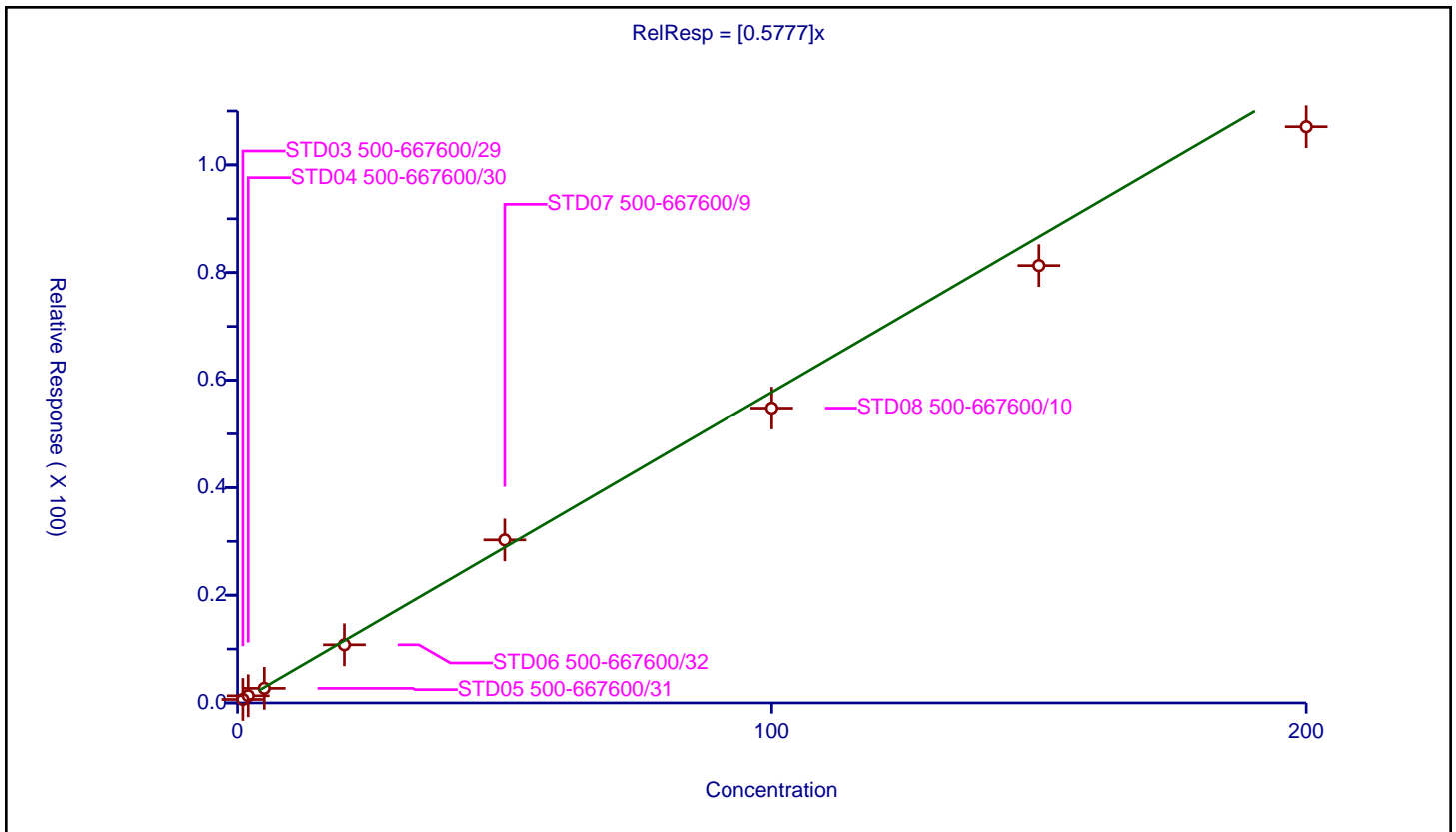
/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5777

Error Coefficients	
Standard Error:	704000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.644946	50.0	565551.0	0.644946	Y
2	STD04 500-667600/30	2.0	1.328417	50.0	518813.0	0.664208	Y
3	STD05 500-667600/31	5.0	2.710675	50.0	558514.0	0.542135	Y
4	STD06 500-667600/32	20.0	10.789171	50.0	561716.0	0.539459	Y
5	STD07 500-667600/9	50.0	30.273094	50.0	590346.0	0.605462	Y
6	STD08 500-667600/10	100.0	54.807607	50.0	609482.0	0.548076	Y
7	STD09 500-667600/11	150.0	81.31083	50.0	627160.0	0.542072	Y
8	STD010 500-667600/12	200.0	107.09268	50.0	633040.0	0.535463	Y



Calibration

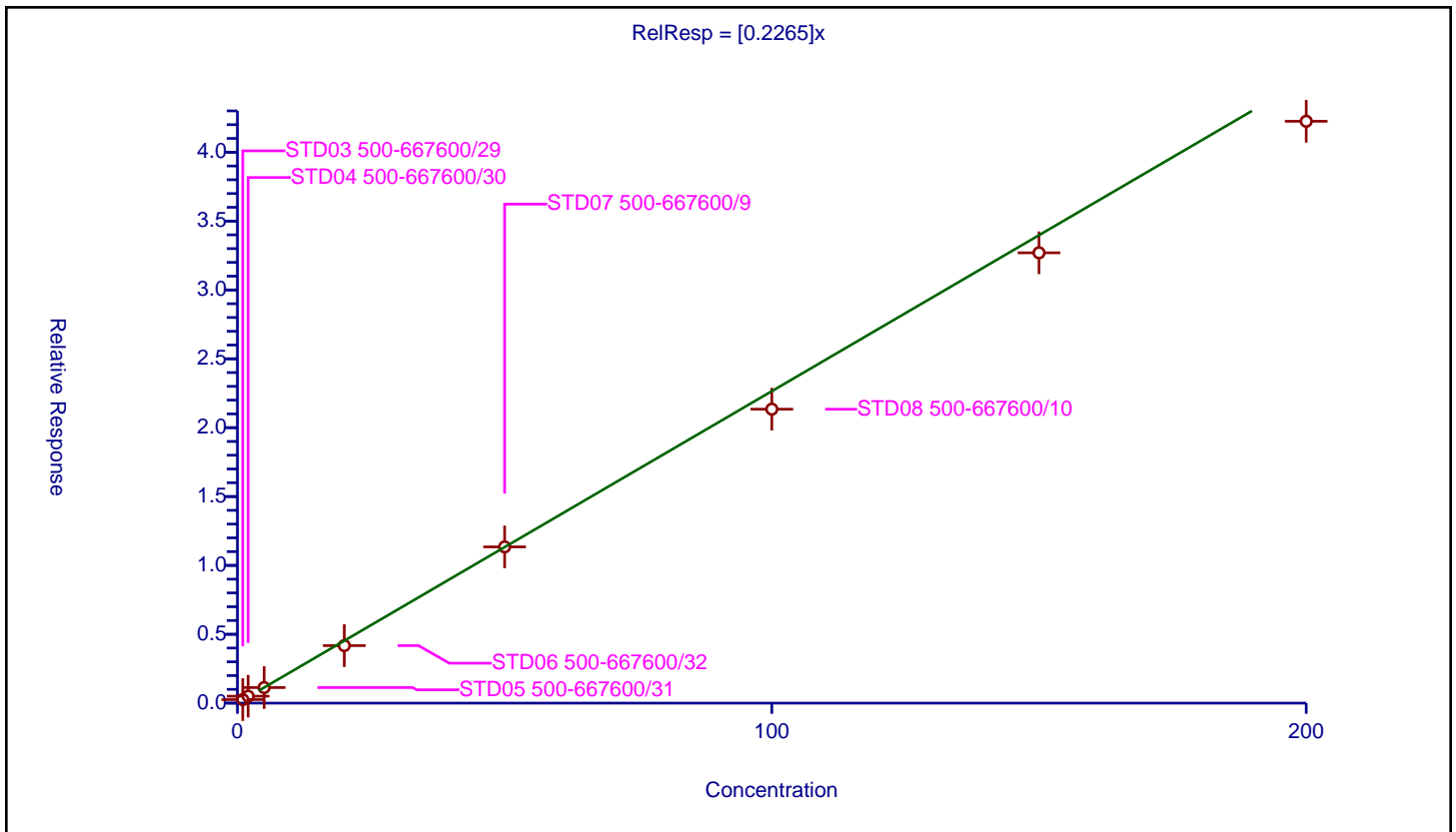
/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2265

Error Coefficients	
Standard Error:	278000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.255857	50.0	565551.0	0.255857	Y
2	STD04 500-667600/30	2.0	0.503168	50.0	518813.0	0.251584	Y
3	STD05 500-667600/31	5.0	1.130589	50.0	558514.0	0.226118	Y
4	STD06 500-667600/32	20.0	4.176755	50.0	561716.0	0.208838	Y
5	STD07 500-667600/9	50.0	11.345211	50.0	590346.0	0.226904	Y
6	STD08 500-667600/10	100.0	21.342468	50.0	609482.0	0.213425	Y
7	STD09 500-667600/11	150.0	32.697876	50.0	627160.0	0.217986	Y
8	STD010 500-667600/12	200.0	42.246067	50.0	633040.0	0.21123	Y



Calibration

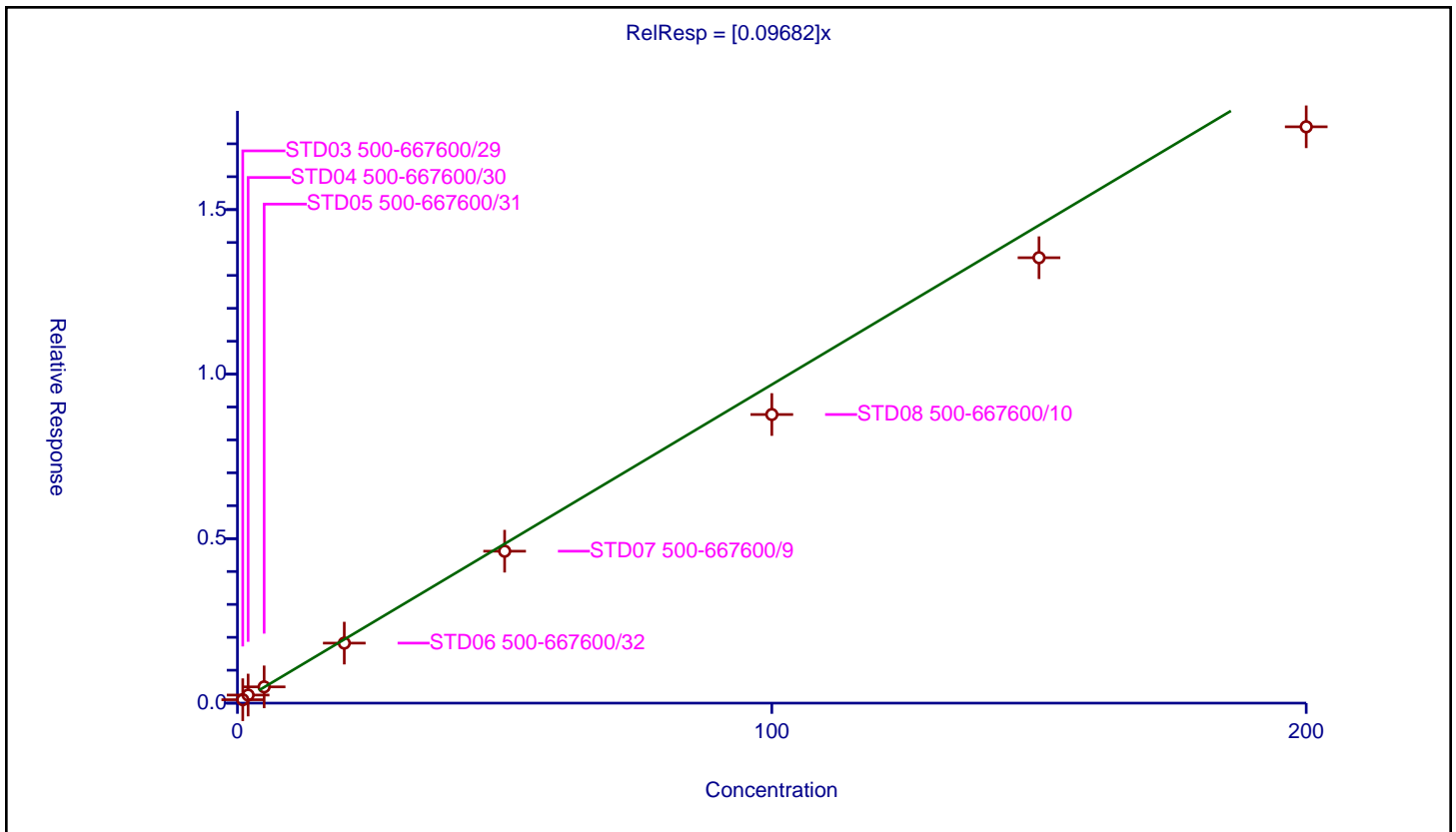
/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.09682

Error Coefficients	
Standard Error:	115000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.103616	50.0	565551.0	0.103616	Y
2	STD04 500-667600/30	2.0	0.245946	50.0	518813.0	0.122973	Y
3	STD05 500-667600/31	5.0	0.494437	50.0	558514.0	0.098887	Y
4	STD06 500-667600/32	20.0	1.823786	50.0	561716.0	0.091189	Y
5	STD07 500-667600/9	50.0	4.618054	50.0	590346.0	0.092361	Y
6	STD08 500-667600/10	100.0	8.771629	50.0	609482.0	0.087716	Y
7	STD09 500-667600/11	150.0	13.537375	50.0	627160.0	0.090249	Y
8	STD010 500-667600/12	200.0	17.516508	50.0	633040.0	0.087583	Y



Calibration

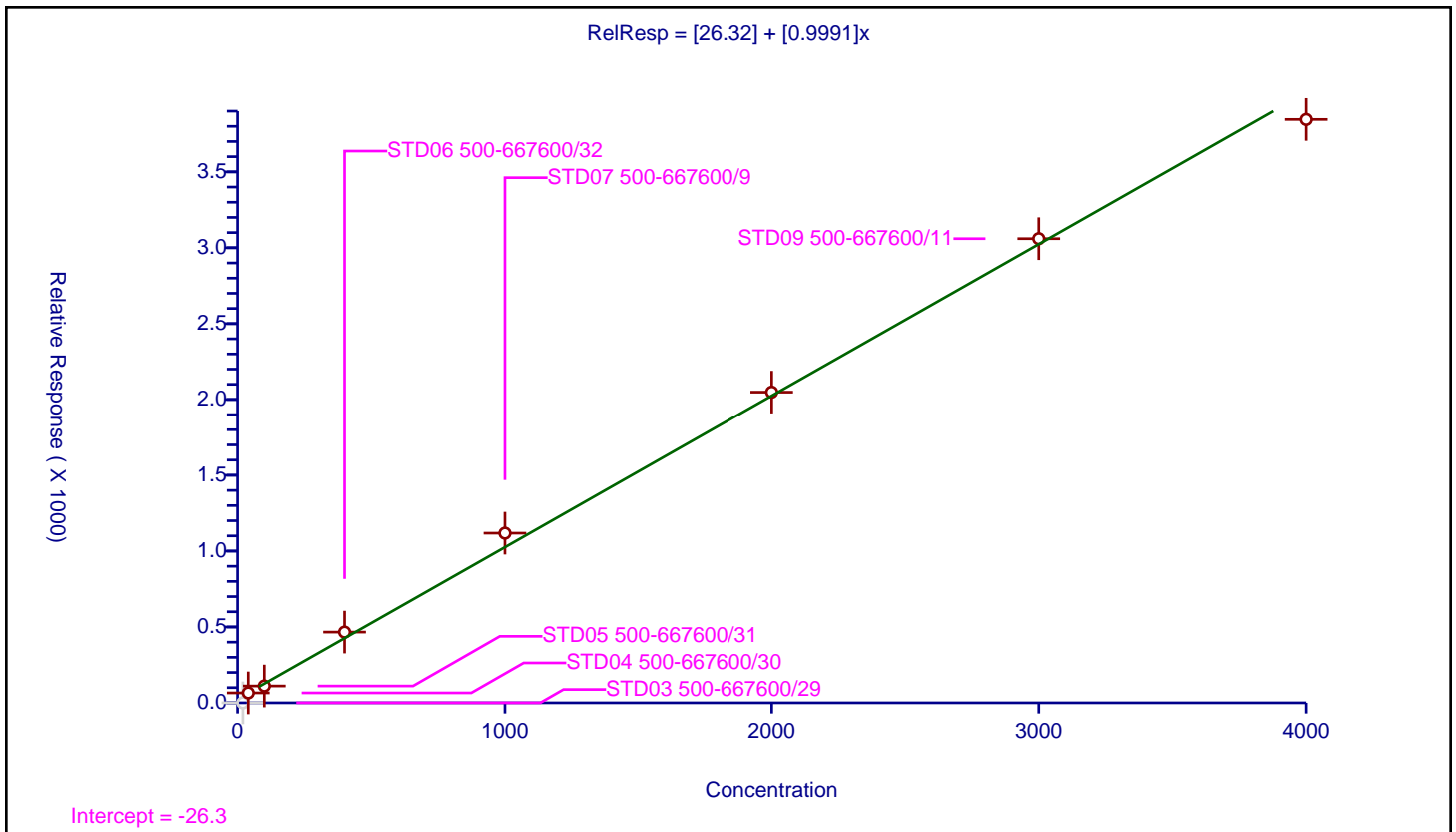
/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	26.32
Slope:	0.9991

Error Coefficients	
Standard Error:	28400
Relative Standard Error:	9.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	20.0	0.0	1000.0	10292.0	0.0	N
2	STD04 500-667600/30	40.0	65.46081	1000.0	9288.0	1.63652	Y
3	STD05 500-667600/31	100.0	110.971656	1000.0	9561.0	1.109717	Y
4	STD06 500-667600/32	400.0	466.258295	1000.0	9795.0	1.165646	Y
5	STD07 500-667600/9	1000.0	1118.045721	1000.0	9886.0	1.118046	Y
6	STD08 500-667600/10	2000.0	2048.222202	1000.0	11053.0	1.024111	Y
7	STD09 500-667600/11	3000.0	3059.974694	1000.0	11855.0	1.019992	Y
8	STD010 500-667600/12	4000.0	3845.375828	1000.0	13743.0	0.961344	Y



Calibration

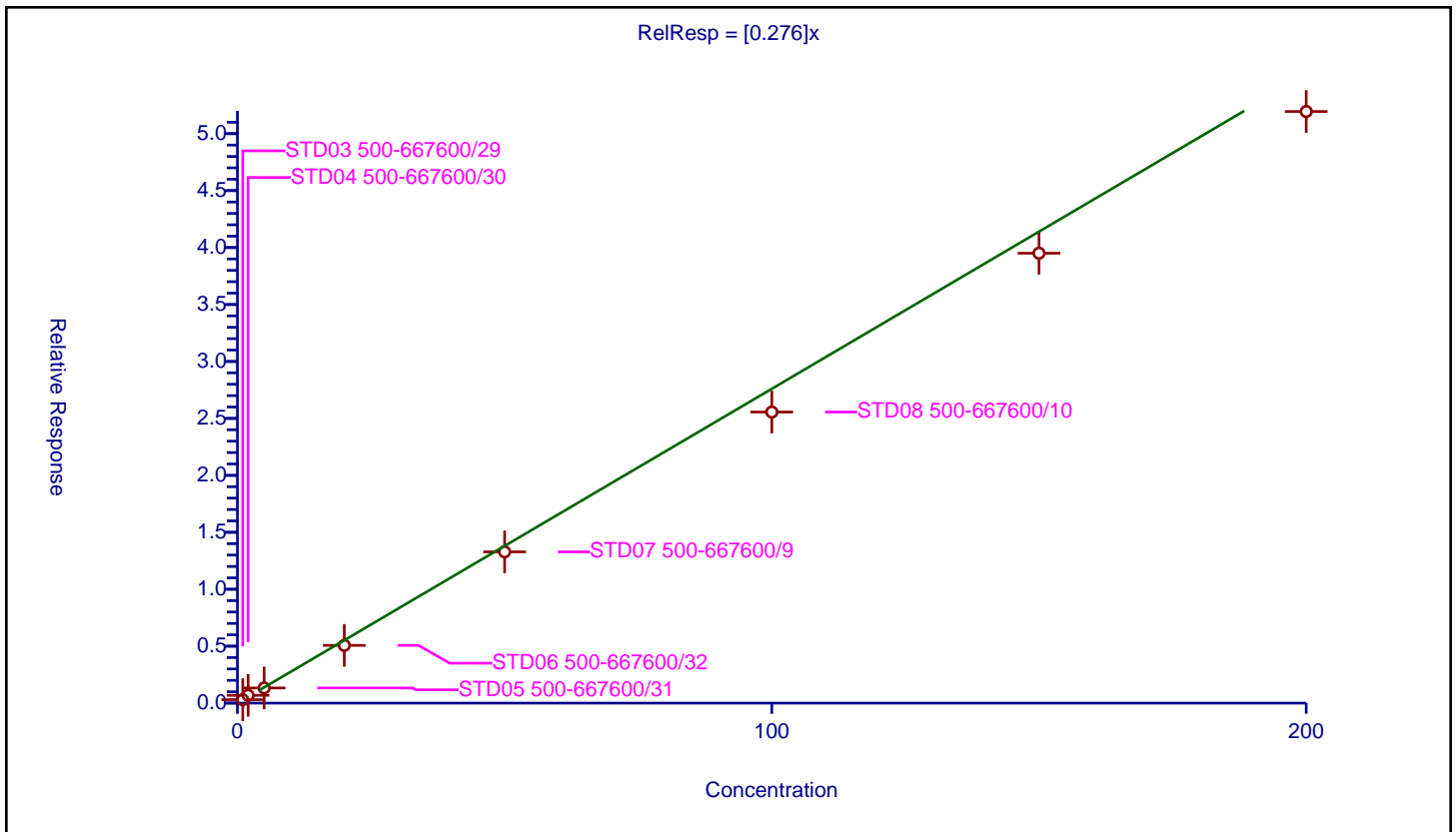
/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.276

Error Coefficients	
Standard Error:	339000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.302095	50.0	565551.0	0.302095	Y
2	STD04 500-667600/30	2.0	0.683194	50.0	518813.0	0.341597	Y
3	STD05 500-667600/31	5.0	1.331569	50.0	558514.0	0.266314	Y
4	STD06 500-667600/32	20.0	5.072047	50.0	561716.0	0.253602	Y
5	STD07 500-667600/9	50.0	13.281872	50.0	590346.0	0.265637	Y
6	STD08 500-667600/10	100.0	25.558425	50.0	609482.0	0.255584	Y
7	STD09 500-667600/11	150.0	39.503476	50.0	627160.0	0.263357	Y
8	STD010 500-667600/12	200.0	51.945217	50.0	633040.0	0.259726	Y



Calibration

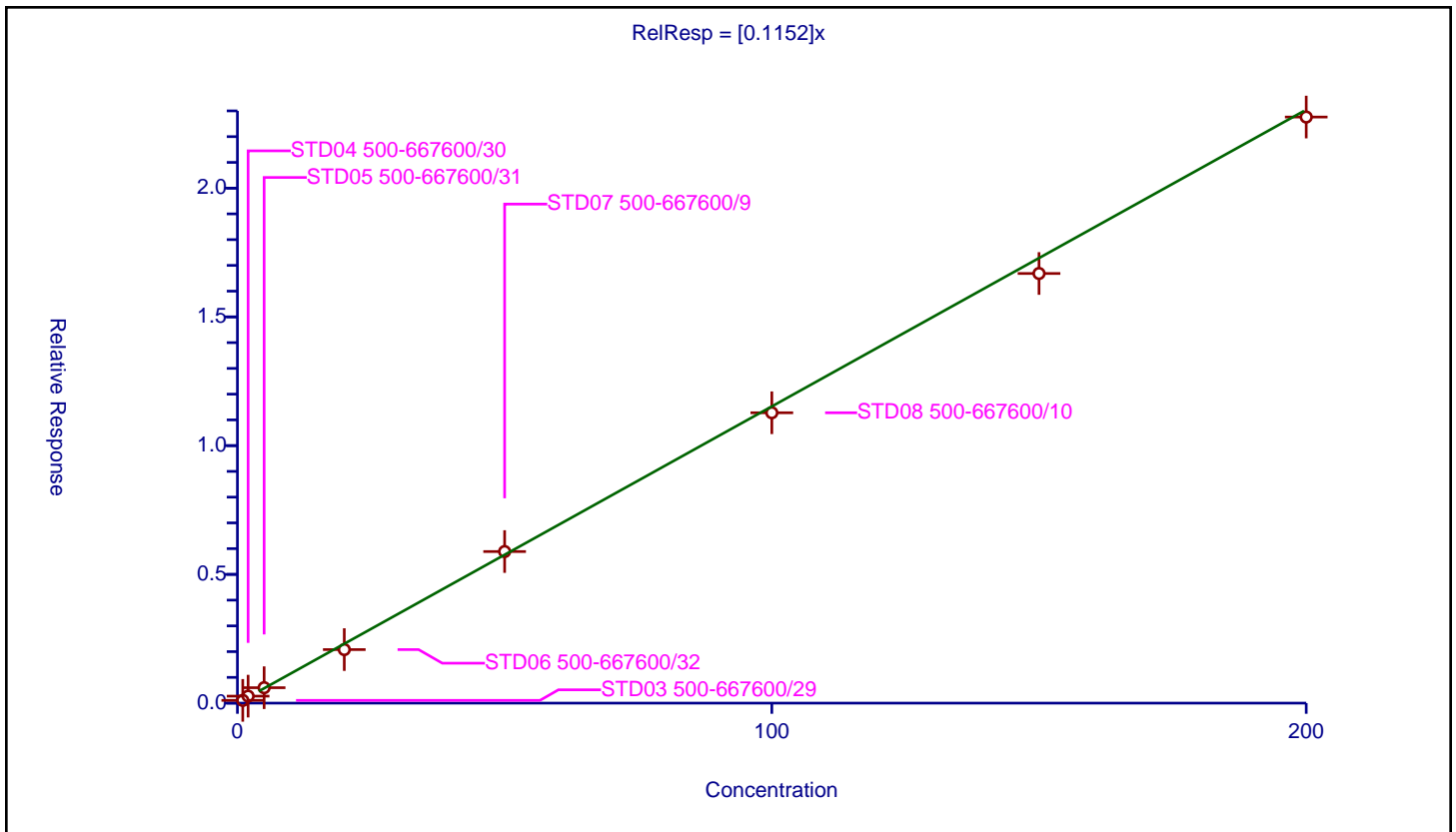
/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1152

Error Coefficients	
Standard Error:	96800
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.106694	50.0	382869.0	0.106694	Y
2	STD04 500-667600/30	2.0	0.271483	50.0	350114.0	0.135742	Y
3	STD05 500-667600/31	5.0	0.599495	50.0	377985.0	0.119899	Y
4	STD06 500-667600/32	20.0	2.079219	50.0	369658.0	0.103961	Y
5	STD07 500-667600/9	50.0	5.886456	50.0	380628.0	0.117729	Y
6	STD08 500-667600/10	100.0	11.276747	50.0	390414.0	0.112767	Y
7	STD09 500-667600/11	150.0	16.685455	50.0	413372.0	0.111236	Y
8	STD10 500-667600/12	200.0	22.760731	50.0	419925.0	0.113804	Y



Calibration

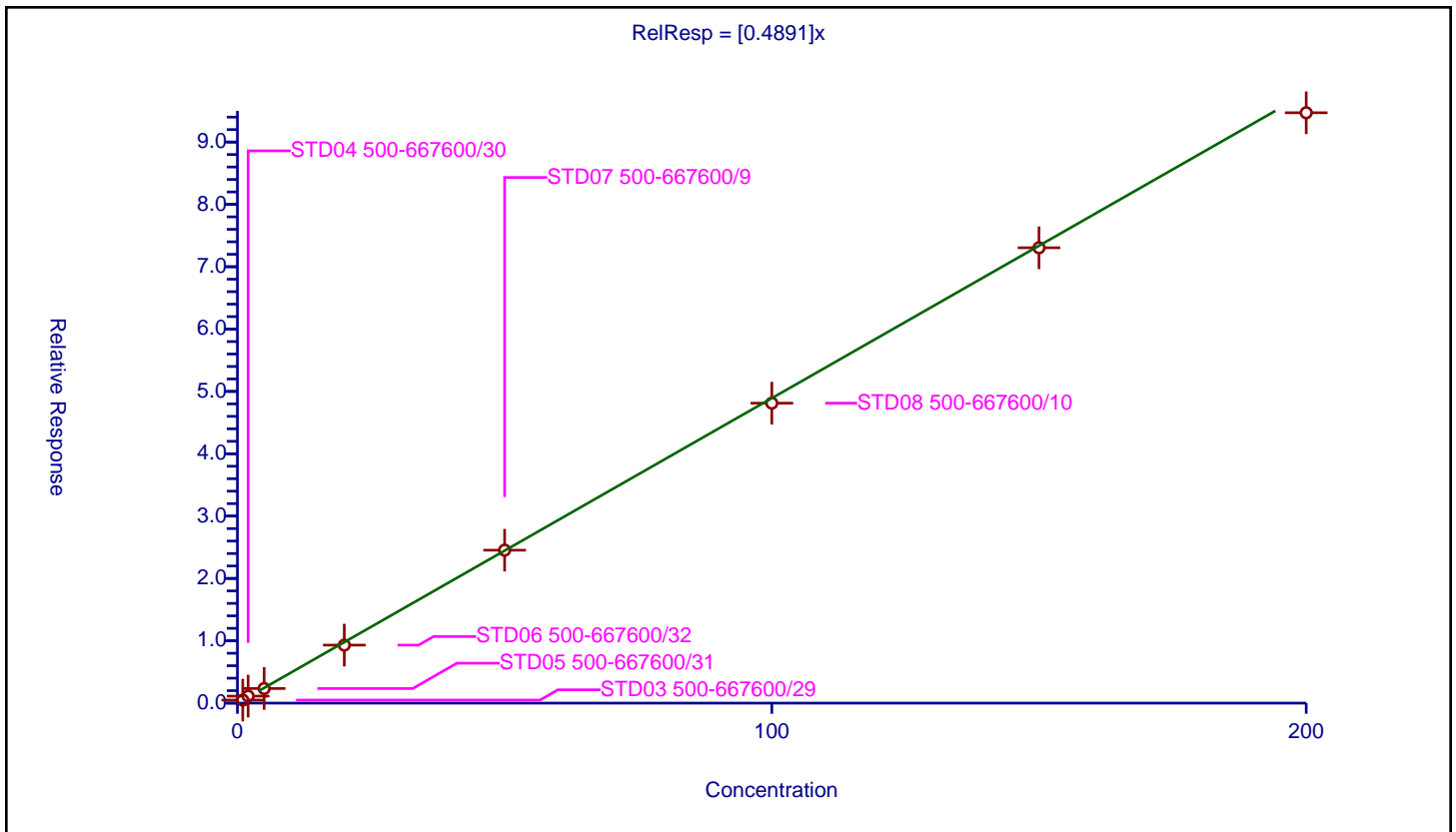
/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4891

Error Coefficients	
Standard Error:	410000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.486198	50.0	382869.0	0.486198	Y
2	STD04 500-667600/30	2.0	1.120635	50.0	350114.0	0.560317	Y
3	STD05 500-667600/31	5.0	2.344537	50.0	377985.0	0.468907	Y
4	STD06 500-667600/32	20.0	9.306169	50.0	369658.0	0.465308	Y
5	STD07 500-667600/9	50.0	24.535242	50.0	380628.0	0.490705	Y
6	STD08 500-667600/10	100.0	48.115078	50.0	390414.0	0.481151	Y
7	STD09 500-667600/11	150.0	73.043651	50.0	413372.0	0.486958	Y
8	STD010 500-667600/12	200.0	94.700839	50.0	419925.0	0.473504	Y



Calibration

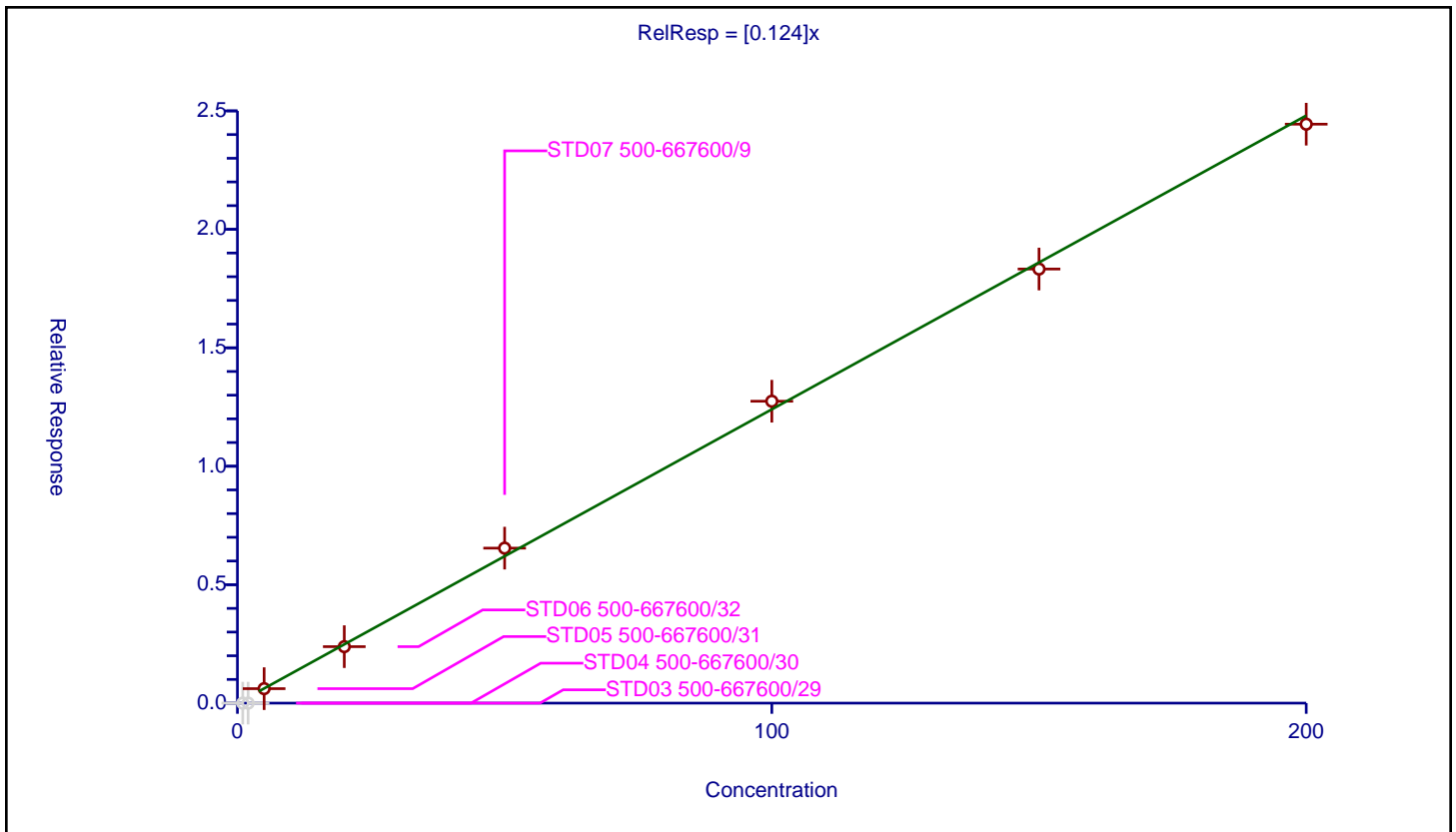
/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.124

Error Coefficients	
Standard Error:	125000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	382869.0	0.0	N
2	STD04 500-667600/30	2.0	0.0	50.0	350114.0	0.0	N
3	STD05 500-667600/31	5.0	0.611003	50.0	377985.0	0.122201	Y
4	STD06 500-667600/32	20.0	2.38396	50.0	369658.0	0.119198	Y
5	STD07 500-667600/9	50.0	6.542871	50.0	380628.0	0.130857	Y
6	STD08 500-667600/10	100.0	12.744036	50.0	390414.0	0.12744	Y
7	STD09 500-667600/11	150.0	18.324294	50.0	413372.0	0.122162	Y
8	STD010 500-667600/12	200.0	24.439126	50.0	419925.0	0.122196	Y



Calibration

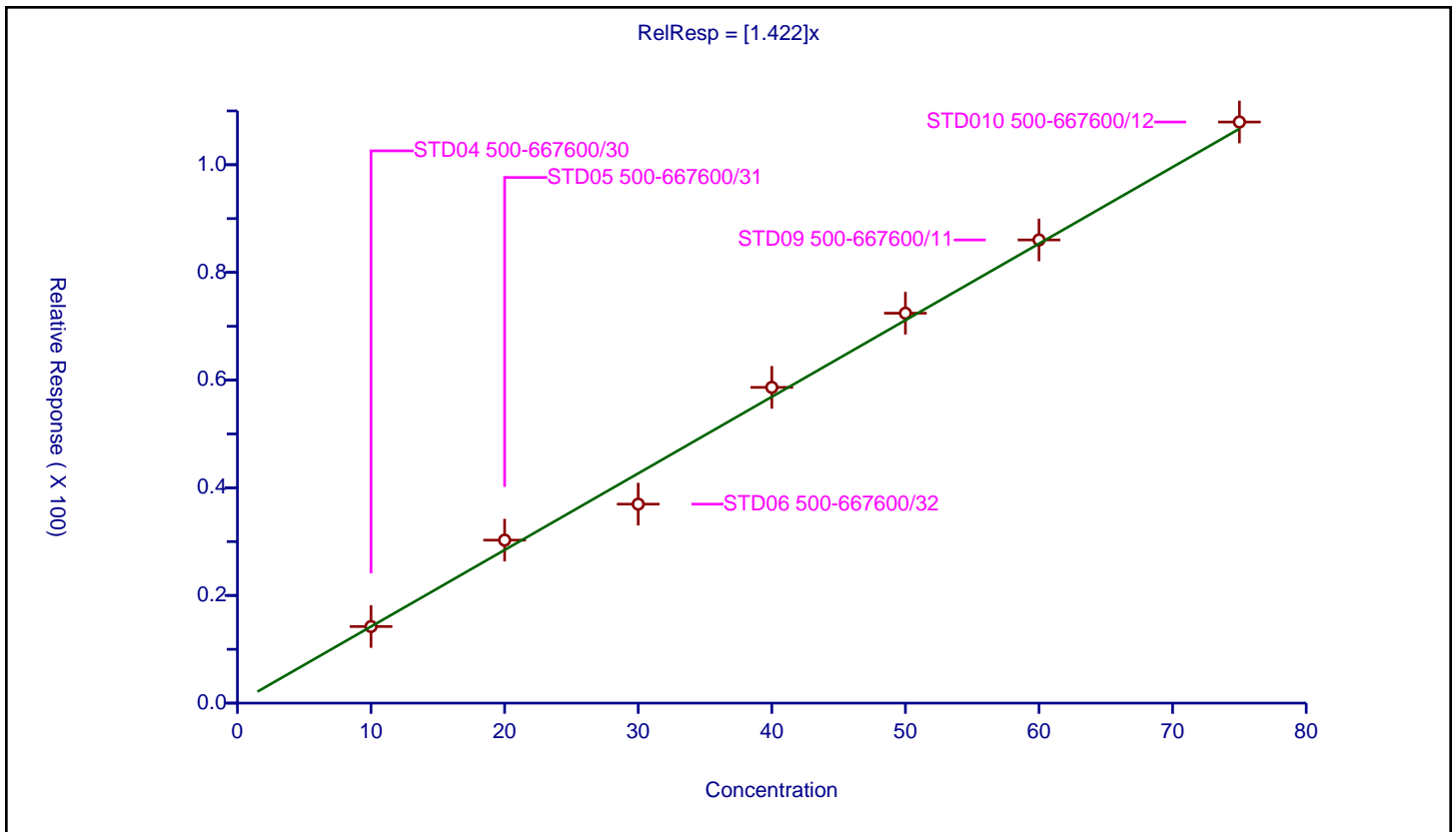
/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.422

Error Coefficients	
Standard Error:	575000
Relative Standard Error:	6.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-667600/30	10.0	14.228794	50.0	350114.0	1.422879	Y
2	STD05 500-667600/31	20.0	30.273291	50.0	377985.0	1.513665	Y
3	STD06 500-667600/32	30.0	36.959974	50.0	369658.0	1.231999	Y
4	STD07 500-667600/9	40.0	58.647682	50.0	380628.0	1.466192	Y
5	STD08 500-667600/10	50.0	72.424785	50.0	390414.0	1.448496	Y
6	STD09 500-667600/11	60.0	86.033282	50.0	413372.0	1.433888	Y
7	STD010 500-667600/12	75.0	107.937489	50.0	419925.0	1.439167	Y



Calibration

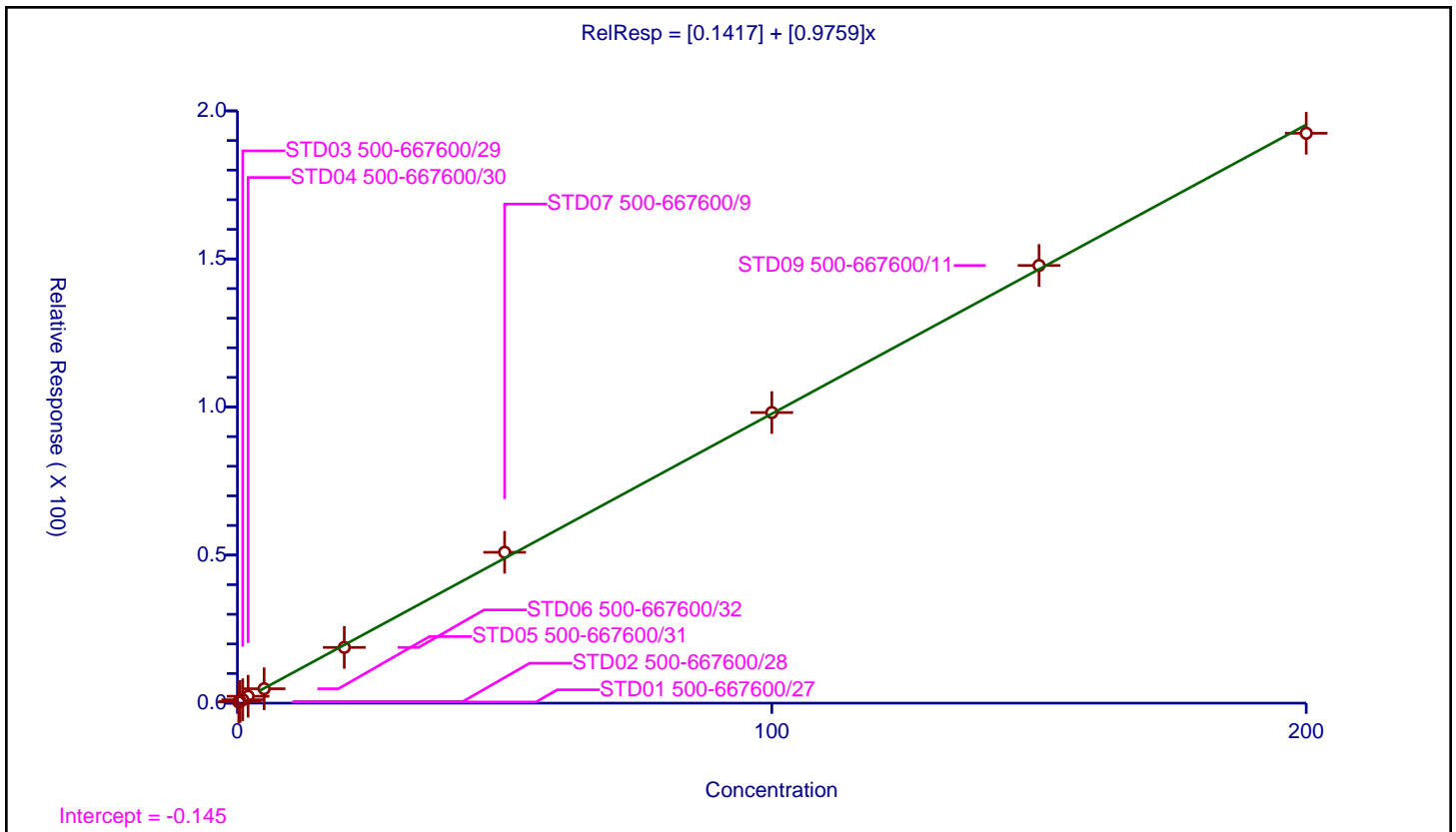
/ Toluene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1417
Slope:	0.9759

Error Coefficients	
Standard Error:	780000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.384156	50.0	339576.0	1.536622	Y
2	STD02 500-667600/28	0.5	0.58296	50.0	370780.0	1.16592	Y
3	STD03 500-667600/29	1.0	1.134592	50.0	382869.0	1.134592	Y
4	STD04 500-667600/30	2.0	2.328242	50.0	350114.0	1.164121	Y
5	STD05 500-667600/31	5.0	4.865405	50.0	377985.0	0.973081	Y
6	STD06 500-667600/32	20.0	18.813606	50.0	369658.0	0.94068	Y
7	STD07 500-667600/9	50.0	50.939894	50.0	380628.0	1.018798	Y
8	STD08 500-667600/10	100.0	98.127244	50.0	390414.0	0.981272	Y
9	STD09 500-667600/11	150.0	147.795448	50.0	413372.0	0.985303	Y
10	STD010 500-667600/12	200.0	192.443293	50.0	419925.0	0.962216	Y



Calibration

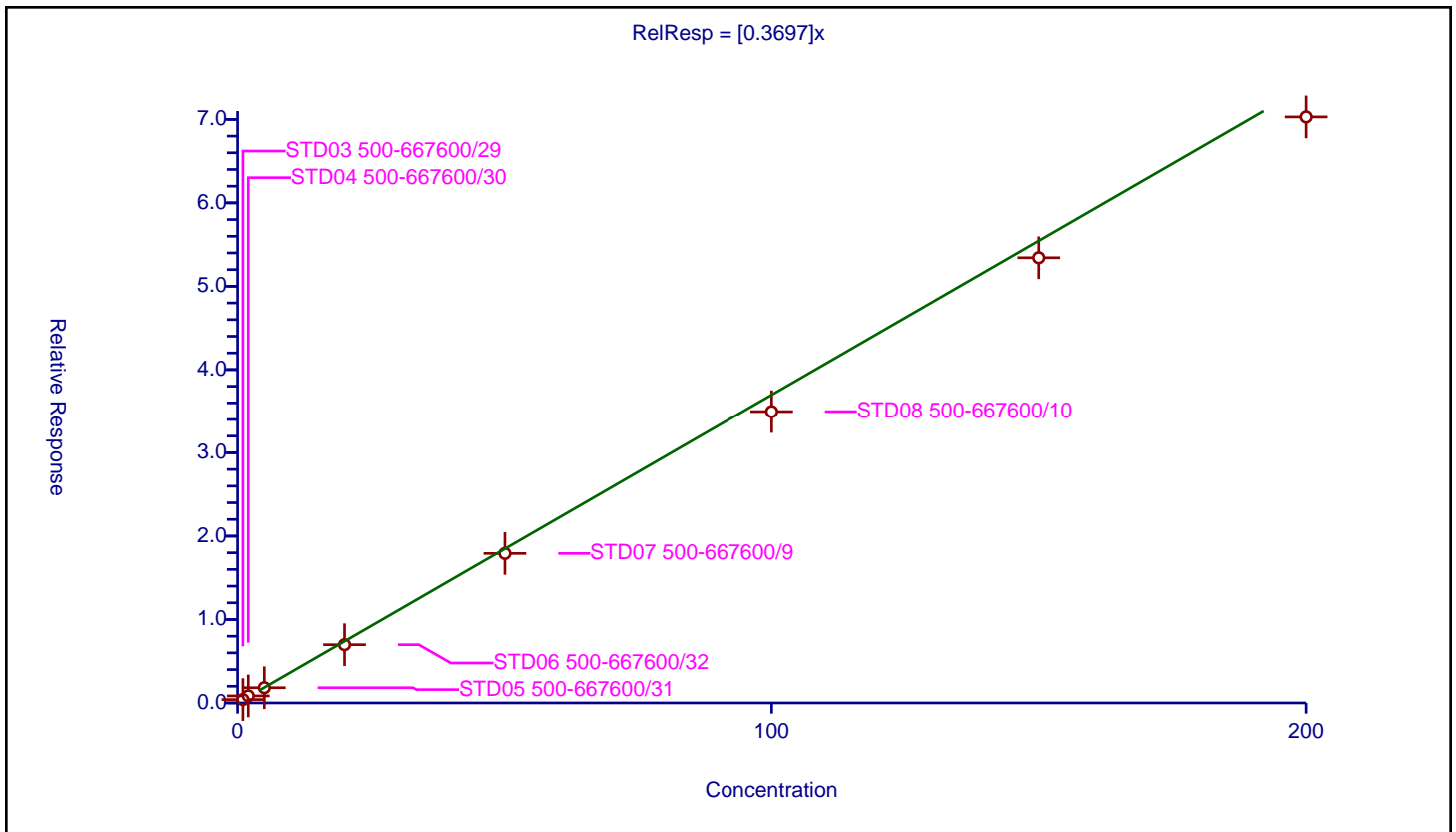
/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3697

Error Coefficients	
Standard Error:	302000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.404577	50.0	382869.0	0.404577	Y
2	STD04 500-667600/30	2.0	0.845867	50.0	350114.0	0.422934	Y
3	STD05 500-667600/31	5.0	1.826131	50.0	377985.0	0.365226	Y
4	STD06 500-667600/32	20.0	6.980642	50.0	369658.0	0.349032	Y
5	STD07 500-667600/9	50.0	17.920647	50.0	380628.0	0.358413	Y
6	STD08 500-667600/10	100.0	34.954049	50.0	390414.0	0.34954	Y
7	STD09 500-667600/11	150.0	53.422099	50.0	413372.0	0.356147	Y
8	STD010 500-667600/12	200.0	70.294934	50.0	419925.0	0.351475	Y



Calibration

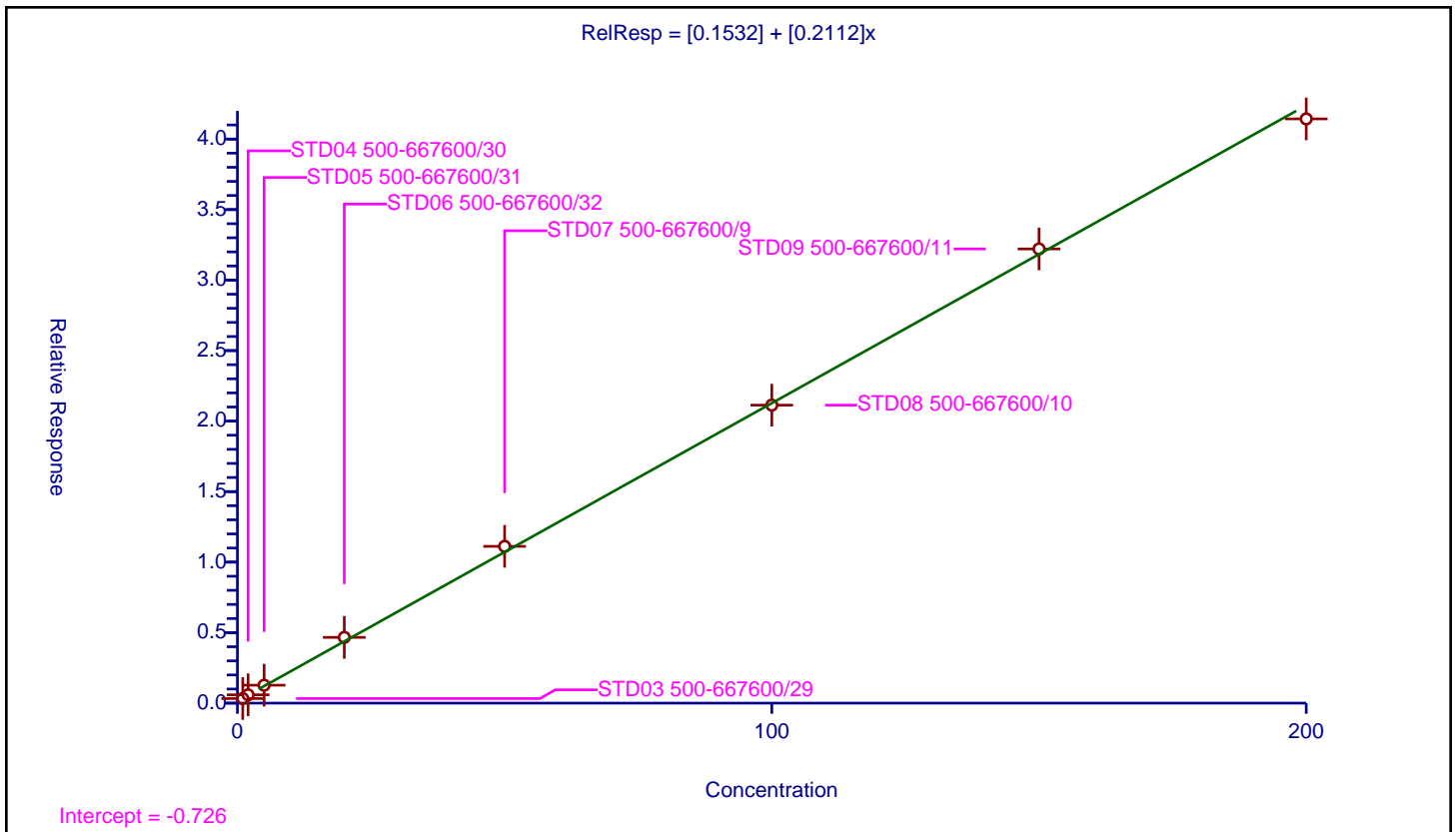
/ Ethyl methacrylate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1532
Slope:	0.2112

Error Coefficients	
Standard Error:	195000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.325829	50.0	382869.0	0.325829	Y
2	STD04 500-667600/30	2.0	0.590236	50.0	350114.0	0.295118	Y
3	STD05 500-667600/31	5.0	1.272934	50.0	377985.0	0.254587	Y
4	STD06 500-667600/32	20.0	4.661606	50.0	369658.0	0.23308	Y
5	STD07 500-667600/9	50.0	11.117679	50.0	380628.0	0.222354	Y
6	STD08 500-667600/10	100.0	21.133463	50.0	390414.0	0.211335	Y
7	STD09 500-667600/11	150.0	32.209608	50.0	413372.0	0.214731	Y
8	STD010 500-667600/12	200.0	41.43097	50.0	419925.0	0.207155	Y



Calibration

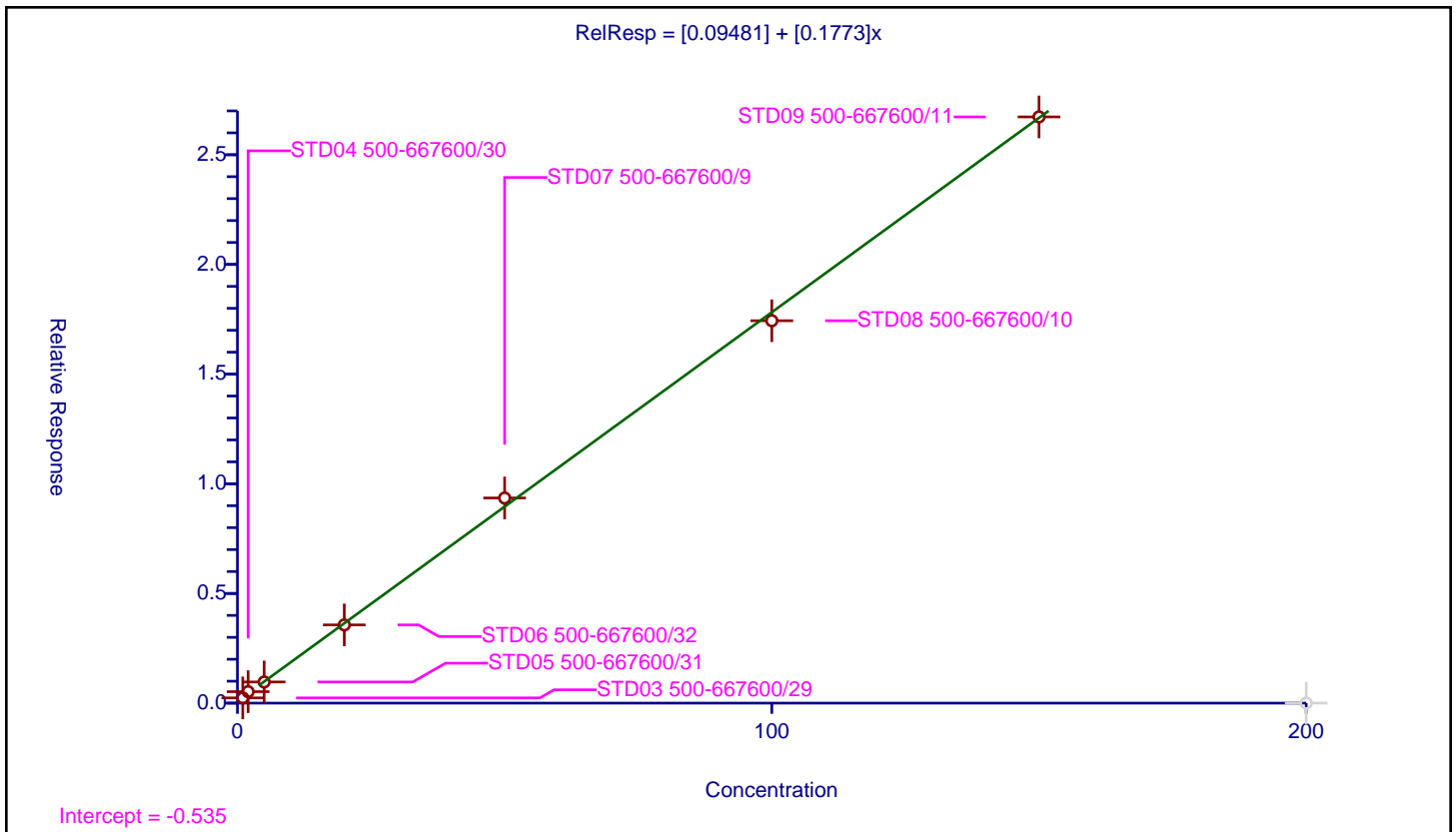
/ 1,1,2-Trichloroethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09481
Slope:	0.1773

Error Coefficients	
Standard Error:	121000
Relative Standard Error:	12.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.238202	50.0	382869.0	0.238202	Y
2	STD04 500-667600/30	2.0	0.522401	50.0	350114.0	0.261201	Y
3	STD05 500-667600/31	5.0	0.964589	50.0	377985.0	0.192918	Y
4	STD06 500-667600/32	20.0	3.565728	50.0	369658.0	0.178286	Y
5	STD07 500-667600/9	50.0	9.351913	50.0	380628.0	0.187038	Y
6	STD08 500-667600/10	100.0	17.433673	50.0	390414.0	0.174337	Y
7	STD09 500-667600/11	150.0	26.725564	50.0	413372.0	0.17817	Y
8	STD010 500-667600/12	200.0	0.0	50.0	419925.0	0.0	N



Calibration

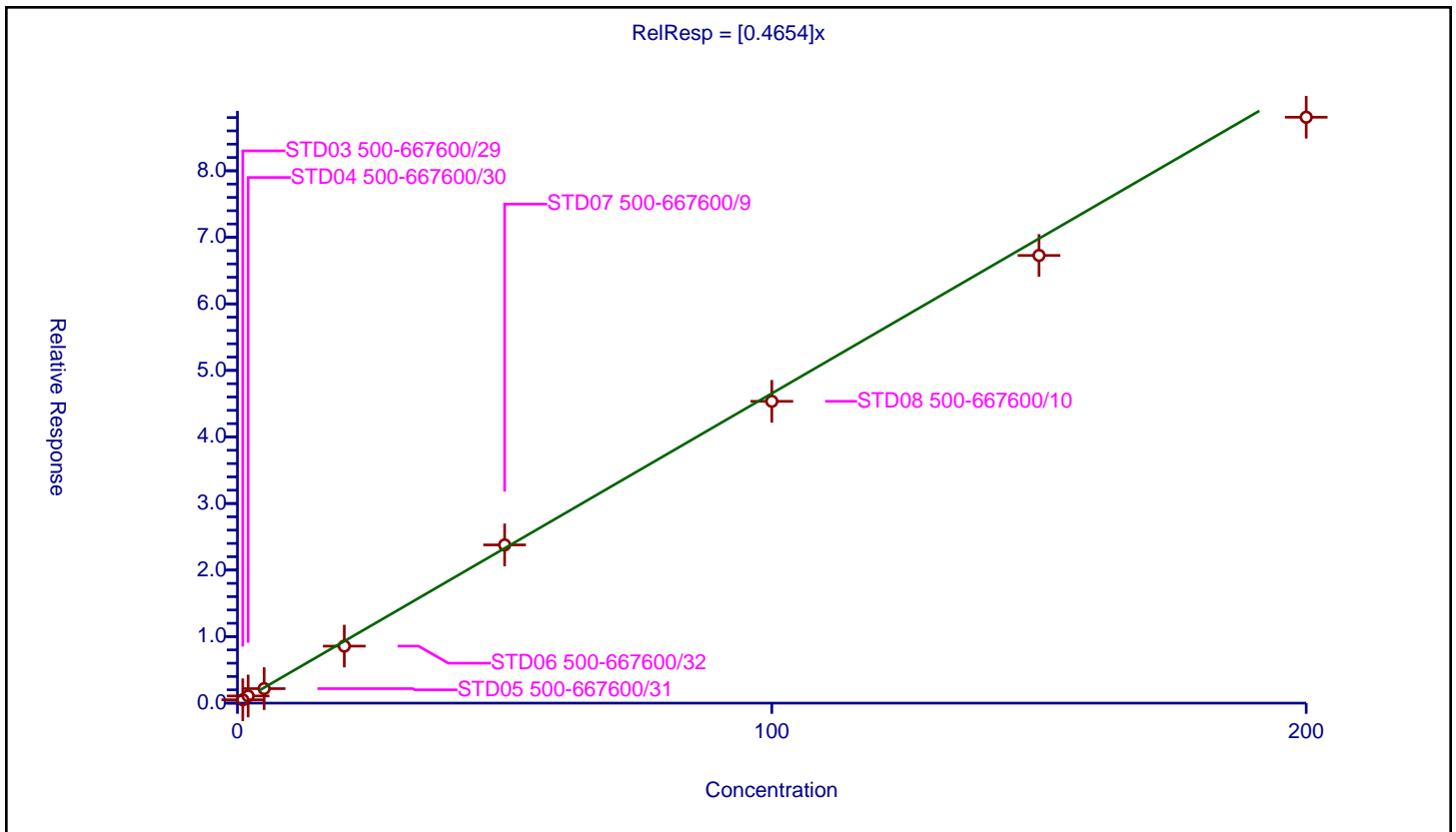
/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4654

Error Coefficients	
Standard Error:	381000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.503697	50.0	382869.0	0.503697	Y
2	STD04 500-667600/30	2.0	1.075364	50.0	350114.0	0.537682	Y
3	STD05 500-667600/31	5.0	2.178261	50.0	377985.0	0.435652	Y
4	STD06 500-667600/32	20.0	8.567514	50.0	369658.0	0.428376	Y
5	STD07 500-667600/9	50.0	23.776102	50.0	380628.0	0.475522	Y
6	STD08 500-667600/10	100.0	45.353906	50.0	390414.0	0.453539	Y
7	STD09 500-667600/11	150.0	67.276206	50.0	413372.0	0.448508	Y
8	STD10 500-667600/12	200.0	88.049056	50.0	419925.0	0.440245	Y



Calibration

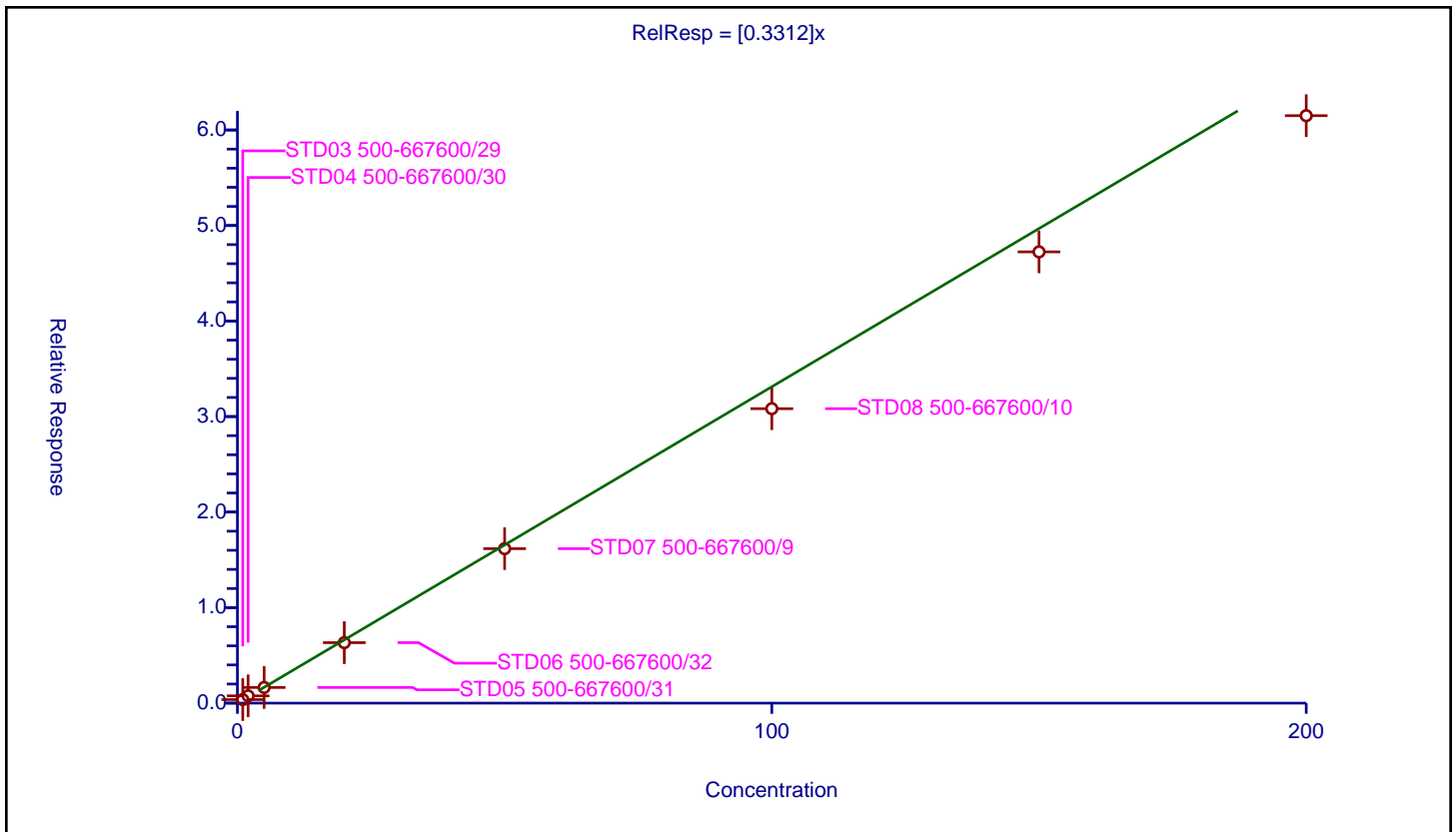
/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3312

Error Coefficients	
Standard Error:	266000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.371015	50.0	382869.0	0.371015	Y
2	STD04 500-667600/30	2.0	0.761466	50.0	350114.0	0.380733	Y
3	STD05 500-667600/31	5.0	1.636837	50.0	377985.0	0.327367	Y
4	STD06 500-667600/32	20.0	6.330446	50.0	369658.0	0.316522	Y
5	STD07 500-667600/9	50.0	16.170776	50.0	380628.0	0.323416	Y
6	STD08 500-667600/10	100.0	30.823818	50.0	390414.0	0.308238	Y
7	STD09 500-667600/11	150.0	47.241468	50.0	413372.0	0.314943	Y
8	STD010 500-667600/12	200.0	61.496934	50.0	419925.0	0.307485	Y



Calibration

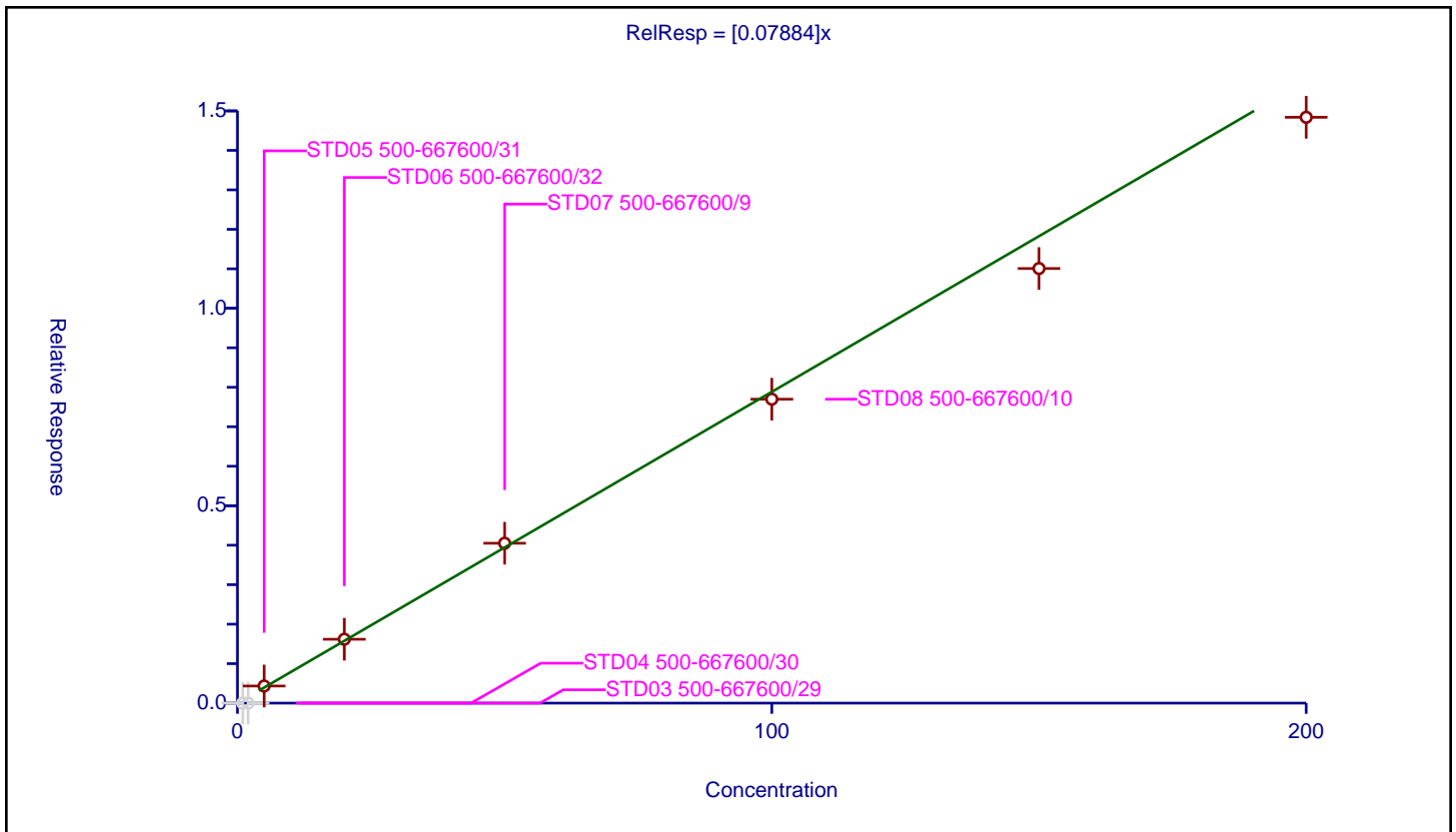
/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07884

Error Coefficients	
Standard Error:	75500
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	382869.0	0.0	N
2	STD04 500-667600/30	2.0	0.0	50.0	350114.0	0.0	N
3	STD05 500-667600/31	5.0	0.433086	50.0	377985.0	0.086617	Y
4	STD06 500-667600/32	20.0	1.617712	50.0	369658.0	0.080886	Y
5	STD07 500-667600/9	50.0	4.050017	50.0	380628.0	0.081	Y
6	STD08 500-667600/10	100.0	7.697726	50.0	390414.0	0.076977	Y
7	STD09 500-667600/11	150.0	11.008002	50.0	413372.0	0.073387	Y
8	STD010 500-667600/12	200.0	14.838245	50.0	419925.0	0.074191	Y



Calibration

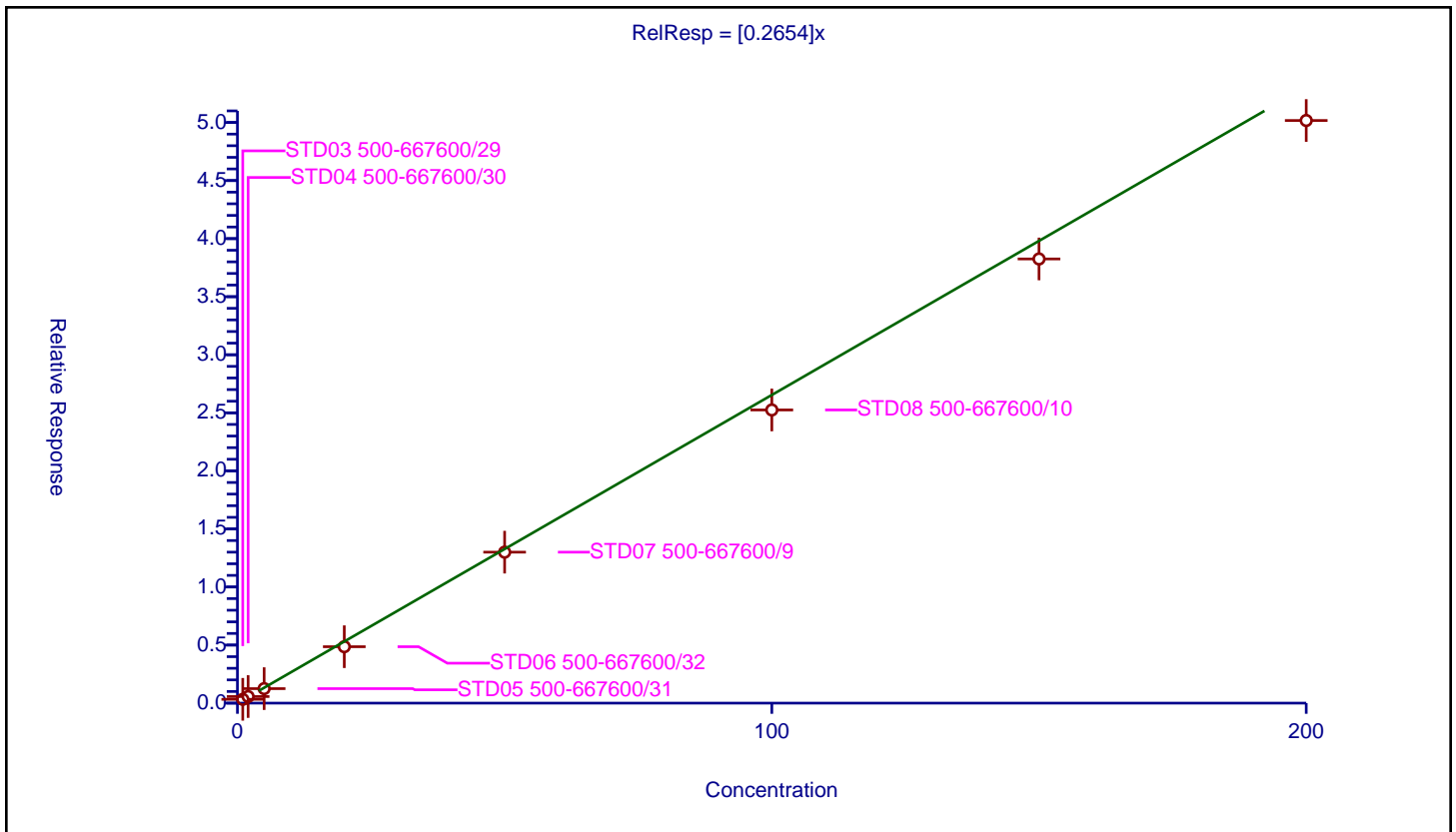
/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2654

Error Coefficients	
Standard Error:	216000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.328311	50.0	382869.0	0.328311	Y
2	STD04 500-667600/30	2.0	0.567101	50.0	350114.0	0.283551	Y
3	STD05 500-667600/31	5.0	1.248727	50.0	377985.0	0.249745	Y
4	STD06 500-667600/32	20.0	4.858815	50.0	369658.0	0.242941	Y
5	STD07 500-667600/9	50.0	13.001145	50.0	380628.0	0.260023	Y
6	STD08 500-667600/10	100.0	25.246533	50.0	390414.0	0.252465	Y
7	STD09 500-667600/11	150.0	38.250051	50.0	413372.0	0.255	Y
8	STD010 500-667600/12	200.0	50.173126	50.0	419925.0	0.250866	Y



Calibration

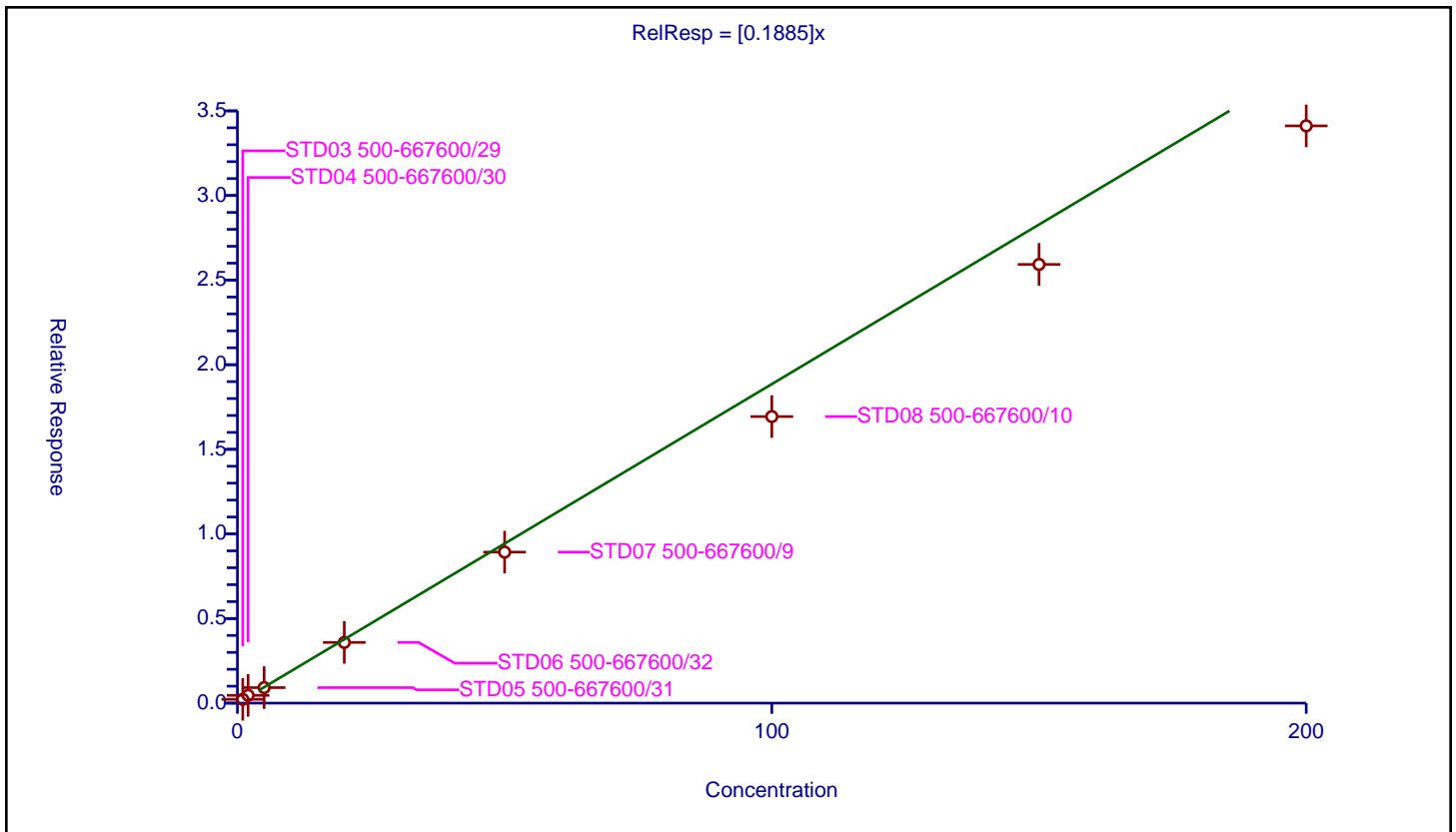
/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1885

Error Coefficients	
Standard Error:	147000
Relative Standard Error:	12.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.224881	50.0	382869.0	0.224881	Y
2	STD04 500-667600/30	2.0	0.458993	50.0	350114.0	0.229497	Y
3	STD05 500-667600/31	5.0	0.916438	50.0	377985.0	0.183288	Y
4	STD06 500-667600/32	20.0	3.587776	50.0	369658.0	0.179389	Y
5	STD07 500-667600/9	50.0	8.925775	50.0	380628.0	0.178516	Y
6	STD08 500-667600/10	100.0	16.935612	50.0	390414.0	0.169356	Y
7	STD09 500-667600/11	150.0	25.925921	50.0	413372.0	0.172839	Y
8	STD010 500-667600/12	200.0	34.113473	50.0	419925.0	0.170567	Y



Calibration

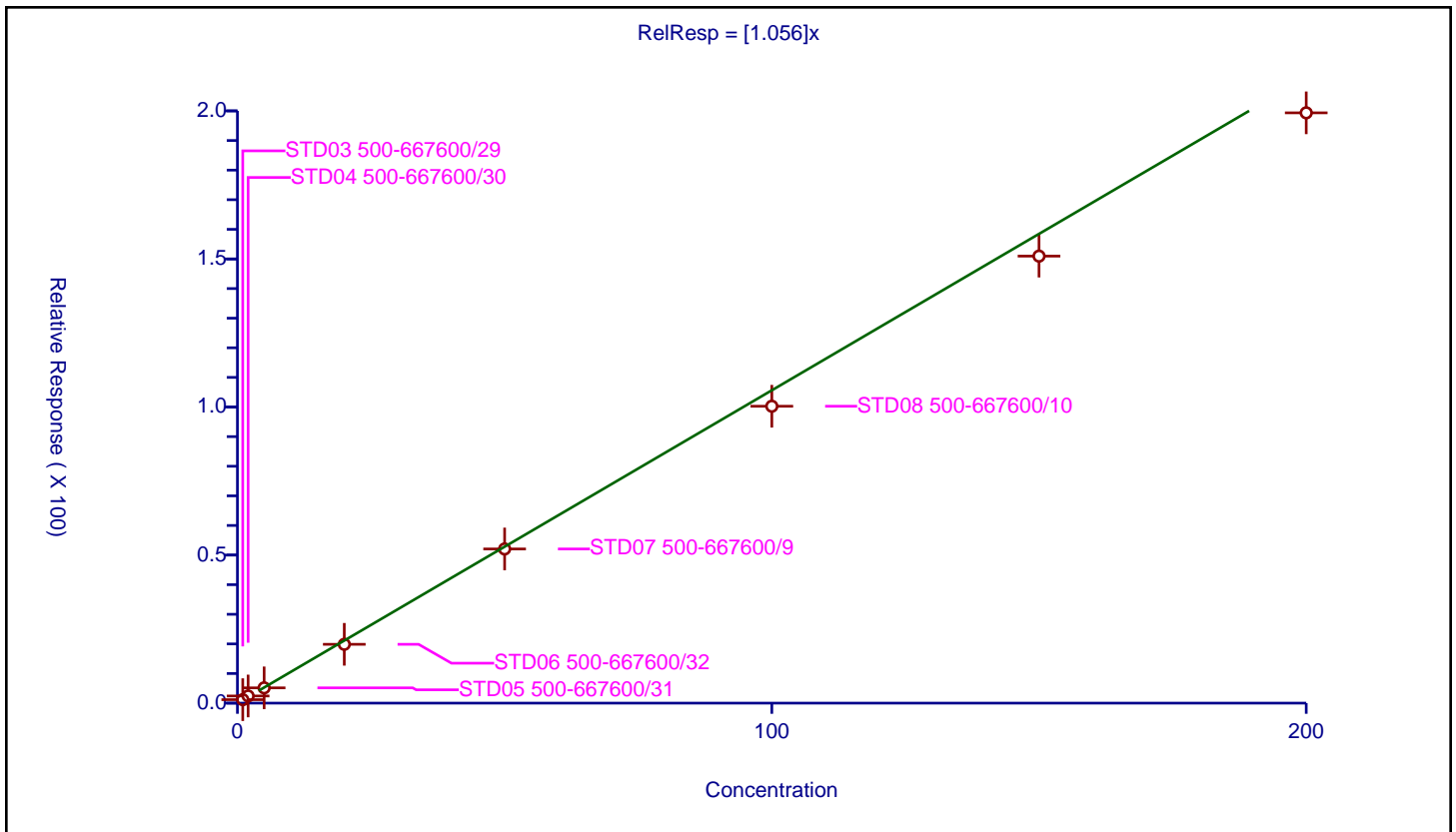
/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.056

Error Coefficients	
Standard Error:	858000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.170113	50.0	382869.0	1.170113	Y
2	STD04 500-667600/30	2.0	2.418641	50.0	350114.0	1.20932	Y
3	STD05 500-667600/31	5.0	5.159199	50.0	377985.0	1.03184	Y
4	STD06 500-667600/32	20.0	19.859843	50.0	369658.0	0.992992	Y
5	STD07 500-667600/9	50.0	52.060279	50.0	380628.0	1.041206	Y
6	STD08 500-667600/10	100.0	100.259468	50.0	390414.0	1.002595	Y
7	STD09 500-667600/11	150.0	150.957491	50.0	413372.0	1.006383	Y
8	STD010 500-667600/12	200.0	199.345836	50.0	419925.0	0.996729	Y



Calibration

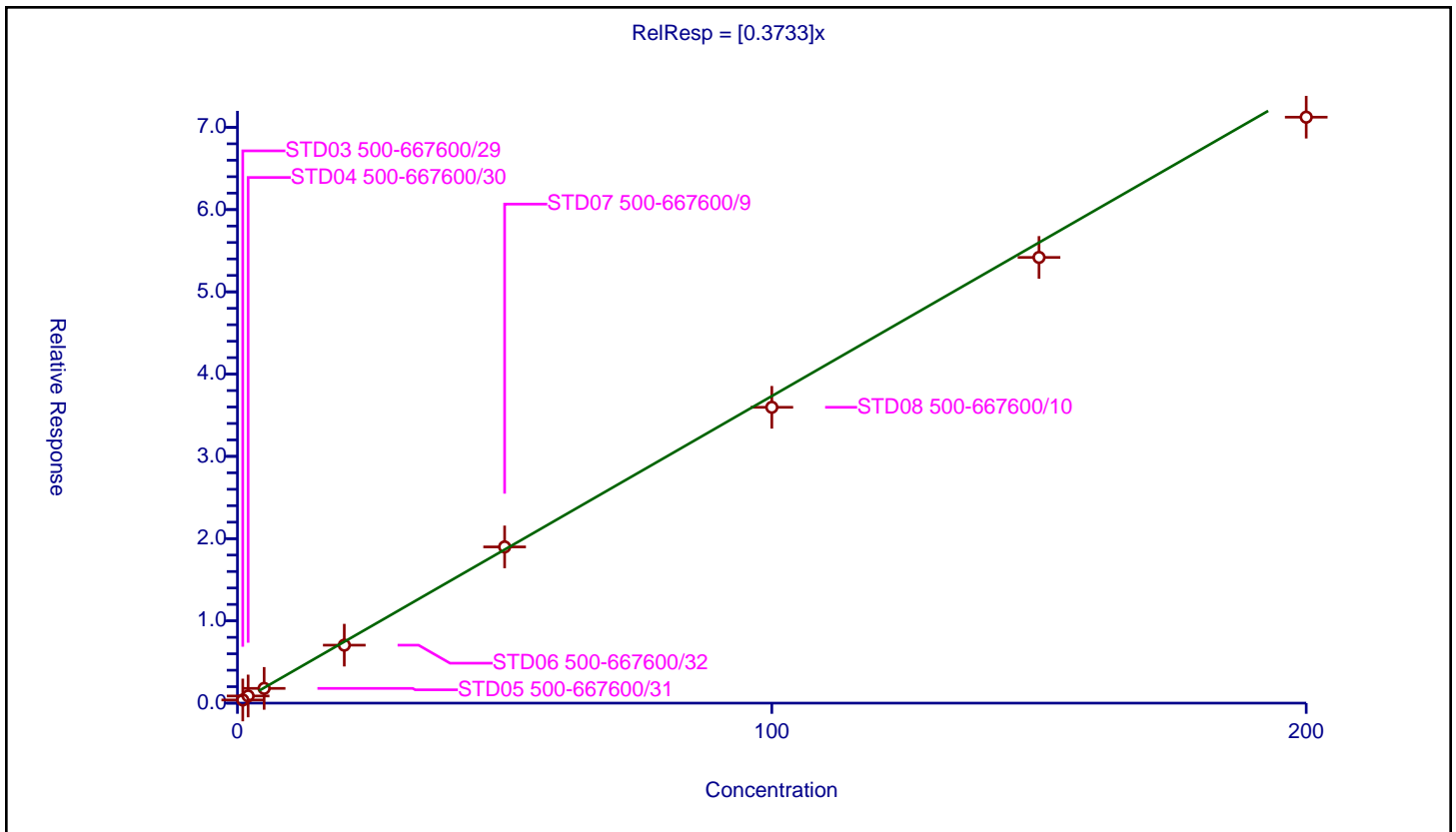
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3733

Error Coefficients	
Standard Error:	307000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.383552	50.0	382869.0	0.383552	Y
2	STD04 500-667600/30	2.0	0.86986	50.0	350114.0	0.43493	Y
3	STD05 500-667600/31	5.0	1.792399	50.0	377985.0	0.35848	Y
4	STD06 500-667600/32	20.0	7.046649	50.0	369658.0	0.352332	Y
5	STD07 500-667600/9	50.0	18.993479	50.0	380628.0	0.37987	Y
6	STD08 500-667600/10	100.0	35.965923	50.0	390414.0	0.359659	Y
7	STD09 500-667600/11	150.0	54.185334	50.0	413372.0	0.361236	Y
8	STD010 500-667600/12	200.0	71.234387	50.0	419925.0	0.356172	Y



Calibration

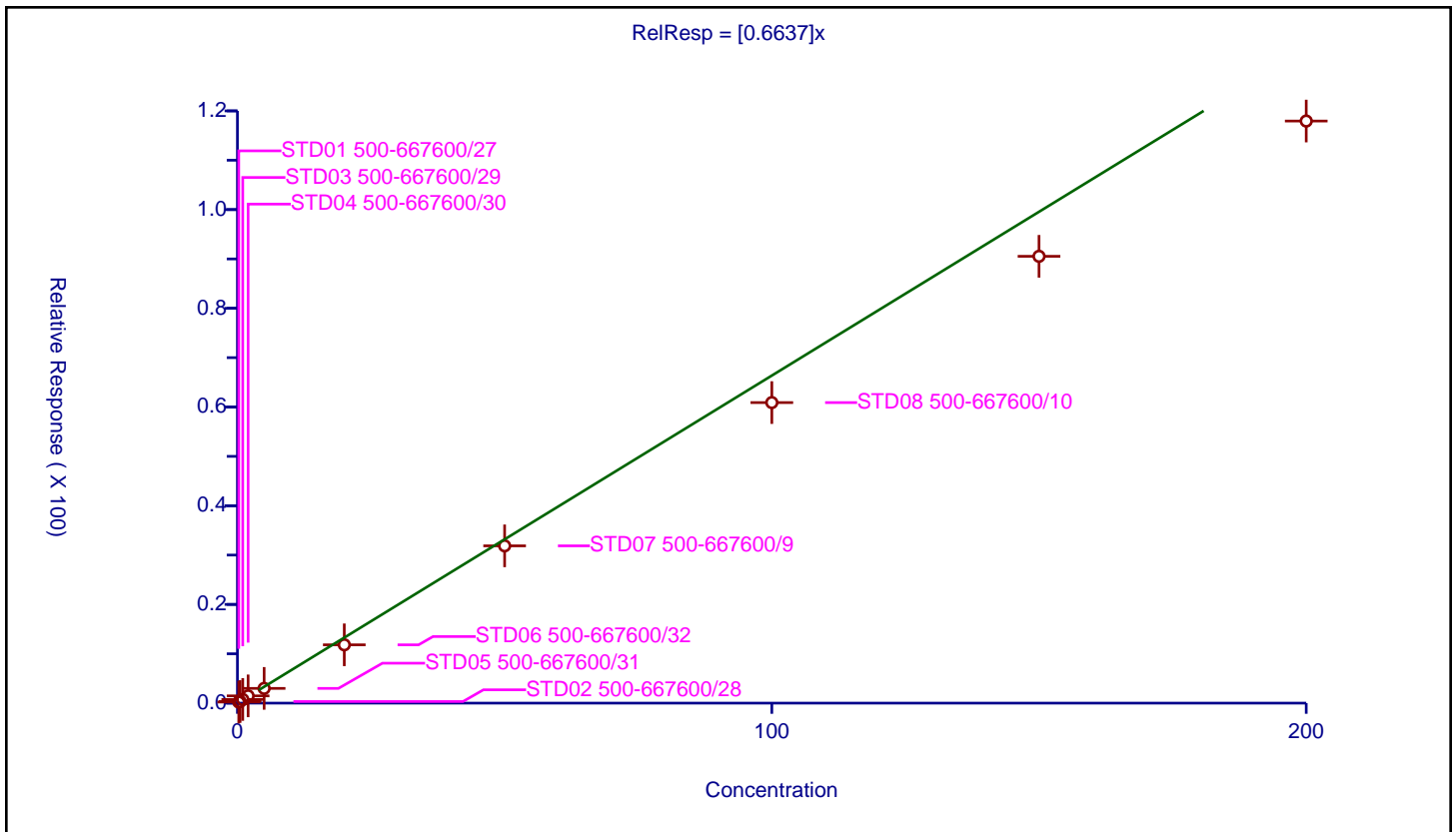
/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6637

Error Coefficients	
Standard Error:	451000
Relative Standard Error:	14.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.219097	50.0	339576.0	0.876387	Y
2	STD02 500-667600/28	0.5	0.326878	50.0	370780.0	0.653757	Y
3	STD03 500-667600/29	1.0	0.742943	50.0	382869.0	0.742943	Y
4	STD04 500-667600/30	2.0	1.472235	50.0	350114.0	0.736117	Y
5	STD05 500-667600/31	5.0	2.9857	50.0	377985.0	0.59714	Y
6	STD06 500-667600/32	20.0	11.816869	50.0	369658.0	0.590843	Y
7	STD07 500-667600/9	50.0	31.868386	50.0	380628.0	0.637368	Y
8	STD08 500-667600/10	100.0	60.896254	50.0	390414.0	0.608963	Y
9	STD09 500-667600/11	150.0	90.532499	50.0	413372.0	0.60355	Y
10	STD010 500-667600/12	200.0	117.942966	50.0	419925.0	0.589715	Y



Calibration

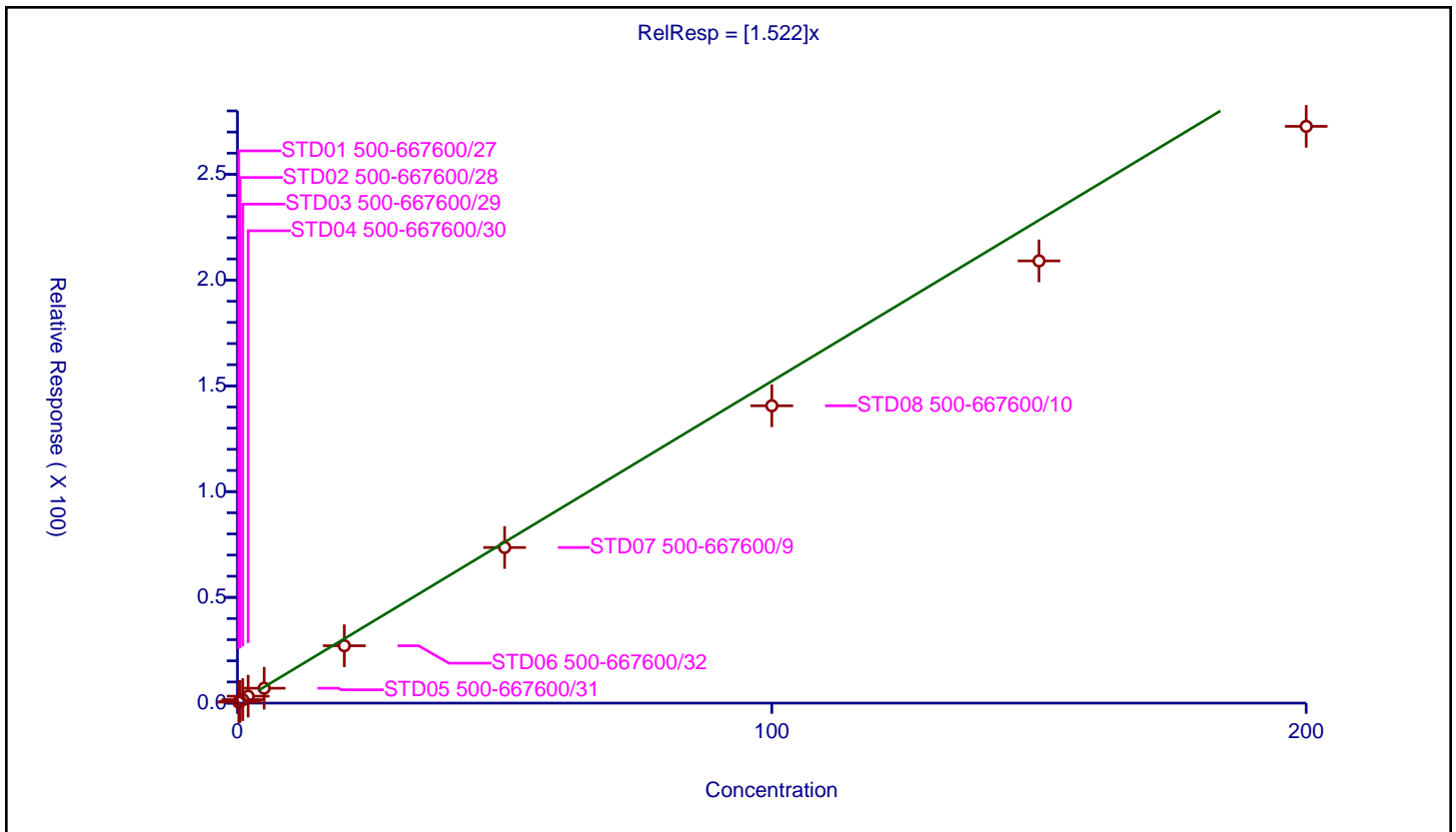
/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.522

Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.476477	50.0	339576.0	1.905906	Y
2	STD02 500-667600/28	0.5	0.819893	50.0	370780.0	1.639786	Y
3	STD03 500-667600/29	1.0	1.63855	50.0	382869.0	1.63855	Y
4	STD04 500-667600/30	2.0	3.276076	50.0	350114.0	1.638038	Y
5	STD05 500-667600/31	5.0	7.040359	50.0	377985.0	1.408072	Y
6	STD06 500-667600/32	20.0	27.127642	50.0	369658.0	1.356382	Y
7	STD07 500-667600/9	50.0	73.585364	50.0	380628.0	1.471707	Y
8	STD08 500-667600/10	100.0	140.59191	50.0	390414.0	1.405919	Y
9	STD09 500-667600/11	150.0	209.085279	50.0	413372.0	1.393902	Y
10	STD010 500-667600/12	200.0	272.700006	50.0	419925.0	1.3635	Y



Calibration

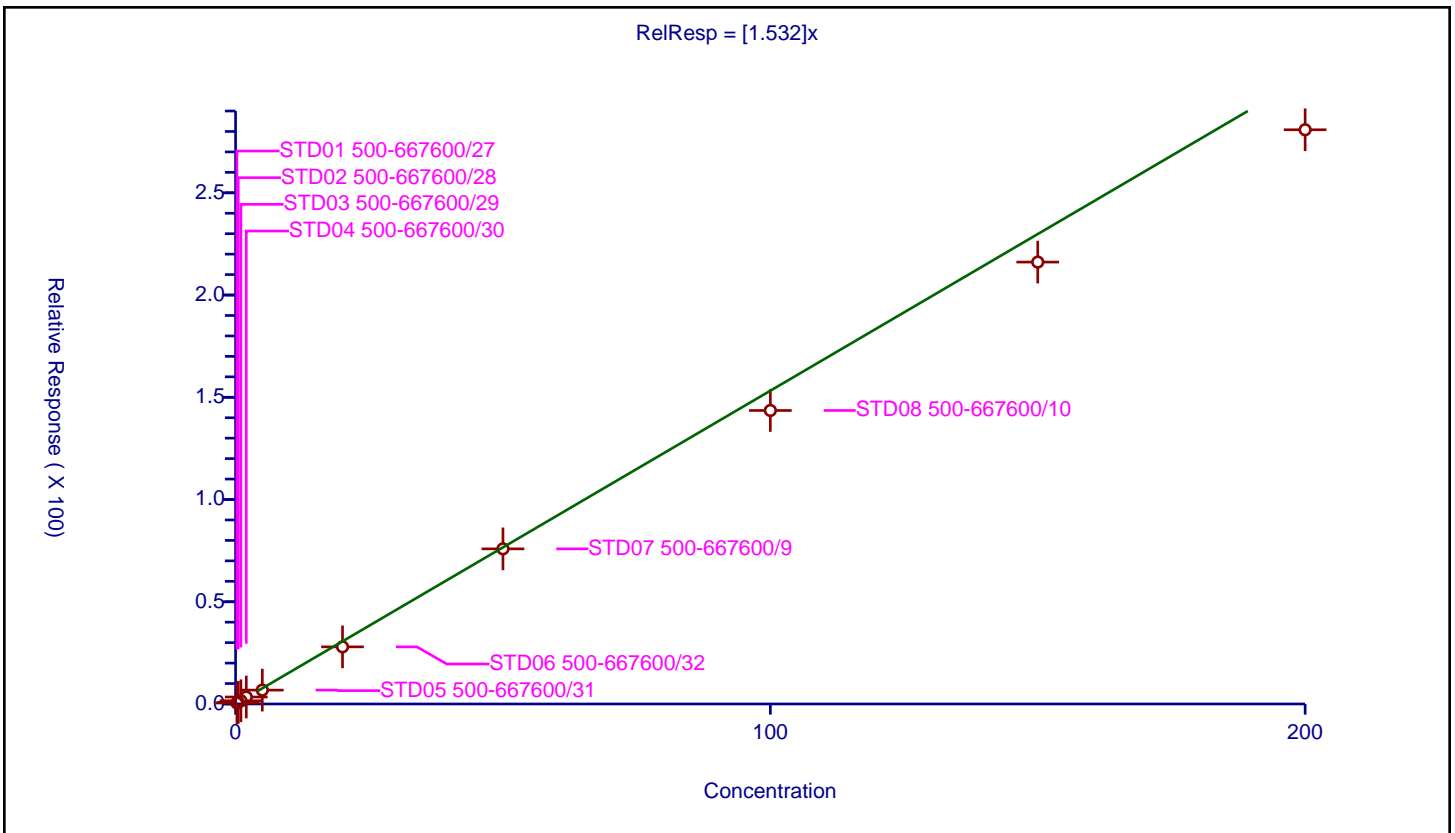
/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.532

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-667600/27	0.25	0.481041	50.0	339576.0	1.924164	Y
2	STD02 500-667600/28	0.5	0.782135	50.0	370780.0	1.56427	Y
3	STD03 500-667600/29	1.0	1.573515	50.0	382869.0	1.573515	Y
4	STD04 500-667600/30	2.0	3.410461	50.0	350114.0	1.70523	Y
5	STD05 500-667600/31	5.0	6.793259	50.0	377985.0	1.358652	Y
6	STD06 500-667600/32	20.0	27.942044	50.0	369658.0	1.397102	Y
7	STD07 500-667600/9	50.0	75.867645	50.0	380628.0	1.517353	Y
8	STD08 500-667600/10	100.0	143.537501	50.0	390414.0	1.435375	Y
9	STD09 500-667600/11	150.0	216.114904	50.0	413372.0	1.440766	Y
10	STD010 500-667600/12	200.0	280.829672	50.0	419925.0	1.404148	Y



Calibration

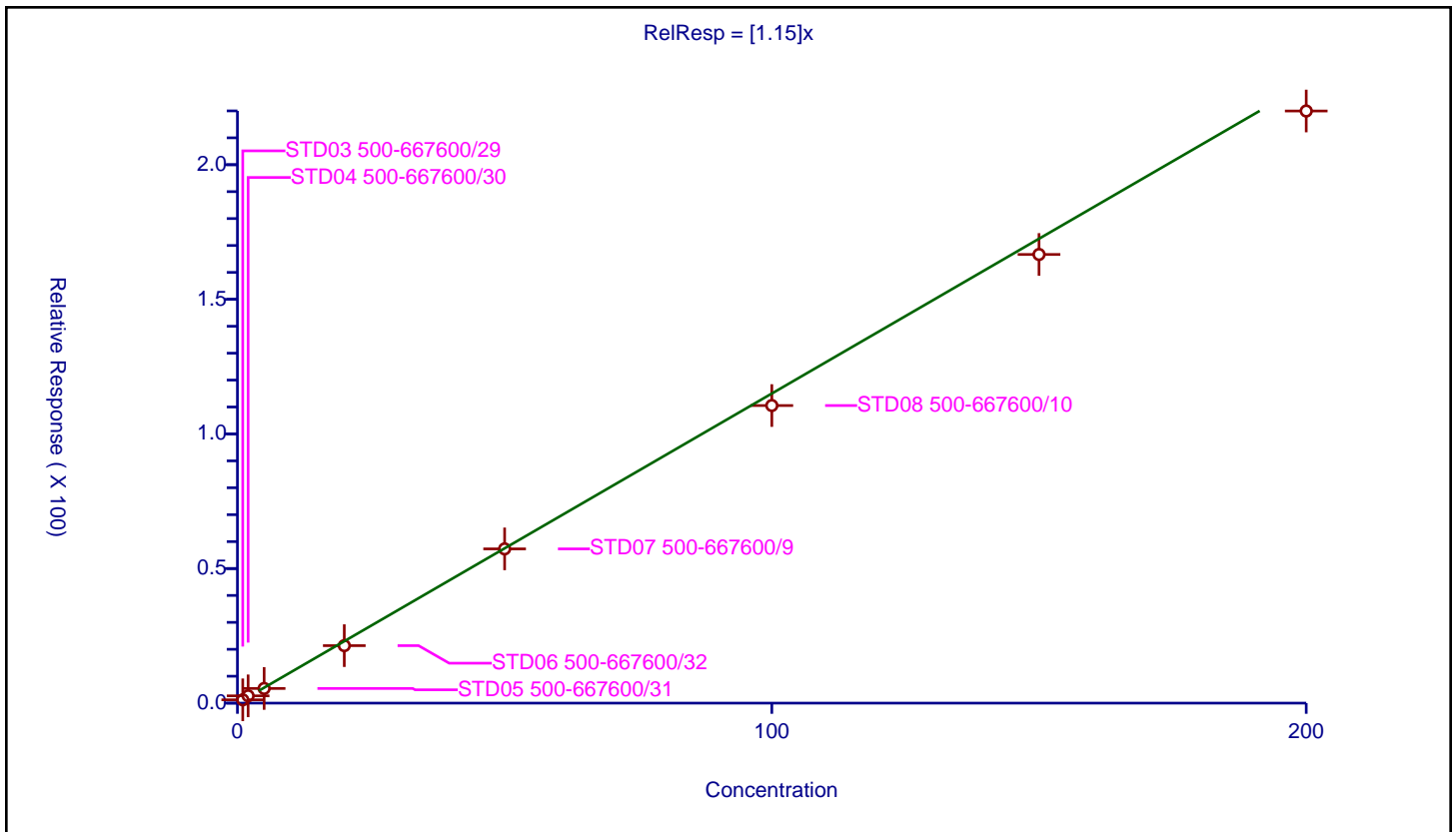
/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.15

Error Coefficients	
Standard Error:	947000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.227313	50.0	382869.0	1.227313	Y
2	STD04 500-667600/30	2.0	2.707832	50.0	350114.0	1.353916	Y
3	STD05 500-667600/31	5.0	5.446909	50.0	377985.0	1.089382	Y
4	STD06 500-667600/32	20.0	21.351222	50.0	369658.0	1.067561	Y
5	STD07 500-667600/9	50.0	57.295312	50.0	380628.0	1.145906	Y
6	STD08 500-667600/10	100.0	110.544448	50.0	390414.0	1.105444	Y
7	STD09 500-667600/11	150.0	166.66332	50.0	413372.0	1.111089	Y
8	STD010 500-667600/12	200.0	219.958564	50.0	419925.0	1.099793	Y



Calibration

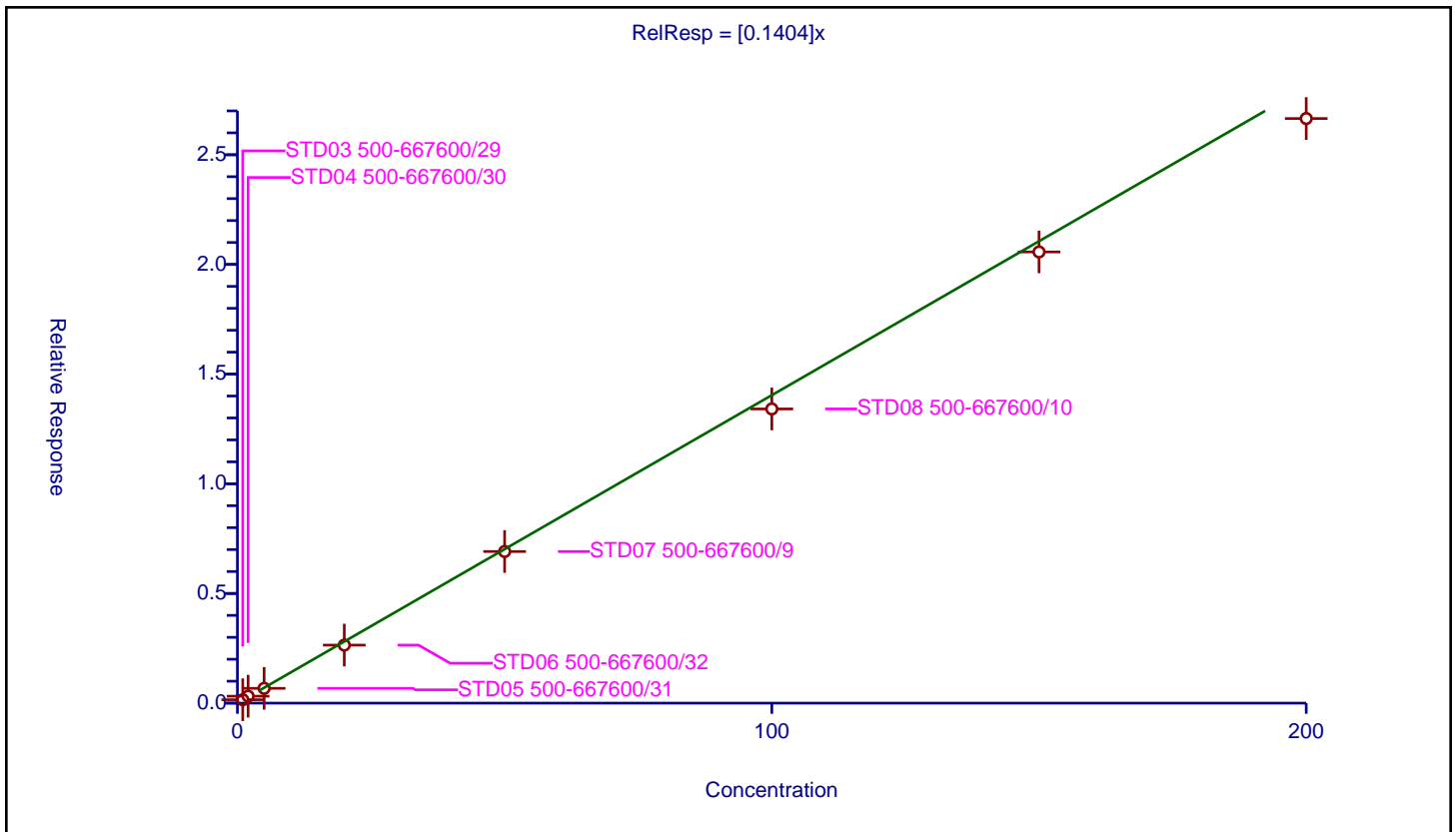
/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1404

Error Coefficients	
Standard Error:	115000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.154883	50.0	382869.0	0.154883	Y
2	STD04 500-667600/30	2.0	0.316611	50.0	350114.0	0.158306	Y
3	STD05 500-667600/31	5.0	0.674762	50.0	377985.0	0.134952	Y
4	STD06 500-667600/32	20.0	2.644607	50.0	369658.0	0.13223	Y
5	STD07 500-667600/9	50.0	6.911867	50.0	380628.0	0.138237	Y
6	STD08 500-667600/10	100.0	13.411276	50.0	390414.0	0.134113	Y
7	STD09 500-667600/11	150.0	20.569366	50.0	413372.0	0.137129	Y
8	STD010 500-667600/12	200.0	26.651188	50.0	419925.0	0.133256	Y



Calibration

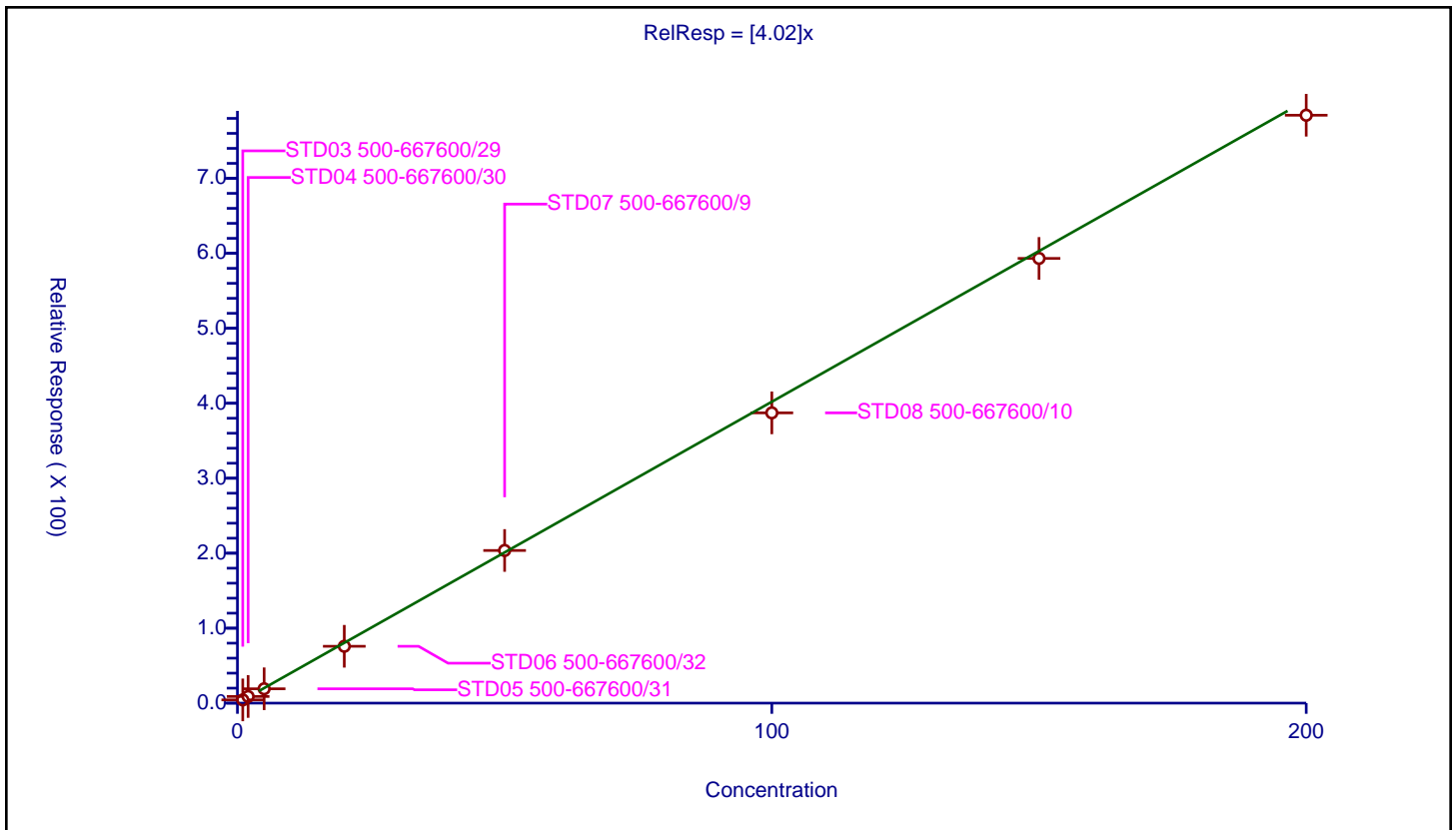
/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.02

Error Coefficients	
Standard Error:	1710000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	4.300182	50.0	191457.0	4.300182	Y
2	STD04 500-667600/30	2.0	8.847379	50.0	178940.0	4.42369	Y
3	STD05 500-667600/31	5.0	19.128106	50.0	187993.0	3.825621	Y
4	STD06 500-667600/32	20.0	75.815284	50.0	188278.0	3.790764	Y
5	STD07 500-667600/9	50.0	203.639545	50.0	198294.0	4.072791	Y
6	STD08 500-667600/10	100.0	387.192385	50.0	203867.0	3.871924	Y
7	STD09 500-667600/11	150.0	593.228405	50.0	210748.0	3.954856	Y
8	STD010 500-667600/12	200.0	784.199327	50.0	212184.0	3.920997	Y



Calibration

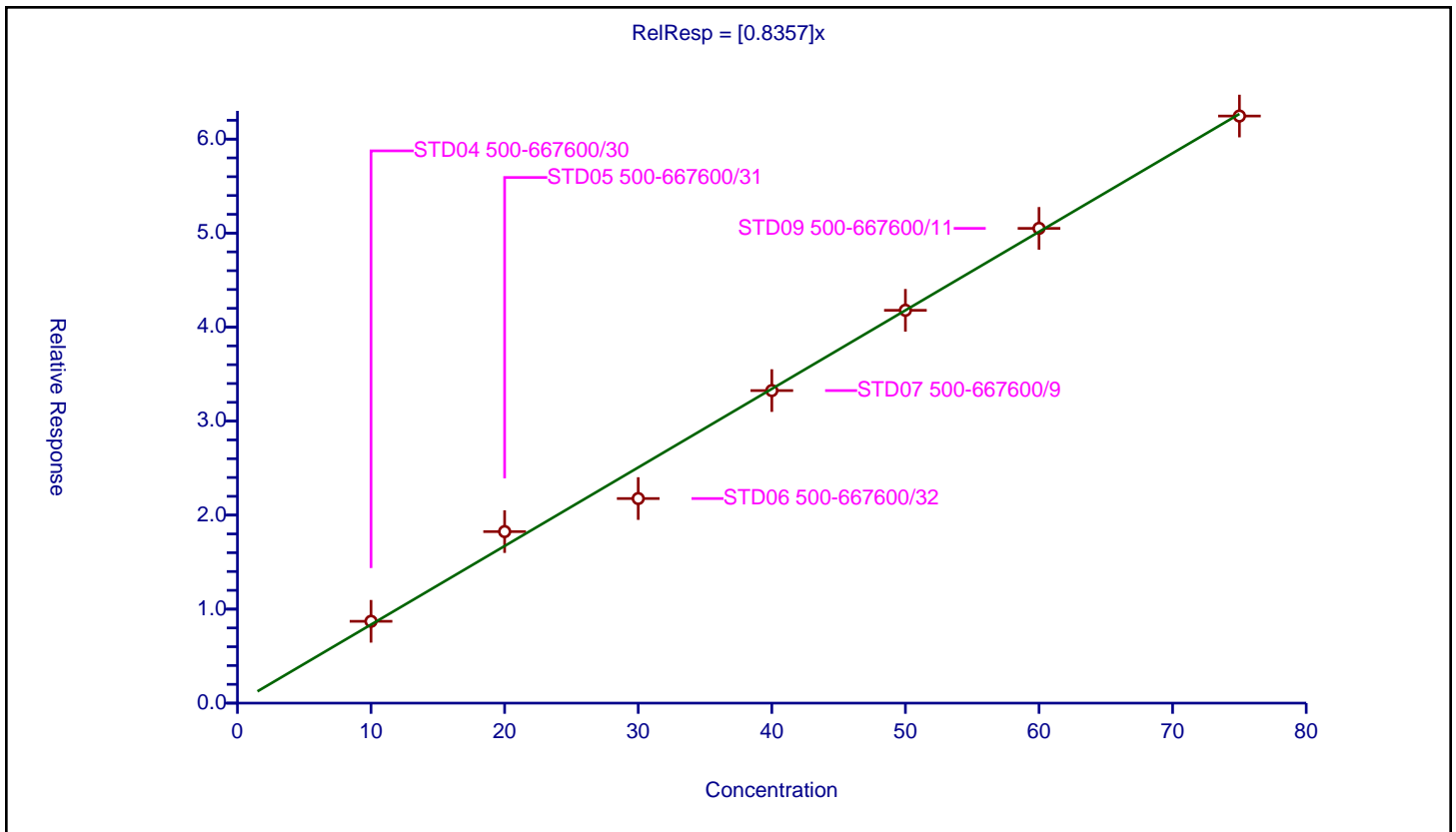
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8357

Error Coefficients	
Standard Error:	170000
Relative Standard Error:	6.8
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-667600/30	10.0	8.703755	50.0	178940.0	0.870376	Y
2	STD05 500-667600/31	20.0	18.247754	50.0	187993.0	0.912388	Y
3	STD06 500-667600/32	30.0	21.764359	50.0	188278.0	0.725479	Y
4	STD07 500-667600/9	40.0	33.24735	50.0	198294.0	0.831184	Y
5	STD08 500-667600/10	50.0	41.787783	50.0	203867.0	0.835756	Y
6	STD09 500-667600/11	60.0	50.502259	50.0	210748.0	0.841704	Y
7	STD010 500-667600/12	75.0	62.452871	50.0	212184.0	0.832705	Y



Calibration

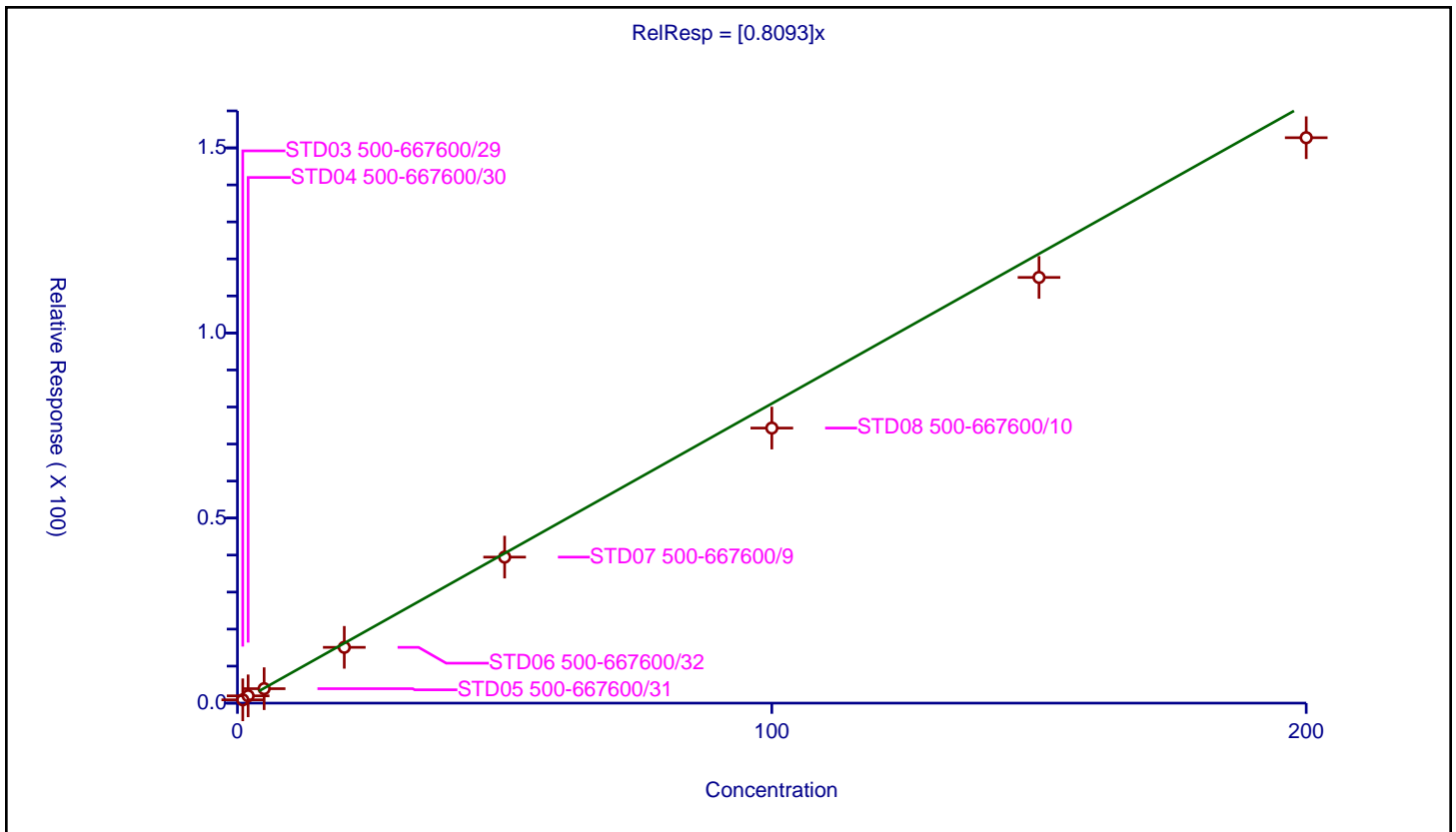
/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8093

Error Coefficients	
Standard Error:	333000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.894196	50.0	191457.0	0.894196	Y
2	STD04 500-667600/30	2.0	1.96686	50.0	178940.0	0.98343	Y
3	STD05 500-667600/31	5.0	3.900943	50.0	187993.0	0.780189	Y
4	STD06 500-667600/32	20.0	15.072924	50.0	188278.0	0.753646	Y
5	STD07 500-667600/9	50.0	39.451017	50.0	198294.0	0.78902	Y
6	STD08 500-667600/10	100.0	74.310703	50.0	203867.0	0.743107	Y
7	STD09 500-667600/11	150.0	115.004887	50.0	210748.0	0.766699	Y
8	STD010 500-667600/12	200.0	152.755863	50.0	212184.0	0.763779	Y



Calibration

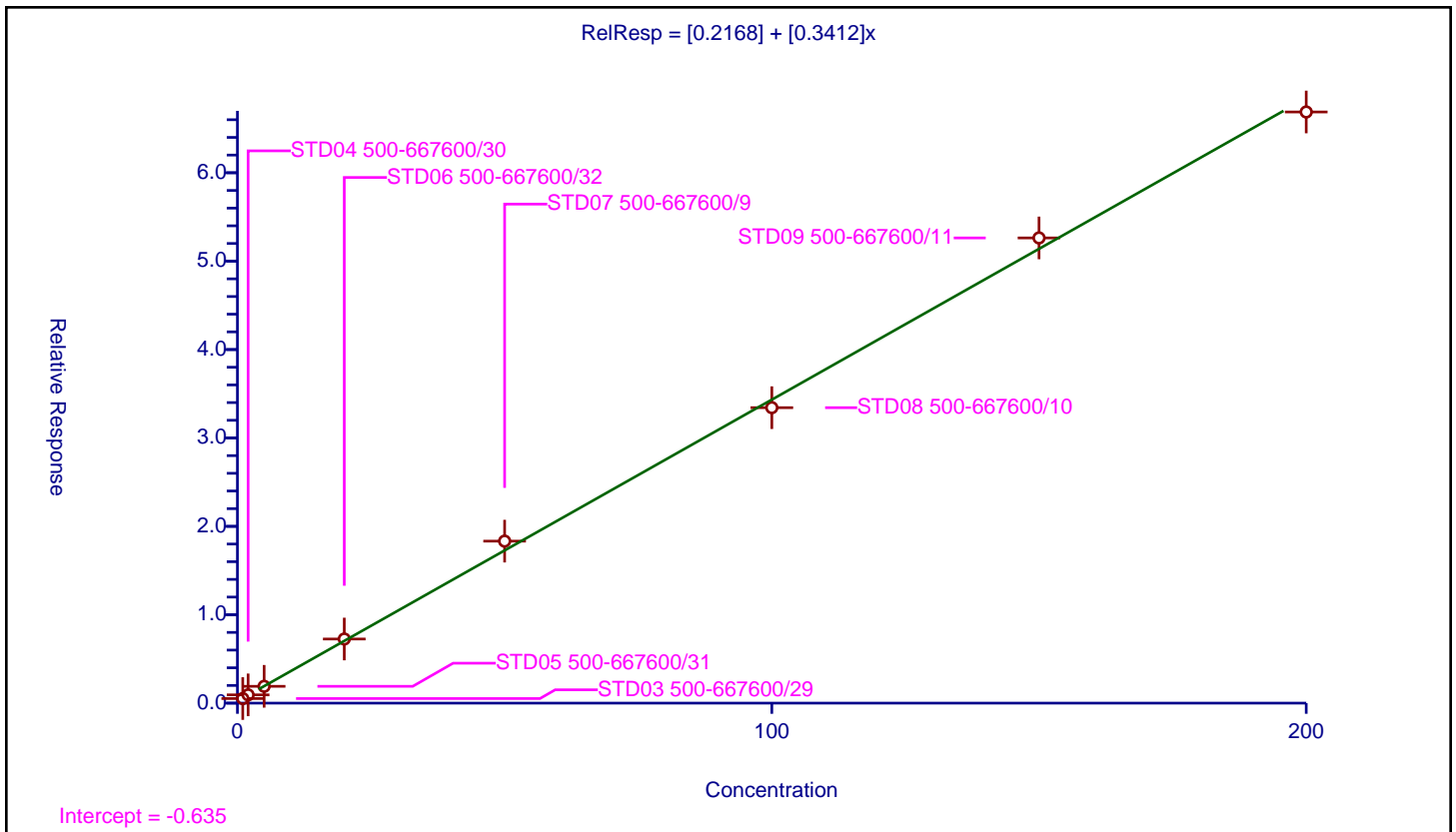
/ 1,1,2,2-Tetrachloroethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2168
Slope:	0.3412

Error Coefficients	
Standard Error:	160000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.520221	50.0	191457.0	0.520221	Y
2	STD04 500-667600/30	2.0	0.936627	50.0	178940.0	0.468313	Y
3	STD05 500-667600/31	5.0	1.902198	50.0	187993.0	0.38044	Y
4	STD06 500-667600/32	20.0	7.255229	50.0	188278.0	0.362761	Y
5	STD07 500-667600/9	50.0	18.328089	50.0	198294.0	0.366562	Y
6	STD08 500-667600/10	100.0	33.423997	50.0	203867.0	0.33424	Y
7	STD09 500-667600/11	150.0	52.628257	50.0	210748.0	0.350855	Y
8	STD010 500-667600/12	200.0	66.876626	50.0	212184.0	0.334383	Y



Calibration

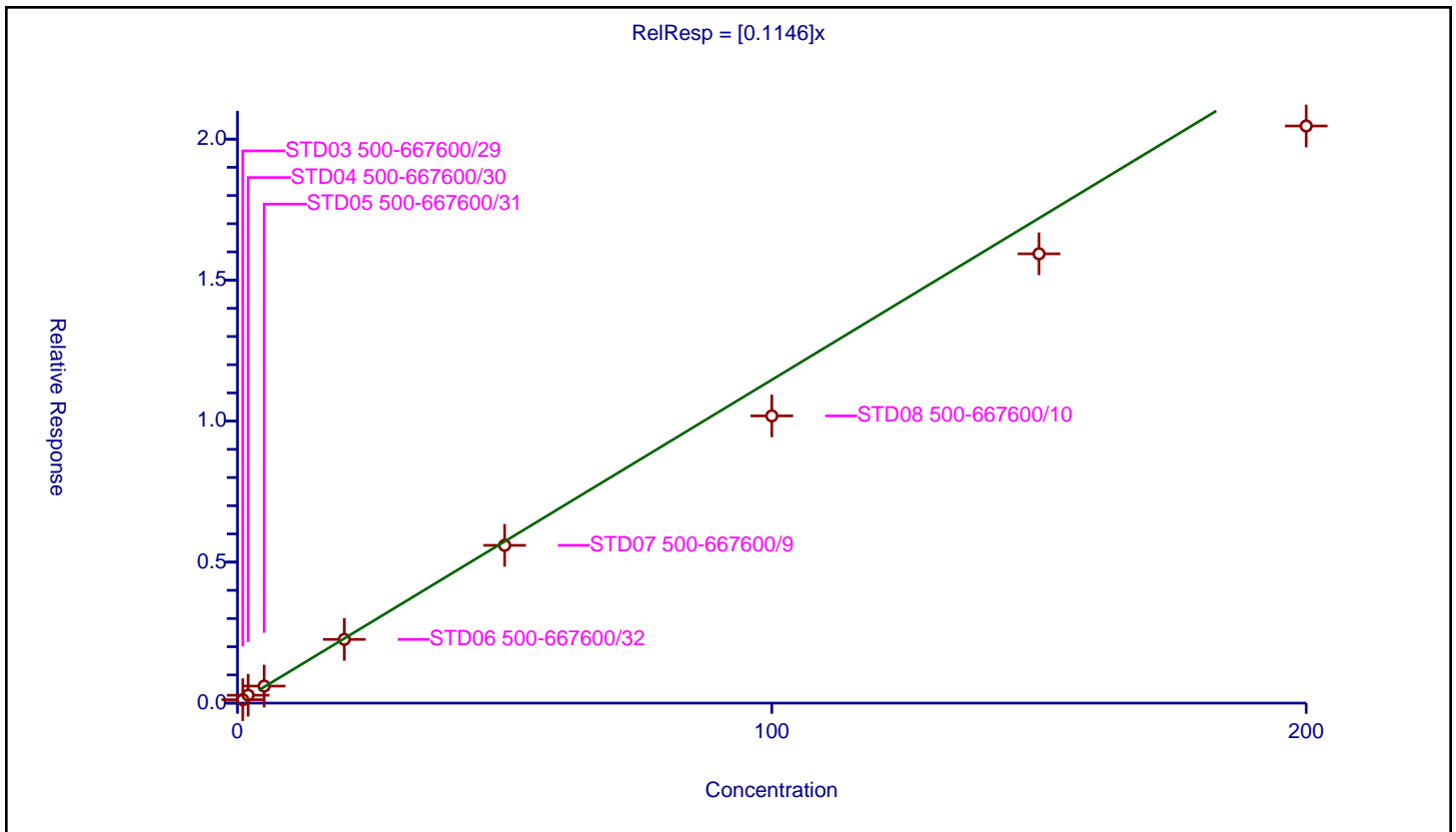
/ 1,2,3-Trichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1146

Error Coefficients	
Standard Error:	45300
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.121176	50.0	191457.0	0.121176	Y
2	STD04 500-667600/30	2.0	0.279982	50.0	178940.0	0.139991	Y
3	STD05 500-667600/31	5.0	0.60348	50.0	187993.0	0.120696	Y
4	STD06 500-667600/32	20.0	2.25969	50.0	188278.0	0.112985	Y
5	STD07 500-667600/9	50.0	5.594723	50.0	198294.0	0.111894	Y
6	STD08 500-667600/10	100.0	10.184336	50.0	203867.0	0.101843	Y
7	STD09 500-667600/11	150.0	15.932536	50.0	210748.0	0.106217	Y
8	STD010 500-667600/12	200.0	20.465257	50.0	212184.0	0.102326	Y



Calibration

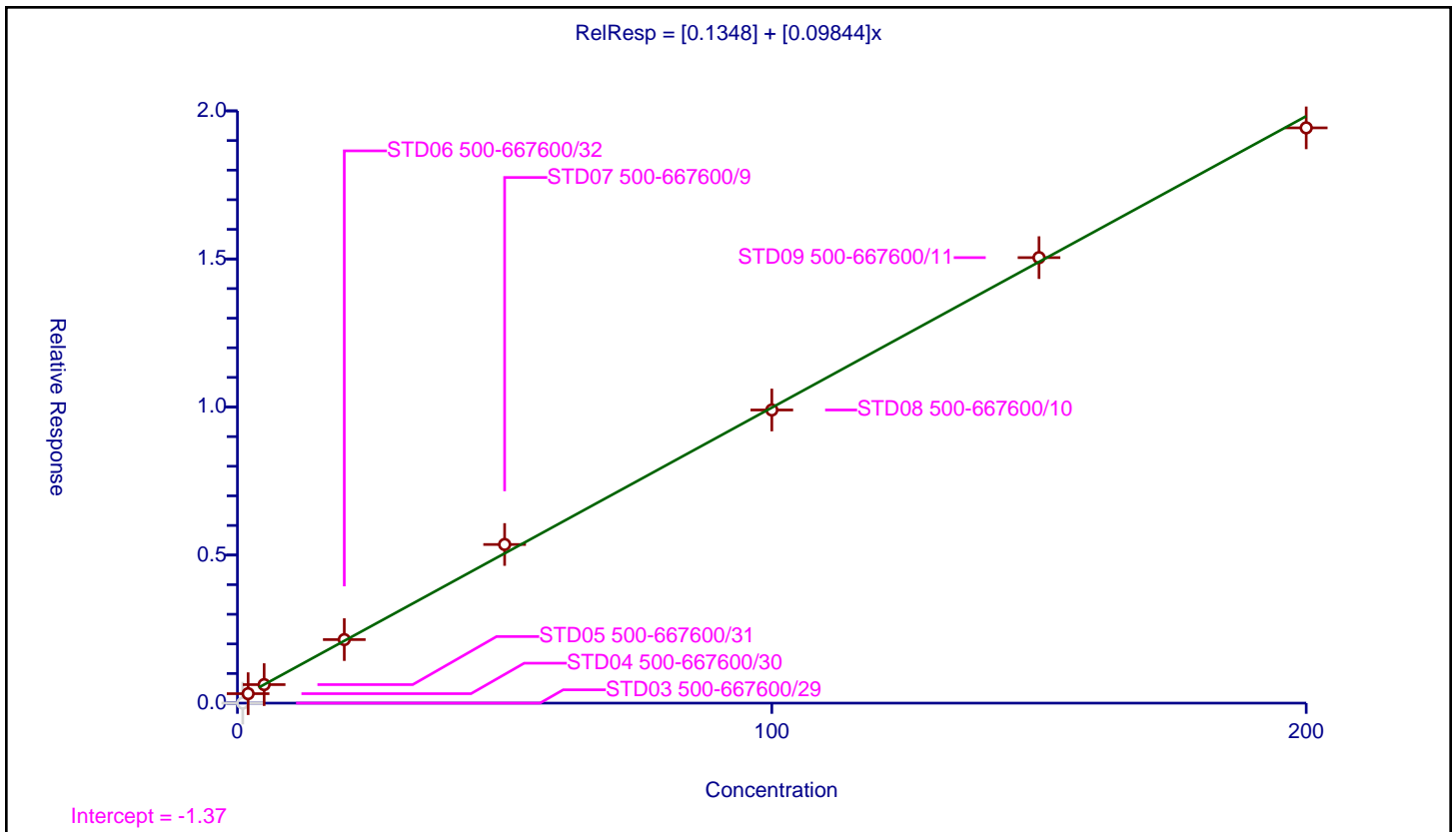
/ trans-1,4-Dichloro-2-butene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1348
Slope:	0.09844

Error Coefficients	
Standard Error:	50900
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	191457.0	0.0	N
2	STD04 500-667600/30	2.0	0.31966	50.0	178940.0	0.15983	Y
3	STD05 500-667600/31	5.0	0.625555	50.0	187993.0	0.125111	Y
4	STD06 500-667600/32	20.0	2.145498	50.0	188278.0	0.107275	Y
5	STD07 500-667600/9	50.0	5.357449	50.0	198294.0	0.107149	Y
6	STD08 500-667600/10	100.0	9.899101	50.0	203867.0	0.098991	Y
7	STD09 500-667600/11	150.0	15.04522	50.0	210748.0	0.100301	Y
8	STD010 500-667600/12	200.0	19.427242	50.0	212184.0	0.097136	Y



Calibration

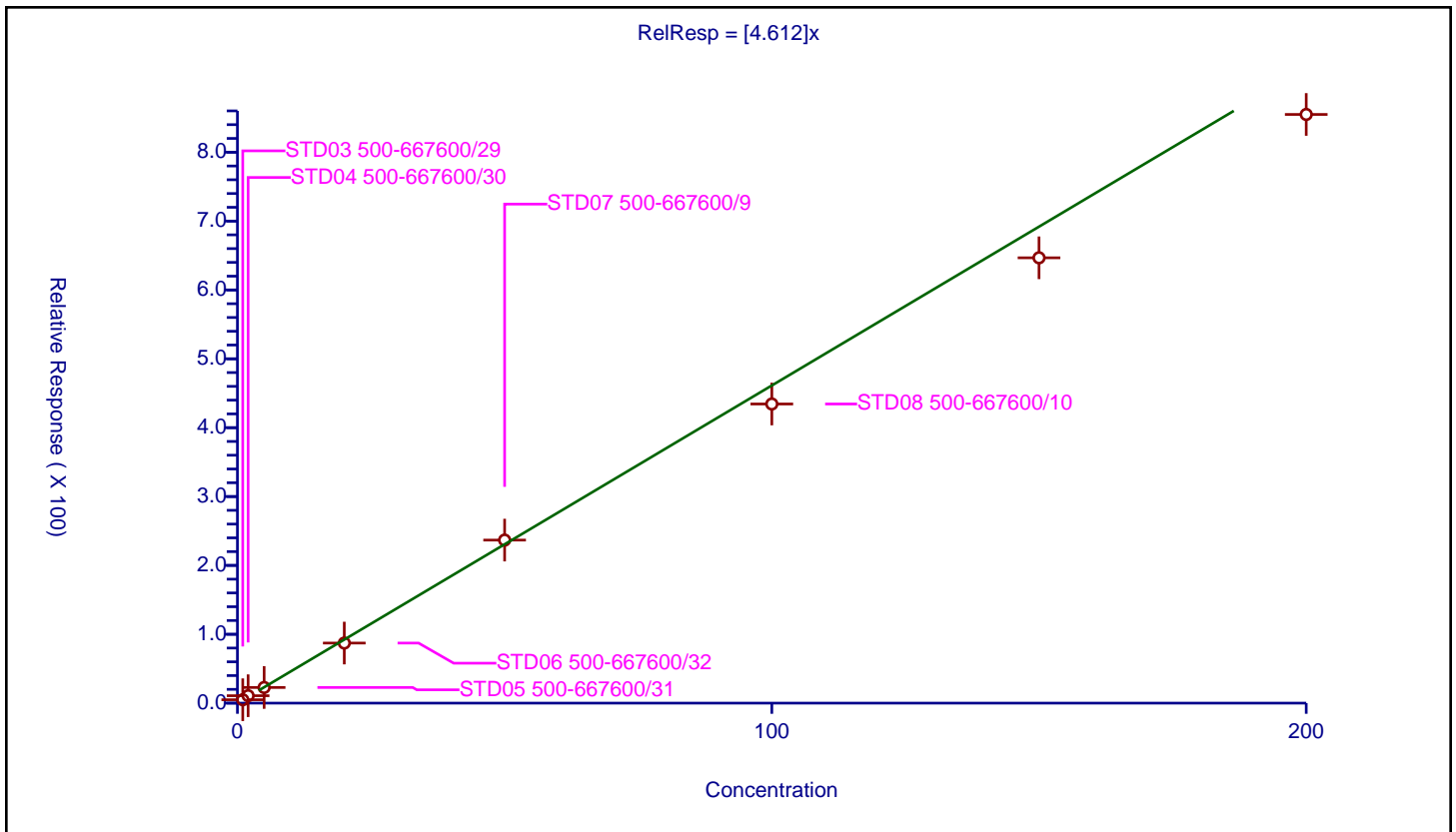
/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.612

Error Coefficients	
Standard Error:	1880000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	4.942363	50.0	191457.0	4.942363	Y
2	STD04 500-667600/30	2.0	10.781826	50.0	178940.0	5.390913	Y
3	STD05 500-667600/31	5.0	22.702441	50.0	187993.0	4.540488	Y
4	STD06 500-667600/32	20.0	87.244659	50.0	188278.0	4.362233	Y
5	STD07 500-667600/9	50.0	236.745691	50.0	198294.0	4.734914	Y
6	STD08 500-667600/10	100.0	434.39203	50.0	203867.0	4.34392	Y
7	STD09 500-667600/11	150.0	646.665923	50.0	210748.0	4.311106	Y
8	STD010 500-667600/12	200.0	854.81139	50.0	212184.0	4.274057	Y



Calibration

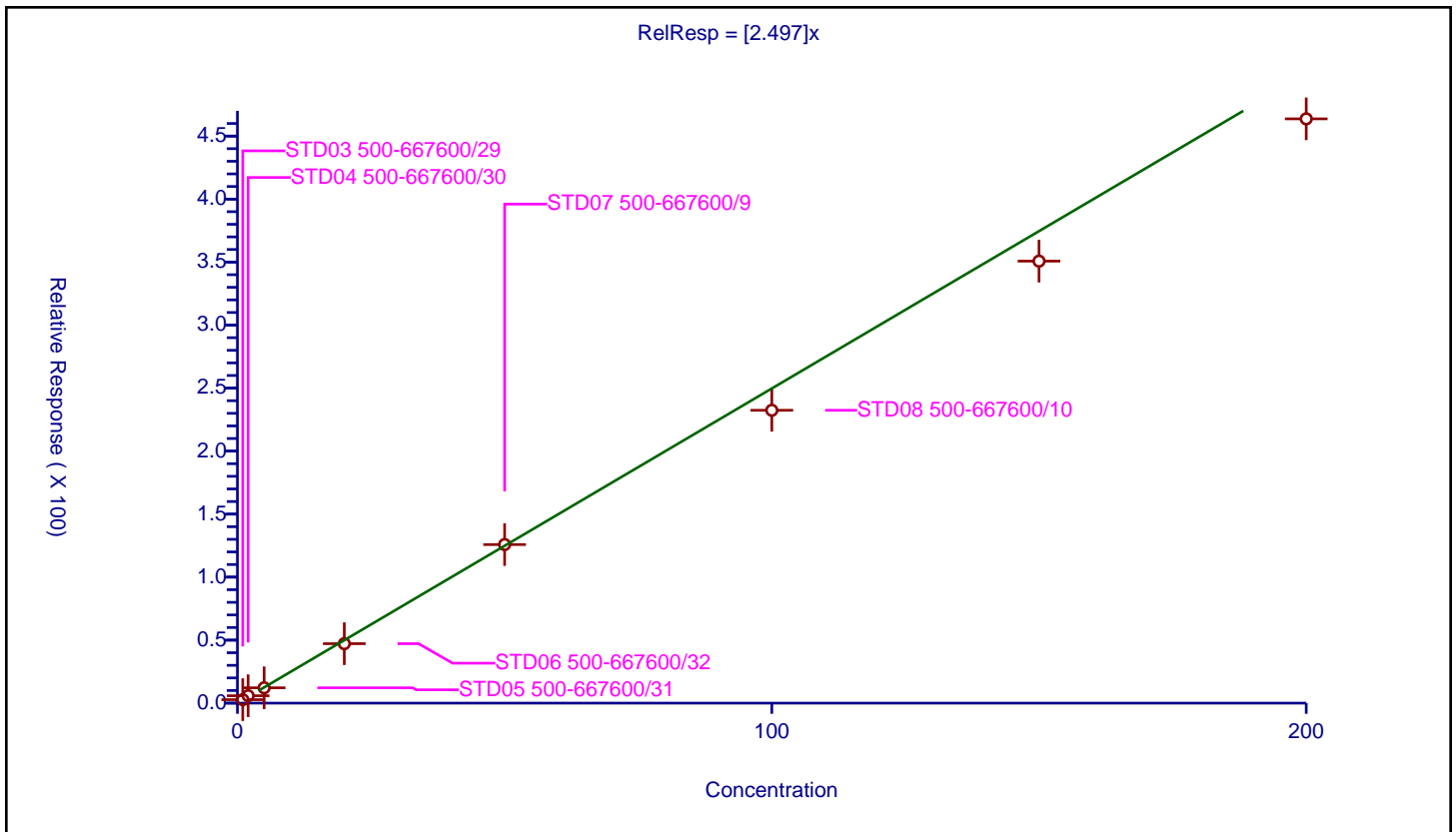
/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.497

Error Coefficients	
Standard Error:	1020000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	2.753621	50.0	191457.0	2.753621	Y
2	STD04 500-667600/30	2.0	5.863697	50.0	178940.0	2.931849	Y
3	STD05 500-667600/31	5.0	12.171198	50.0	187993.0	2.43424	Y
4	STD06 500-667600/32	20.0	47.185014	50.0	188278.0	2.359251	Y
5	STD07 500-667600/9	50.0	125.829828	50.0	198294.0	2.516597	Y
6	STD08 500-667600/10	100.0	232.403233	50.0	203867.0	2.324032	Y
7	STD09 500-667600/11	150.0	350.77913	50.0	210748.0	2.338528	Y
8	STD010 500-667600/12	200.0	463.687884	50.0	212184.0	2.318439	Y



Calibration

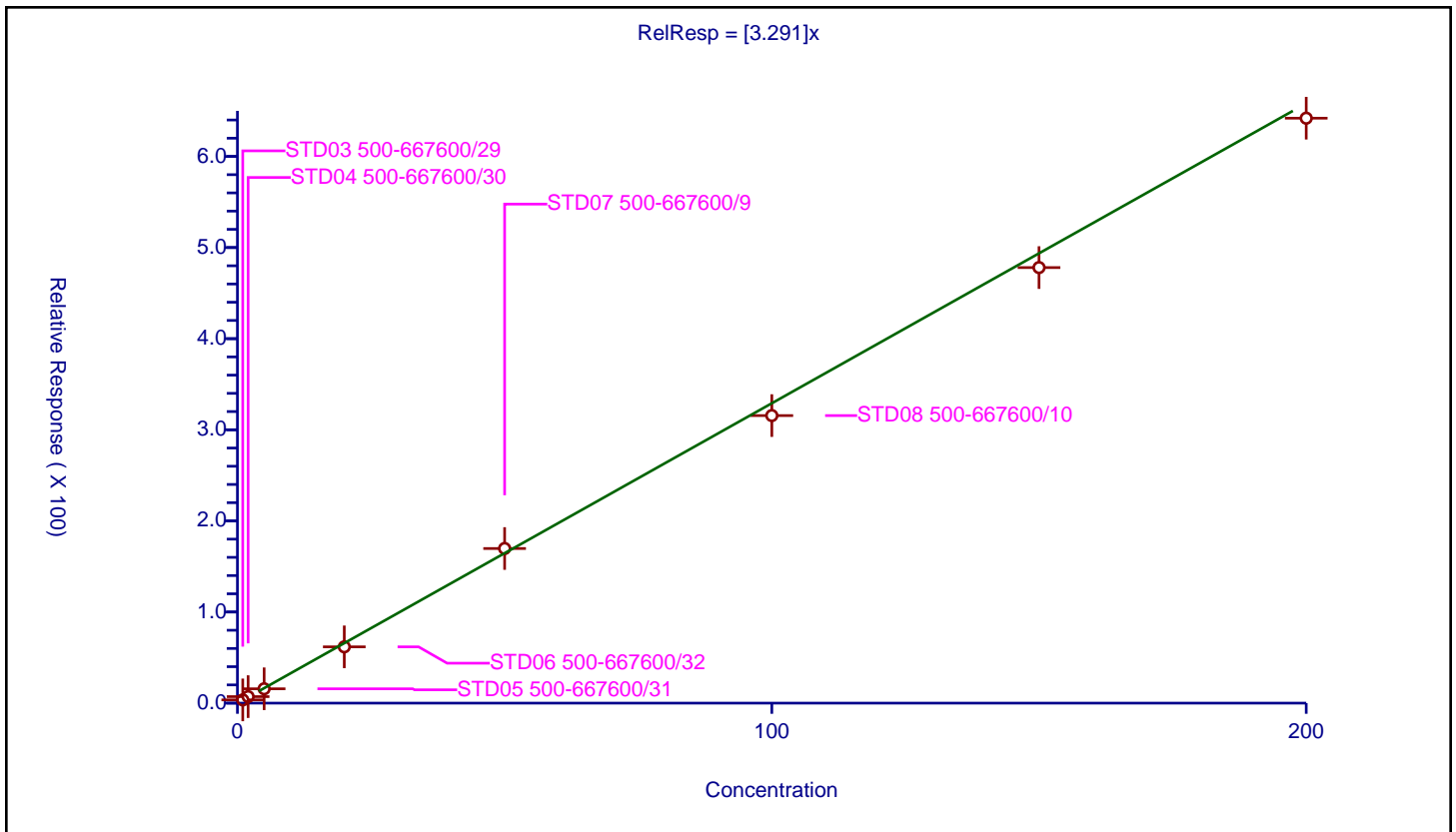
/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.291

Error Coefficients	
Standard Error:	1400000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	3.565291	50.0	191457.0	3.565291	Y
2	STD04 500-667600/30	2.0	7.156309	50.0	178940.0	3.578155	Y
3	STD05 500-667600/31	5.0	15.741544	50.0	187993.0	3.148309	Y
4	STD06 500-667600/32	20.0	61.792403	50.0	188278.0	3.08962	Y
5	STD07 500-667600/9	50.0	169.715927	50.0	198294.0	3.394319	Y
6	STD08 500-667600/10	100.0	315.601593	50.0	203867.0	3.156016	Y
7	STD09 500-667600/11	150.0	478.037039	50.0	210748.0	3.186914	Y
8	STD010 500-667600/12	200.0	641.985022	50.0	212184.0	3.209925	Y



Calibration

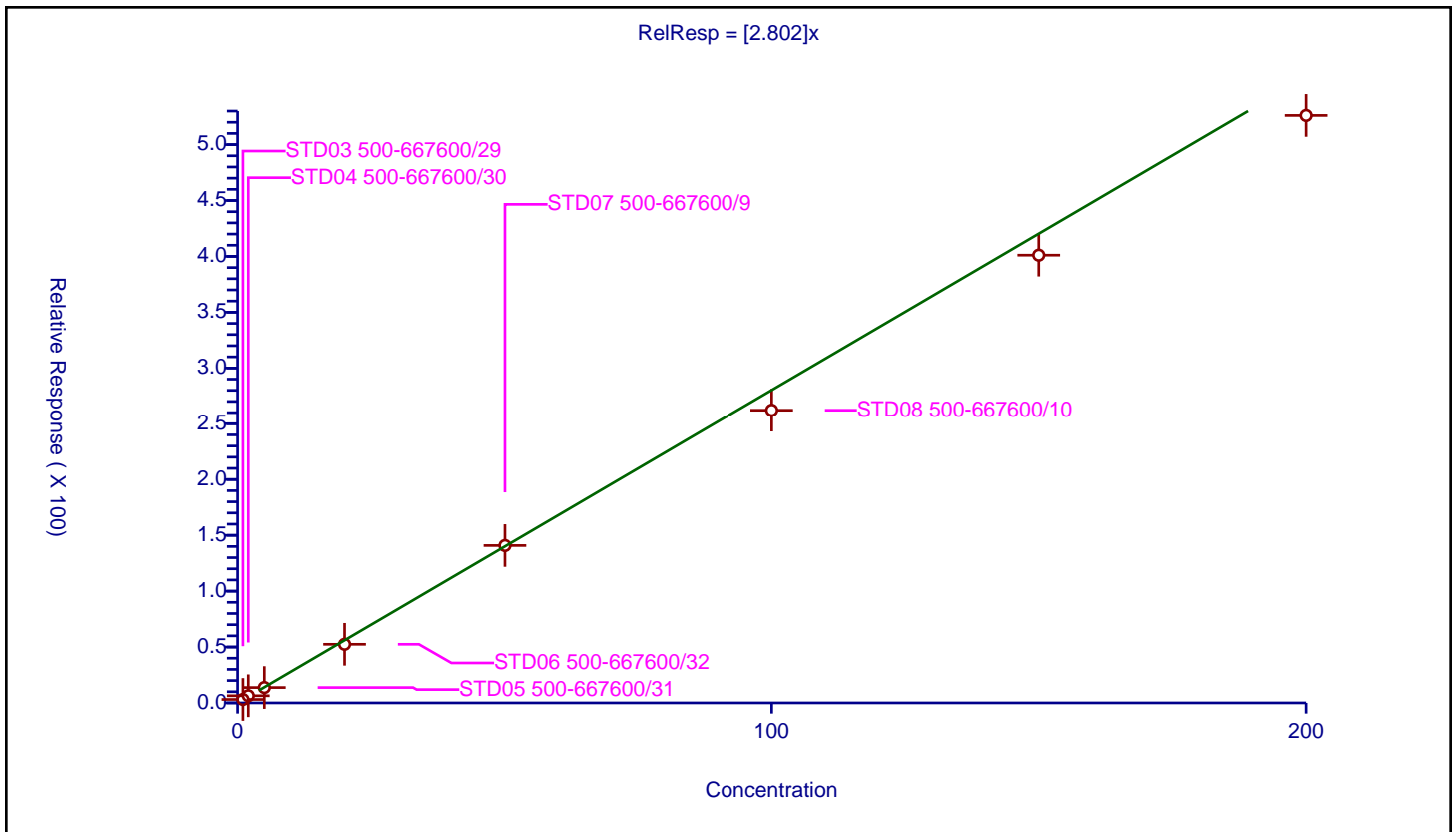
/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.802

Error Coefficients	
Standard Error:	1150000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	3.096779	50.0	191457.0	3.096779	Y
2	STD04 500-667600/30	2.0	6.407455	50.0	178940.0	3.203728	Y
3	STD05 500-667600/31	5.0	13.74998	50.0	187993.0	2.749996	Y
4	STD06 500-667600/32	20.0	52.445586	50.0	188278.0	2.622279	Y
5	STD07 500-667600/9	50.0	140.884999	50.0	198294.0	2.8177	Y
6	STD08 500-667600/10	100.0	262.139042	50.0	203867.0	2.62139	Y
7	STD09 500-667600/11	150.0	401.109619	50.0	210748.0	2.674064	Y
8	STD010 500-667600/12	200.0	526.094098	50.0	212184.0	2.63047	Y



Calibration

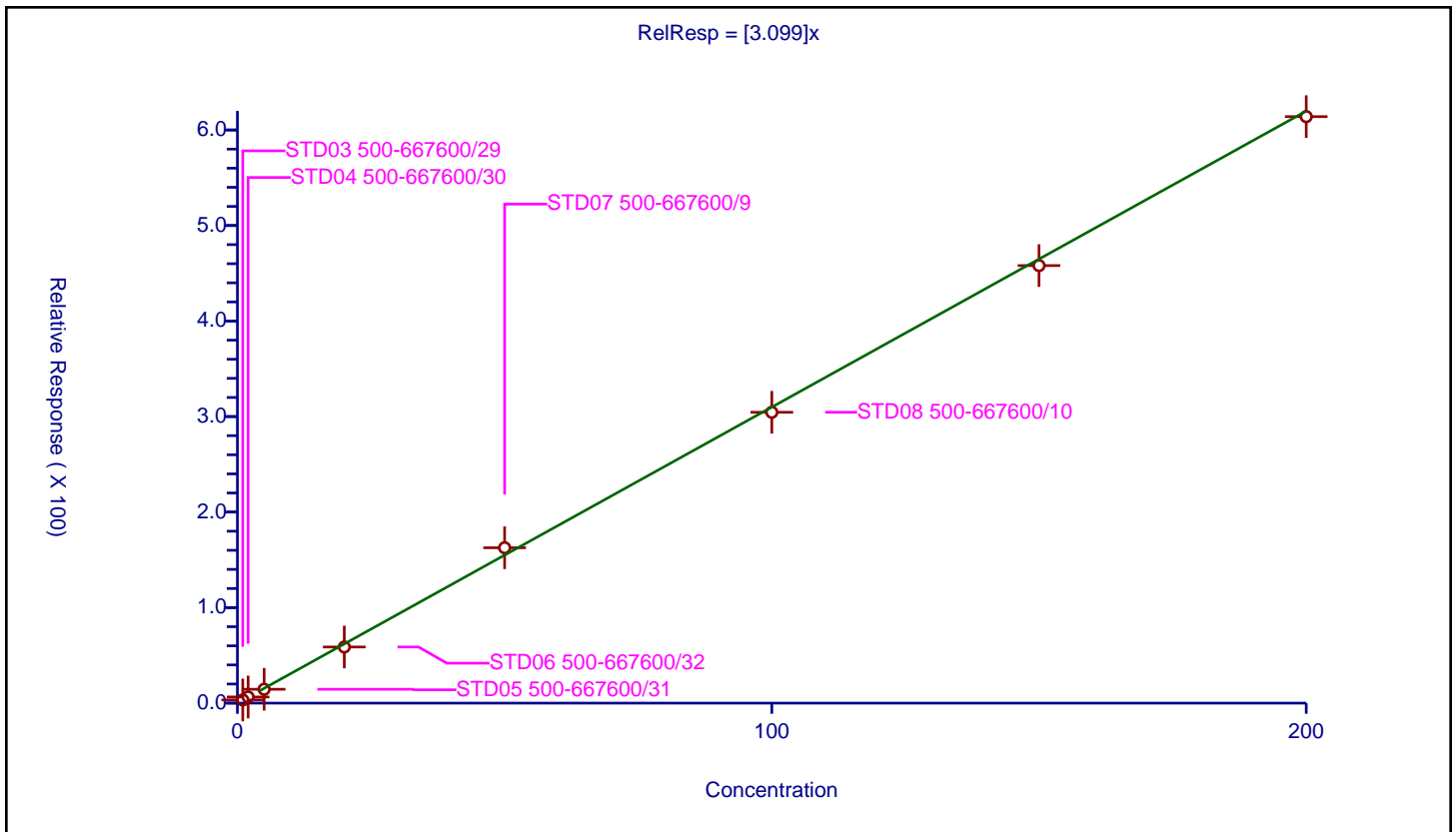
/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.099

Error Coefficients	
Standard Error:	1340000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	3.315105	50.0	191457.0	3.315105	Y
2	STD04 500-667600/30	2.0	6.430647	50.0	178940.0	3.215324	Y
3	STD05 500-667600/31	5.0	14.507987	50.0	187993.0	2.901597	Y
4	STD06 500-667600/32	20.0	58.765761	50.0	188278.0	2.938288	Y
5	STD07 500-667600/9	50.0	162.648391	50.0	198294.0	3.252968	Y
6	STD08 500-667600/10	100.0	304.484541	50.0	203867.0	3.044845	Y
7	STD09 500-667600/11	150.0	458.070776	50.0	210748.0	3.053805	Y
8	STD010 500-667600/12	200.0	613.981262	50.0	212184.0	3.069906	Y



Calibration

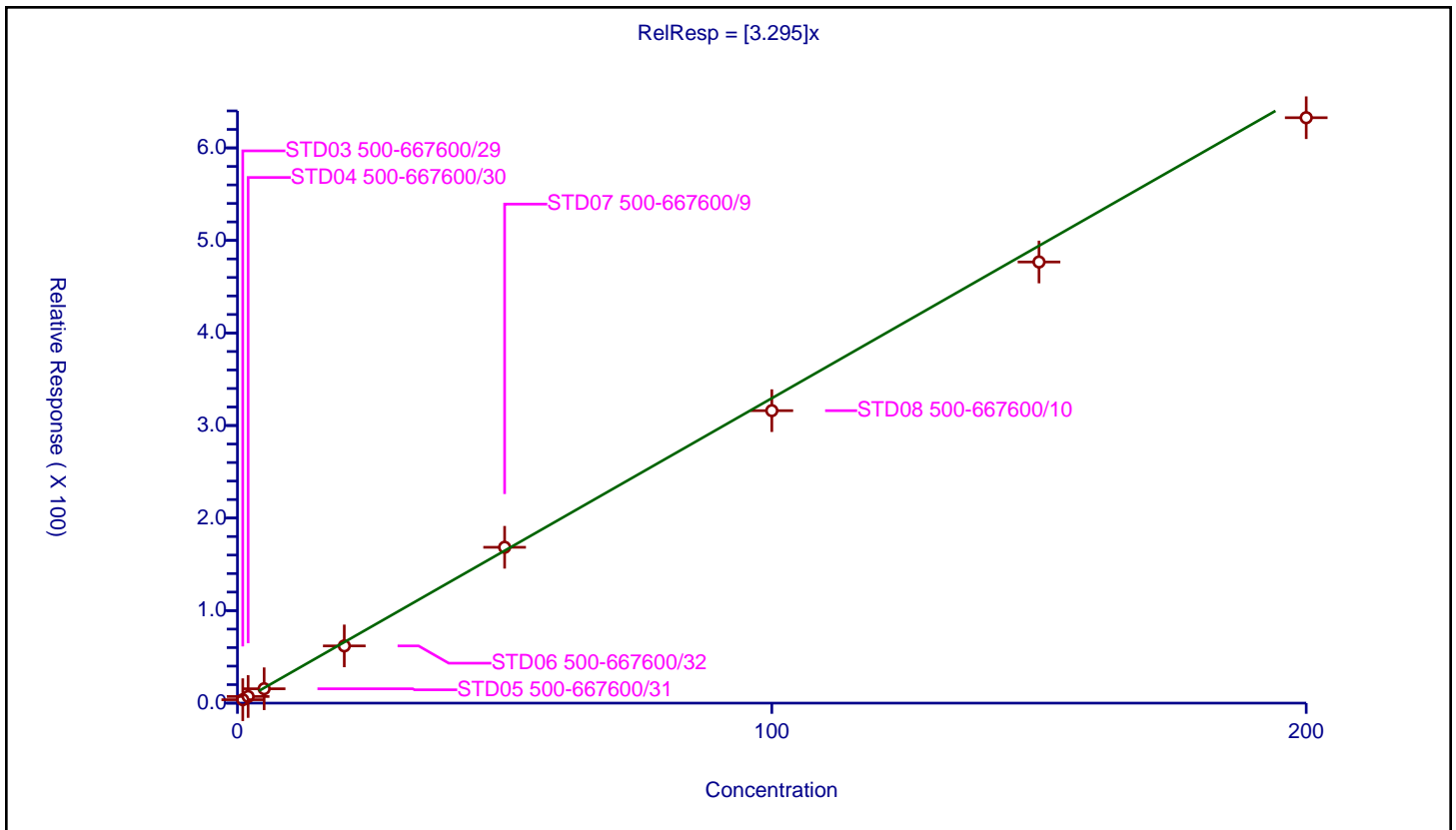
/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.295

Error Coefficients	
Standard Error:	1380000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	3.712583	50.0	191457.0	3.712583	Y
2	STD04 500-667600/30	2.0	7.15603	50.0	178940.0	3.578015	Y
3	STD05 500-667600/31	5.0	15.529834	50.0	187993.0	3.105967	Y
4	STD06 500-667600/32	20.0	61.83091	50.0	188278.0	3.091545	Y
5	STD07 500-667600/9	50.0	168.415333	50.0	198294.0	3.368307	Y
6	STD08 500-667600/10	100.0	316.05483	50.0	203867.0	3.160548	Y
7	STD09 500-667600/11	150.0	476.724334	50.0	210748.0	3.178162	Y
8	STD010 500-667600/12	200.0	632.63936	50.0	212184.0	3.163197	Y



Calibration

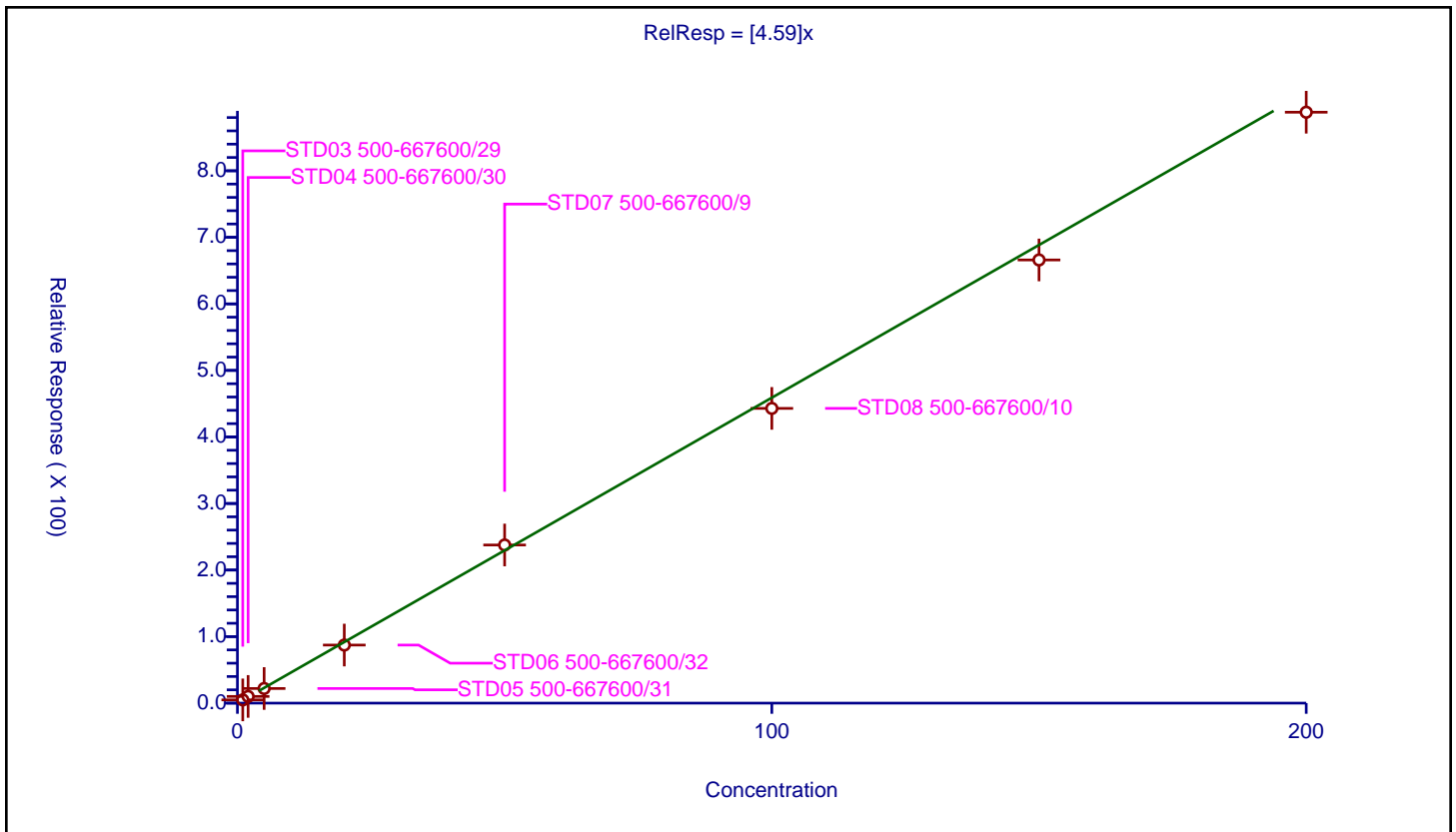
/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.59

Error Coefficients	
Standard Error:	1940000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	4.871851	50.0	191457.0	4.871851	Y
2	STD04 500-667600/30	2.0	10.05337	50.0	178940.0	5.026685	Y
3	STD05 500-667600/31	5.0	21.975818	50.0	187993.0	4.395164	Y
4	STD06 500-667600/32	20.0	87.263249	50.0	188278.0	4.363162	Y
5	STD07 500-667600/9	50.0	237.646626	50.0	198294.0	4.752933	Y
6	STD08 500-667600/10	100.0	442.934855	50.0	203867.0	4.429349	Y
7	STD09 500-667600/11	150.0	665.994695	50.0	210748.0	4.439965	Y
8	STD10 500-667600/12	200.0	887.993675	50.0	212184.0	4.439968	Y



Calibration

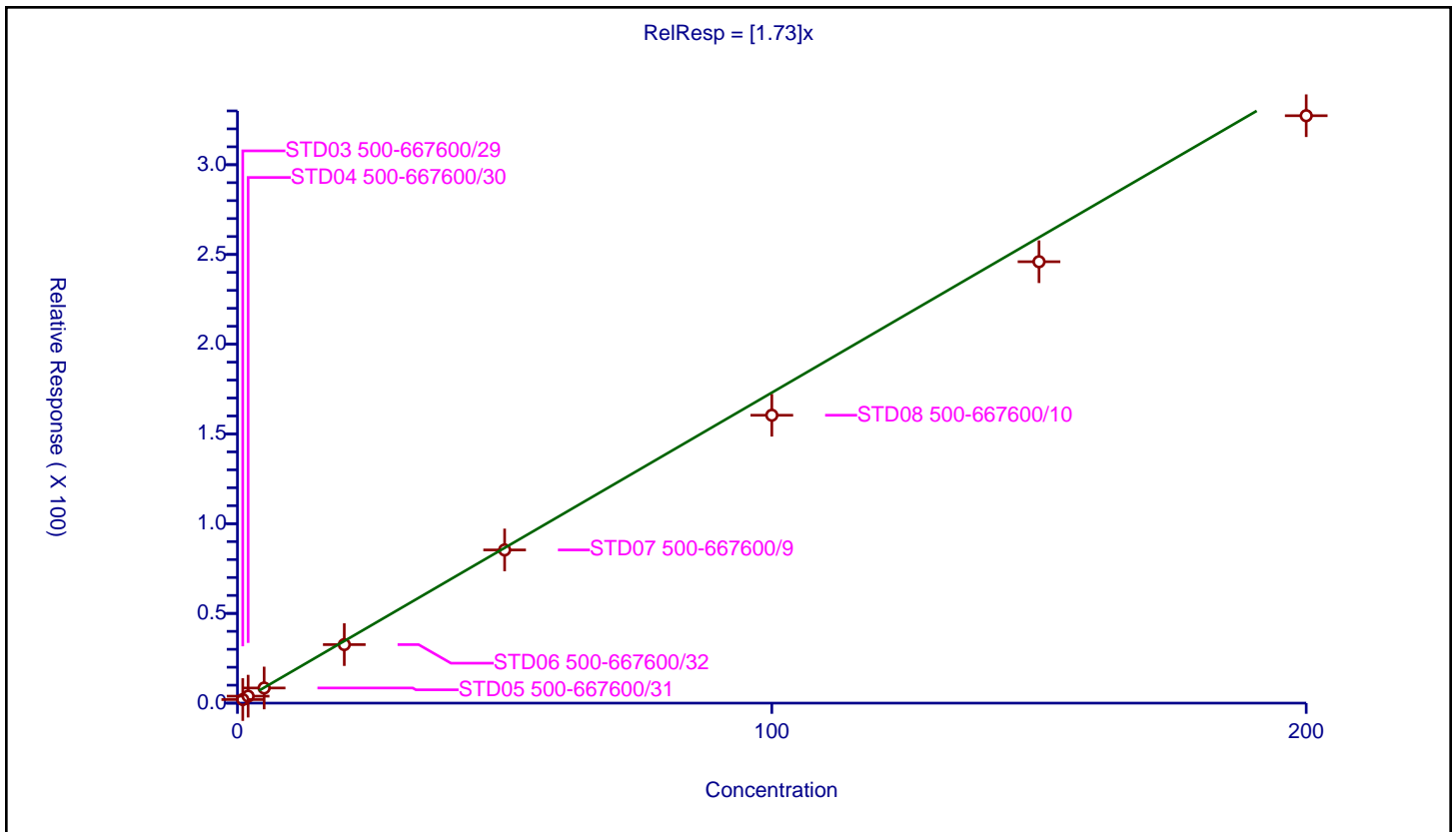
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.73

Error Coefficients	
Standard Error:	713000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.996793	50.0	191457.0	1.996793	Y
2	STD04 500-667600/30	2.0	3.879513	50.0	178940.0	1.939756	Y
3	STD05 500-667600/31	5.0	8.431165	50.0	187993.0	1.686233	Y
4	STD06 500-667600/32	20.0	32.612414	50.0	188278.0	1.630621	Y
5	STD07 500-667600/9	50.0	85.352053	50.0	198294.0	1.707041	Y
6	STD08 500-667600/10	100.0	160.420029	50.0	203867.0	1.6042	Y
7	STD09 500-667600/11	150.0	245.956308	50.0	210748.0	1.639709	Y
8	STD010 500-667600/12	200.0	327.313322	50.0	212184.0	1.636567	Y



Calibration

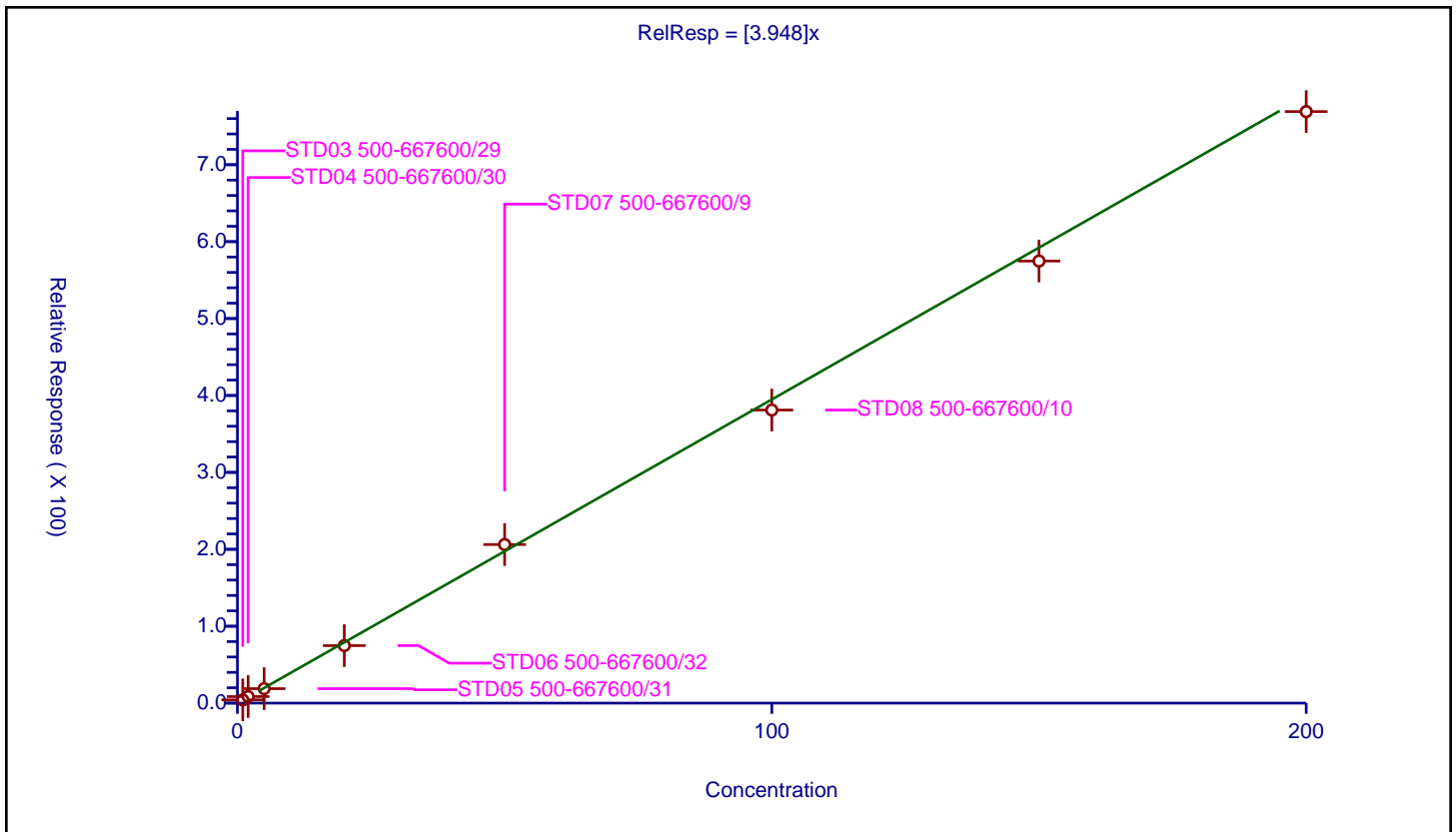
/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.948

Error Coefficients	
Standard Error:	1680000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	4.19572	50.0	191457.0	4.19572	Y
2	STD04 500-667600/30	2.0	8.544764	50.0	178940.0	4.272382	Y
3	STD05 500-667600/31	5.0	18.828627	50.0	187993.0	3.765725	Y
4	STD06 500-667600/32	20.0	74.791266	50.0	188278.0	3.739563	Y
5	STD07 500-667600/9	50.0	206.182487	50.0	198294.0	4.12365	Y
6	STD08 500-667600/10	100.0	381.055296	50.0	203867.0	3.810553	Y
7	STD09 500-667600/11	150.0	574.807116	50.0	210748.0	3.832047	Y
8	STD010 500-667600/12	200.0	769.095455	50.0	212184.0	3.845477	Y



Calibration

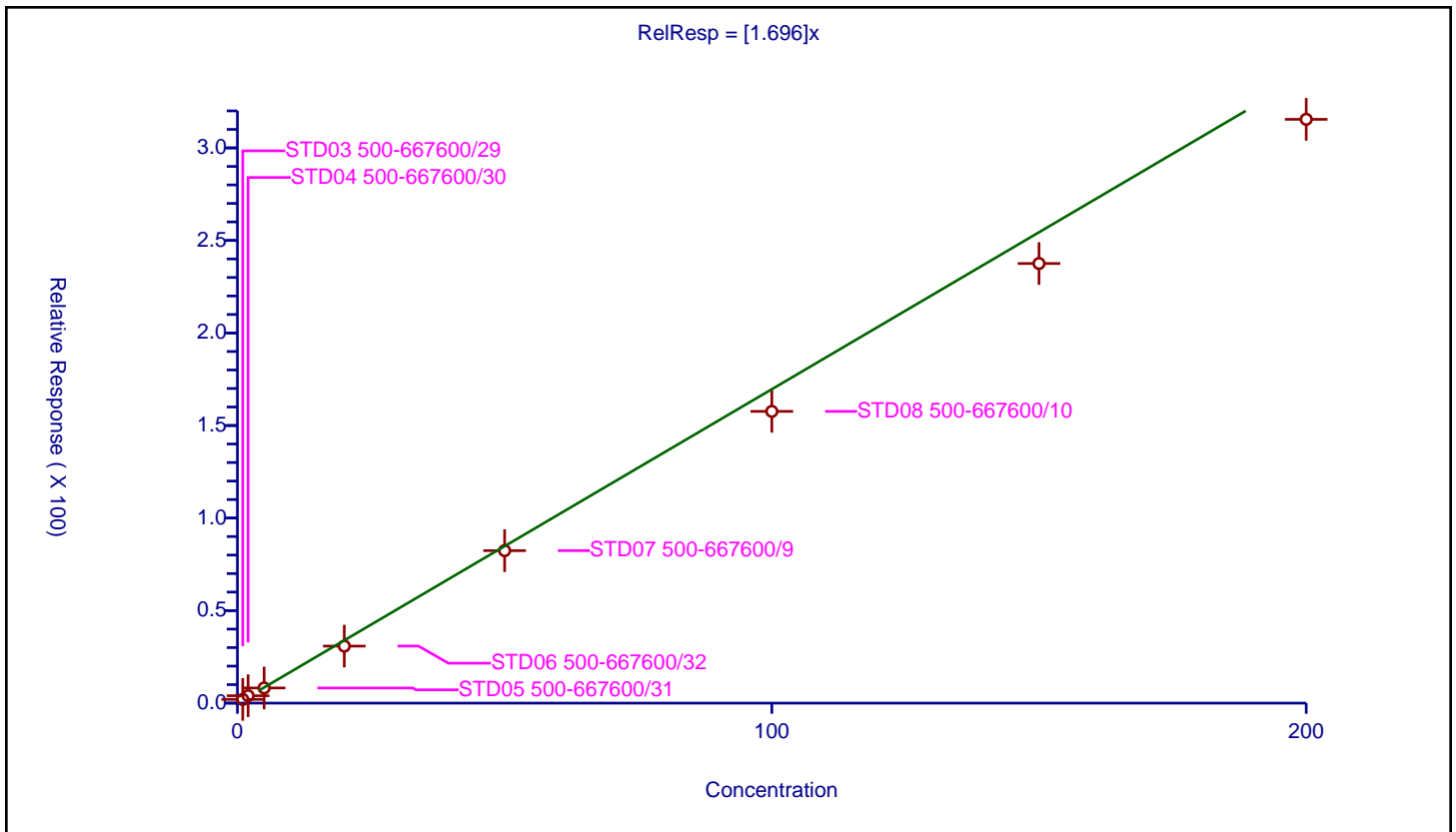
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.696

Error Coefficients	
Standard Error:	689000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	2.006978	50.0	191457.0	2.006978	Y
2	STD04 500-667600/30	2.0	3.991003	50.0	178940.0	1.995501	Y
3	STD05 500-667600/31	5.0	8.198975	50.0	187993.0	1.639795	Y
4	STD06 500-667600/32	20.0	30.816665	50.0	188278.0	1.540833	Y
5	STD07 500-667600/9	50.0	82.396593	50.0	198294.0	1.647932	Y
6	STD08 500-667600/10	100.0	157.641747	50.0	203867.0	1.576417	Y
7	STD09 500-667600/11	150.0	237.538197	50.0	210748.0	1.583588	Y
8	STD010 500-667600/12	200.0	315.437309	50.0	212184.0	1.577187	Y



Calibration

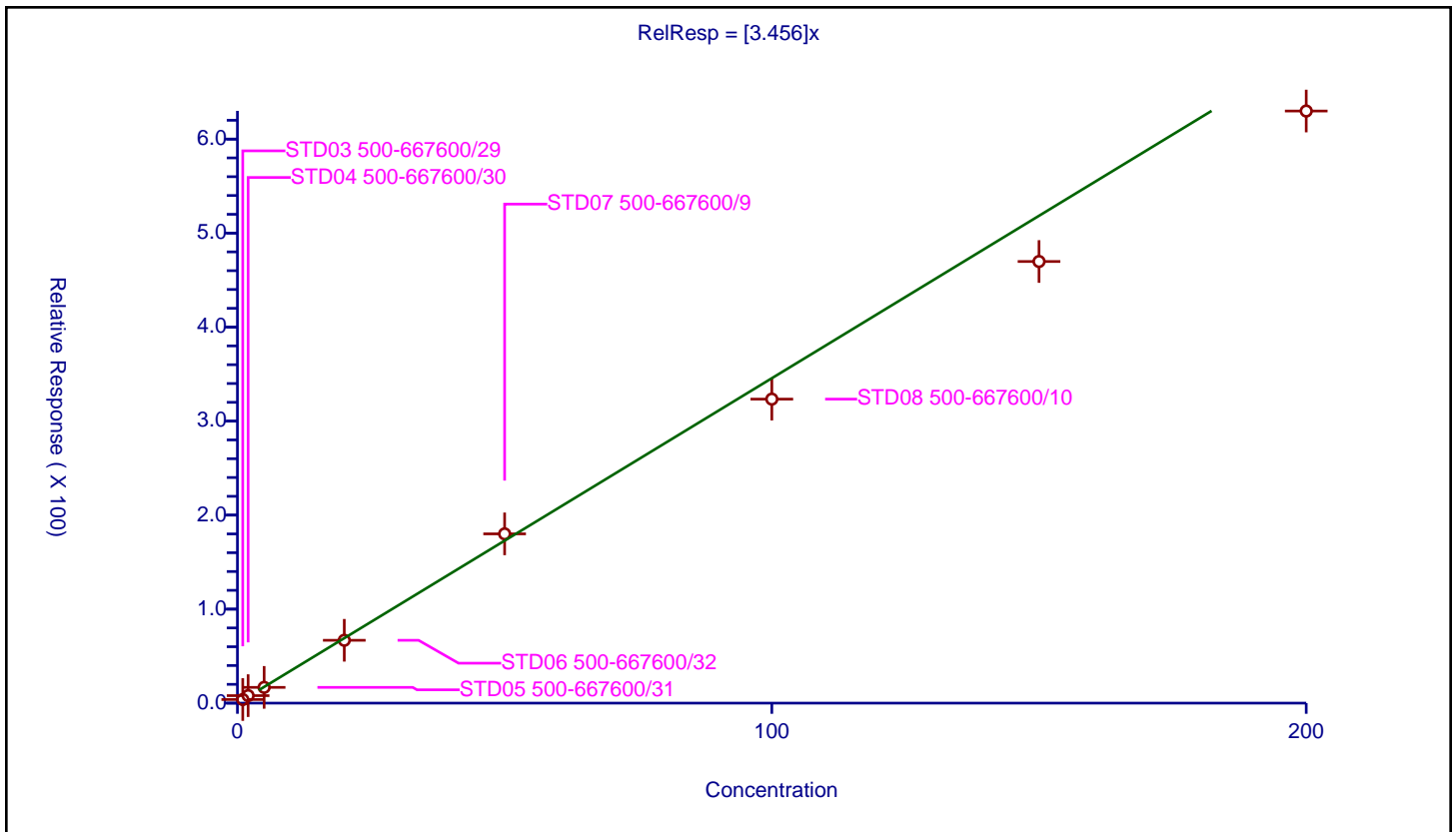
/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.456

Error Coefficients	
Standard Error:	1380000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	3.843944	50.0	191457.0	3.843944	Y
2	STD04 500-667600/30	2.0	7.987035	50.0	178940.0	3.993517	Y
3	STD05 500-667600/31	5.0	16.754613	50.0	187993.0	3.350923	Y
4	STD06 500-667600/32	20.0	66.859644	50.0	188278.0	3.342982	Y
5	STD07 500-667600/9	50.0	180.056885	50.0	198294.0	3.601138	Y
6	STD08 500-667600/10	100.0	323.38559	50.0	203867.0	3.233856	Y
7	STD09 500-667600/11	150.0	469.785004	50.0	210748.0	3.1319	Y
8	STD010 500-667600/12	200.0	629.857576	50.0	212184.0	3.149288	Y



Calibration

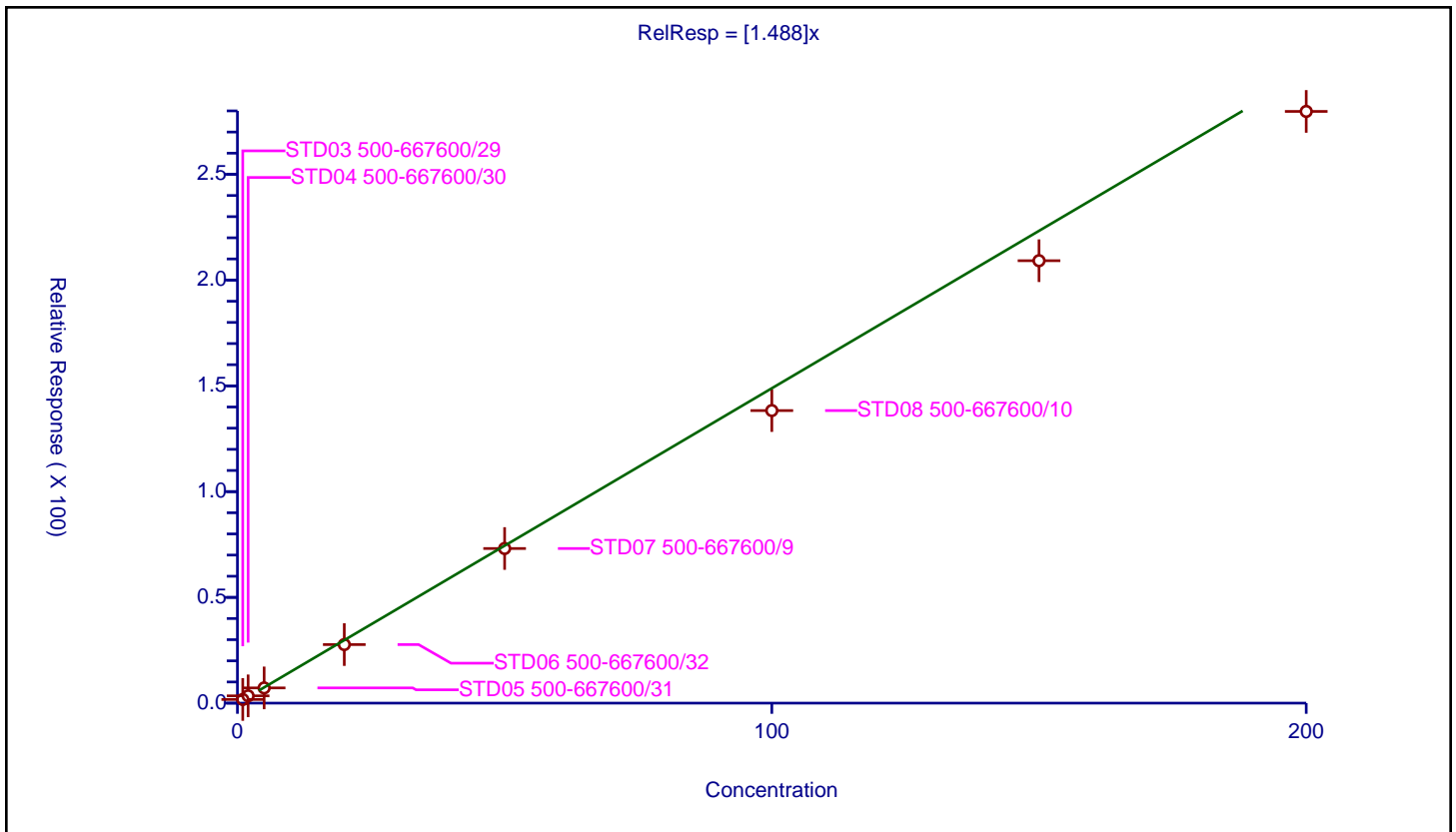
/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.488

Error Coefficients	
Standard Error:	609000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.728325	50.0	191457.0	1.728325	Y
2	STD04 500-667600/30	2.0	3.438024	50.0	178940.0	1.719012	Y
3	STD05 500-667600/31	5.0	7.190161	50.0	187993.0	1.438032	Y
4	STD06 500-667600/32	20.0	27.684063	50.0	188278.0	1.384203	Y
5	STD07 500-667600/9	50.0	73.101808	50.0	198294.0	1.462036	Y
6	STD08 500-667600/10	100.0	138.311252	50.0	203867.0	1.383113	Y
7	STD09 500-667600/11	150.0	209.1766	50.0	210748.0	1.394511	Y
8	STD010 500-667600/12	200.0	279.748237	50.0	212184.0	1.398741	Y



Calibration

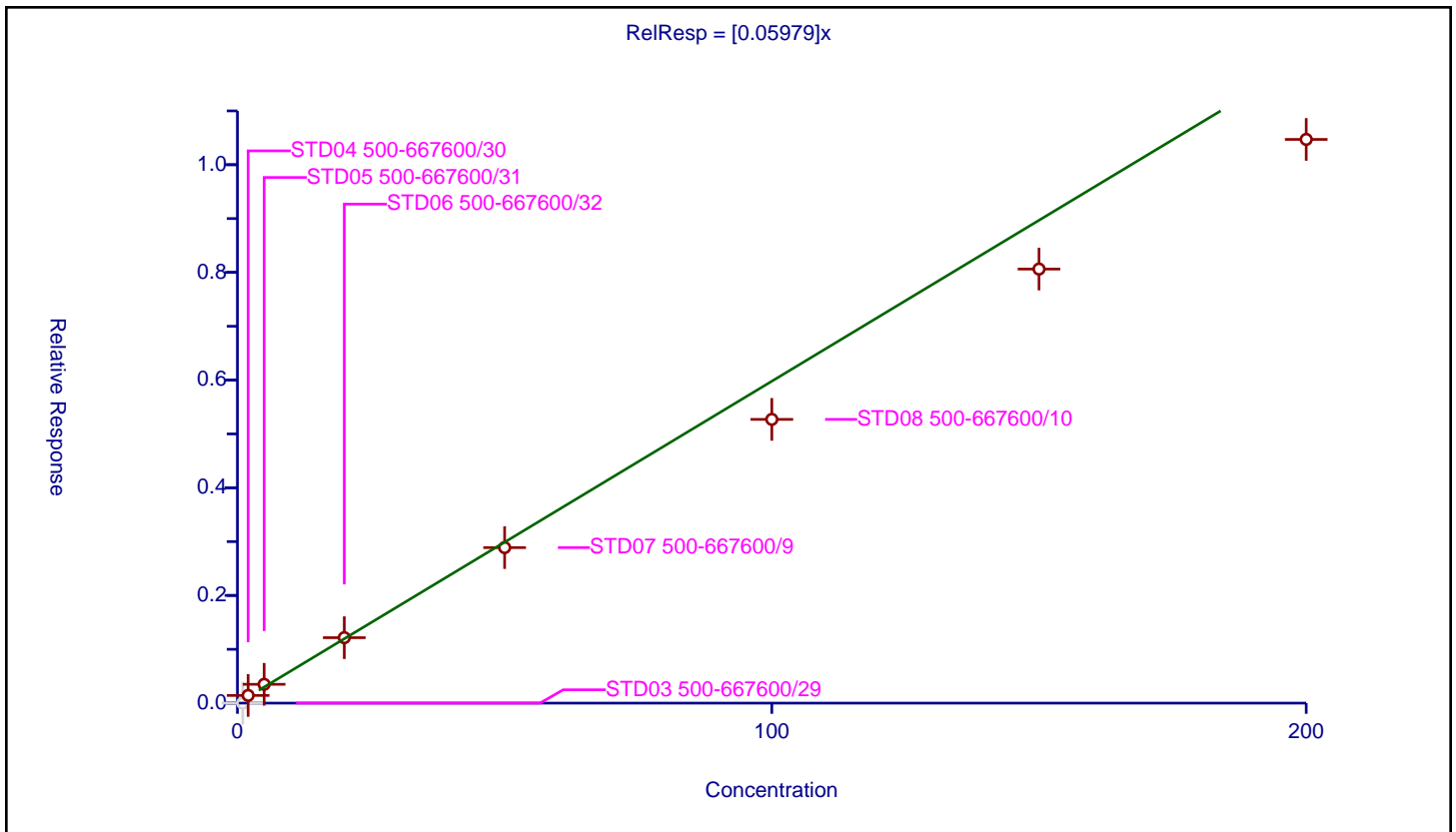
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05979

Error Coefficients	
Standard Error:	25000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.0	50.0	191457.0	0.0	N
2	STD04 500-667600/30	2.0	0.142506	50.0	178940.0	0.071253	Y
3	STD05 500-667600/31	5.0	0.349481	50.0	187993.0	0.069896	Y
4	STD06 500-667600/32	20.0	1.215755	50.0	188278.0	0.060788	Y
5	STD07 500-667600/9	50.0	2.888892	50.0	198294.0	0.057778	Y
6	STD08 500-667600/10	100.0	5.270103	50.0	203867.0	0.052701	Y
7	STD09 500-667600/11	150.0	8.062235	50.0	210748.0	0.053748	Y
8	STD10 500-667600/12	200.0	10.470158	50.0	212184.0	0.052351	Y



Calibration

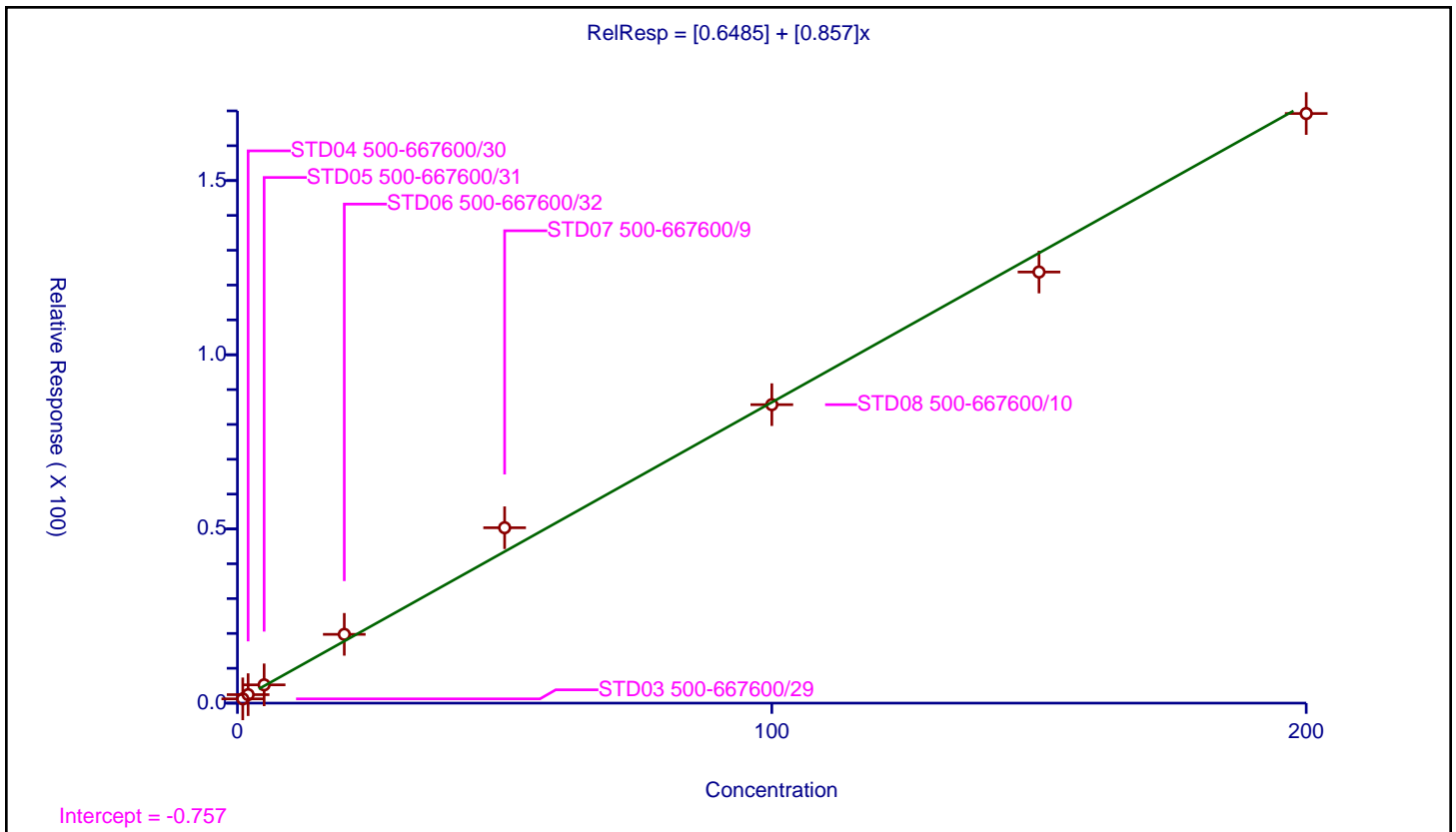
/ 1,2,4-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.6485
Slope:	0.857

Error Coefficients	
Standard Error:	399000
Relative Standard Error:	15.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.229258	50.0	191457.0	1.229258	Y
2	STD04 500-667600/30	2.0	2.433777	50.0	178940.0	1.216888	Y
3	STD05 500-667600/31	5.0	5.248068	50.0	187993.0	1.049614	Y
4	STD06 500-667600/32	20.0	19.741552	50.0	188278.0	0.987078	Y
5	STD07 500-667600/9	50.0	50.34469	50.0	198294.0	1.006894	Y
6	STD08 500-667600/10	100.0	85.673748	50.0	203867.0	0.856737	Y
7	STD09 500-667600/11	150.0	123.749454	50.0	210748.0	0.824996	Y
8	STD10 500-667600/12	200.0	169.24556	50.0	212184.0	0.846228	Y



Calibration

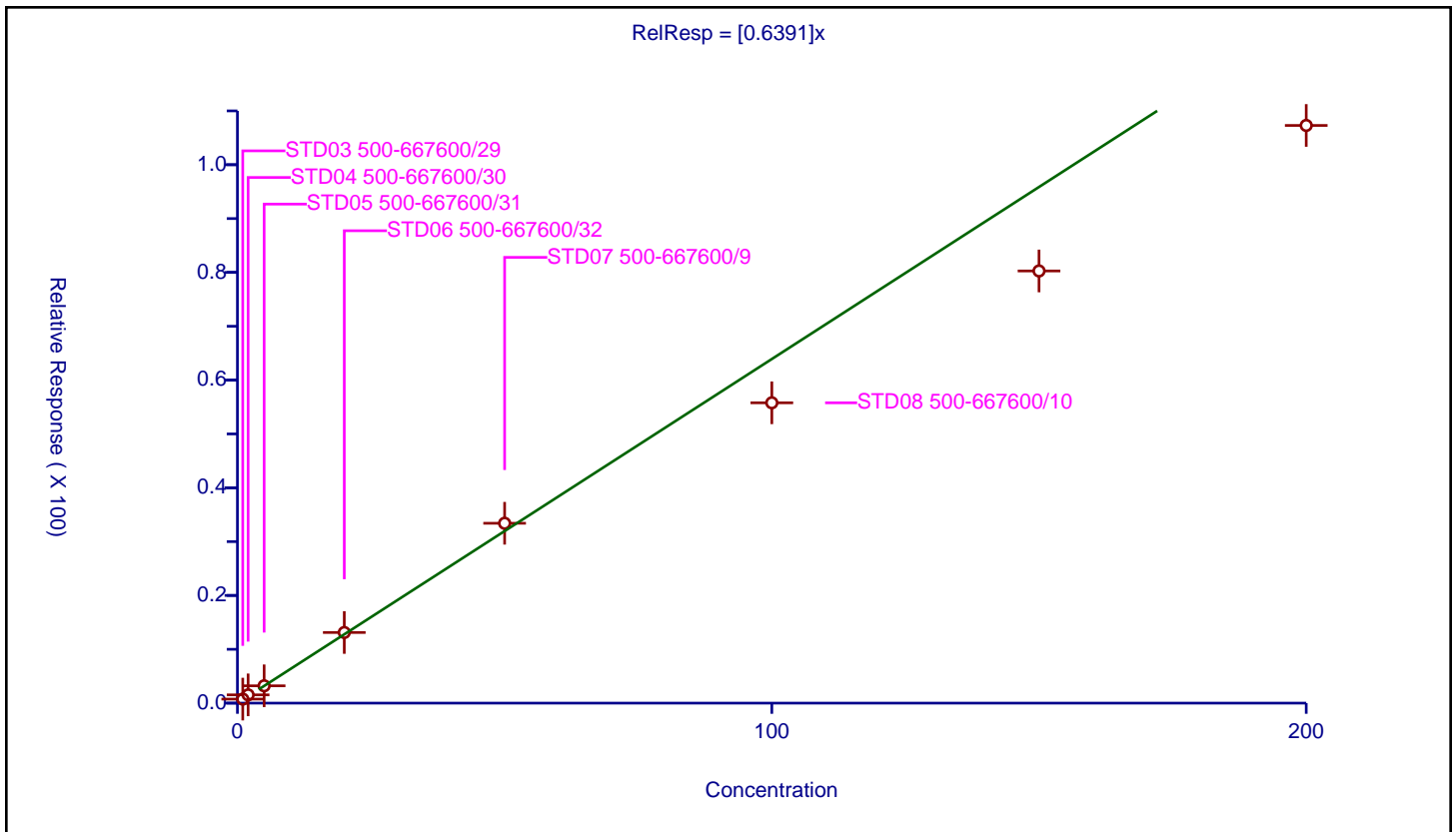
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6391

Error Coefficients	
Standard Error:	237000
Relative Standard Error:	14.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.747687	50.0	191457.0	0.747687	Y
2	STD04 500-667600/30	2.0	1.53571	50.0	178940.0	0.767855	Y
3	STD05 500-667600/31	5.0	3.218205	50.0	187993.0	0.643641	Y
4	STD06 500-667600/32	20.0	13.119961	50.0	188278.0	0.655998	Y
5	STD07 500-667600/9	50.0	33.407718	50.0	198294.0	0.668154	Y
6	STD08 500-667600/10	100.0	55.781465	50.0	203867.0	0.557815	Y
7	STD09 500-667600/11	150.0	80.270275	50.0	210748.0	0.535135	Y
8	STD010 500-667600/12	200.0	107.294377	50.0	212184.0	0.536472	Y



Calibration

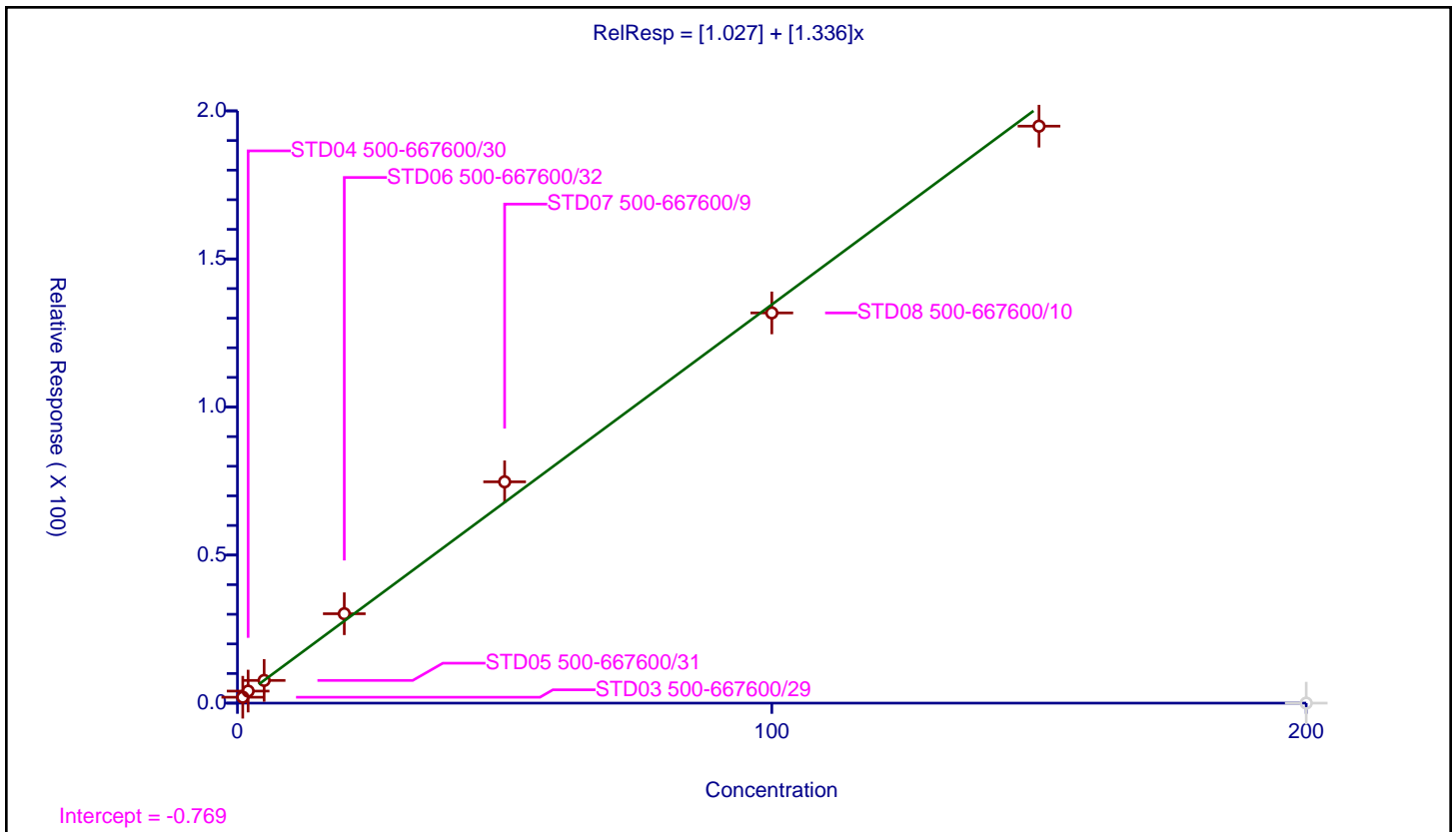
/ Naphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	1.027
Slope:	1.336

Error Coefficients	
Standard Error:	461000
Relative Standard Error:	15.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	1.995748	50.0	191457.0	1.995748	Y
2	STD04 500-667600/30	2.0	4.0698	50.0	178940.0	2.0349	Y
3	STD05 500-667600/31	5.0	7.664115	50.0	187993.0	1.532823	Y
4	STD06 500-667600/32	20.0	30.185152	50.0	188278.0	1.509258	Y
5	STD07 500-667600/9	50.0	74.739528	50.0	198294.0	1.494791	Y
6	STD08 500-667600/10	100.0	131.782486	50.0	203867.0	1.317825	Y
7	STD09 500-667600/11	150.0	194.842893	50.0	210748.0	1.298953	Y
8	STD010 500-667600/12	200.0	0.0	50.0	212184.0	0.0	N



Calibration

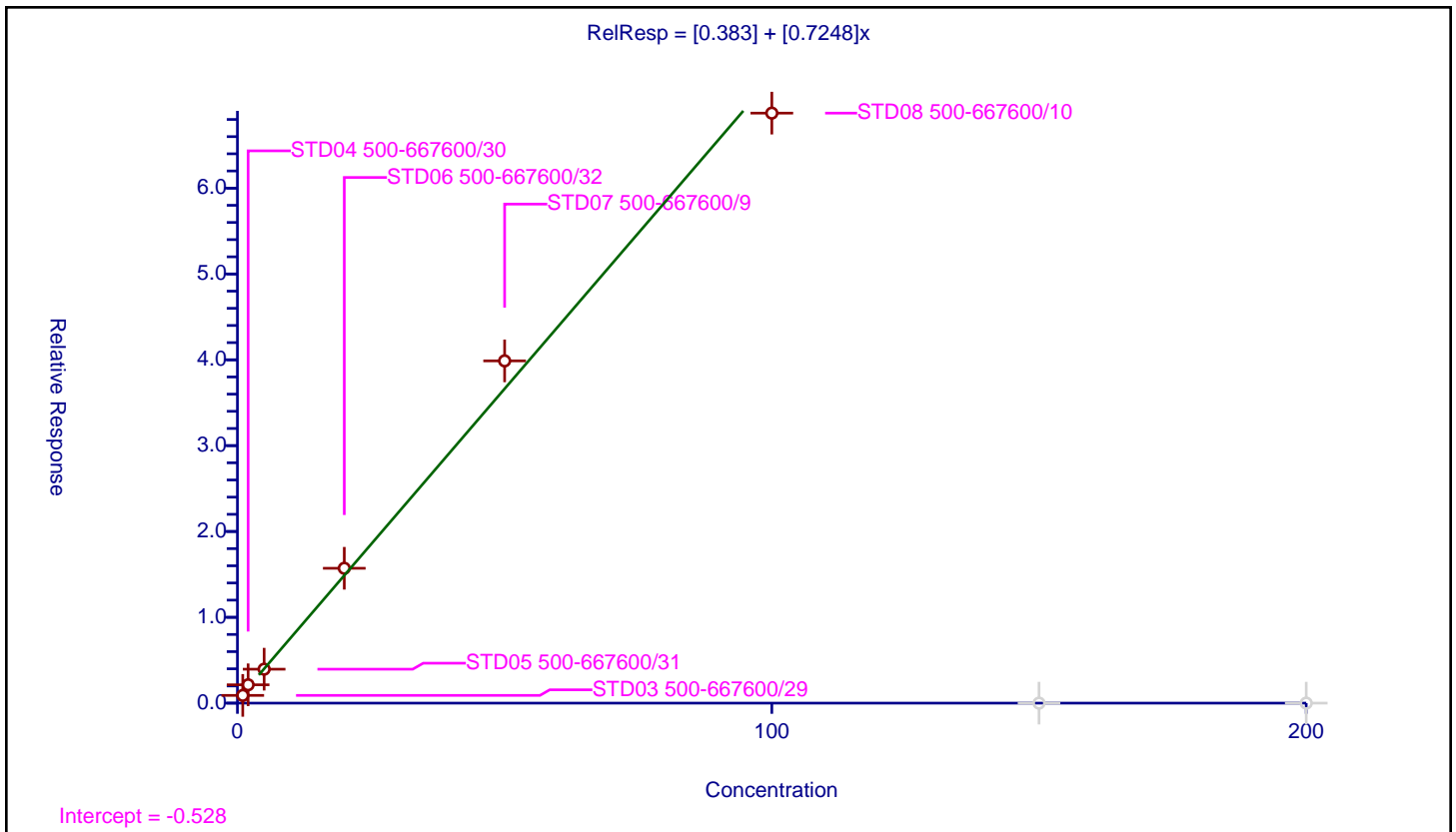
/ 1,2,3-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.383
Slope:	0.7248

Error Coefficients	
Standard Error:	164000
Relative Standard Error:	18.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-667600/29	1.0	0.900463	50.0	191457.0	0.900463	Y
2	STD04 500-667600/30	2.0	2.137309	50.0	178940.0	1.068654	Y
3	STD05 500-667600/31	5.0	3.955732	50.0	187993.0	0.791146	Y
4	STD06 500-667600/32	20.0	15.711076	50.0	188278.0	0.785554	Y
5	STD07 500-667600/9	50.0	39.874883	50.0	198294.0	0.797498	Y
6	STD08 500-667600/10	100.0	68.739423	50.0	203867.0	0.687394	Y
7	STD09 500-667600/11	150.0	0.0	50.0	210748.0	0.0	N
8	STD010 500-667600/12	200.0	0.0	50.0	212184.0	0.0	N



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-667600/14	STD03AP.d
Level 2	STD04AP 500-667600/15	STD04AP.d
Level 3	STD05AP 500-667600/16	STD05AP.d
Level 4	STD06AP 500-667600/17	STD06AP.d
Level 5	STD07AP 500-667600/18	STD07AP.d
Level 6	STD08AP 500-667600/19	STD08AP.d
Level 7	STD09AP 500-667600/20	STD09AP.d
Level 8	STD010AP 500-667600/21	STD010AP.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	++++ 0.1496	0.1747 0.1474	0.1536 0.1458	0.1383	0.1388	Ave		0.149 7		0.0010	8.2		15.0				
Isopropyl alcohol	1.3233 0.7517	1.1519 0.7428	0.8812 0.7460	0.7742	0.7611	Lin1	6.654 6	0.742 5		0.0010			1.0000			0.9900	
Acetonitrile	0.0187 0.0106	0.0126 0.0106	0.0109 0.0107	0.0106	0.0117	Lin1	0.062 1	0.010 7		0.0010			0.9990			0.9900	
Isopropyl ether	0.6600 0.6303	0.6519 0.6460	0.5940 0.6387	0.6130	0.6816	Ave		0.639 4		0.0100	4.3		15.0				
2-Chloro-1,3-butadiene	0.4839 0.4134	0.4348 0.4215	0.4345 0.4285	0.4363	0.4584	Ave		0.438 9		0.0100	5.1		15.0				
Tert-butyl ethyl ether	0.5445 0.5129	0.5235 0.5324	0.4861 0.5345	0.5064	0.5629	Ave		0.525 4		0.0010	4.5		15.0				
Ethyl acetate	0.5857 0.0839	0.3052 0.0781	0.1831 0.0768	0.1078	0.0898	Lin1	1.006 1	0.076 1		0.0100			0.9980			0.9900	
Propionitrile	0.0136 0.0116	0.0124 0.0117	0.0127 0.0116	0.0117	0.0124	Ave		0.012 2		0.0010	5.7		15.0				
Methacrylonitrile	0.0661 0.0574	0.0585 0.0569	0.0588 0.0571	0.0600	0.0615	Ave		0.059 5		0.0100	5.2		15.0				
Isooctane	1.2643 1.1433	1.2449 1.1636	1.1791 1.2172	1.2367	1.2775	Ave		1.215 8		0.0100	4.0		15.0				
Tert-amyl methyl ether	0.4544 0.4223	0.4319 0.4446	0.4207 0.4468	0.4216	0.4586	Ave		0.437 6		0.0100	3.5		15.0				
n-Butyl alcohol	++++ 0.3495	0.6027 0.3534	0.4539 0.3402	0.3486	0.3523	Lin1	12.72 8	0.342 5		0.0010			1.0000			0.9900	
Ethyl acrylate	0.1417 0.1184	0.1325 0.1089	0.1274 0.1058	0.1140	0.1181	Ave		0.120 8		0.0010	10.1		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2,3-Dichloro-1-propene	0.3203 0.3266	0.3301 0.3240	0.2835 0.3109	0.2909	0.3252	Ave		0.313 9		0.0010	5.6		15.0				
Methyl methacrylate	0.0720 0.0845	0.0831 0.0799	0.0818 0.0769	0.0827	0.0862	Ave		0.080 9		0.0100	5.7		15.0				
2-Nitropropane	0.0777 0.0417	0.0604 0.0415	0.0423 0.0419	0.0403	0.0422	Lin1	0.063 9	0.041 4		0.0100				1.0000		0.9900	
n-Butyl acetate	0.2820 0.2158	0.2601 0.2060	0.2238 0.2015	0.2337	0.2307	Ave		0.231 7		0.0010	11.8		15.0				
1-Chlorohexane	0.7135 0.5626	0.6125 0.5463	0.5708 0.5455	0.5594	0.5892	Ave		0.587 5		0.0100	9.5		15.0				
Cyclohexanone	0.0096 0.0091	0.0090 0.0086	0.0080 0.0083	0.0092	0.0086	Ave		0.008 8	*	0.0100	6.0		15.0				
2-Ethyltoluene	4.1203 3.9287	3.9265 4.0420	3.8328 3.9765	4.0204	4.1370	Ave		3.998 0		0.0010	2.6		15.0				
Pentachloroethane	++++ 0.3432	0.2576 0.3484	0.3633 0.3527	0.3969	0.2680	Lin1	-0.10 2	0.344 4		0.0100				0.9930		0.9900	
1,2,3-Trimethylbenzene	3.1939 2.9147	2.8827 3.0895	2.7829 3.1408	2.9958	3.2015	Ave		3.025 2		0.0010	5.1		15.0				
Benzyl chloride	0.2245 0.1978	0.2097 0.1965	0.1924 0.2003	0.1934	0.2078	Ave		0.202 8		0.0010	5.3		15.0				
1,3,5-Trichlorobenzene	1.3283 1.2078	1.2217 1.2790	1.2070 1.2718	1.2529	1.3510	Ave		1.264 9		0.0100	4.3		15.0				
2-Methylnaphthalene	0.9611 0.9411	0.8698 1.0129	0.9022 1.0146	0.9526	1.0155	Ave		0.958 7		0.0100	5.7		15.0				
1-Methylnaphthalene	0.7871 0.7556	0.7201 0.7959	0.6876 0.8051	0.7822	0.8021	Ave		0.767 0		0.0100	5.6		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-667600/14	STD03AP.d
Level 2	STD04AP 500-667600/15	STD04AP.d
Level 3	STD05AP 500-667600/16	STD05AP.d
Level 4	STD06AP 500-667600/17	STD06AP.d
Level 5	STD07AP 500-667600/18	STD07AP.d
Level 6	STD08AP 500-667600/19	STD08AP.d
Level 7	STD09AP 500-667600/20	STD09AP.d
Level 8	STD010AP 500-667600/21	STD010AP.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Ethanol	TBAd 9	Ave	+++++	1085	2442	8289	19942	+++++	80.0	200	800	2000
			50039	67537	91680			4000	6000	8000		
Isopropyl alcohol	TBAd 9	Lin1	1032	1789	3502	11600	27342	10.0	20.0	50.0	200	500
			62881	85089	117259			1000	1500	2000		
Acetonitrile	FB	Lin1	2137	2829	6182	22942	61108	10.0	20.0	50.0	200	500
			124861	186036	253531			1000	1500	2000		
Isopropyl ether	FB	Ave	7533	14663	33585	133060	354542	1.00	2.00	5.00	20.0	50.0
			745720	1138831	1513724			100	150	200		
2-Chloro-1,3-butadiene	FB	Ave	5523	9781	24566	94708	238452	1.00	2.00	5.00	20.0	50.0
			489175	742938	1015530			100	150	200		
Tert-butyl ethyl ether	FB	Ave	6215	11774	27481	109917	292786	1.00	2.00	5.00	20.0	50.0
			606805	938512	1266717			100	150	200		
Ethyl acetate	FB	Lin1	13370	13728	20701	46817	93427	2.00	4.00	10.0	40.0	100
			198440	275202	364241			200	300	400		
Propionitrile	FB	Ave	1547	2797	7166	25352	64713	10.0	20.0	50.0	200	500
			137402	206414	275413			1000	1500	2000		
Methacrylonitrile	FB	Ave	7547	13162	33237	130215	319859	10.0	20.0	50.0	200	500
			678709	1003202	1353559			1000	1500	2000		
Isooctane	FB	Ave	14431	28002	66663	268449	664508	1.00	2.00	5.00	20.0	50.0
			1352746	2051108	2884974			100	150	200		
Tert-amyl methyl ether	FB	Ave	5187	9715	23788	91514	238560	1.00	2.00	5.00	20.0	50.0
			499682	783755	1059026			100	150	200		
n-Butyl alcohol	TBAd 9	Lin1	+++++	2340	4510	13059	31640	+++++	50.0	125	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			73095	101206	133701			2500	3750	5000		
Ethyl acrylate	FB	Ave	1617 140143	2980 191981	7203 250859	24742	61415	1.00 100	2.00 150	5.00 200	20.0	50.0
2,3-Dichloro-1-propene	FB	Ave	3656 386418	7424 571090	16028 736954	63151	169149	1.00 100	2.00 150	5.00 200	20.0	50.0
Methyl methacrylate	FB	Ave	1643 199868	3738 281790	9249 364413	35892	89693	2.00 200	4.00 300	10.0 400	40.0	100
2-Nitropropane	CBNZ d5	Lin1	1188 65385	1802 93683	3170 125731	11257	28952	2.00 200	4.00 300	10.0 400	40.0	100
n-Butyl acetate	CBNZ d5	Ave	2155 169374	3879 232602	8381 302646	32609	79085	1.00 100	2.00 150	5.00 200	20.0	50.0
1-Chlorohexane	CBNZ d5	Ave	5453 441551	9134 616923	21373 819112	78038	201973	1.00 100	2.00 150	5.00 200	20.0	50.0
Cyclohexanone	DCBd 4	Ave	3722 350184	6880 486167	15138 640963	64106	146468	100 10000	200 15000	500 20000	2000	5000
2-Ethyltoluene	DCBd 4	Ave	16003 1513803	30161 2279822	72813 3060999	278798	707021	1.00 100	2.00 150	5.00 200	20.0	50.0
Pentachloroethane	DCBd 4	Lin1	+++++ 132238	1979 196528	6901 271514	27523	45795	+++++ 100	2.00 150	5.00 200	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	12405 1123078	22143 1742563	52867 2417725	207750	547149	1.00 100	2.00 150	5.00 200	20.0	50.0
Benzyl chloride	DCBd 4	Ave	872 76213	1611 110807	3655 154219	13412	35514	1.00 100	2.00 150	5.00 200	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	5159 465381	9384 721386	22929 978963	86886	230884	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	3733	6681	17139	66056	173543	1.00	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			362623	571279	781019			100	150	200		
1-Methylnaphthalene	DCBd 4	Ave	3057	5531	13062	54244	137082	1.00	2.00	5.00	20.0	50.0
			291165	448934	619753			100	150	200		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-667600/14	STD03AP.d
Level 2	STD04AP 500-667600/15	STD04AP.d
Level 3	STD05AP 500-667600/16	STD05AP.d
Level 4	STD06AP 500-667600/17	STD06AP.d
Level 5	STD07AP 500-667600/18	STD07AP.d
Level 6	STD08AP 500-667600/19	STD08AP.d
Level 7	STD09AP 500-667600/20	STD09AP.d
Level 8	STD010AP 500-667600/21	STD010AP.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Ethanol	++++ -1.6	16.7 -2.6	2.6	-7.6	-7.3	-0.1	30	50 30	30	30	30	30
Isopropyl alcohol	-11.4 -0.6	10.3 0.0	0.8	-0.2	0.7	0.3	50 30	30 30	30	30	30	30
Acetonitrile	17.5 -1.3	-11.1 0.1	-9.0	-3.7	9.1	-1.5	50 30	30 30	30	30	30	30
Isopropyl ether	3.2 1.0	1.9 -0.1	-7.1	-4.1	6.6	-1.4	50 30	30 30	30	30	30	30
2-Chloro-1,3-butadiene	10.2 -4.0	-0.9 -2.4	-1.0	-0.6	4.4	-5.8	50 30	30 30	30	30	30	30
Tert-butyl ethyl ether	3.6 1.3	-0.4 1.7	-7.5	-3.6	7.1	-2.4	50 30	30 30	30	30	30	30
Ethyl acetate	8.6 -1.9	-29.5 -2.4	8.3	8.6	4.7	3.5	50 30	30 30	30	30	30	30
Propionitrile	11.0 -4.1	1.8 -4.9	3.8	-4.4	1.8	-4.9	50 30	30 30	30	30	30	30
Methacrylonitrile	11.1 -4.4	-1.7 -4.1	-1.3	0.8	3.3	-3.6	50 30	30 30	30	30	30	30
Isooctane	4.0 -4.3	2.4 0.1	-3.0	1.7	5.1	-6.0	50 30	30 30	30	30	30	30
Tert-amyl methyl ether	3.8 1.6	-1.3 2.1	-3.9	-3.7	4.8	-3.5	50 30	30 30	30	30	30	30
n-Butyl alcohol	++++ 2.2	1.6 -1.4	2.8	-5.6	-0.1	0.6	30	50 30	30	30	30	30
Ethyl acrylate	17.2 -9.9	9.6 -12.4	5.4	-5.7	-2.3	-2.0	50 30	30 30	30	30	30	30
2,3-Dichloro-1-propene	2.0 3.2	5.1 -1.0	-9.7	-7.3	3.6	4.0	50 30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 667600

SDG No.: _____

Instrument ID: CMS19 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2022 14:20 Calibration End Date: 07/29/2022 20:02 Calibration ID: 45760

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Methyl methacrylate	-11.0 -1.2	2.7 -4.9	1.1	2.2	6.6	4.4	50 30	30 30	30	30	30	30
2-Nitropropane	10.7 -0.2	7.5 0.9	-13.1	-6.3	0.6	0.0	50 30	30 30	30	30	30	30
n-Butyl acetate	21.7 -11.1	12.3 -13.0	-3.4	0.9	-0.4	-6.9	50 30	30 30	30	30	30	30
1-Chlorohexane	21.4 -7.0	4.3 -7.1	-2.8	-4.8	0.3	-4.2	50 30	30 30	30	30	30	30
Cyclohexanone	9.0 -2.0	1.8 -5.3	-9.4	5.1	-2.6	3.3	50 30	30 30	30	30	30	30
2-Ethyltoluene	3.1 1.1	-1.8 -0.5	-4.1	0.6	3.5	-1.7	50 30	30 30	30	30	30	30
Pentachloroethane	++++ 1.4	-10.4 2.6	11.4	16.7	-21.6	-0.1	30 30	50 30	30	30	30	30
1,2,3-Trimethylbenzene	5.6 2.1	-4.7 3.8	-8.0	-1.0	5.8	-3.7	50 30	30 30	30	30	30	30
Benzyl chloride	10.7 -3.1	3.4 -1.2	-5.1	-4.6	2.5	-2.5	50 30	30 30	30	30	30	30
1,3,5-Trichlorobenzene	5.0 1.1	-3.4 0.5	-4.6	-0.9	6.8	-4.5	50 30	30 30	30	30	30	30
2-Methylnaphthalene	0.3 5.6	-9.3 5.8	-5.9	-0.6	5.9	-1.8	50 30	30 30	30	30	30	30
1-Methylnaphthalene	2.6 3.8	-6.1 5.0	-10.4	2.0	4.6	-1.5	50 30	30 30	30	30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d
 Lims ID: STD03AP
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2022 14:20:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD03AP
 Misc. Info.: 500-0087271-014
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:34 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:31:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
18 Isopropyl alcohol	45	3.312	3.312	0.000	22	1032	10.0	8.86	Ma
19 Acetonitrile	41	3.446	3.441	0.005	95	2137	10.0	11.7	M
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	96	77986	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	87	7533	1.00	1.03	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	84	5523	1.00	1.10	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	88	6215	1.00	1.04	
38 Ethyl acetate	43	4.869	4.864	0.005	95	13370	2.00	2.17	
37 Propionitrile	54	4.890	4.885	0.005	47	1547	10.0	11.1	a
40 Methacrylonitrile	41	5.035	5.035	0.000	88	7547	10.0	11.1	
52 Isooctane	57	5.746	5.746	0.000	93	14431	1.00	1.04	
53 Tert-amyl methyl ether	73	5.789	5.784	0.005	74	5187	1.00	1.04	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	570701	50.0	50.0	
58 Ethyl acrylate	55	6.463	6.463	0.000	35	1617	1.00	1.17	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	66	3656	1.00	1.02	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	84	10752	1000.0	1000.0	
64 Methyl methacrylate	41	6.725	6.720	0.005	66	1643	2.00	1.78	
67 2-Nitropropane	43	7.180	7.185	-0.005	49	1188	2.00	2.21	
79 n-Butyl acetate	43	8.769	8.769	0.000	70	2155	1.00	1.22	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	382152	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	34	5453	1.00	1.21	
92 Cyclohexanone	55	10.823	10.823	0.000	76	3722	100.0	109.0	
103 2-Ethyltoluene	105	11.503	11.503	0.000	91	16003	1.00	1.03	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	194198	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	86	12405	1.00	1.06	
113 Benzyl chloride	126	12.123	12.123	0.000	74	872	1.00	1.11	
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	81	5159	1.00	1.05	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	52	3733	1.00	1.00	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	56	3057	1.00	1.03	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LOWAPIX_00042	Amount Added: 1.00	Units: uL
LOWCYCHXWK_00219	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d

Injection Date: 29-Jul-2022 14:20:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD03AP

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

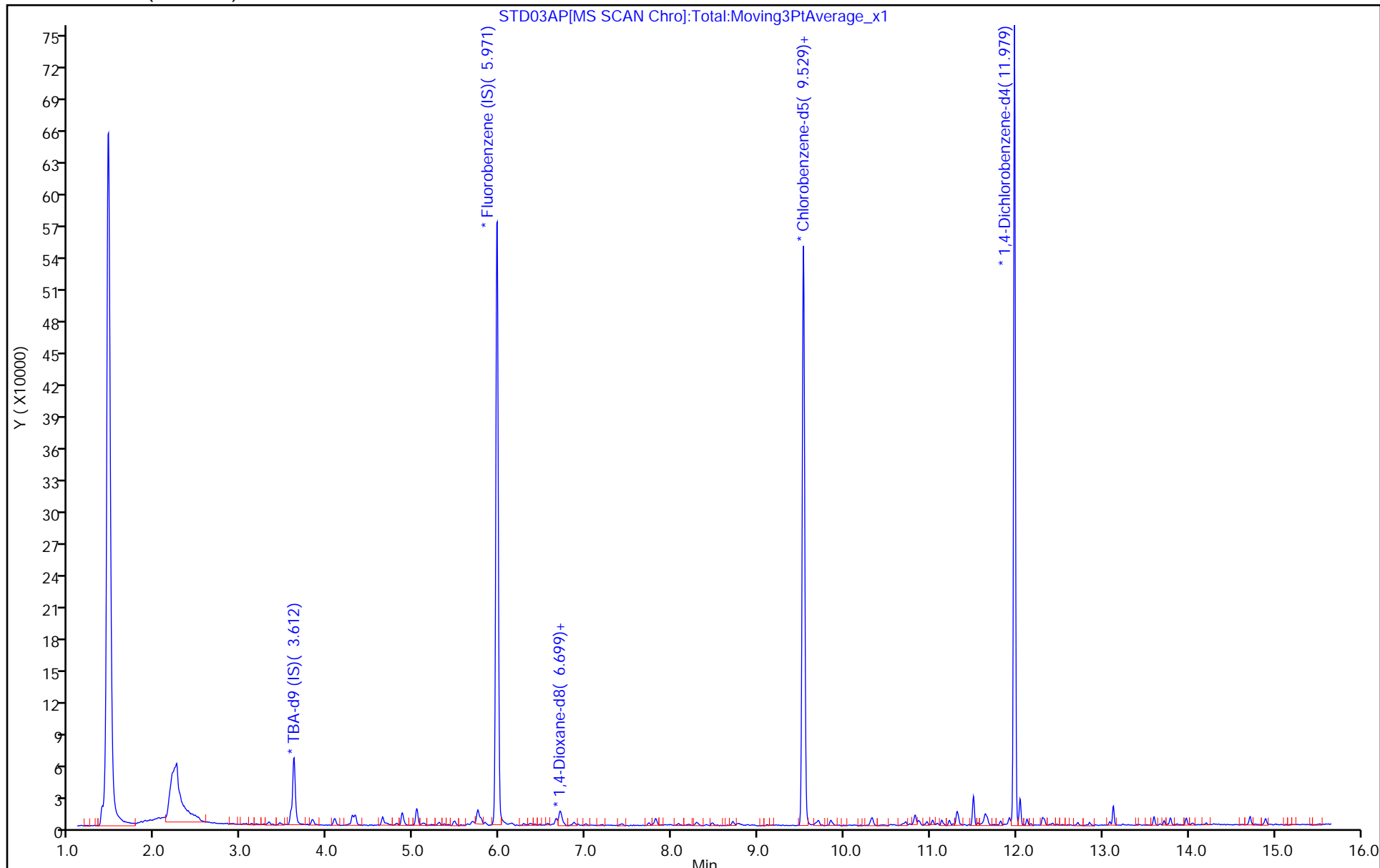
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

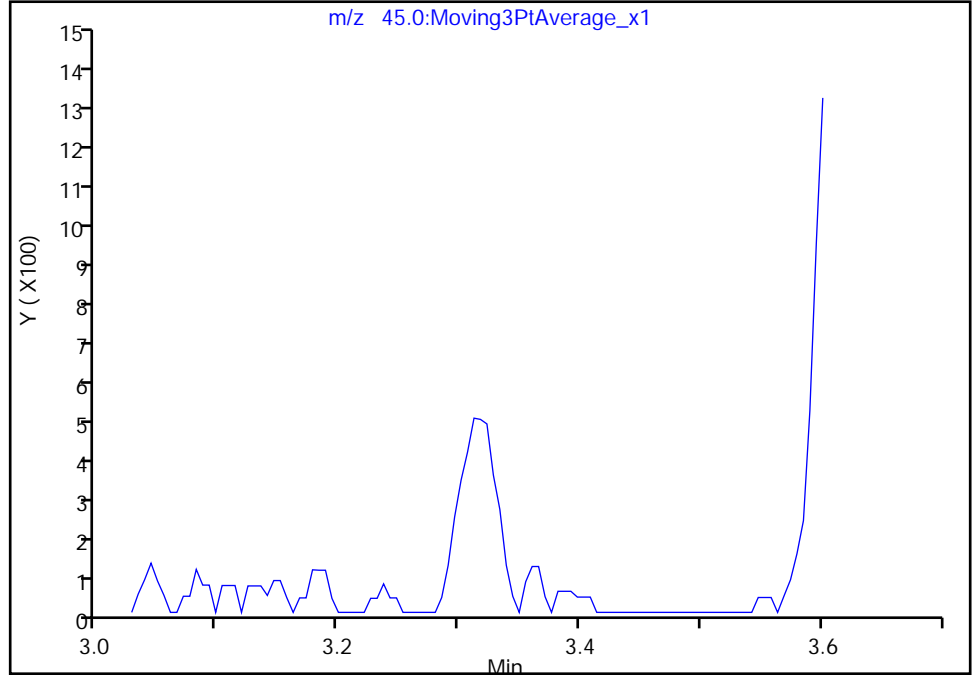
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d
Injection Date: 29-Jul-2022 14:20:30 Instrument ID: CMS19
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

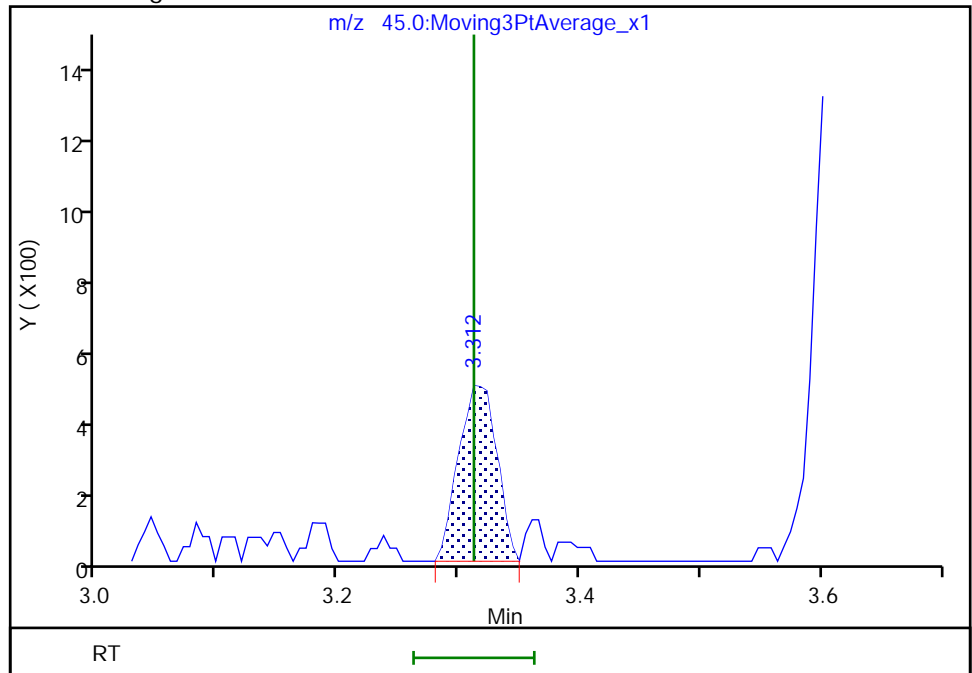
Not Detected
Expected RT: 3.31

Processing Integration Results



Manual Integration Results

RT: 3.31
Area: 1032
Amount: 8.860217
Amount Units: ug/L



Reviewer: BQP0, 31-Jul-2022 19:30:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

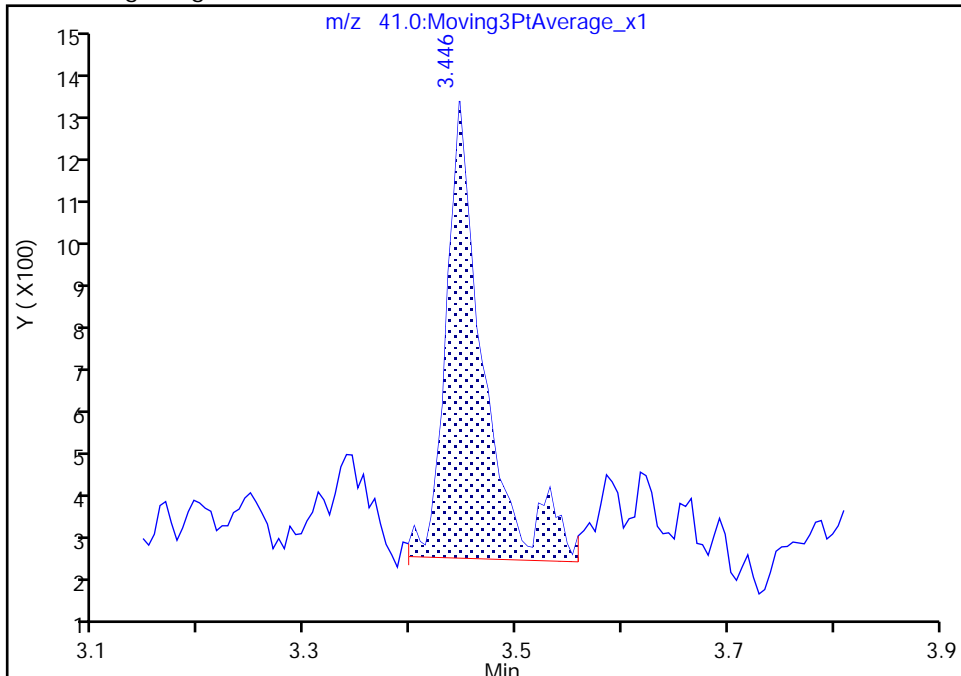
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d
Injection Date: 29-Jul-2022 14:20:30 Instrument ID: CMS19
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

19 Acetonitrile, CAS: 75-05-8

Signal: 1

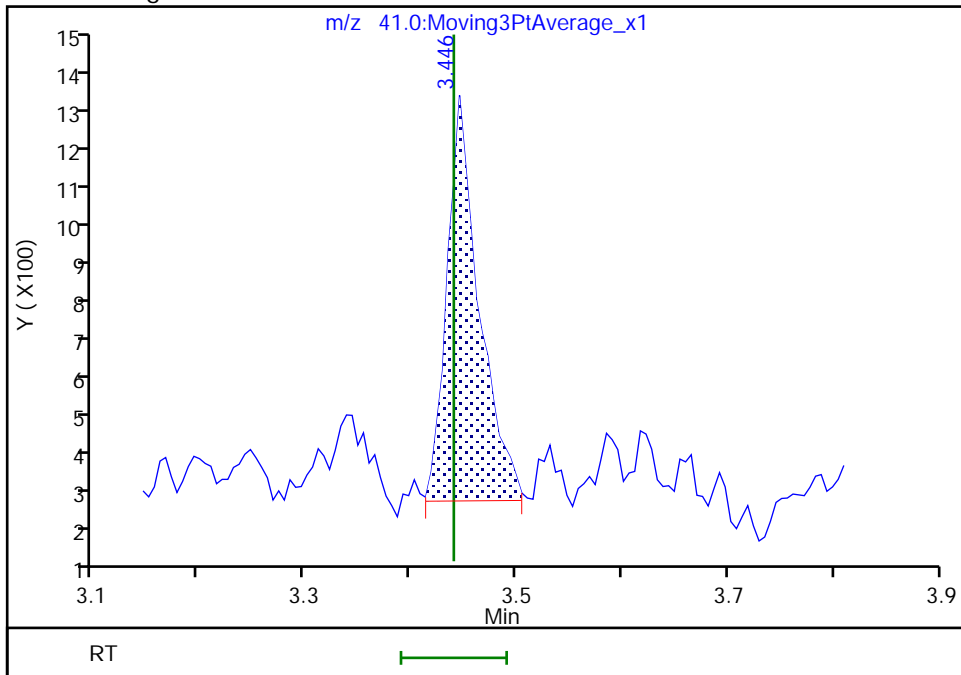
RT: 3.45
Area: 2555
Amount: 13.189849
Amount Units: ug/L

Processing Integration Results



RT: 3.45
Area: 2137
Amount: 11.747157
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:30:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

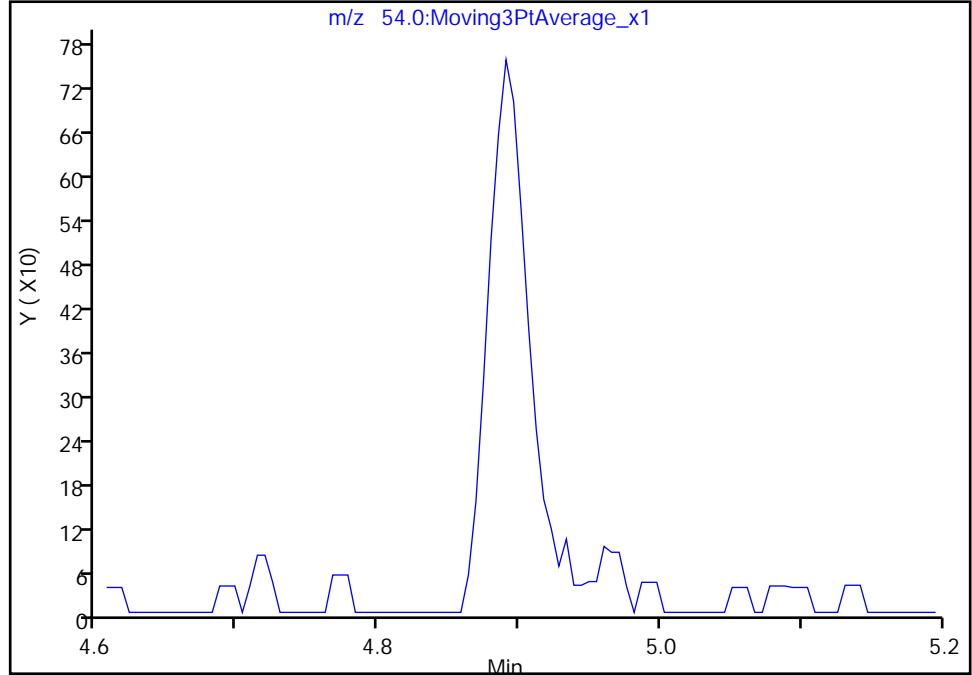
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d
Injection Date: 29-Jul-2022 14:20:30 Instrument ID: CMS19
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

37 Propionitrile, CAS: 107-12-0

Signal: 1

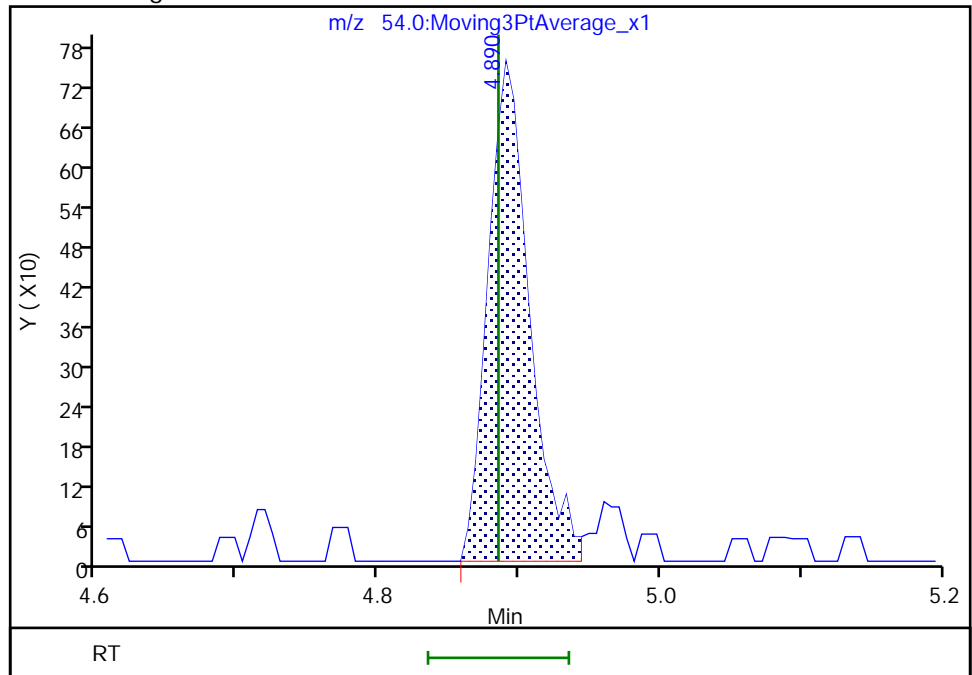
Not Detected
Expected RT: 4.88

Processing Integration Results



Manual Integration Results

RT: 4.89
Area: 1547
Amount: 11.095158
Amount Units: ug/L



Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d

Injection Date: 29-Jul-2022 14:20:30

Instrument ID: CMS19

Lims ID: STD03AP

Client ID:

Operator ID: EA

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W19cps

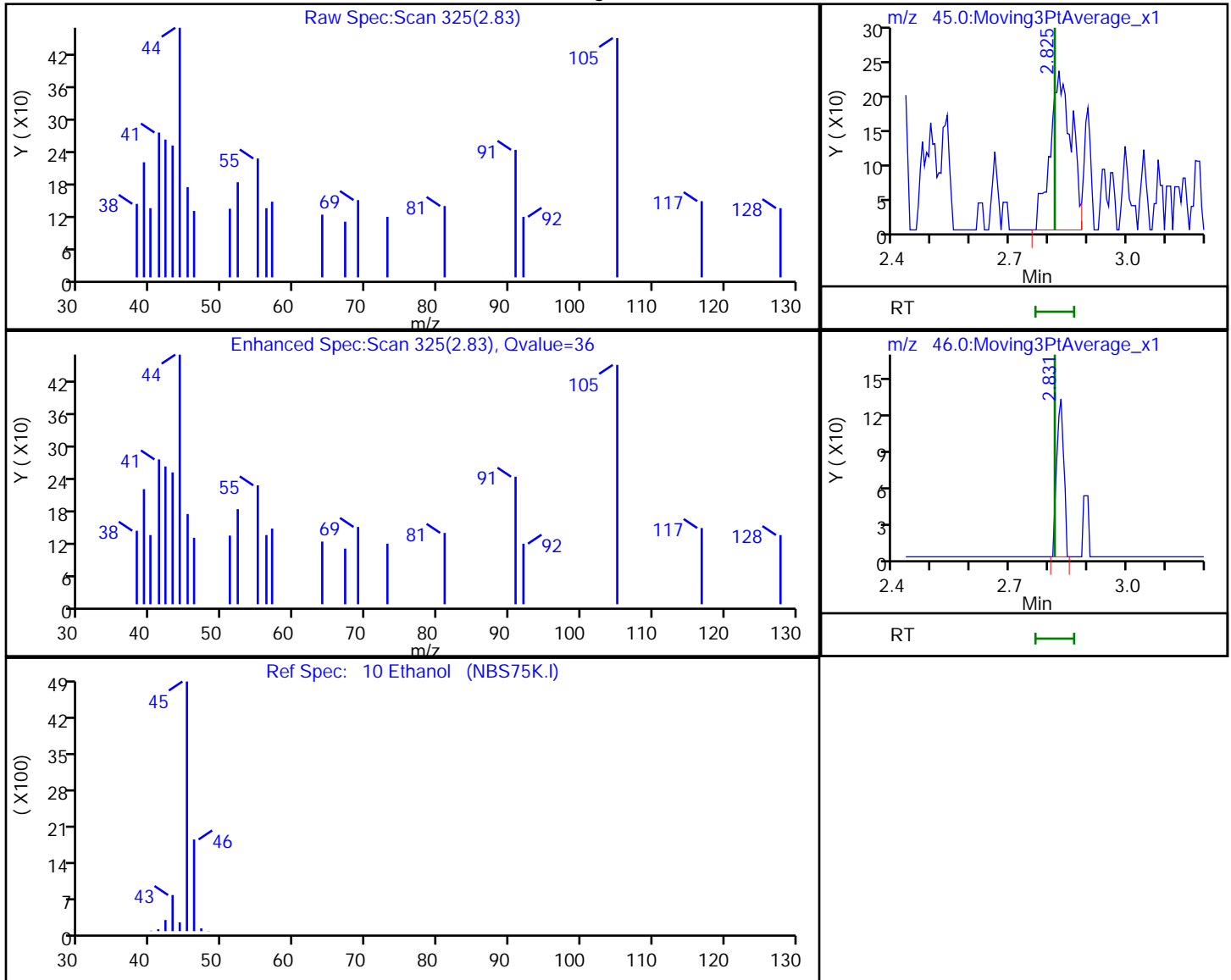
Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)

Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
2.83	45.00	901	52.413239
2.83	46.00	169	

Reviewer: BQP0, 31-Jul-2022 19:30:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD03AP.d

Injection Date: 29-Jul-2022 14:20:30

Instrument ID: CMS19

Lims ID: STD03AP

Client ID:

Operator ID: EA

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W19cps

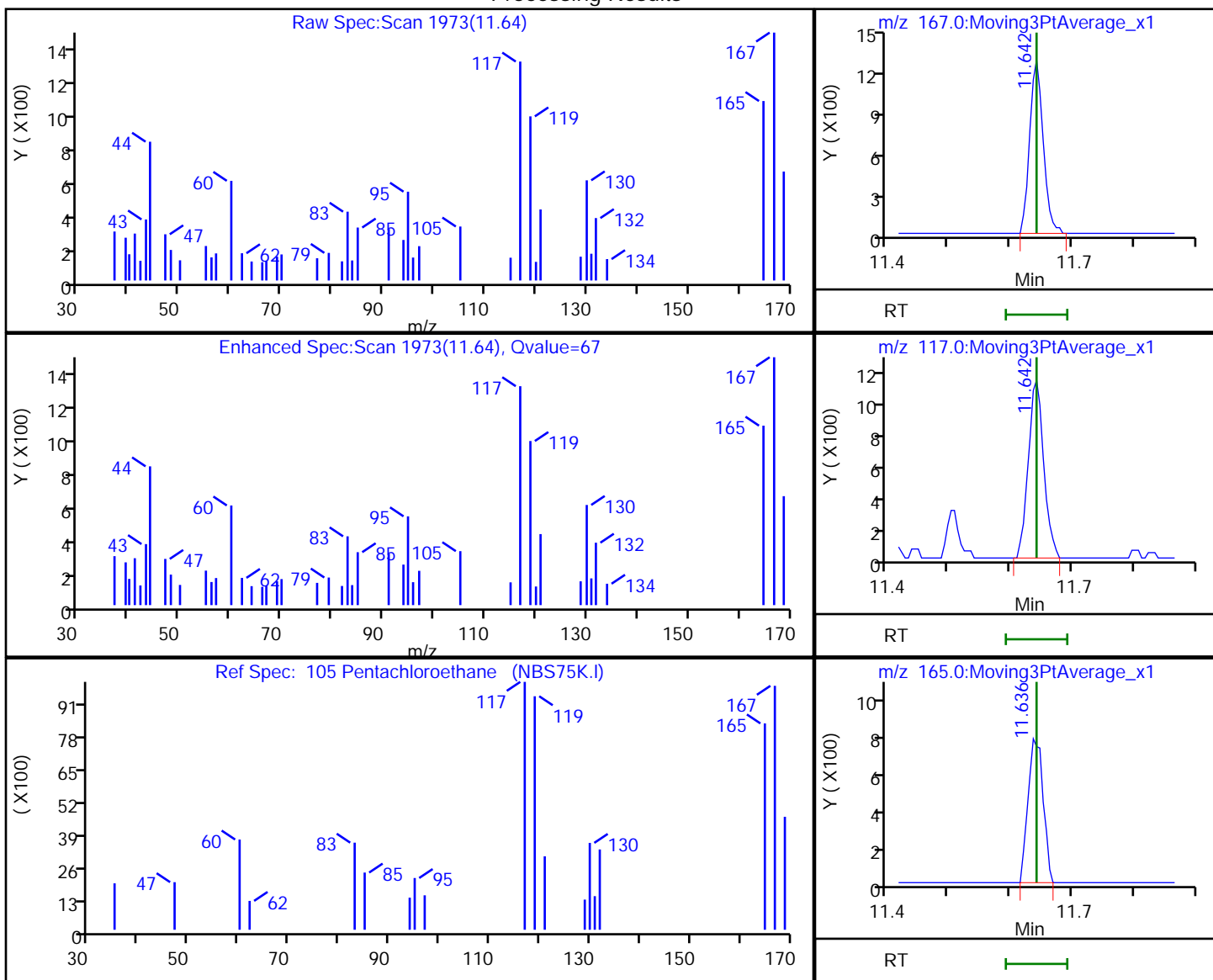
Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)

Detector: MS SCAN

105 Pentachloroethane, CAS: 76-01-7

Processing Results



RT	Mass	Response	Amount
11.64	167.00	1901	1.225392
11.64	117.00	1960	
11.64	165.00	1276	

Reviewer: BQP0, 31-Jul-2022 19:35:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04AP.d
 Lims ID: STD04AP
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Jul-2022 17:34:30 ALS Bottle#: 22 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04AP
 Misc. Info.: 500-0087271-015
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:37 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date:

31-Jul-2022 19:32:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.809	2.815	-0.006	69	1085	80.0	93.3	
18 Isopropyl alcohol	45	3.312	3.312	0.000	54	1789	20.0	22.1	a
19 Acetonitrile	41	3.441	3.441	0.000	97	2829	20.0	17.8	
* 23 TBA-d9 (IS)	65	3.606	3.606	0.000	98	77652	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	91	14663	2.00	2.04	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	84	9781	2.00	1.98	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	95	11774	2.00	1.99	
38 Ethyl acetate	43	4.869	4.864	0.005	97	13728	4.00	2.82	
37 Propionitrile	54	4.885	4.885	0.000	53	2797	20.0	20.4	
40 Methacrylonitrile	41	5.035	5.035	0.000	87	13162	20.0	19.7	
52 Isooctane	57	5.746	5.746	0.000	97	28002	2.00	2.05	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	89	9715	2.00	1.97	
* 55 Fluorobenzene (IS)	96	5.966	5.971	-0.005	99	562323	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	71	2340	50.0	50.8	
58 Ethyl acrylate	55	6.469	6.463	0.006	76	2980	2.00	2.19	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	78	7424	2.00	2.10	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	75	9822	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	67	3738	4.00	4.11	
67 2-Nitropropane	43	7.180	7.185	-0.005	68	1802	4.00	4.30	
79 n-Butyl acetate	43	8.769	8.769	0.000	86	3879	2.00	2.25	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	372818	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	34	9134	2.00	2.09	
92 Cyclohexanone	55	10.823	10.823	0.000	90	6880	200.0	203.7	
103 2-Ethyltoluene	105	11.503	11.503	0.000	96	30161	2.00	1.96	
105 Pentachloroethane	167	11.642	11.642	0.000	72	1979	2.00	1.79	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	93	192033	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	90	22143	2.00	1.91	
113 Benzyl chloride	126	12.123	12.123	0.000	90	1611	2.00	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	94	9384	2.00	1.93	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	51	6681	2.00	1.81	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	73	5531	2.00	1.88	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LOWAPIX_00042	Amount Added: 2.00	Units: uL
LOWCYCHXWK_00219	Amount Added: 2.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04AP.d

Injection Date: 29-Jul-2022 17:34:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD04AP

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

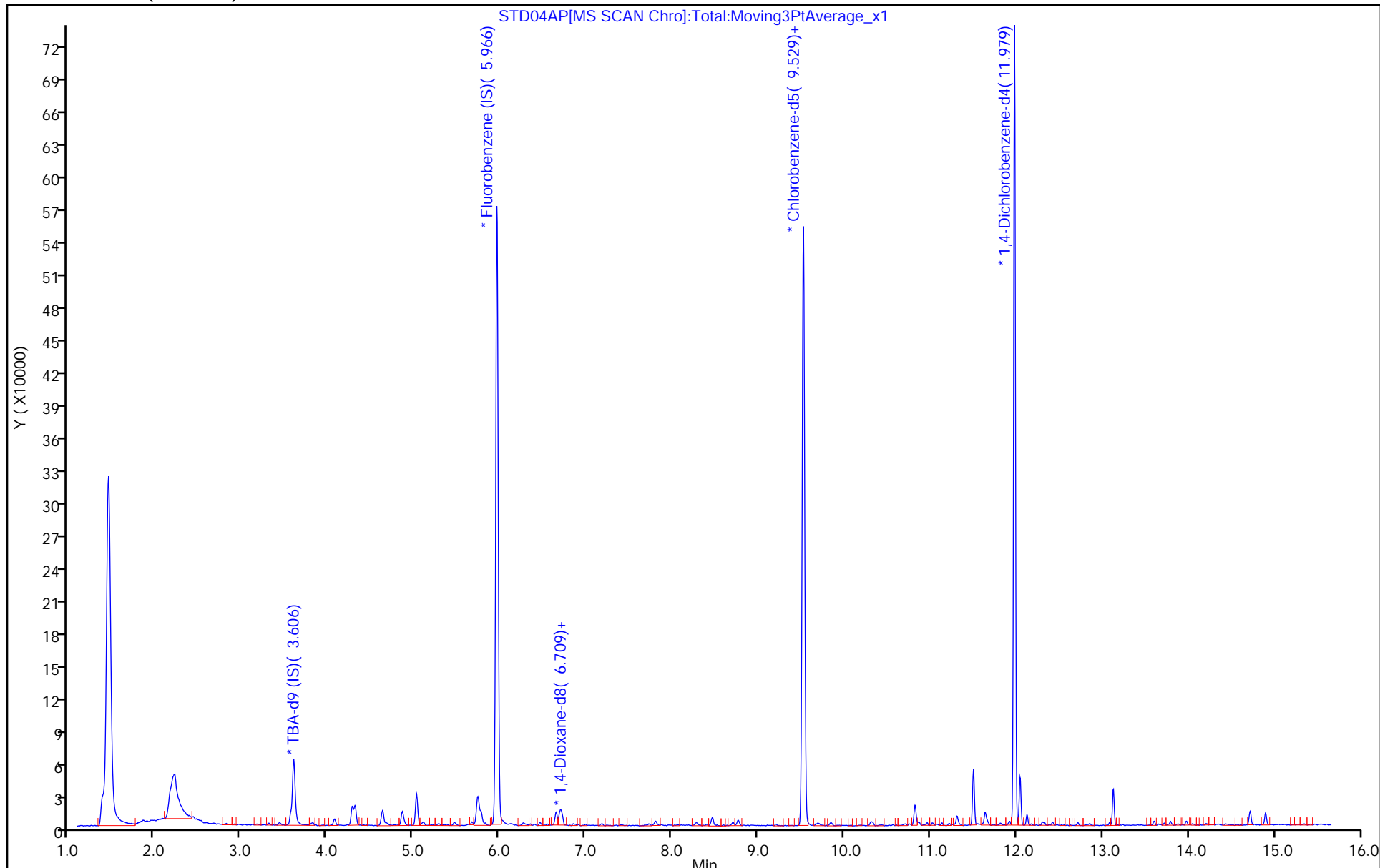
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

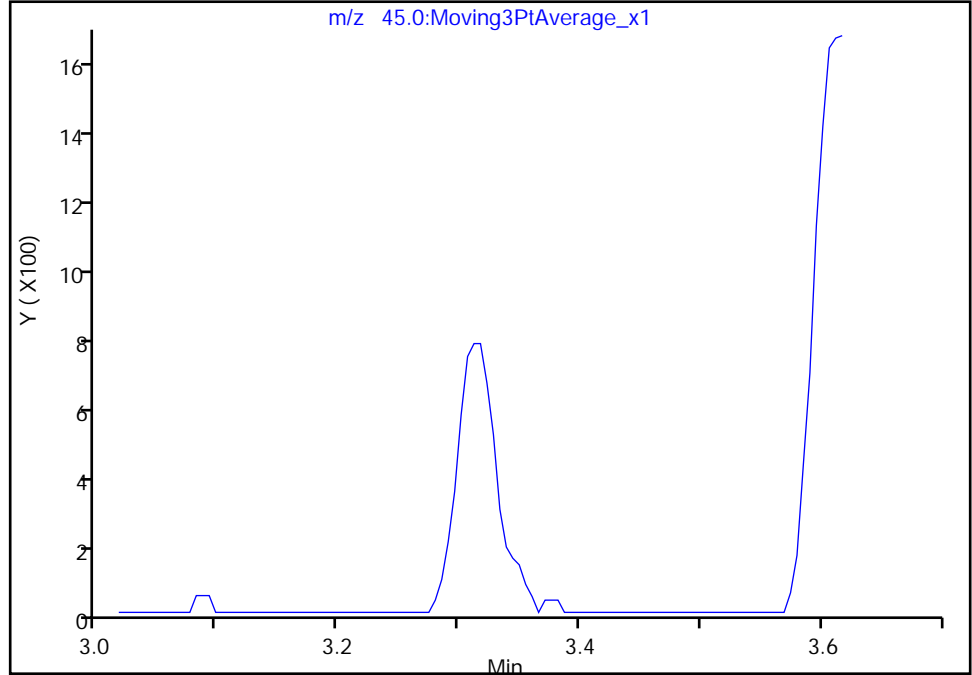
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD04AP.d
Injection Date: 29-Jul-2022 17:34:30 Instrument ID: CMS19
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 22 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

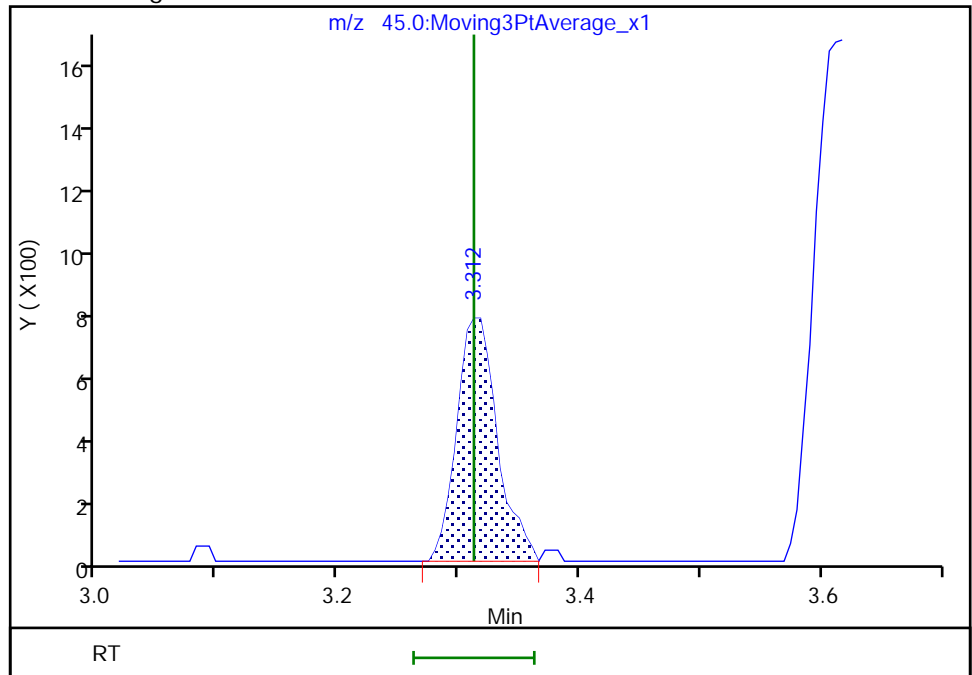
Not Detected
Expected RT: 3.31

Processing Integration Results



Manual Integration Results

RT: 3.31
Area: 1789
Amount: 22.066766
Amount Units: ug/L



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05AP.d
 Lims ID: STD05AP
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Jul-2022 17:59:30 ALS Bottle#: 23 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD05AP
 Misc. Info.: 500-0087271-016
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:40 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:32:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	89	2442	200.0	205.2	
18 Isopropyl alcohol	45	3.312	3.312	0.000	64	3502	50.0	50.4	a
19 Acetonitrile	41	3.446	3.441	0.005	98	6182	50.0	45.5	
* 23 TBA-d9 (IS)	65	3.607	3.606	0.001	97	79487	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	91	33585	5.00	4.64	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	92	24566	5.00	4.95	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	95	27481	5.00	4.63	
38 Ethyl acetate	43	4.869	4.864	0.005	98	20701	10.0	10.8	
37 Propionitrile	54	4.885	4.885	0.000	92	7166	50.0	51.9	
40 Methacrylonitrile	41	5.035	5.035	0.000	92	33237	50.0	49.4	
52 Isooctane	57	5.746	5.746	0.000	96	66663	5.00	4.85	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	93	23788	5.00	4.81	
* 55 Fluorobenzene (IS)	96	5.966	5.971	-0.005	99	565390	50.0	50.0	
56 n-Butanol	56	6.276	6.271	0.005	76	4510	125.0	128.5	
58 Ethyl acrylate	55	6.469	6.463	0.006	95	7203	5.00	5.27	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	90	16028	5.00	4.52	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	79	10150	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	81	9249	10.0	10.1	
67 2-Nitropropane	43	7.180	7.185	-0.005	84	3170	10.0	8.69	
79 n-Butyl acetate	43	8.769	8.769	0.000	91	8381	5.00	4.83	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	374465	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	37	21373	5.00	4.86	
92 Cyclohexanone	55	10.823	10.823	0.000	94	15138	500.0	453.0	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	72813	5.00	4.79	
105 Pentachloroethane	167	11.642	11.642	0.000	84	6901	5.00	5.57	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	189974	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	52867	5.00	4.60	
113 Benzyl chloride	126	12.129	12.123	0.006	91	3655	5.00	4.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	96	22929	5.00	4.77	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	78	17139	5.00	4.71	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	82	13062	5.00	4.48	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LOWAPIX_00042	Amount Added: 5.00	Units: uL
LOWCYCHXWK_00219	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05AP.d

Injection Date: 29-Jul-2022 17:59:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD05AP

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

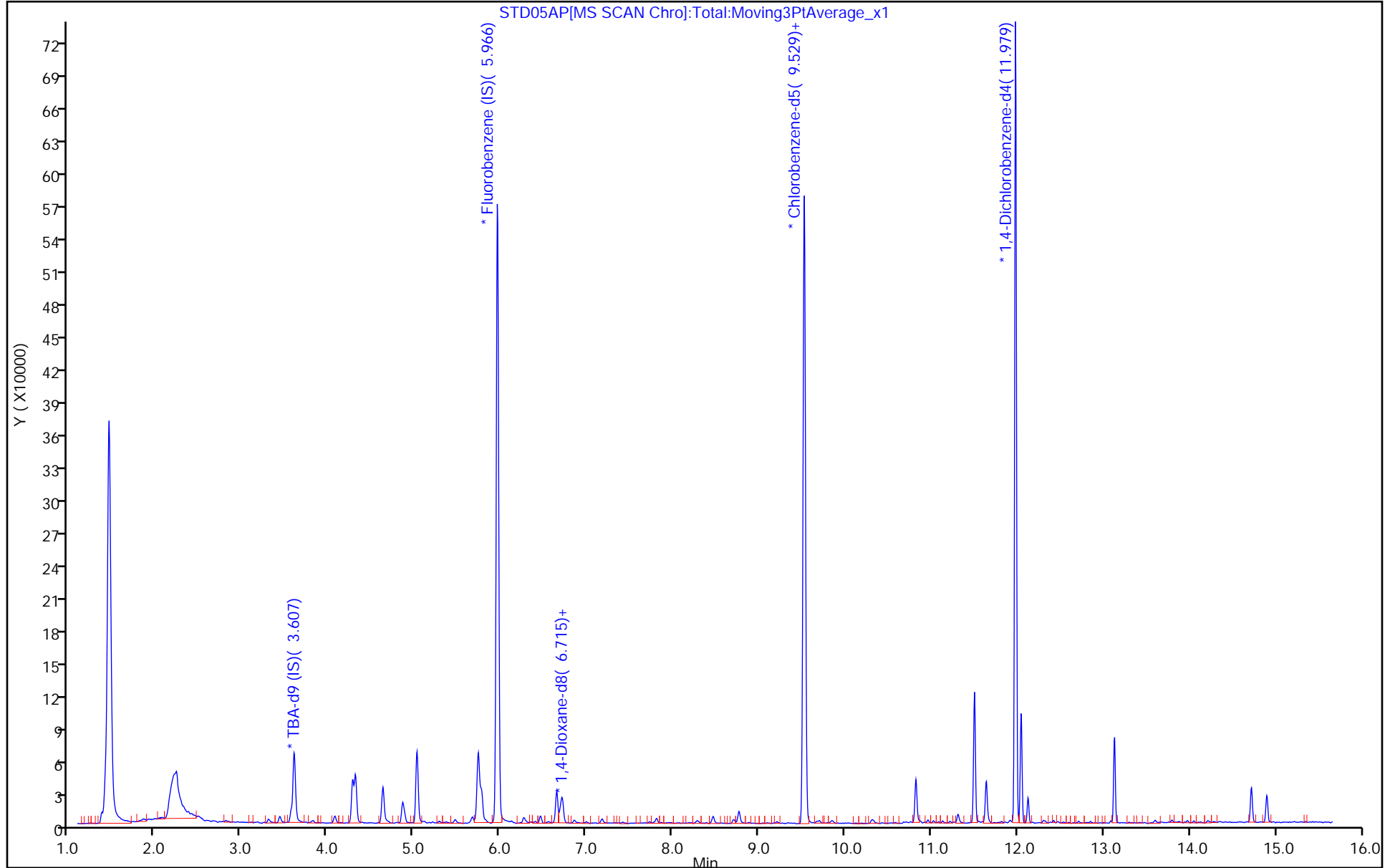
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

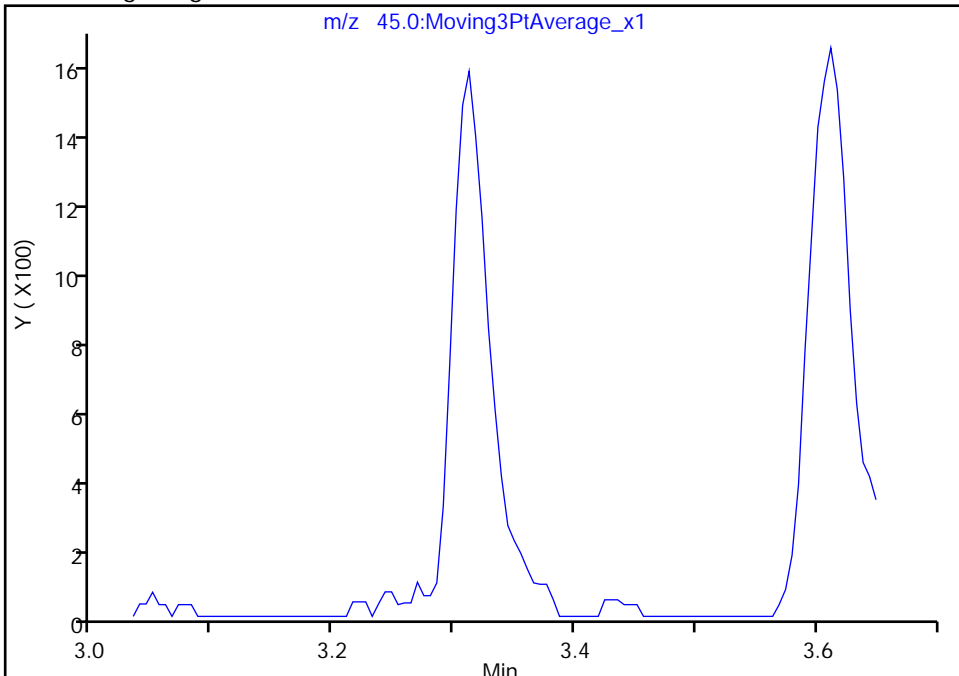
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD05AP.d
Injection Date: 29-Jul-2022 17:59:30 Instrument ID: CMS19
Lims ID: STD05AP
Client ID:
Operator ID: EA ALS Bottle#: 23 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

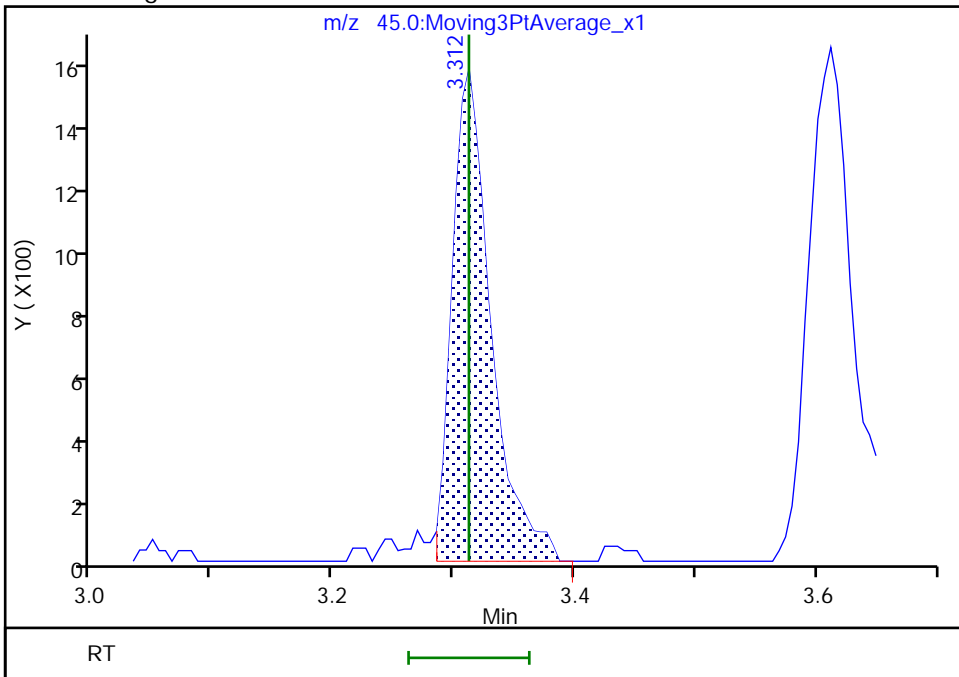
Signal: 1

Not Detected
Expected RT: 3.31

Processing Integration Results



Manual Integration Results



RT: 3.31
Area: 3502
Amount: 50.375889
Amount Units: ug/L

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD06AP.d
 Lims ID: STD06AP
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-Jul-2022 18:23:30 ALS Bottle#: 24 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD06AP
 Misc. Info.: 500-0087271-017
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:43 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:32:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	94	8289	800.0	738.9	
18 Isopropyl alcohol	45	3.312	3.312	0.000	87	11600	200.0	199.6	
19 Acetonitrile	41	3.441	3.441	0.000	98	22942	200.0	192.6	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	74919	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	133060	20.0	19.2	
31 2-Chloro-1,3-butadiene	53	4.318	4.323	-0.005	93	94708	20.0	19.9	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	96	109917	20.0	19.3	
38 Ethyl acetate	43	4.864	4.864	0.000	99	46817	40.0	43.4	
37 Propionitrile	54	4.885	4.885	0.000	97	25352	200.0	191.2	
40 Methacrylonitrile	41	5.035	5.035	0.000	93	130215	200.0	201.5	
52 Isooctane	57	5.746	5.746	0.000	97	268449	20.0	20.3	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	97	91514	20.0	19.3	
* 55 Fluorobenzene (IS)	96	5.966	5.971	-0.005	99	542683	50.0	50.0	
56 n-Butanol	56	6.276	6.271	0.005	89	13059	500.0	471.8	
58 Ethyl acrylate	55	6.463	6.463	0.000	96	24742	20.0	18.9	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	92	63151	20.0	18.5	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	80	9853	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	87	35892	40.0	40.9	
67 2-Nitropropane	43	7.185	7.185	0.000	91	11257	40.0	37.5	
79 n-Butyl acetate	43	8.769	8.769	0.000	95	32609	20.0	20.2	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	348774	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	50	78038	20.0	19.0	
92 Cyclohexanone	55	10.823	10.823	0.000	96	64106	2000.0	2102.3	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	278798	20.0	20.1	
105 Pentachloroethane	167	11.642	11.642	0.000	90	27523	20.0	23.3	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	173365	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	207750	20.0	19.8	
113 Benzyl chloride	126	12.123	12.123	0.000	97	13412	20.0	19.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	96	86886	20.0	19.8	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	85	66056	20.0	19.9	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	90	54244	20.0	20.4	

QC Flag Legend

Processing Flags

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
LOWAPIX_00042	Amount Added: 20.00	Units: uL
LOWCYCHXWK_00219	Amount Added: 20.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD06AP.d

Injection Date: 29-Jul-2022 18:23:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD06AP

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

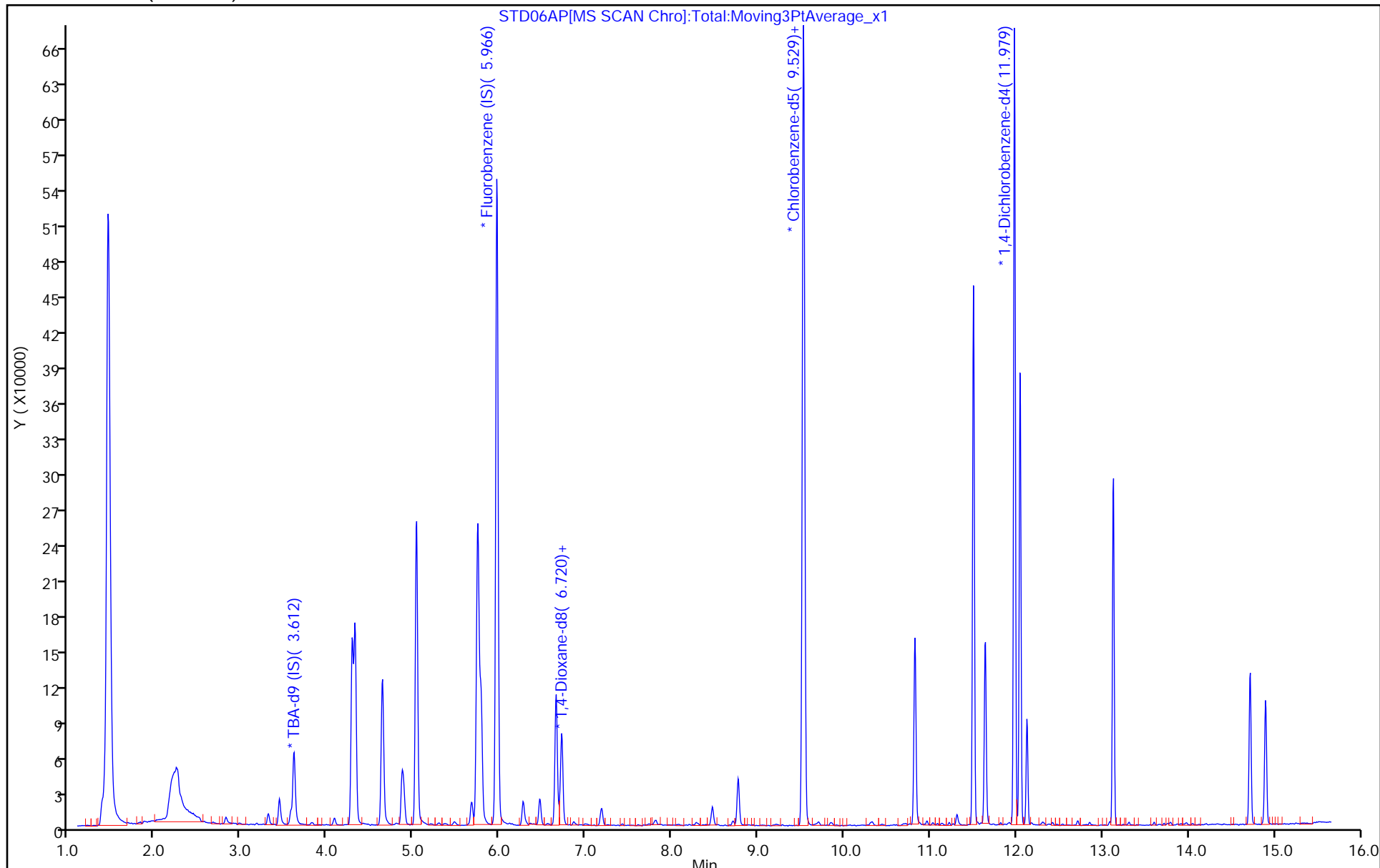
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD07AP.d
 Lims ID: STD07AP
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 29-Jul-2022 18:48:30 ALS Bottle#: 25 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD07AP
 Misc. Info.: 500-0087271-018
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:47 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:30:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.815	2.815	0.000	93	19942	2000.0	1853.7	
18 Isopropyl alcohol	45	3.312	3.312	0.000	95	27342	500.0	503.6	
19 Acetonitrile	41	3.441	3.441	0.000	100	61108	500.0	545.5	
* 23 TBA-d9 (IS)	65	3.606	3.606	0.000	98	71852	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	354542	50.0	53.3	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	92	238452	50.0	52.2	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	96	292786	50.0	53.6	
38 Ethyl acetate	43	4.864	4.864	0.000	100	93427	100.0	104.7	
37 Propionitrile	54	4.885	4.885	0.000	99	64713	500.0	509.2	
40 Methacrylonitrile	41	5.035	5.035	0.000	92	319859	500.0	516.4	
52 Isooctane	57	5.746	5.746	0.000	97	664508	50.0	52.5	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	96	238560	50.0	52.4	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	520166	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	91	31640	1250.0	1248.5	
58 Ethyl acrylate	55	6.463	6.463	0.000	98	61415	50.0	48.8	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	169149	50.0	51.8	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	57	8849	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	90	89693	100.0	106.6	
67 2-Nitropropane	43	7.185	7.185	0.000	95	28952	100.0	100.6	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	79085	50.0	49.8	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	82	342811	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	76	201973	50.0	50.1	
92 Cyclohexanone	55	10.823	10.823	0.000	96	146468	5000.0	4872.4	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	707021	50.0	51.7	
105 Pentachloroethane	167	11.642	11.642	0.000	91	45795	50.0	39.2	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	170902	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	547149	50.0	52.9	
113 Benzyl chloride	126	12.123	12.123	0.000	98	35514	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	230884	50.0	53.4	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	92	173543	50.0	53.0	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	137082	50.0	52.3	

QC Flag Legend

Processing Flags

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00179	Amount Added: 2.50	Units: uL
8260 23DCP WK_00239	Amount Added: 2.50	Units: uL
8260/624STD2_00336	Amount Added: 2.50	Units: uL
8260ADDS 2016_00221	Amount Added: 2.50	Units: uL
8260CYCHXWK_00330	Amount Added: 2.50	Units: uL
8260POLR ADDS_00294	Amount Added: 2.50	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD07AP.d

Injection Date: 29-Jul-2022 18:48:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD07AP

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

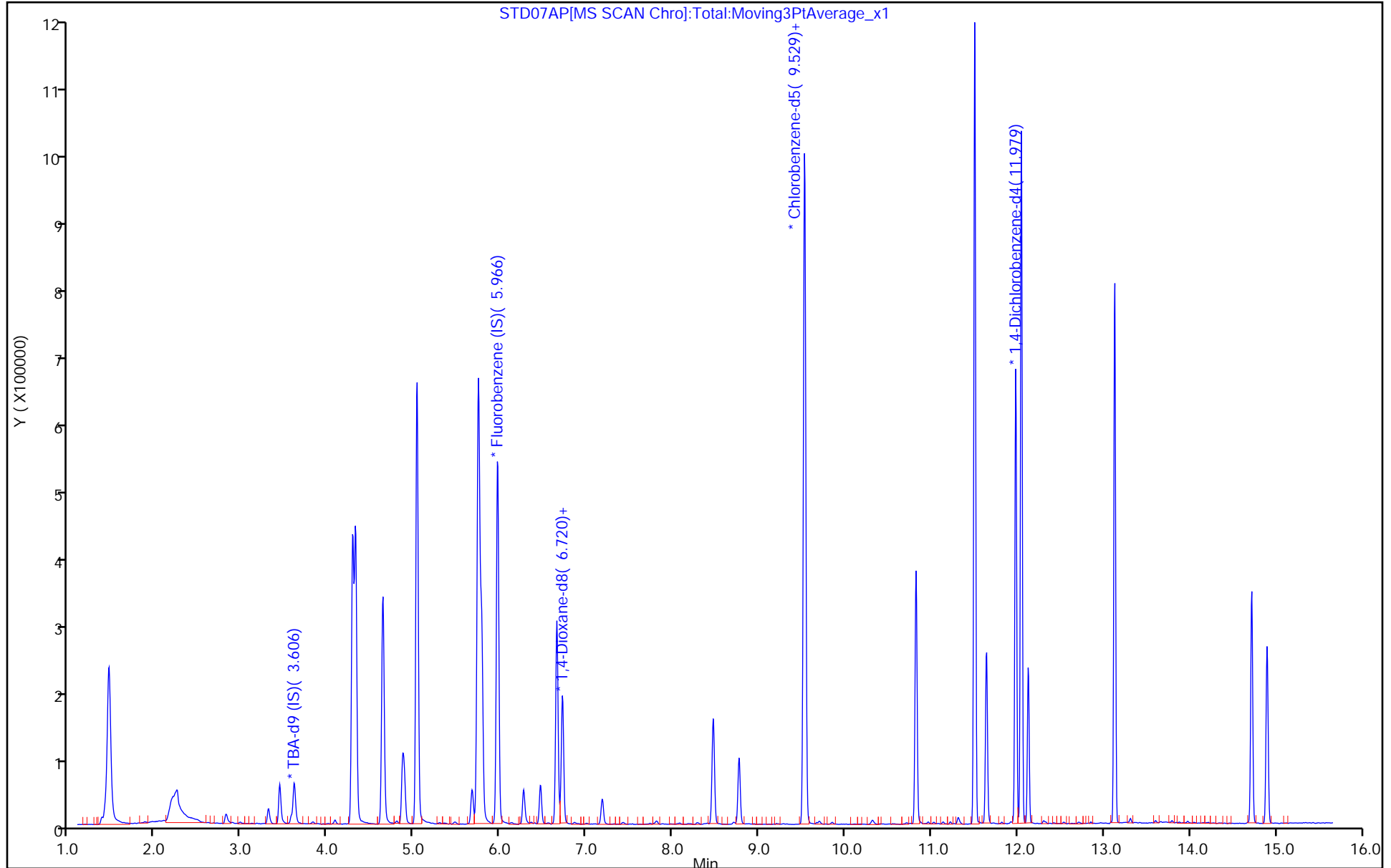
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD08AP.d
 Lims ID: STD08AP
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 29-Jul-2022 19:13:30 ALS Bottle#: 26 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD08AP
 Misc. Info.: 500-0087271-019
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:50 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.825	2.815	0.010	96	50039	4000.0	3995.3	
18 Isopropyl alcohol	45	3.312	3.312	0.000	96	62881	1000.0	1003.5	
19 Acetonitrile	41	3.441	3.441	0.000	99	124861	1000.0	984.7	
* 23 TBA-d9 (IS)	65	3.617	3.606	0.011	96	83649	1000.0	1000.0	
32 Isopropyl ether	45	4.291	4.286	0.005	93	745720	100.0	98.6	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	93	489175	100.0	94.2	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	97	606805	100.0	97.6	
38 Ethyl acetate	43	4.869	4.864	0.005	99	198440	200.0	207.1	
37 Propionitrile	54	4.885	4.885	0.000	99	137402	1000.0	950.7	
40 Methacrylonitrile	41	5.035	5.035	0.000	92	678709	1000.0	963.5	
52 Isooctane	57	5.746	5.746	0.000	97	1352746	100.0	94.0	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	96	499682	100.0	96.5	
* 55 Fluorobenzene (IS)	96	5.971	5.966	0.005	99	591589	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	90	73095	2500.0	2514.1	
58 Ethyl acrylate	55	6.463	6.463	0.000	99	140143	100.0	98.0	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	92	386418	100.0	104.0	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	45	12787	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	90	199868	200.0	208.9	
67 2-Nitropropane	43	7.185	7.185	0.000	94	65385	200.0	199.9	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	169374	100.0	93.1	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	76	392414	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	97	441551	100.0	95.8	
92 Cyclohexanone	55	10.823	10.823	0.000	96	350184	10000	10334	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	1513803	100.0	98.3	
105 Pentachloroethane	167	11.642	11.642	0.000	91	132238	100.0	99.9	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	192660	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	1123078	100.0	96.3	
113 Benzyl chloride	126	12.123	12.123	0.000	98	76213	100.0	97.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	465381	100.0	95.5	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	90	362623	100.0	98.2	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	291165	100.0	98.5	

QC Flag Legend

Processing Flags

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00179	Amount Added: 5.00	Units: uL
8260 23DCP WK_00239	Amount Added: 5.00	Units: uL
8260/624STD2_00336	Amount Added: 5.00	Units: uL
8260ADDS 2016_00221	Amount Added: 5.00	Units: uL
8260CYCHXWK_00330	Amount Added: 5.00	Units: uL
8260POLR ADDS_00294	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD08AP.d

Injection Date: 29-Jul-2022 19:13:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD08AP

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

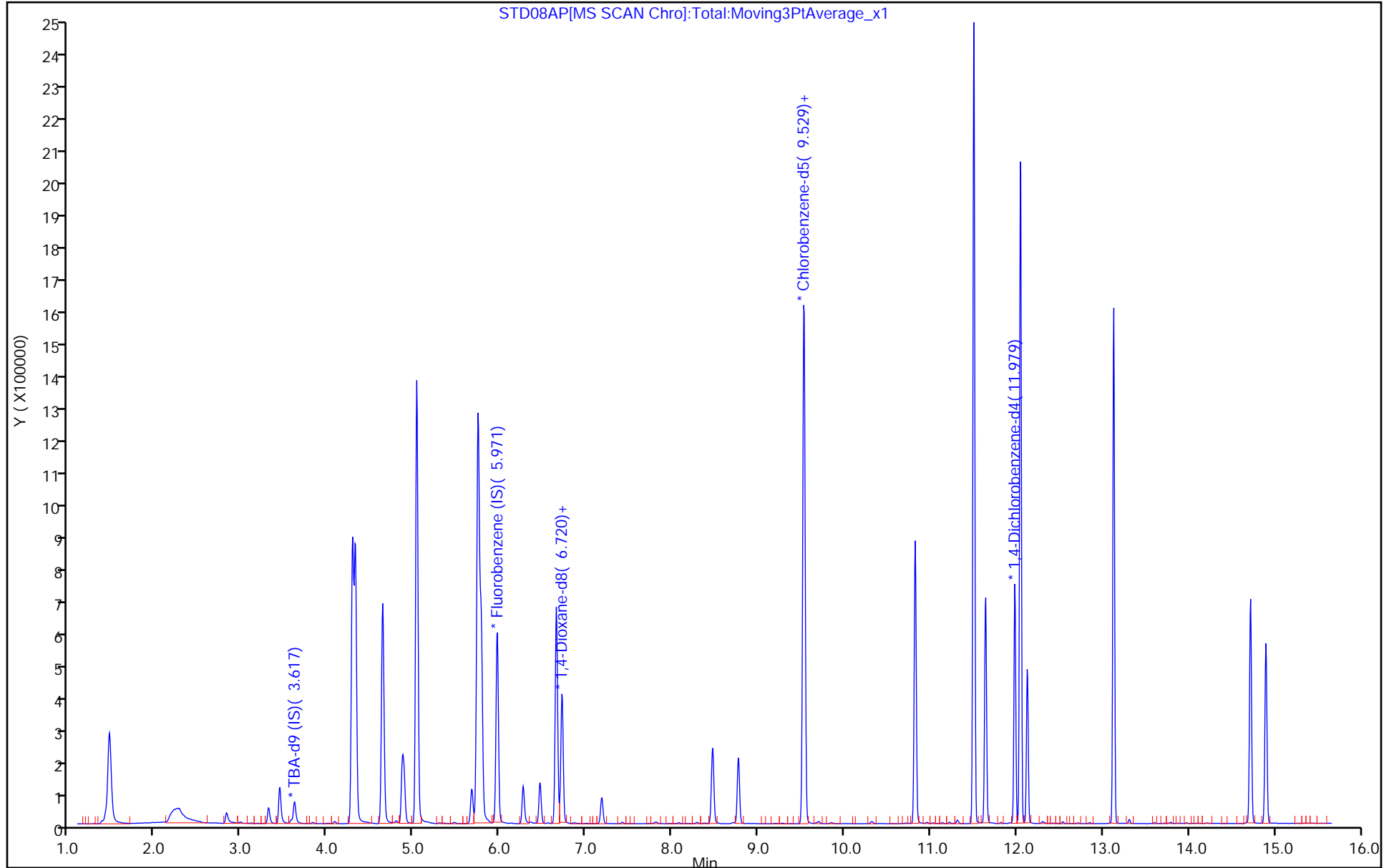
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09AP.d
 Lims ID: STD09AP
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 29-Jul-2022 19:37:30 ALS Bottle#: 27 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD09AP
 Misc. Info.: 500-0087271-020
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:53 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date:

31-Jul-2022 19:33:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	98	67537	6000.0	5906.4	
18 Isopropyl alcohol	45	3.312	3.312	0.000	96	85089	1500.0	1491.6	
19 Acetonitrile	41	3.441	3.441	0.000	99	186036	1500.0	1480.0	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	76370	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	1138831	150.0	151.6	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	93	742938	150.0	144.0	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	97	938512	150.0	152.0	
38 Ethyl acetate	43	4.864	4.864	0.000	99	275202	300.0	294.4	
37 Propionitrile	54	4.885	4.885	0.000	100	206414	1500.0	1437.8	
40 Methacrylonitrile	41	5.035	5.035	0.000	92	1003202	1500.0	1433.8	
52 Isooctane	57	5.746	5.746	0.000	97	2051108	150.0	143.6	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	96	783755	150.0	152.4	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	587597	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	91	101206	3750.0	3831.9	
58 Ethyl acrylate	55	6.469	6.463	0.005	98	191981	150.0	135.2	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	92	571090	150.0	154.8	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	42	10331	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	90	281790	300.0	296.5	
67 2-Nitropropane	43	7.185	7.185	0.000	97	93683	300.0	299.4	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	232602	150.0	133.3	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	65	376452	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	97	616923	150.0	139.5	
92 Cyclohexanone	55	10.823	10.823	0.000	96	486167	15000	14701	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	2279822	150.0	151.7	
105 Pentachloroethane	167	11.642	11.642	0.000	91	196528	150.0	152.0	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	188009	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	1742563	150.0	153.2	
113 Benzyl chloride	126	12.128	12.123	0.005	97	110807	150.0	145.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	94	721386	150.0	151.7	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	90	571279	150.0	158.5	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	448934	150.0	155.7	

QC Flag Legend

Processing Flags

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00179	Amount Added: 7.50	Units: uL
8260 23DCP WK_00239	Amount Added: 7.50	Units: uL
8260/624STD2_00336	Amount Added: 7.50	Units: uL
8260ADDS 2016_00221	Amount Added: 7.50	Units: uL
8260CYCHXWK_00330	Amount Added: 7.50	Units: uL
8260POLR ADDS_00294	Amount Added: 7.50	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD09AP.d

Injection Date: 29-Jul-2022 19:37:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD09AP

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

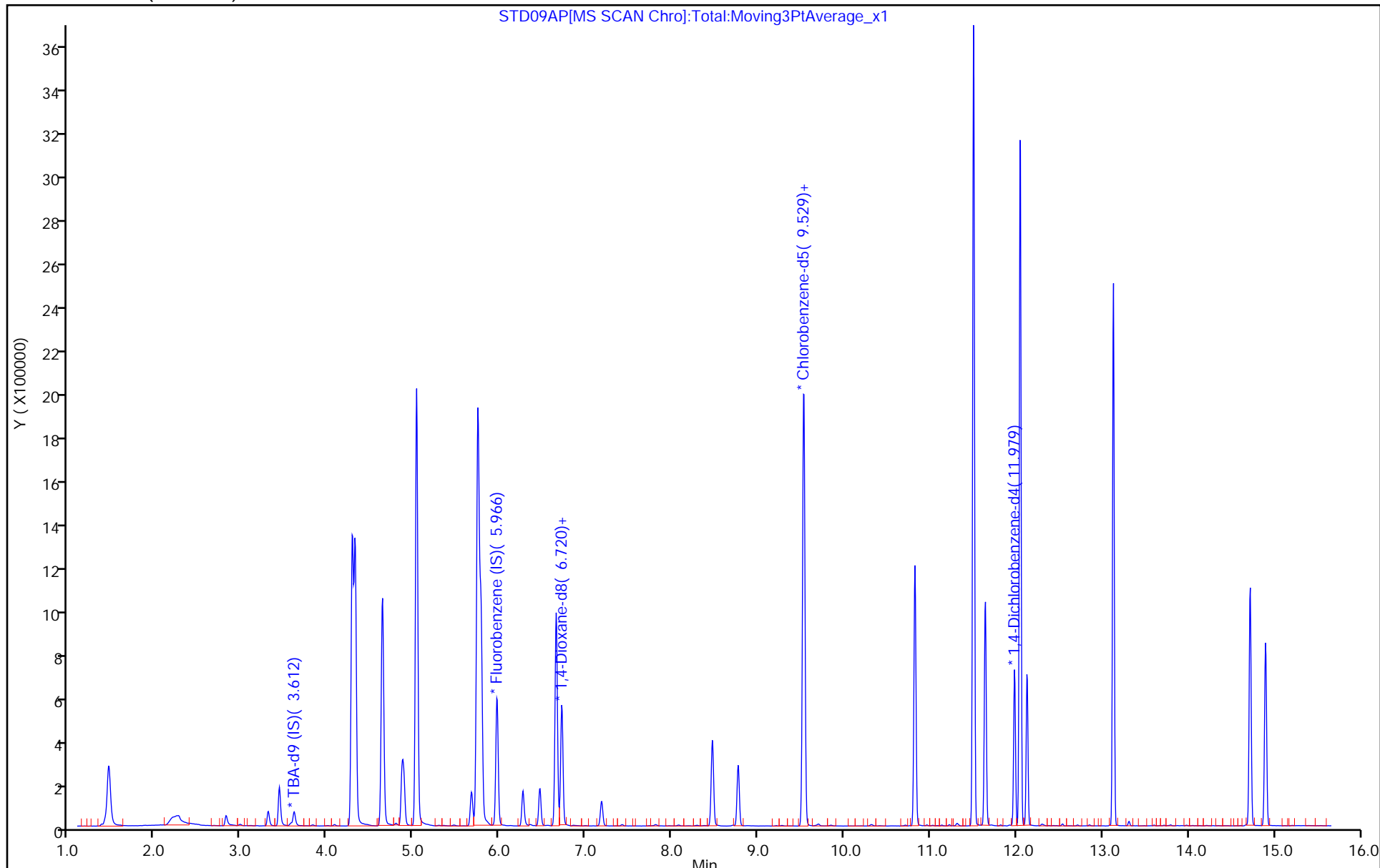
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Lims ID: STD010AP
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 29-Jul-2022 20:02:30 ALS Bottle#: 28 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD010AP
 Misc. Info.: 500-0087271-021
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub66
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 31-Jul-2022 19:41:57 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1605

First Level Reviewer: BQP0

Date: 31-Jul-2022 19:35:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	98	91680	8000.0	7790.7	
18 Isopropyl alcohol	45	3.312	3.312	0.000	98	117259	2000.0	2000.4	
19 Acetonitrile	41	3.441	3.441	0.000	100	253531	2000.0	2002.2	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	78596	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	1513724	200.0	199.8	
31 2-Chloro-1,3-butadiene	53	4.318	4.323	-0.005	93	1015530	200.0	195.2	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	97	1266717	200.0	203.5	
38 Ethyl acetate	43	4.864	4.864	0.000	99	364241	400.0	390.5	
37 Propionitrile	54	4.885	4.885	0.000	99	275413	2000.0	1902.5	
40 Methacrylonitrile	41	5.035	5.035	0.000	92	1353559	2000.0	1918.5	
52 Isooctane	57	5.746	5.746	0.000	97	2884974	200.0	200.2	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	96	1059026	200.0	204.2	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	592526	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	91	133701	5000.0	4929.4	
58 Ethyl acrylate	55	6.463	6.463	0.000	99	250859	200.0	175.2	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	736954	200.0	198.1	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	34	10383	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	90	364413	400.0	380.2	
67 2-Nitropropane	43	7.185	7.185	0.000	94	125731	400.0	403.4	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	302646	200.0	174.0	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	56	375405	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	97	819112	200.0	185.7	
92 Cyclohexanone	55	10.823	10.823	0.000	96	640963	20000	18936	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	3060999	200.0	198.9	
105 Pentachloroethane	167	11.642	11.642	0.000	92	271514	200.0	205.1	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	192444	50.0	50.0	a
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	2417725	200.0	207.6	
113 Benzyl chloride	126	12.123	12.123	0.000	98	154219	200.0	197.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	94	978963	200.0	201.1	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	92	781019	200.0	211.7	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	619753	200.0	209.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 LOWIS1_00170	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00179	Amount Added: 10.00	Units: uL
8260 23DCP WK_00239	Amount Added: 10.00	Units: uL
8260/624STD2_00336	Amount Added: 10.00	Units: uL
8260ADDS 2016_00221	Amount Added: 10.00	Units: uL
8260CYCHXWK_00330	Amount Added: 10.00	Units: uL
8260POLR ADDS_00294	Amount Added: 10.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Injection Date: 29-Jul-2022 20:02:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: STD010AP

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

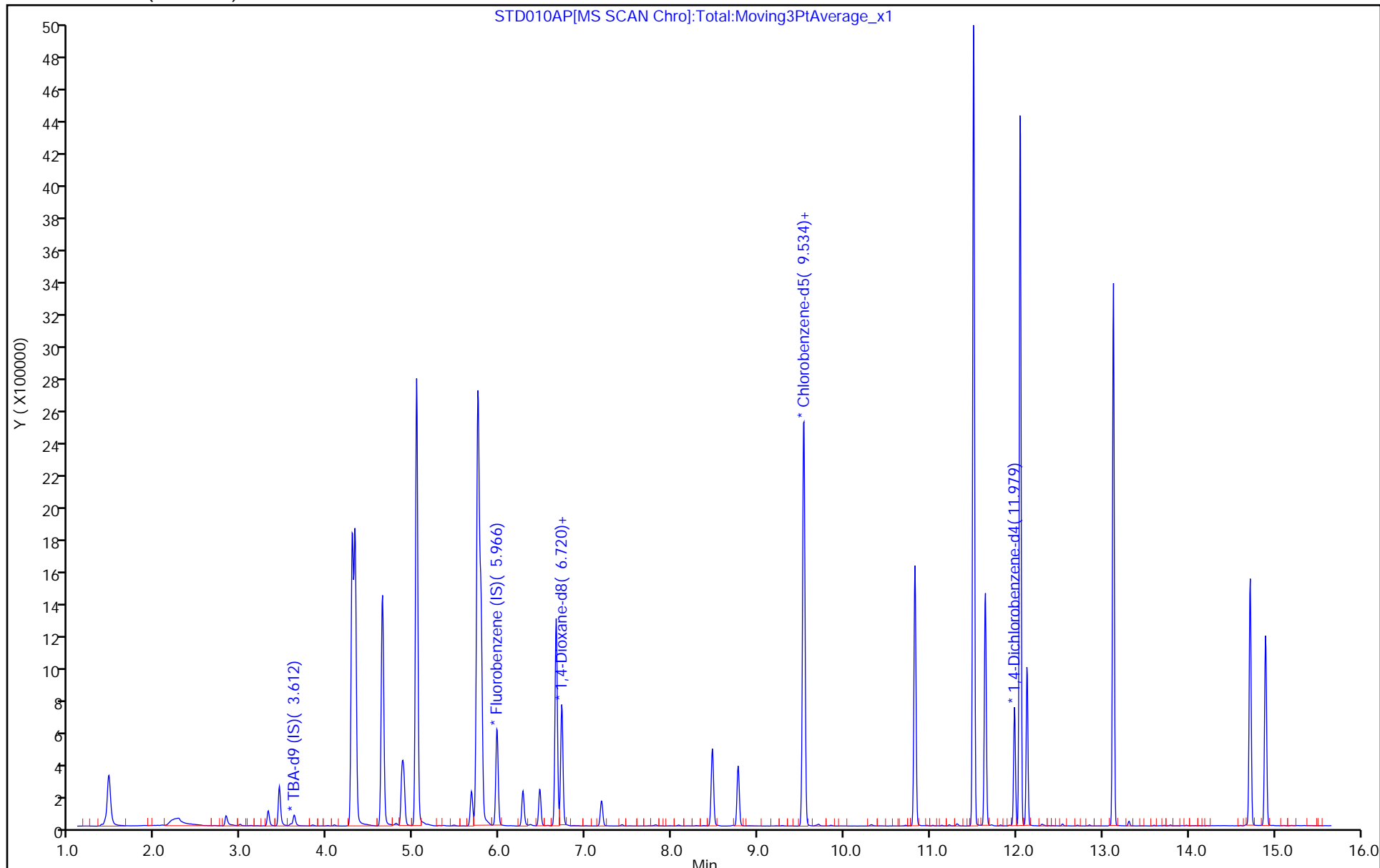
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



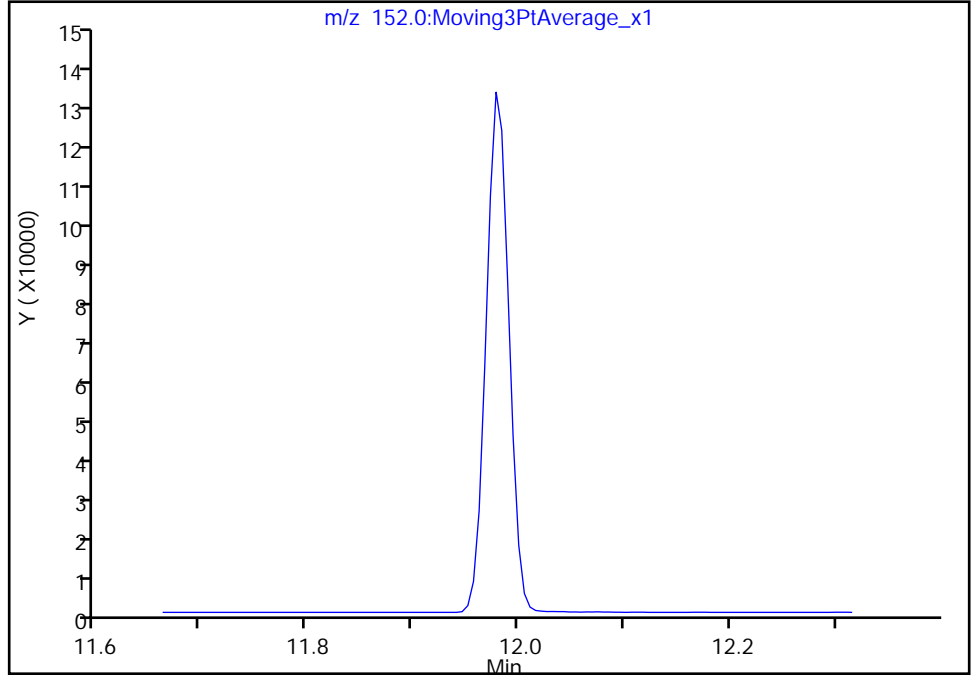
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
Injection Date: 29-Jul-2022 20:02:30 Instrument ID: CMS19
Lims ID: STD010AP
Client ID:
Operator ID: EA ALS Bottle#: 28 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

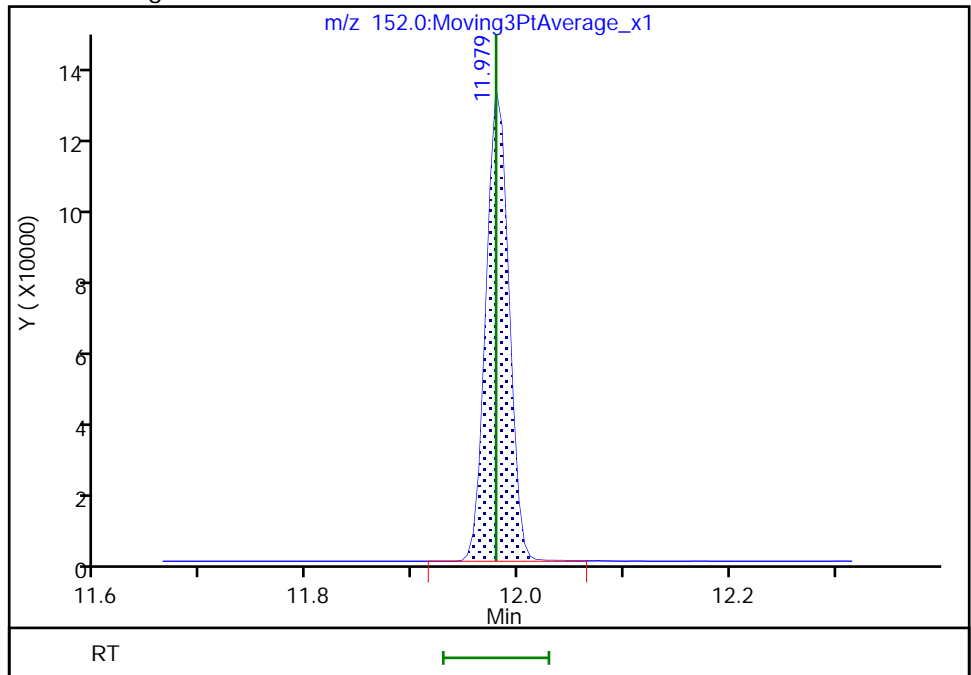
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 192444
Amount: 50.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:33:35
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Calibration

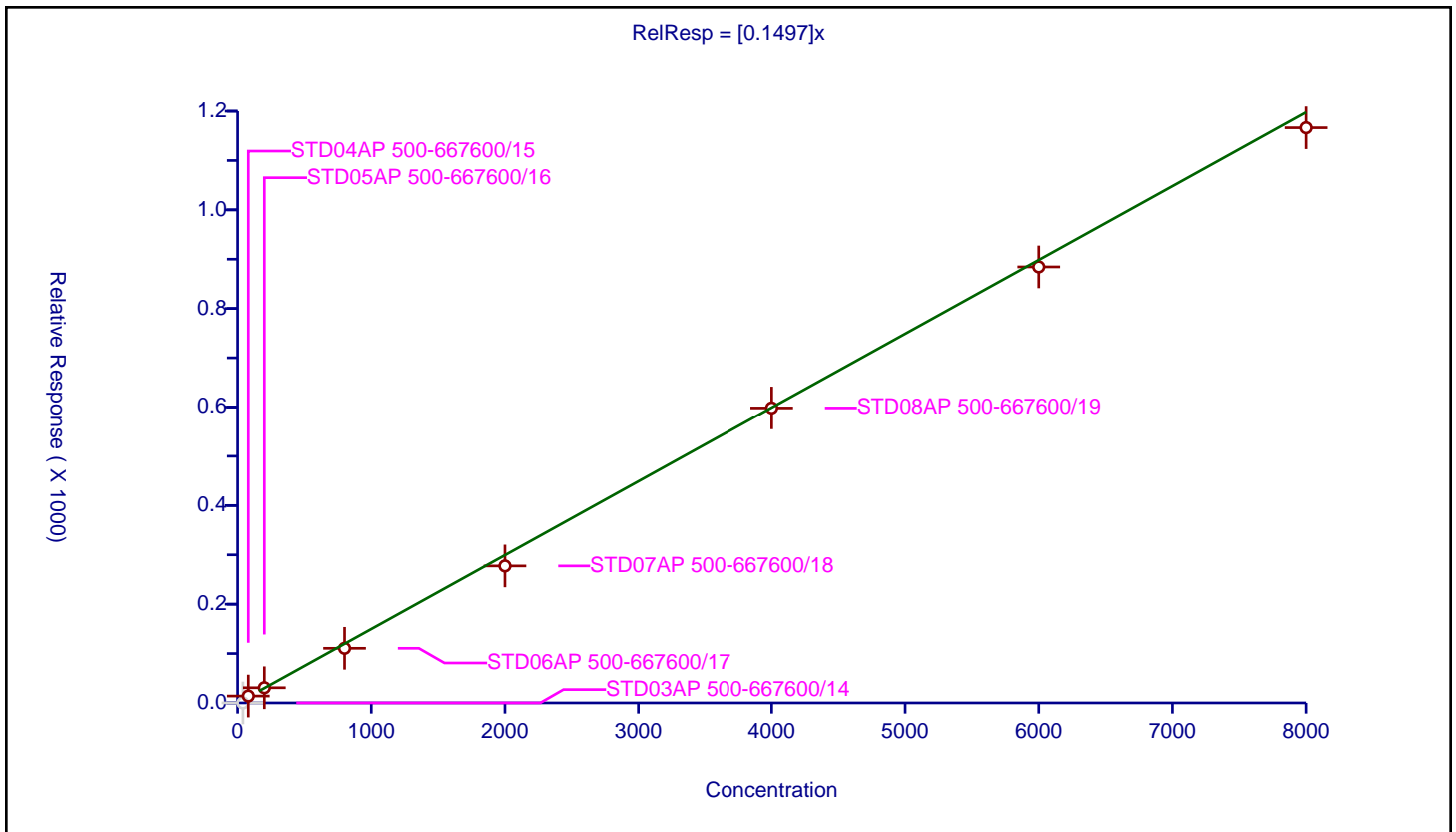
/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1497

Error Coefficients	
Standard Error:	50900
Relative Standard Error:	8.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	40.0	0.0	1000.0	77986.0	0.0	N
2	STD04AP 500-667600/15	80.0	13.972596	1000.0	77652.0	0.174657	Y
3	STD05AP 500-667600/16	200.0	30.722005	1000.0	79487.0	0.15361	Y
4	STD06AP 500-667600/17	800.0	110.639491	1000.0	74919.0	0.138299	Y
5	STD07AP 500-667600/18	2000.0	277.542727	1000.0	71852.0	0.138771	Y
6	STD08AP 500-667600/19	4000.0	598.202011	1000.0	83649.0	0.149551	Y
7	STD09AP 500-667600/20	6000.0	884.3394	1000.0	76370.0	0.14739	Y
8	STD010AP 500-667600/21	8000.0	1166.471576	1000.0	78596.0	0.145809	Y



Calibration

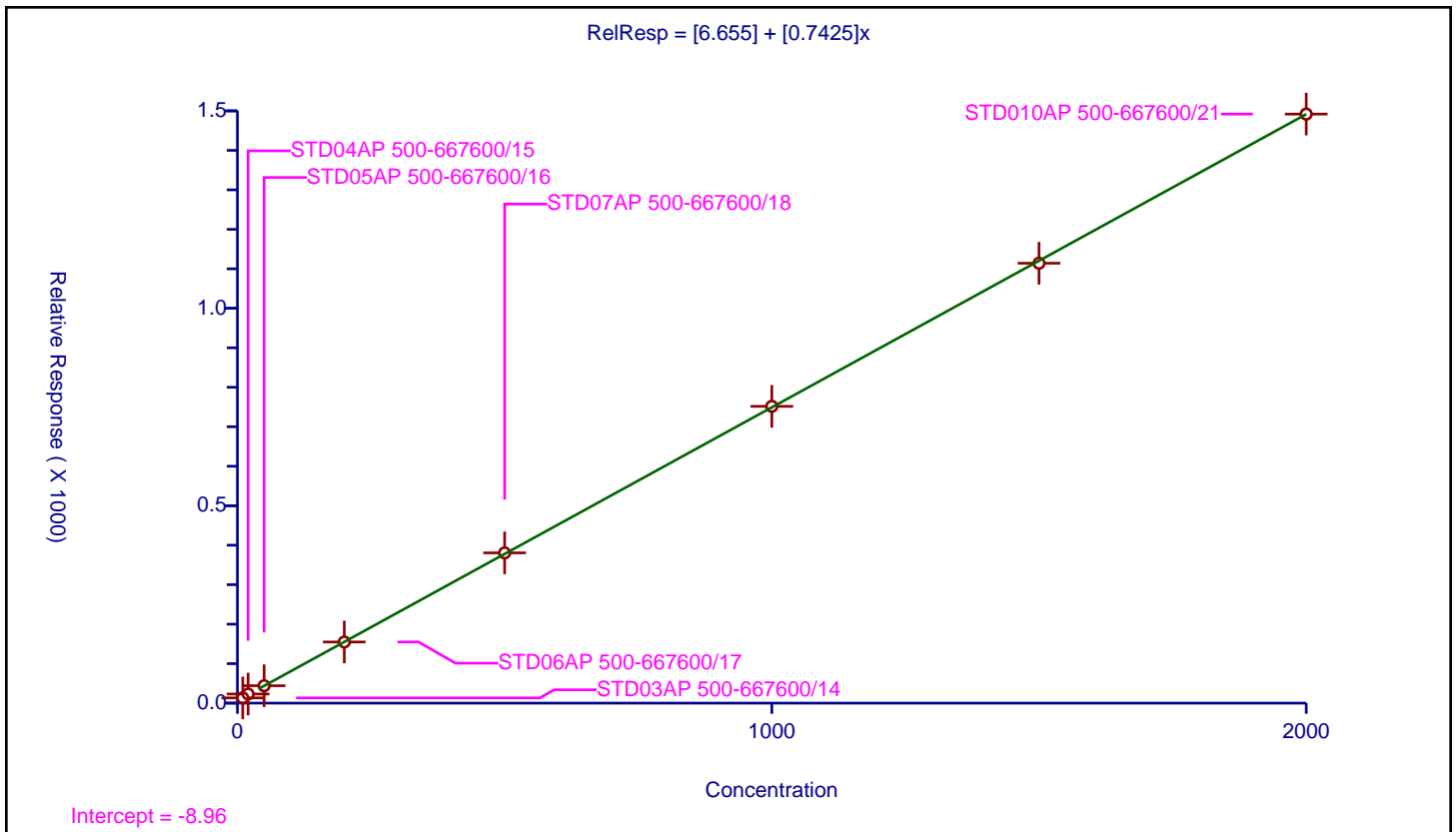
/ Isopropyl alcohol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	6.655
Slope:	0.7425

Error Coefficients	
Standard Error:	64800
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	10.0	13.233144	1000.0	77986.0	1.323314	Y
2	STD04AP 500-667600/15	20.0	23.038685	1000.0	77652.0	1.151934	Y
3	STD05AP 500-667600/16	50.0	44.057519	1000.0	79487.0	0.88115	Y
4	STD06AP 500-667600/17	200.0	154.833887	1000.0	74919.0	0.774169	Y
5	STD07AP 500-667600/18	500.0	380.532205	1000.0	71852.0	0.761064	Y
6	STD08AP 500-667600/19	1000.0	751.724468	1000.0	83649.0	0.751724	Y
7	STD09AP 500-667600/20	1500.0	1114.167867	1000.0	76370.0	0.742779	Y
8	STD10AP 500-667600/21	2000.0	1491.920708	1000.0	78596.0	0.74596	Y



Calibration

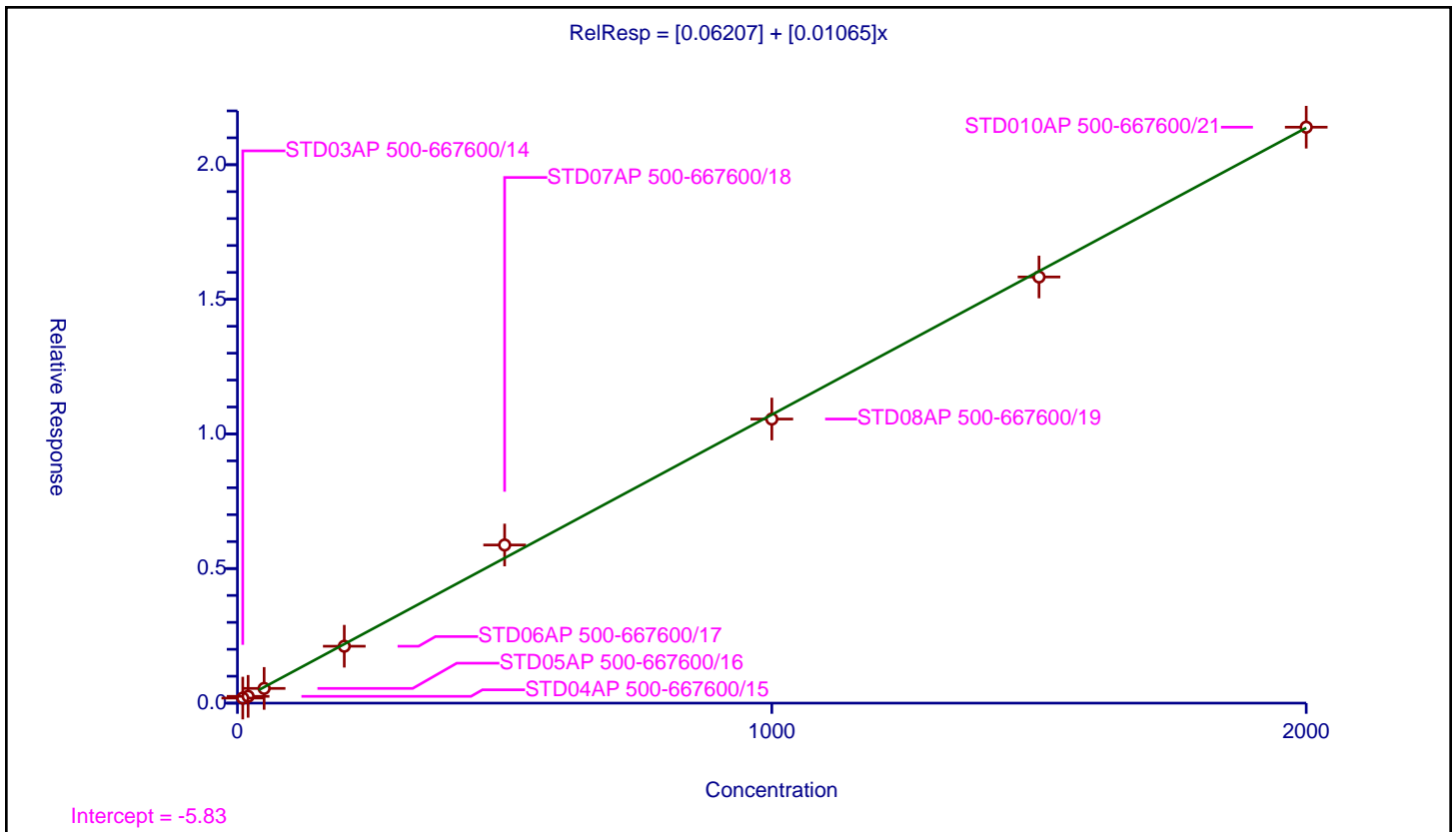
/ Acetonitrile

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06207
Slope:	0.01065

Error Coefficients	
Standard Error:	141000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	10.0	0.187226	50.0	570701.0	0.018723	Y
2	STD04AP 500-667600/15	20.0	0.251546	50.0	562323.0	0.012577	Y
3	STD05AP 500-667600/16	50.0	0.546702	50.0	565390.0	0.010934	Y
4	STD06AP 500-667600/17	200.0	2.113757	50.0	542683.0	0.010569	Y
5	STD07AP 500-667600/18	500.0	5.873894	50.0	520166.0	0.011748	Y
6	STD08AP 500-667600/19	1000.0	10.553019	50.0	591589.0	0.010553	Y
7	STD09AP 500-667600/20	1500.0	15.830237	50.0	587597.0	0.010553	Y
8	STD10AP 500-667600/21	2000.0	21.394082	50.0	592526.0	0.010697	Y



Calibration

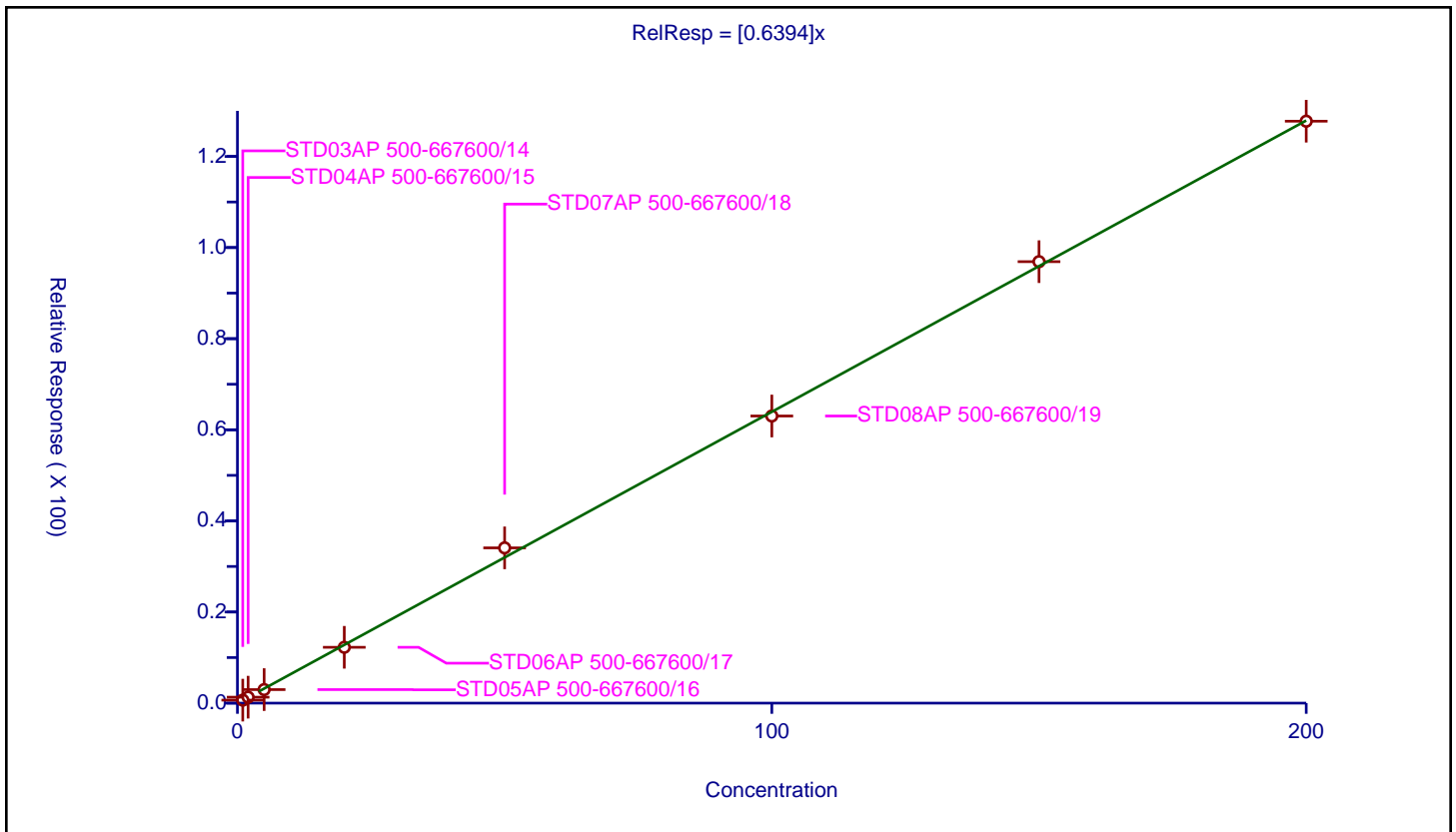
/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6394

Error Coefficients	
Standard Error:	783000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.659978	50.0	570701.0	0.659978	Y
2	STD04AP 500-667600/15	2.0	1.303788	50.0	562323.0	0.651894	Y
3	STD05AP 500-667600/16	5.0	2.970074	50.0	565390.0	0.594015	Y
4	STD06AP 500-667600/17	20.0	12.259459	50.0	542683.0	0.612973	Y
5	STD07AP 500-667600/18	50.0	34.079698	50.0	520166.0	0.681594	Y
6	STD08AP 500-667600/19	100.0	63.026865	50.0	591589.0	0.630269	Y
7	STD09AP 500-667600/20	150.0	96.905787	50.0	587597.0	0.646039	Y
8	STD10AP 500-667600/21	200.0	127.734817	50.0	592526.0	0.638674	Y



Calibration

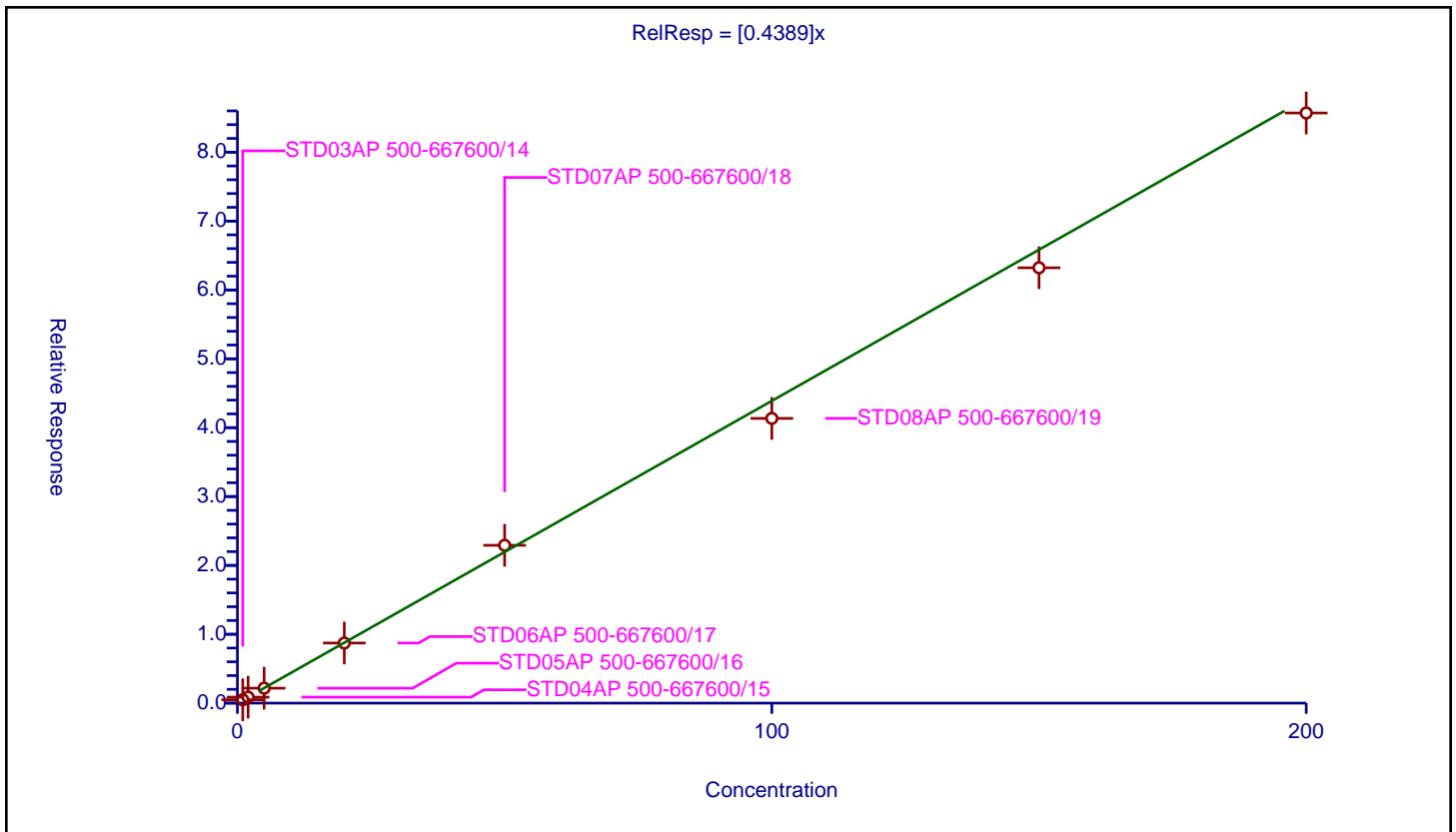
/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4389

Error Coefficients	
Standard Error:	519000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.483879	50.0	570701.0	0.483879	Y
2	STD04AP 500-667600/15	2.0	0.869696	50.0	562323.0	0.434848	Y
3	STD05AP 500-667600/16	5.0	2.172483	50.0	565390.0	0.434497	Y
4	STD06AP 500-667600/17	20.0	8.725904	50.0	542683.0	0.436295	Y
5	STD07AP 500-667600/18	50.0	22.92076	50.0	520166.0	0.458415	Y
6	STD08AP 500-667600/19	100.0	41.34416	50.0	591589.0	0.413442	Y
7	STD09AP 500-667600/20	150.0	63.218328	50.0	587597.0	0.421456	Y
8	STD10AP 500-667600/21	200.0	85.694974	50.0	592526.0	0.428475	Y



Calibration

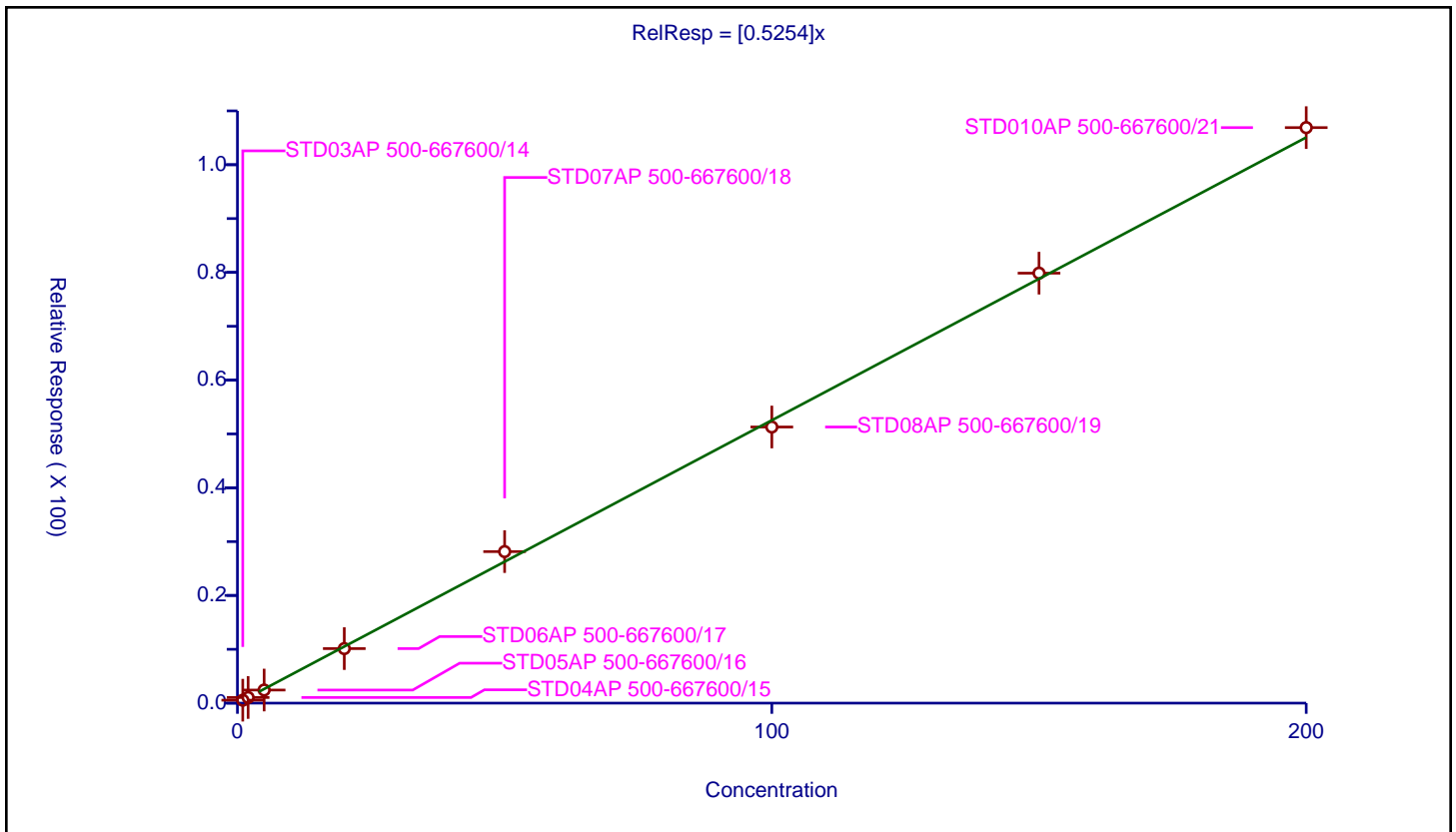
/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5254

Error Coefficients	
Standard Error:	649000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.544506	50.0	570701.0	0.544506	Y
2	STD04AP 500-667600/15	2.0	1.046907	50.0	562323.0	0.523454	Y
3	STD05AP 500-667600/16	5.0	2.430269	50.0	565390.0	0.486054	Y
4	STD06AP 500-667600/17	20.0	10.127183	50.0	542683.0	0.506359	Y
5	STD07AP 500-667600/18	50.0	28.143516	50.0	520166.0	0.56287	Y
6	STD08AP 500-667600/19	100.0	51.286028	50.0	591589.0	0.51286	Y
7	STD09AP 500-667600/20	150.0	79.860176	50.0	587597.0	0.532401	Y
8	STD10AP 500-667600/21	200.0	106.891259	50.0	592526.0	0.534456	Y



Calibration

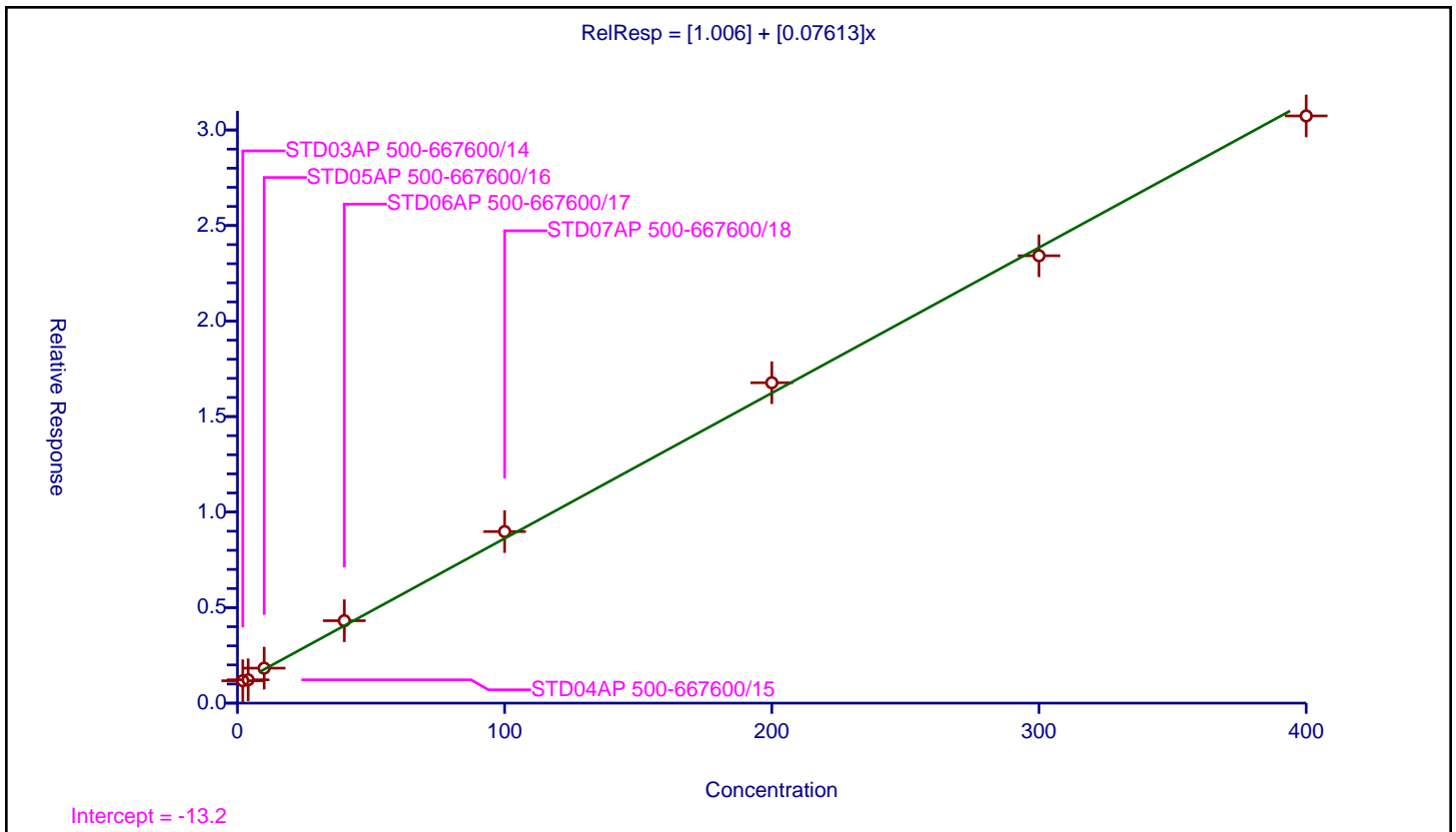
/ Ethyl acetate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	1.006
Slope:	0.07613

Error Coefficients	
Standard Error:	208000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	2.0	1.171366	50.0	570701.0	0.585683	Y
2	STD04AP 500-667600/15	4.0	1.220651	50.0	562323.0	0.305163	Y
3	STD05AP 500-667600/16	10.0	1.830683	50.0	565390.0	0.183068	Y
4	STD06AP 500-667600/17	40.0	4.313476	50.0	542683.0	0.107837	Y
5	STD07AP 500-667600/18	100.0	8.980499	50.0	520166.0	0.089805	Y
6	STD08AP 500-667600/19	200.0	16.771779	50.0	591589.0	0.083859	Y
7	STD09AP 500-667600/20	300.0	23.41758	50.0	587597.0	0.078059	Y
8	STD10AP 500-667600/21	400.0	30.736288	50.0	592526.0	0.076841	Y



Calibration

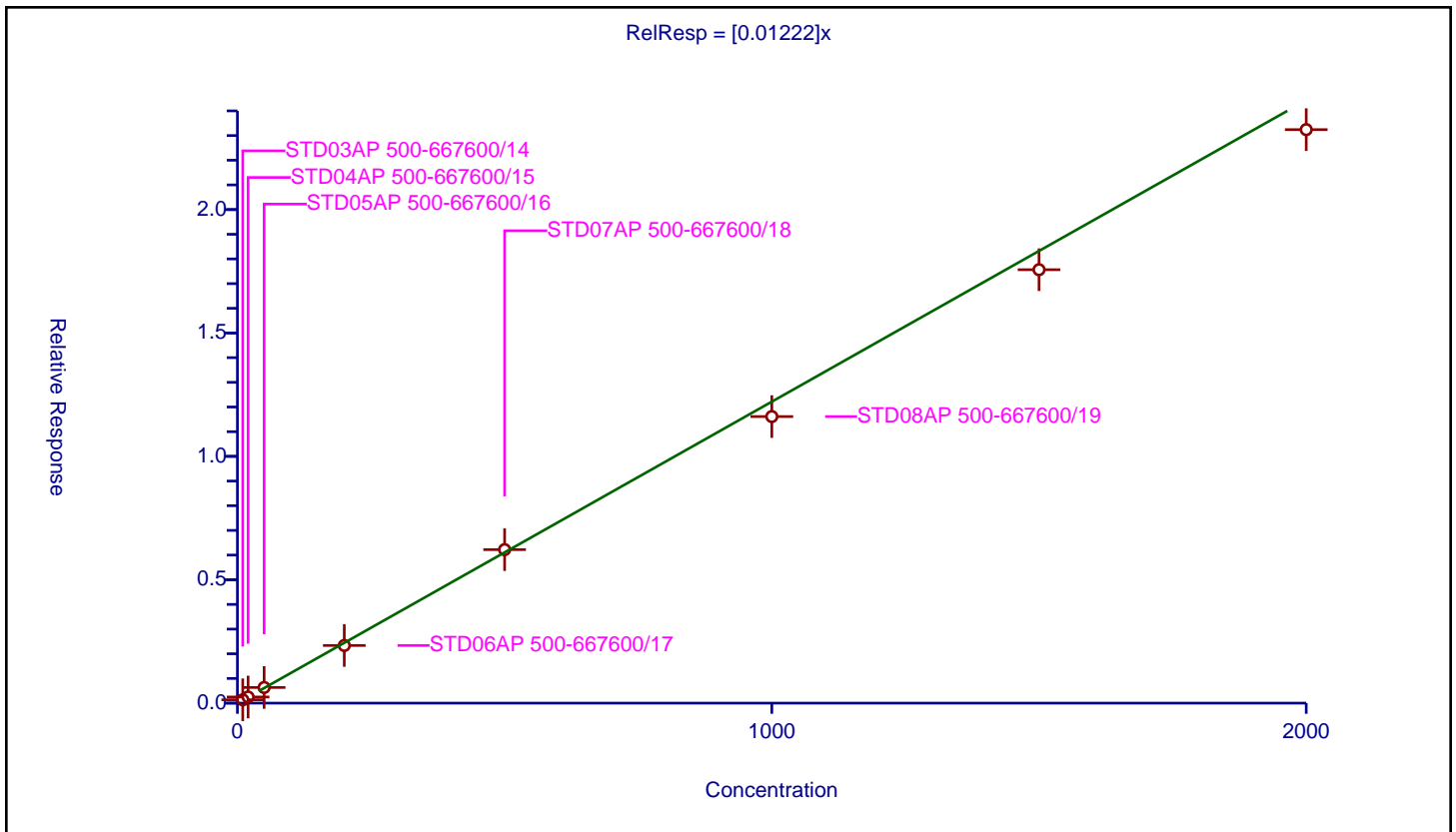
/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01222

Error Coefficients	
Standard Error:	143000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	10.0	0.135535	50.0	570701.0	0.013554	Y
2	STD04AP 500-667600/15	20.0	0.2487	50.0	562323.0	0.012435	Y
3	STD05AP 500-667600/16	50.0	0.633722	50.0	565390.0	0.012674	Y
4	STD06AP 500-667600/17	200.0	2.335802	50.0	542683.0	0.011679	Y
5	STD07AP 500-667600/18	500.0	6.220418	50.0	520166.0	0.012441	Y
6	STD08AP 500-667600/19	1000.0	11.612961	50.0	591589.0	0.011613	Y
7	STD09AP 500-667600/20	1500.0	17.564249	50.0	587597.0	0.011709	Y
8	STD10AP 500-667600/21	2000.0	23.240584	50.0	592526.0	0.01162	Y



Calibration

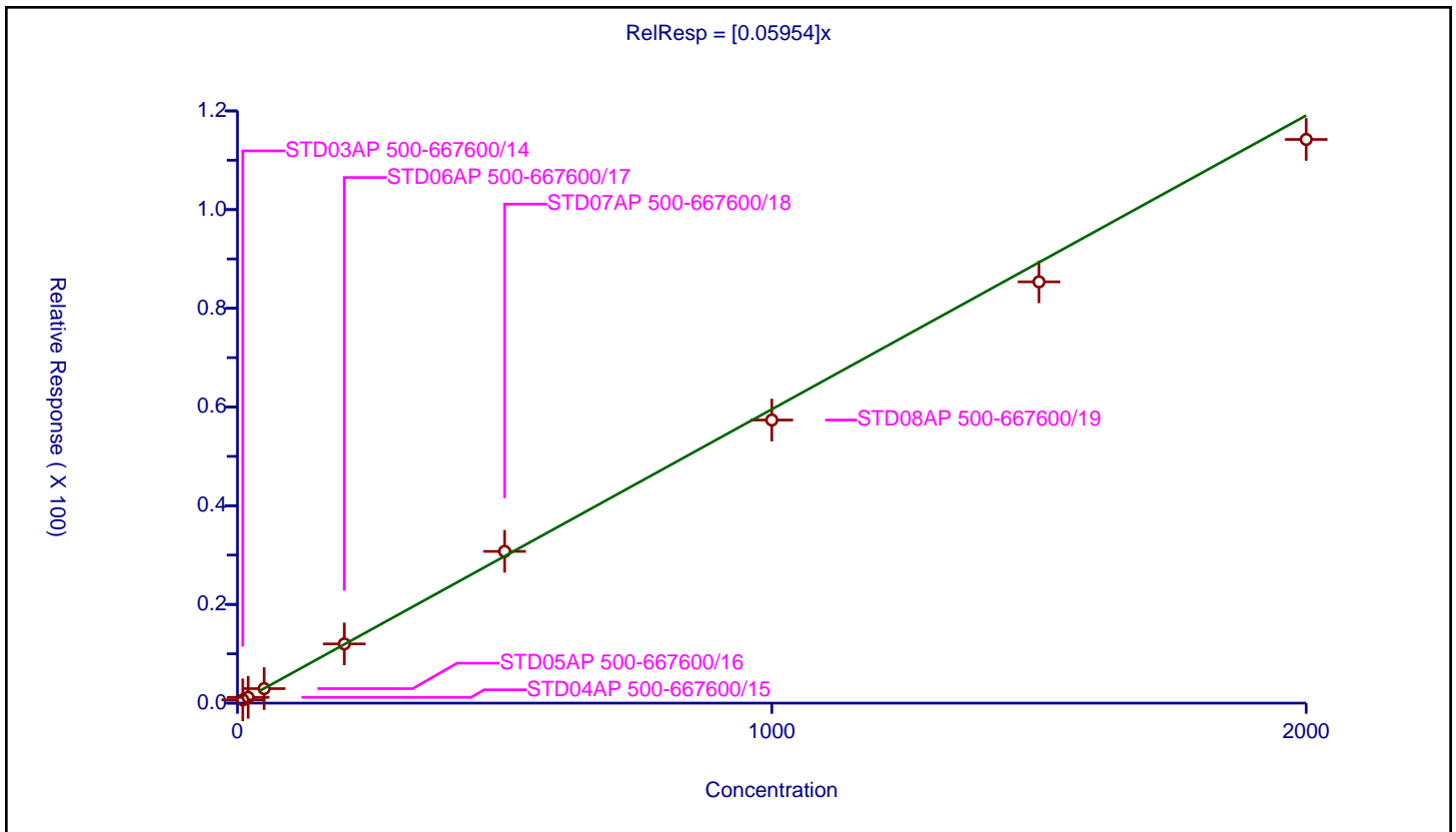
/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05954

Error Coefficients	
Standard Error:	699000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	10.0	0.661204	50.0	570701.0	0.06612	Y
2	STD04AP 500-667600/15	20.0	1.170324	50.0	562323.0	0.058516	Y
3	STD05AP 500-667600/16	50.0	2.939299	50.0	565390.0	0.058786	Y
4	STD06AP 500-667600/17	200.0	11.997335	50.0	542683.0	0.059987	Y
5	STD07AP 500-667600/18	500.0	30.745858	50.0	520166.0	0.061492	Y
6	STD08AP 500-667600/19	1000.0	57.36322	50.0	591589.0	0.057363	Y
7	STD09AP 500-667600/20	1500.0	85.364799	50.0	587597.0	0.05691	Y
8	STD10AP 500-667600/21	2000.0	114.219376	50.0	592526.0	0.05711	Y



Calibration

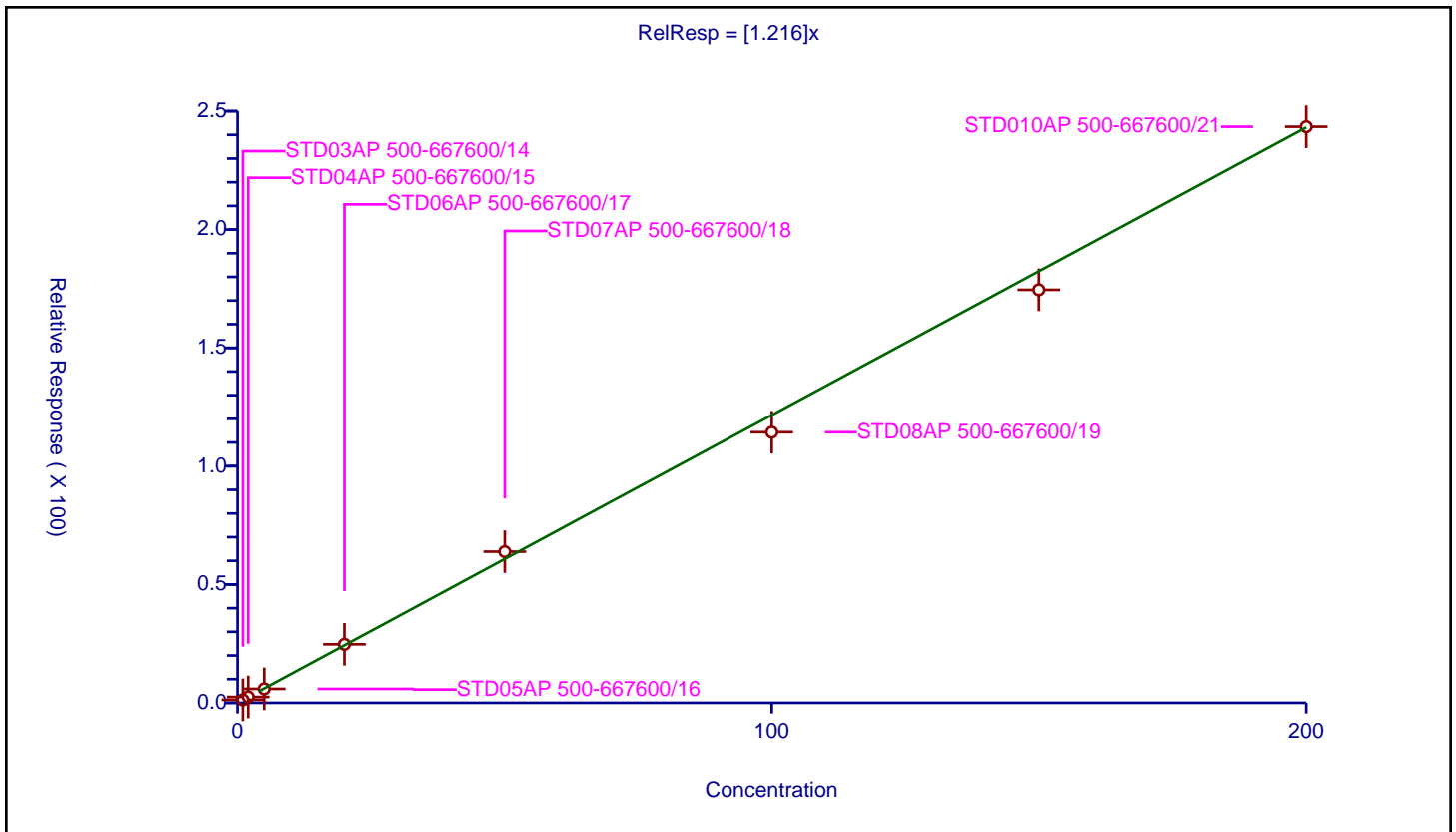
/ Isooctane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.216

Error Coefficients	
Standard Error:	1460000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	1.264322	50.0	570701.0	1.264322	Y
2	STD04AP 500-667600/15	2.0	2.48985	50.0	562323.0	1.244925	Y
3	STD05AP 500-667600/16	5.0	5.895311	50.0	565390.0	1.179062	Y
4	STD06AP 500-667600/17	20.0	24.7335	50.0	542683.0	1.236675	Y
5	STD07AP 500-667600/18	50.0	63.874609	50.0	520166.0	1.277492	Y
6	STD08AP 500-667600/19	100.0	114.331571	50.0	591589.0	1.143316	Y
7	STD09AP 500-667600/20	150.0	174.533566	50.0	587597.0	1.163557	Y
8	STD10AP 500-667600/21	200.0	243.447039	50.0	592526.0	1.217235	Y



Calibration

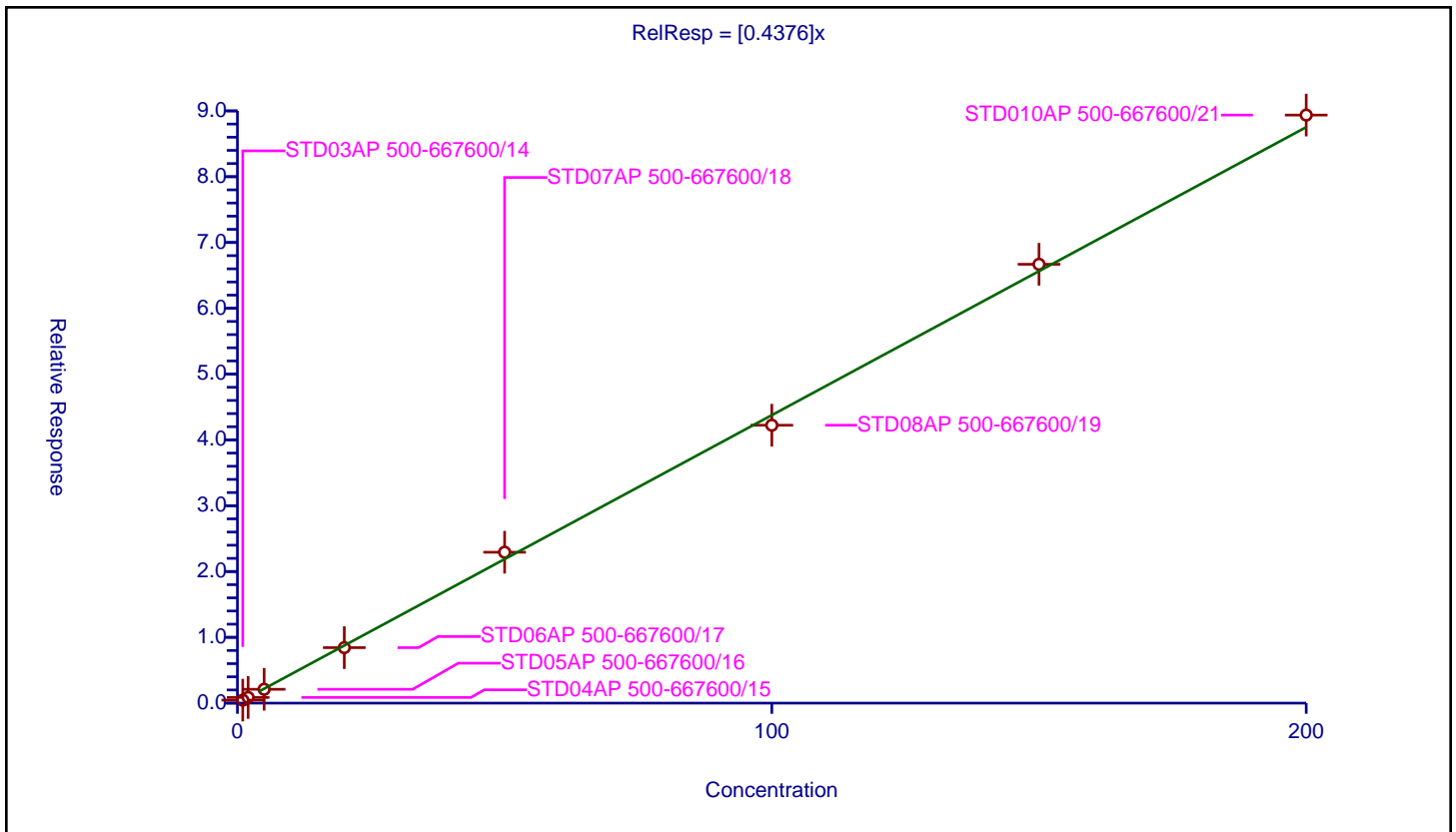
/ Tert-amyl methyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4376

Error Coefficients	
Standard Error:	541000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.454441	50.0	570701.0	0.454441	Y
2	STD04AP 500-667600/15	2.0	0.863827	50.0	562323.0	0.431914	Y
3	STD05AP 500-667600/16	5.0	2.103681	50.0	565390.0	0.420736	Y
4	STD06AP 500-667600/17	20.0	8.431626	50.0	542683.0	0.421581	Y
5	STD07AP 500-667600/18	50.0	22.931141	50.0	520166.0	0.458623	Y
6	STD08AP 500-667600/19	100.0	42.232192	50.0	591589.0	0.422322	Y
7	STD09AP 500-667600/20	150.0	66.691542	50.0	587597.0	0.44461	Y
8	STD10AP 500-667600/21	200.0	89.365361	50.0	592526.0	0.446827	Y



Calibration

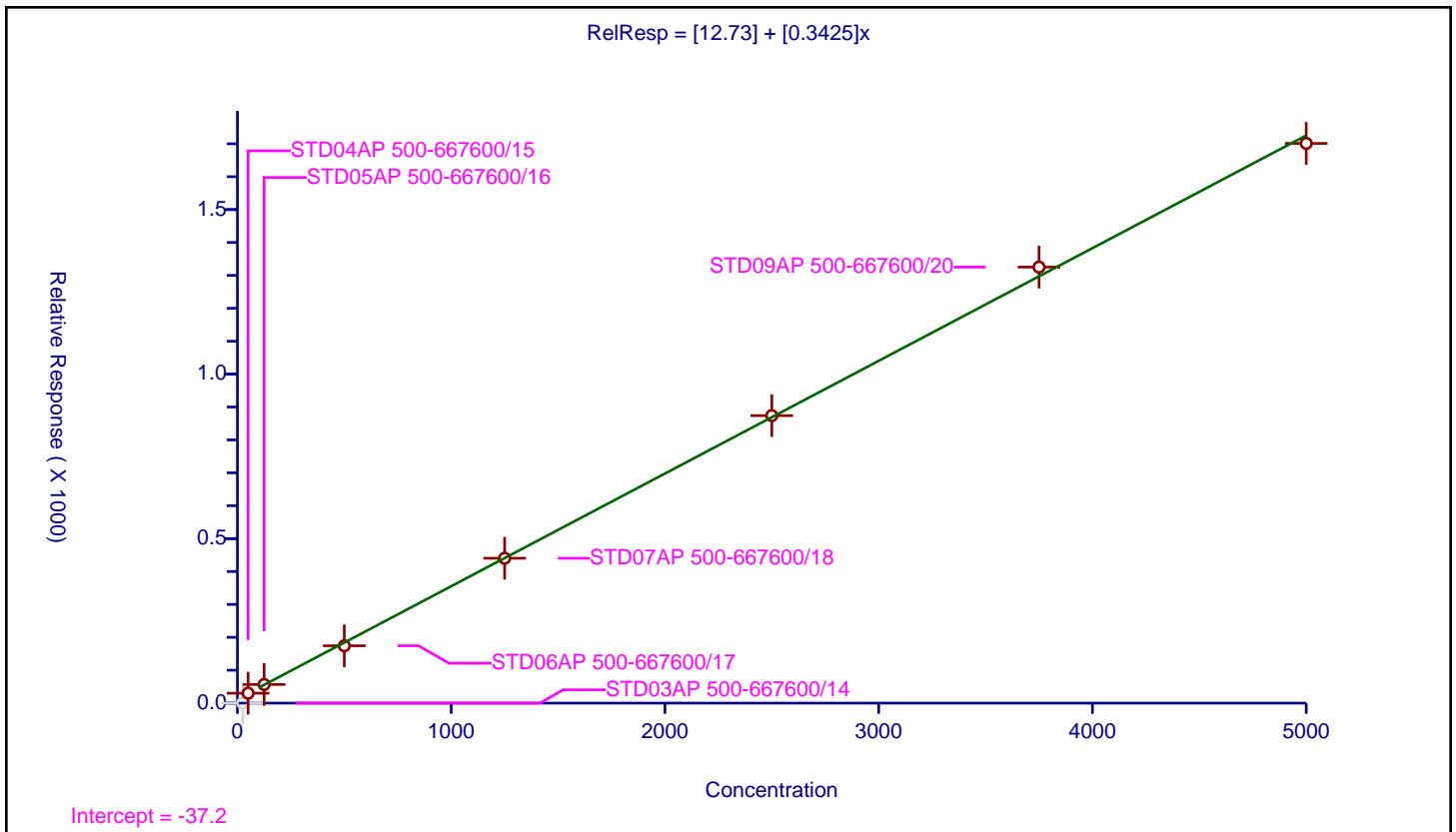
/ n-Butanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	12.73
Slope:	0.3425

Error Coefficients	
Standard Error:	82200
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	25.0	0.0	1000.0	77986.0	0.0	N
2	STD04AP 500-667600/15	50.0	30.134446	1000.0	77652.0	0.602689	Y
3	STD05AP 500-667600/16	125.0	56.738838	1000.0	79487.0	0.453911	Y
4	STD06AP 500-667600/17	500.0	174.308253	1000.0	74919.0	0.348617	Y
5	STD07AP 500-667600/18	1250.0	440.349608	1000.0	71852.0	0.35228	Y
6	STD08AP 500-667600/19	2500.0	873.829932	1000.0	83649.0	0.349532	Y
7	STD09AP 500-667600/20	3750.0	1325.206233	1000.0	76370.0	0.353388	Y
8	STD010AP 500-667600/21	5000.0	1701.117105	1000.0	78596.0	0.340223	Y



Calibration

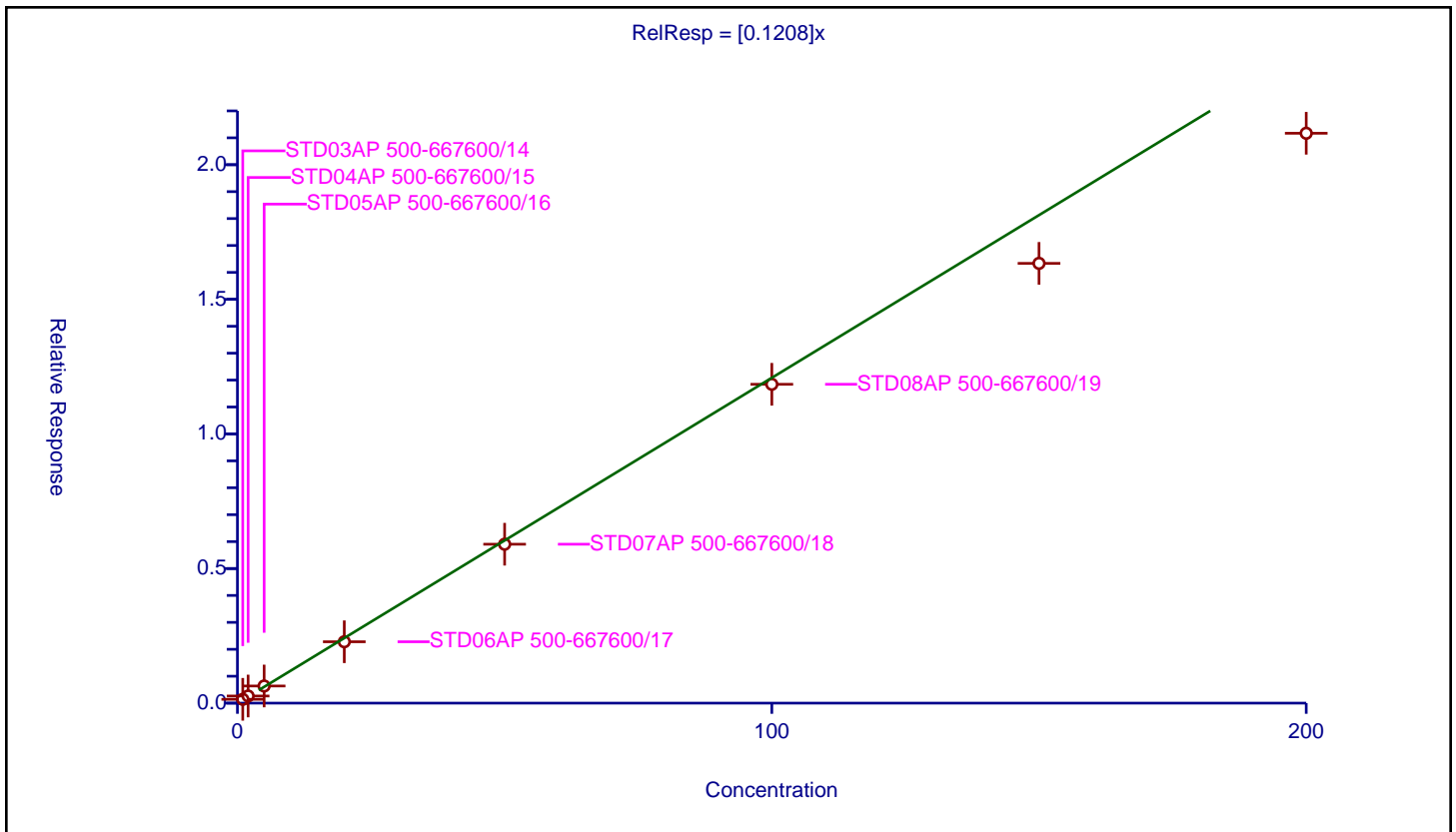
/ Ethyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1208

Error Coefficients	
Standard Error:	133000
Relative Standard Error:	10.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.141668	50.0	570701.0	0.141668	Y
2	STD04AP 500-667600/15	2.0	0.264972	50.0	562323.0	0.132486	Y
3	STD05AP 500-667600/16	5.0	0.636994	50.0	565390.0	0.127399	Y
4	STD06AP 500-667600/17	20.0	2.2796	50.0	542683.0	0.11398	Y
5	STD07AP 500-667600/18	50.0	5.903404	50.0	520166.0	0.118068	Y
6	STD08AP 500-667600/19	100.0	11.844625	50.0	591589.0	0.118446	Y
7	STD09AP 500-667600/20	150.0	16.336111	50.0	587597.0	0.108907	Y
8	STD10AP 500-667600/21	200.0	21.168607	50.0	592526.0	0.105843	Y



Calibration

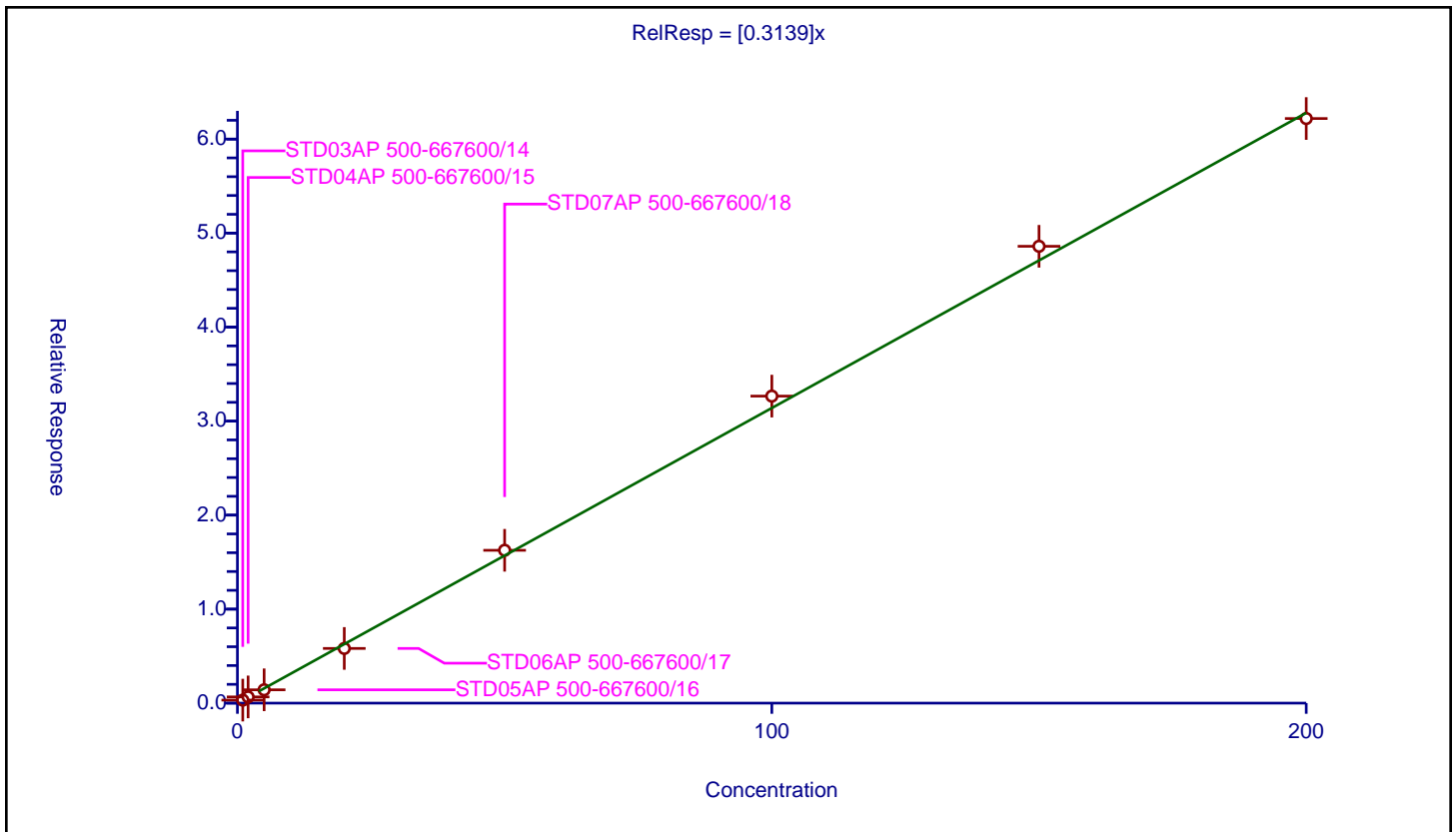
/ 2,3-Dichloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3139

Error Coefficients	
Standard Error:	388000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.320308	50.0	570701.0	0.320308	Y
2	STD04AP 500-667600/15	2.0	0.660119	50.0	562323.0	0.330059	Y
3	STD05AP 500-667600/16	5.0	1.417429	50.0	565390.0	0.283486	Y
4	STD06AP 500-667600/17	20.0	5.818406	50.0	542683.0	0.29092	Y
5	STD07AP 500-667600/18	50.0	16.259137	50.0	520166.0	0.325183	Y
6	STD08AP 500-667600/19	100.0	32.659329	50.0	591589.0	0.326593	Y
7	STD09AP 500-667600/20	150.0	48.595381	50.0	587597.0	0.323969	Y
8	STD10AP 500-667600/21	200.0	62.187482	50.0	592526.0	0.310937	Y



Calibration

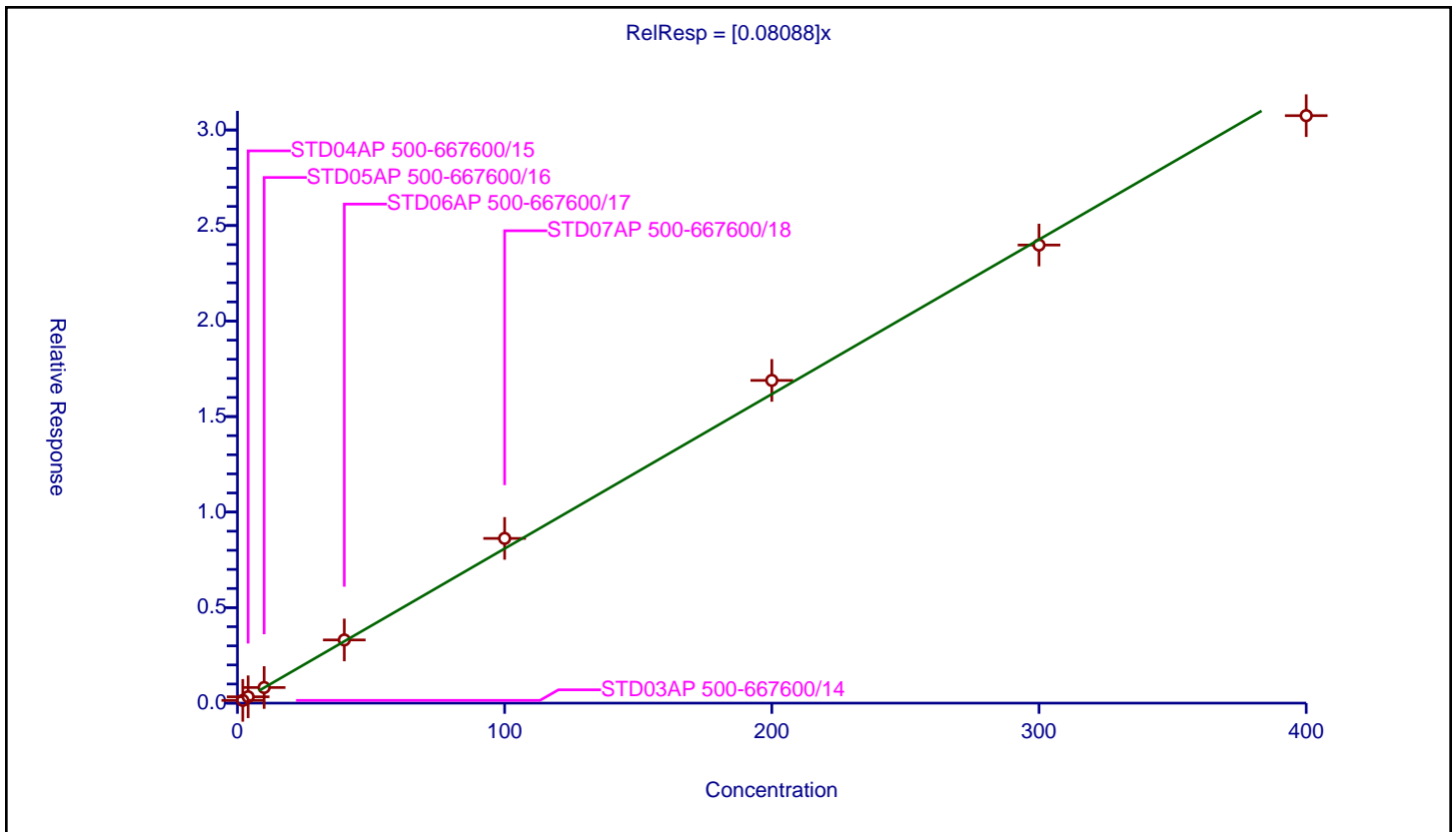
/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08088

Error Coefficients	
Standard Error:	193000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	2.0	0.143946	50.0	570701.0	0.071973	Y
2	STD04AP 500-667600/15	4.0	0.332371	50.0	562323.0	0.083093	Y
3	STD05AP 500-667600/16	10.0	0.817931	50.0	565390.0	0.081793	Y
4	STD06AP 500-667600/17	40.0	3.306903	50.0	542683.0	0.082673	Y
5	STD07AP 500-667600/18	100.0	8.621575	50.0	520166.0	0.086216	Y
6	STD08AP 500-667600/19	200.0	16.892471	50.0	591589.0	0.084462	Y
7	STD09AP 500-667600/20	300.0	23.978169	50.0	587597.0	0.079927	Y
8	STD10AP 500-667600/21	400.0	30.750802	50.0	592526.0	0.076877	Y



Calibration

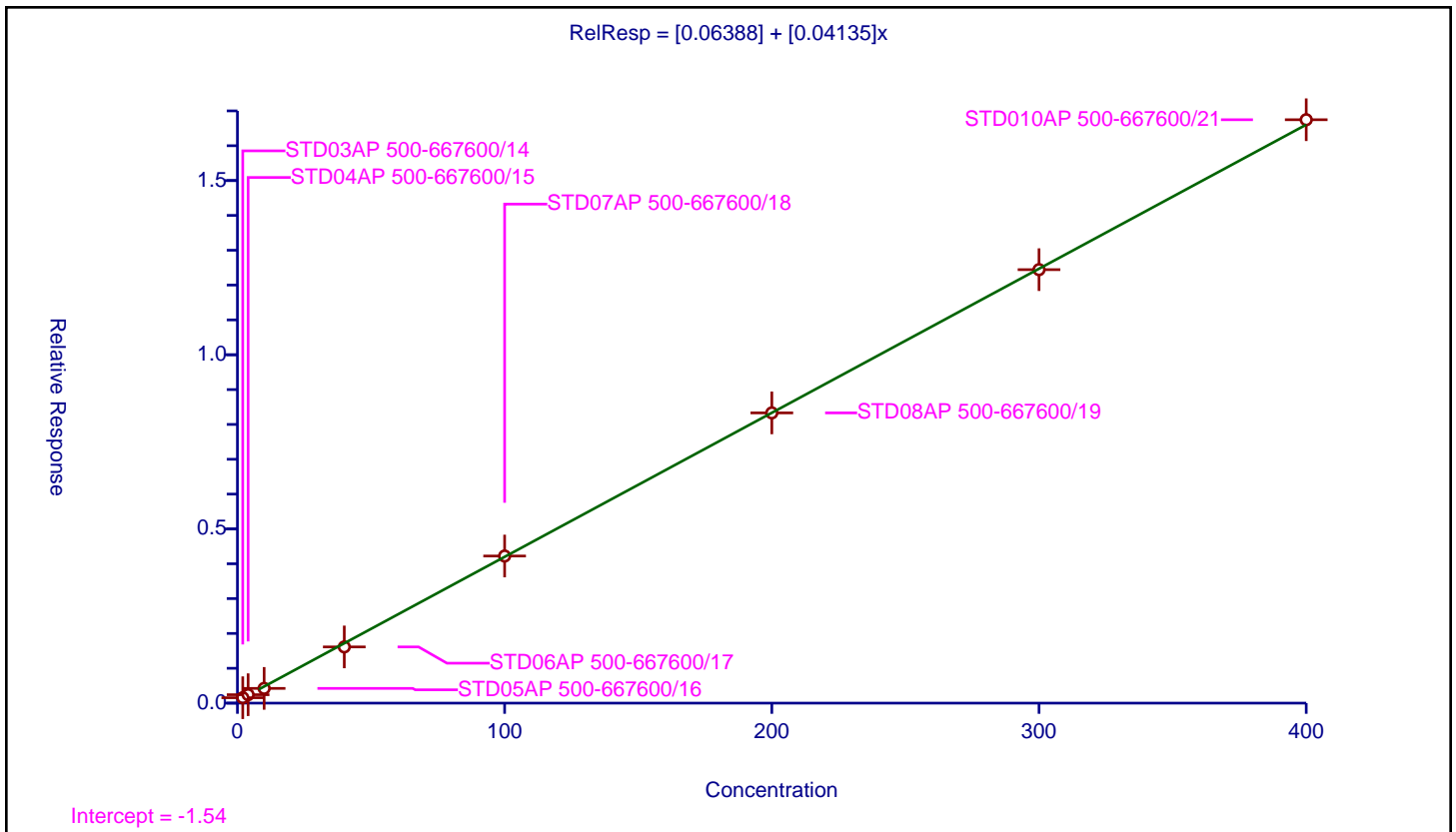
/ 2-Nitropropane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06388
Slope:	0.04135

Error Coefficients	
Standard Error:	70500
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	2.0	0.155436	50.0	382152.0	0.077718	Y
2	STD04AP 500-667600/15	4.0	0.241673	50.0	372818.0	0.060418	Y
3	STD05AP 500-667600/16	10.0	0.423271	50.0	374465.0	0.042327	Y
4	STD06AP 500-667600/17	40.0	1.613796	50.0	348774.0	0.040345	Y
5	STD07AP 500-667600/18	100.0	4.222735	50.0	342811.0	0.042227	Y
6	STD08AP 500-667600/19	200.0	8.331125	50.0	392414.0	0.041656	Y
7	STD09AP 500-667600/20	300.0	12.442888	50.0	376452.0	0.041476	Y
8	STD10AP 500-667600/21	400.0	16.746048	50.0	375405.0	0.041865	Y



Calibration

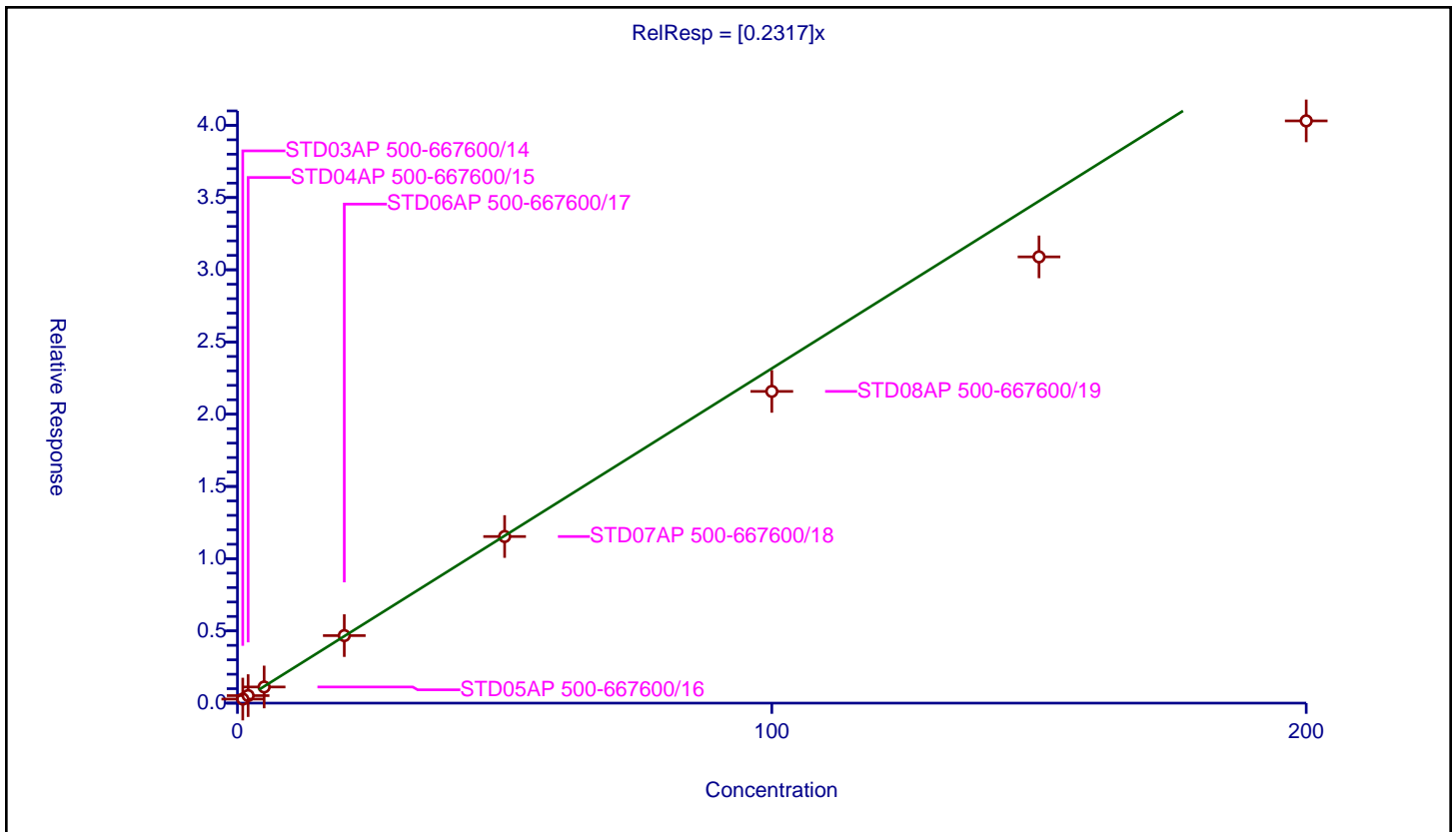
/ n-Butyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2317

Error Coefficients	
Standard Error:	161000
Relative Standard Error:	11.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.281956	50.0	382152.0	0.281956	Y
2	STD04AP 500-667600/15	2.0	0.520227	50.0	372818.0	0.260114	Y
3	STD05AP 500-667600/16	5.0	1.119063	50.0	374465.0	0.223813	Y
4	STD06AP 500-667600/17	20.0	4.674804	50.0	348774.0	0.23374	Y
5	STD07AP 500-667600/18	50.0	11.534782	50.0	342811.0	0.230696	Y
6	STD08AP 500-667600/19	100.0	21.581034	50.0	392414.0	0.21581	Y
7	STD09AP 500-667600/20	150.0	30.893979	50.0	376452.0	0.20596	Y
8	STD10AP 500-667600/21	200.0	40.309266	50.0	375405.0	0.201546	Y



Calibration

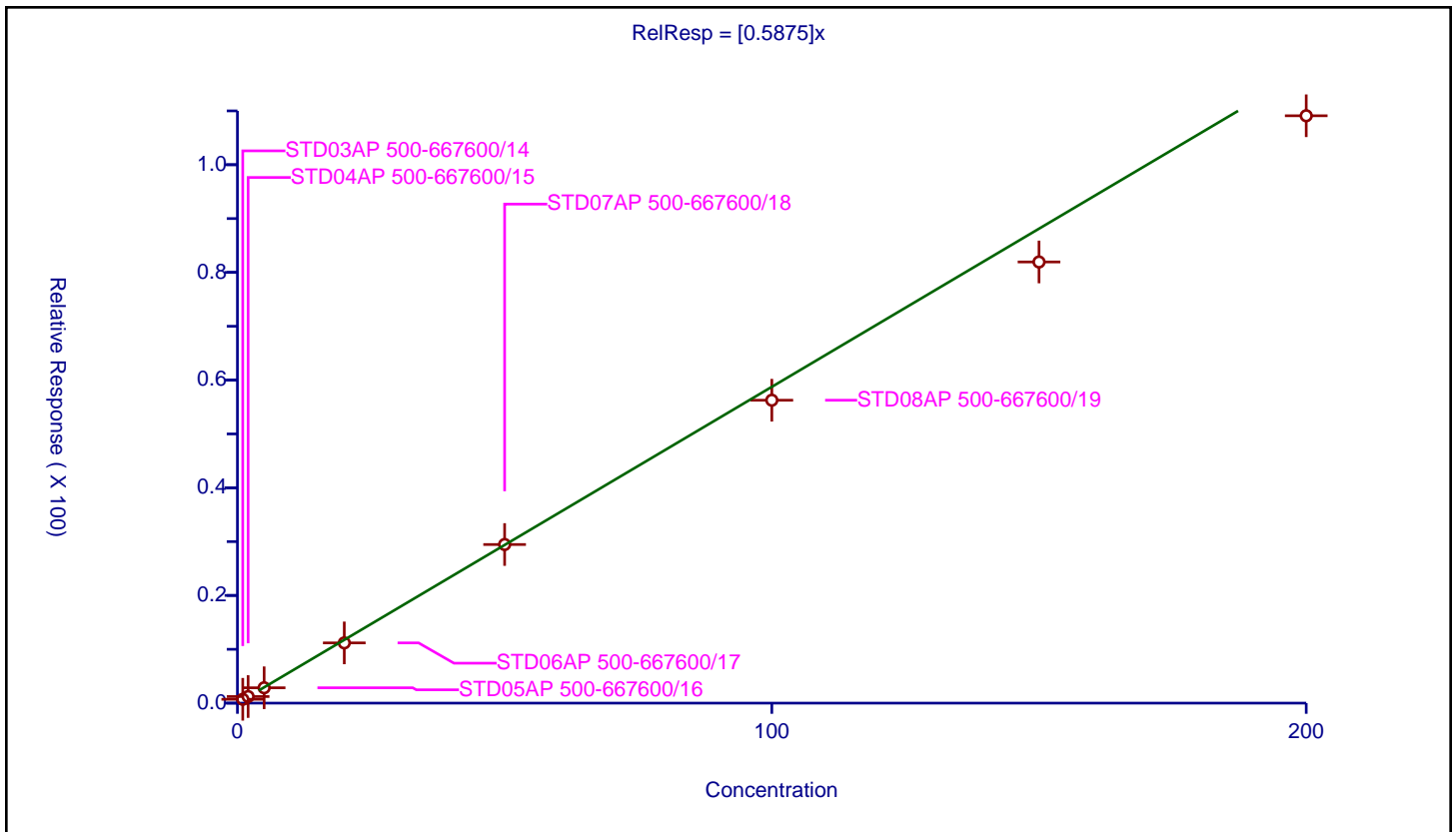
/ 1-Chlorohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5875

Error Coefficients	
Standard Error:	430000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.71346	50.0	382152.0	0.71346	Y
2	STD04AP 500-667600/15	2.0	1.224995	50.0	372818.0	0.612497	Y
3	STD05AP 500-667600/16	5.0	2.853805	50.0	374465.0	0.570761	Y
4	STD06AP 500-667600/17	20.0	11.187474	50.0	348774.0	0.559374	Y
5	STD07AP 500-667600/18	50.0	29.45836	50.0	342811.0	0.589167	Y
6	STD08AP 500-667600/19	100.0	56.260862	50.0	392414.0	0.562609	Y
7	STD09AP 500-667600/20	150.0	81.939132	50.0	376452.0	0.546261	Y
8	STD10AP 500-667600/21	200.0	109.097108	50.0	375405.0	0.545486	Y



Calibration

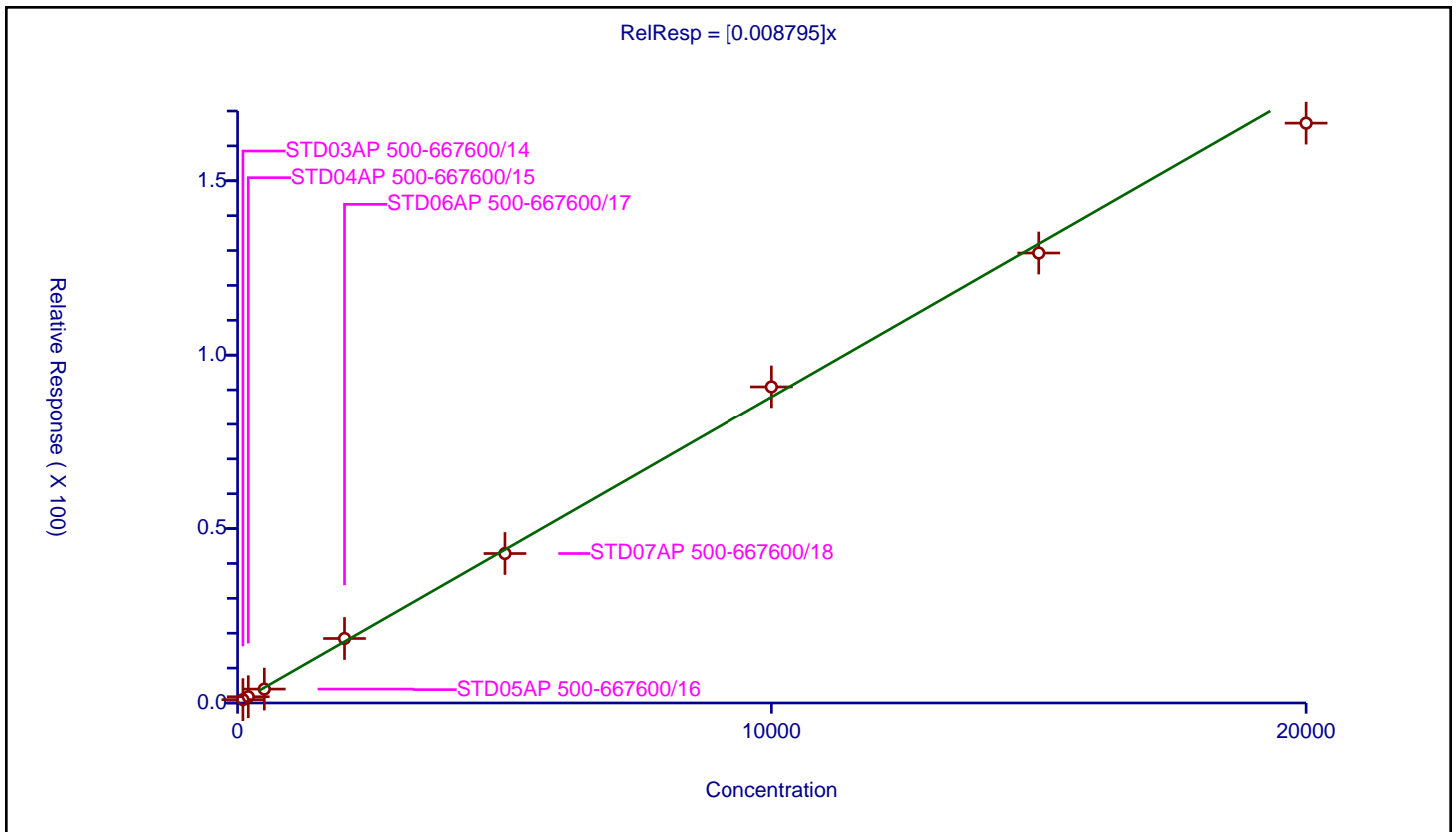
/ Cyclohexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.008795

Error Coefficients	
Standard Error:	337000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	100.0	0.9583	50.0	194198.0	0.009583	Y
2	STD04AP 500-667600/15	200.0	1.791359	50.0	192033.0	0.008957	Y
3	STD05AP 500-667600/16	500.0	3.984229	50.0	189974.0	0.007968	Y
4	STD06AP 500-667600/17	2000.0	18.488738	50.0	173365.0	0.009244	Y
5	STD07AP 500-667600/18	5000.0	42.851459	50.0	170902.0	0.00857	Y
6	STD08AP 500-667600/19	10000.0	90.881345	50.0	192660.0	0.009088	Y
7	STD09AP 500-667600/20	15000.0	129.293544	50.0	188009.0	0.00862	Y
8	STD10AP 500-667600/21	20000.0	166.532342	50.0	192444.0	0.008327	Y



Calibration

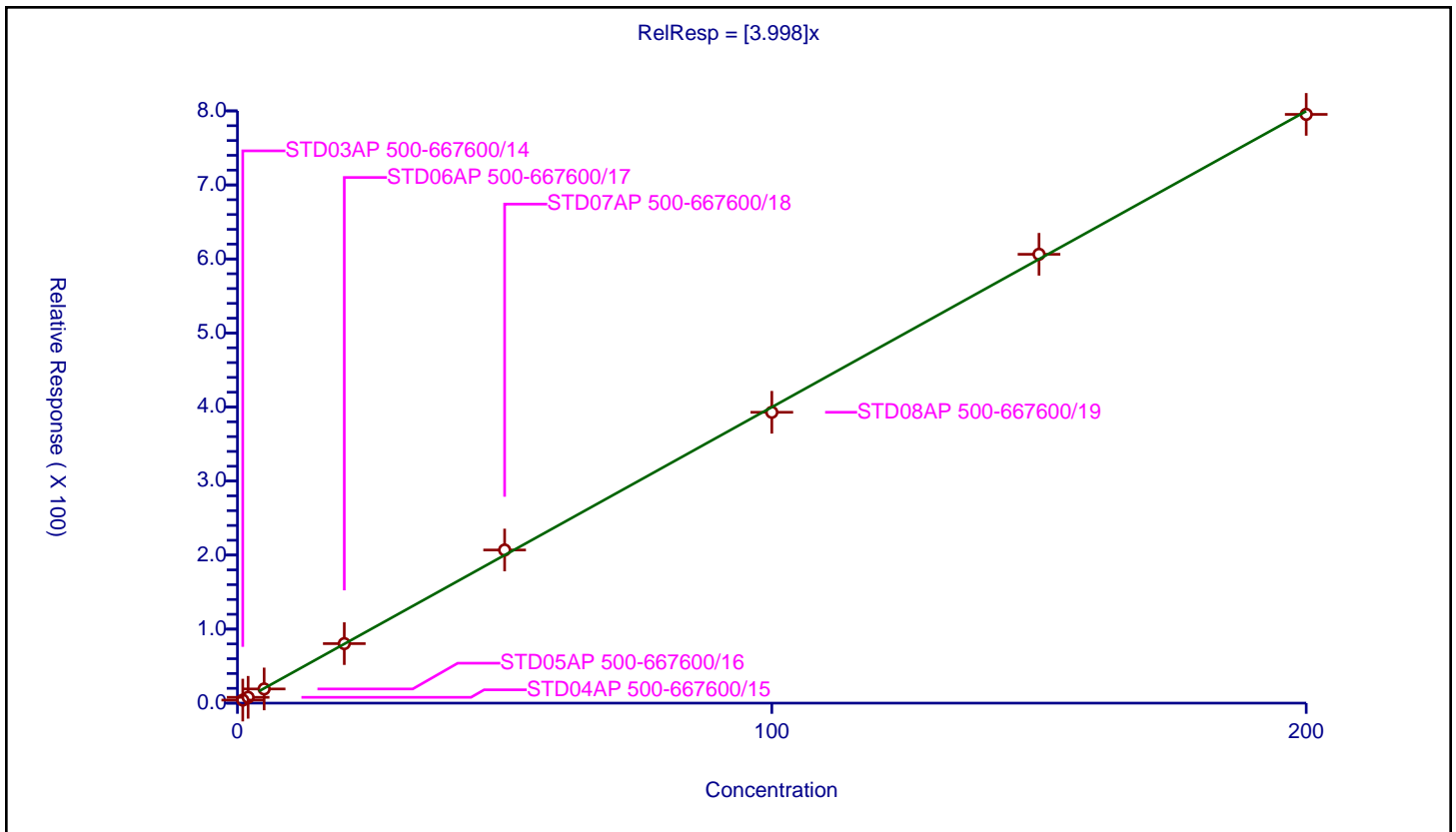
/ 2-Ethyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.998

Error Coefficients	
Standard Error:	1580000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	4.120279	50.0	194198.0	4.120279	Y
2	STD04AP 500-667600/15	2.0	7.853077	50.0	192033.0	3.926539	Y
3	STD05AP 500-667600/16	5.0	19.163938	50.0	189974.0	3.832788	Y
4	STD06AP 500-667600/17	20.0	80.40781	50.0	173365.0	4.020391	Y
5	STD07AP 500-667600/18	50.0	206.849832	50.0	170902.0	4.136997	Y
6	STD08AP 500-667600/19	100.0	392.869044	50.0	192660.0	3.92869	Y
7	STD09AP 500-667600/20	150.0	606.306613	50.0	188009.0	4.042044	Y
8	STD10AP 500-667600/21	200.0	795.296034	50.0	192444.0	3.97648	Y



Calibration

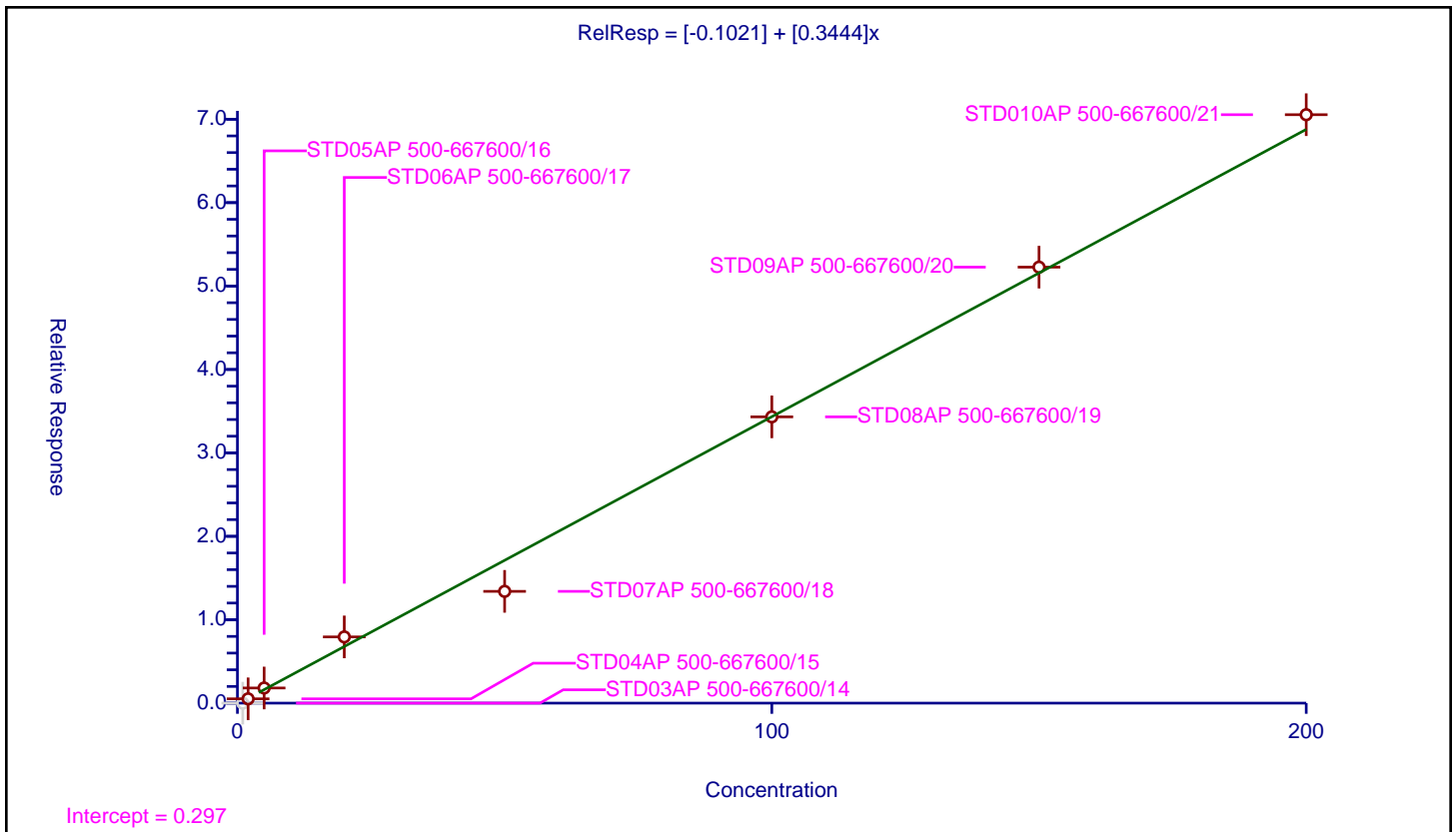
/ Pentachloroethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.1021
Slope:	0.3444

Error Coefficients	
Standard Error:	163000
Relative Standard Error:	14.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.0	50.0	194198.0	0.0	N
2	STD04AP 500-667600/15	2.0	0.515276	50.0	192033.0	0.257638	Y
3	STD05AP 500-667600/16	5.0	1.816301	50.0	189974.0	0.36326	Y
4	STD06AP 500-667600/17	20.0	7.937877	50.0	173365.0	0.396894	Y
5	STD07AP 500-667600/18	50.0	13.398029	50.0	170902.0	0.267961	Y
6	STD08AP 500-667600/19	100.0	34.319008	50.0	192660.0	0.34319	Y
7	STD09AP 500-667600/20	150.0	52.265583	50.0	188009.0	0.348437	Y
8	STD10AP 500-667600/21	200.0	70.543639	50.0	192444.0	0.352718	Y



Calibration

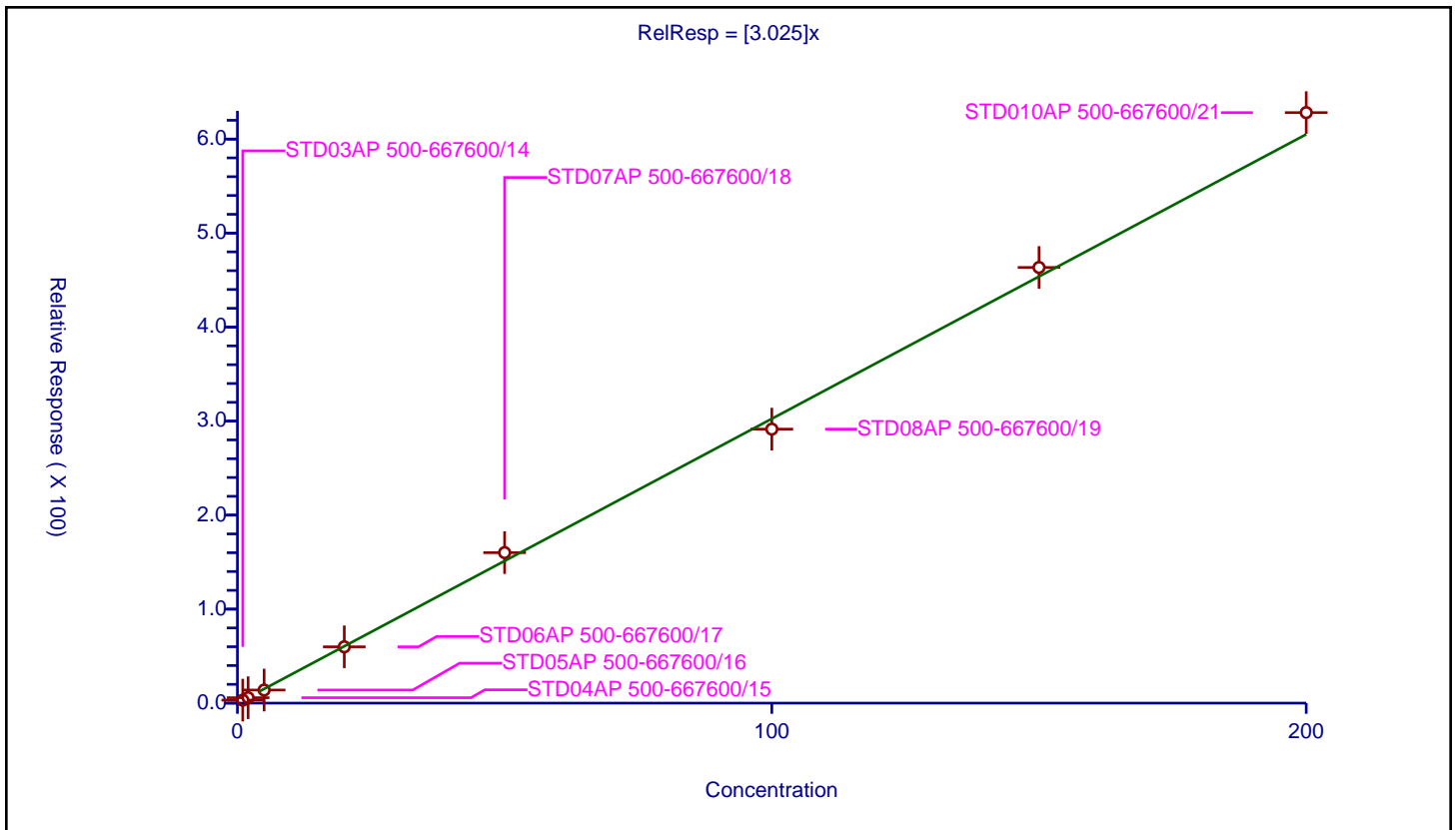
/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.025

Error Coefficients	
Standard Error:	1220000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	3.193905	50.0	194198.0	3.193905	Y
2	STD04AP 500-667600/15	2.0	5.765415	50.0	192033.0	2.882708	Y
3	STD05AP 500-667600/16	5.0	13.914272	50.0	189974.0	2.782854	Y
4	STD06AP 500-667600/17	20.0	59.916938	50.0	173365.0	2.995847	Y
5	STD07AP 500-667600/18	50.0	160.076828	50.0	170902.0	3.201537	Y
6	STD08AP 500-667600/19	100.0	291.466314	50.0	192660.0	2.914663	Y
7	STD09AP 500-667600/20	150.0	463.425421	50.0	188009.0	3.089503	Y
8	STD10AP 500-667600/21	200.0	628.163258	50.0	192444.0	3.140816	Y



Calibration

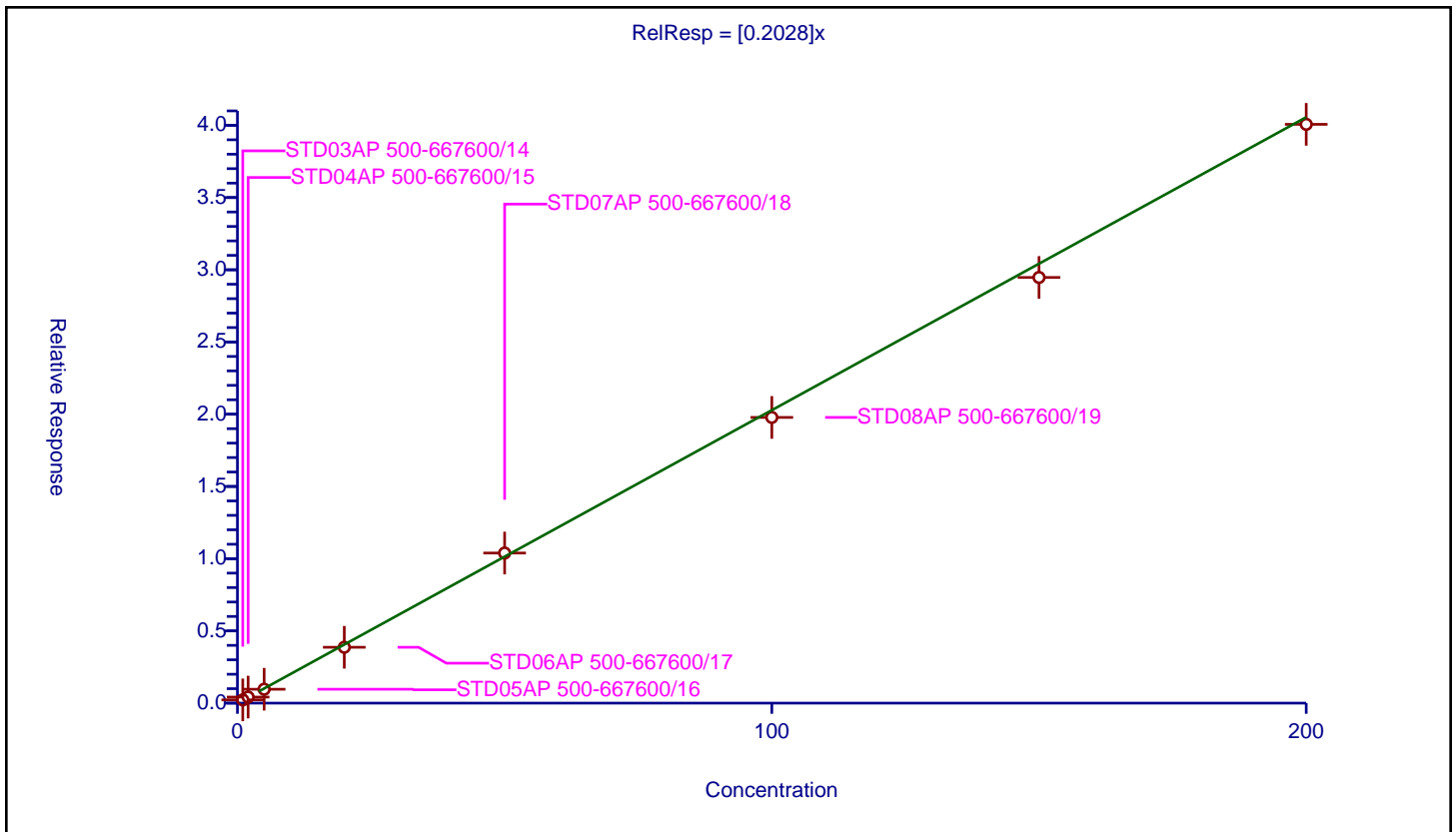
/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2028

Error Coefficients	
Standard Error:	78700
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.224513	50.0	194198.0	0.224513	Y
2	STD04AP 500-667600/15	2.0	0.419459	50.0	192033.0	0.20973	Y
3	STD05AP 500-667600/16	5.0	0.961974	50.0	189974.0	0.192395	Y
4	STD06AP 500-667600/17	20.0	3.868139	50.0	173365.0	0.193407	Y
5	STD07AP 500-667600/18	50.0	10.390165	50.0	170902.0	0.207803	Y
6	STD08AP 500-667600/19	100.0	19.779145	50.0	192660.0	0.197791	Y
7	STD09AP 500-667600/20	150.0	29.468536	50.0	188009.0	0.196457	Y
8	STD10AP 500-667600/21	200.0	40.068539	50.0	192444.0	0.200343	Y



Calibration

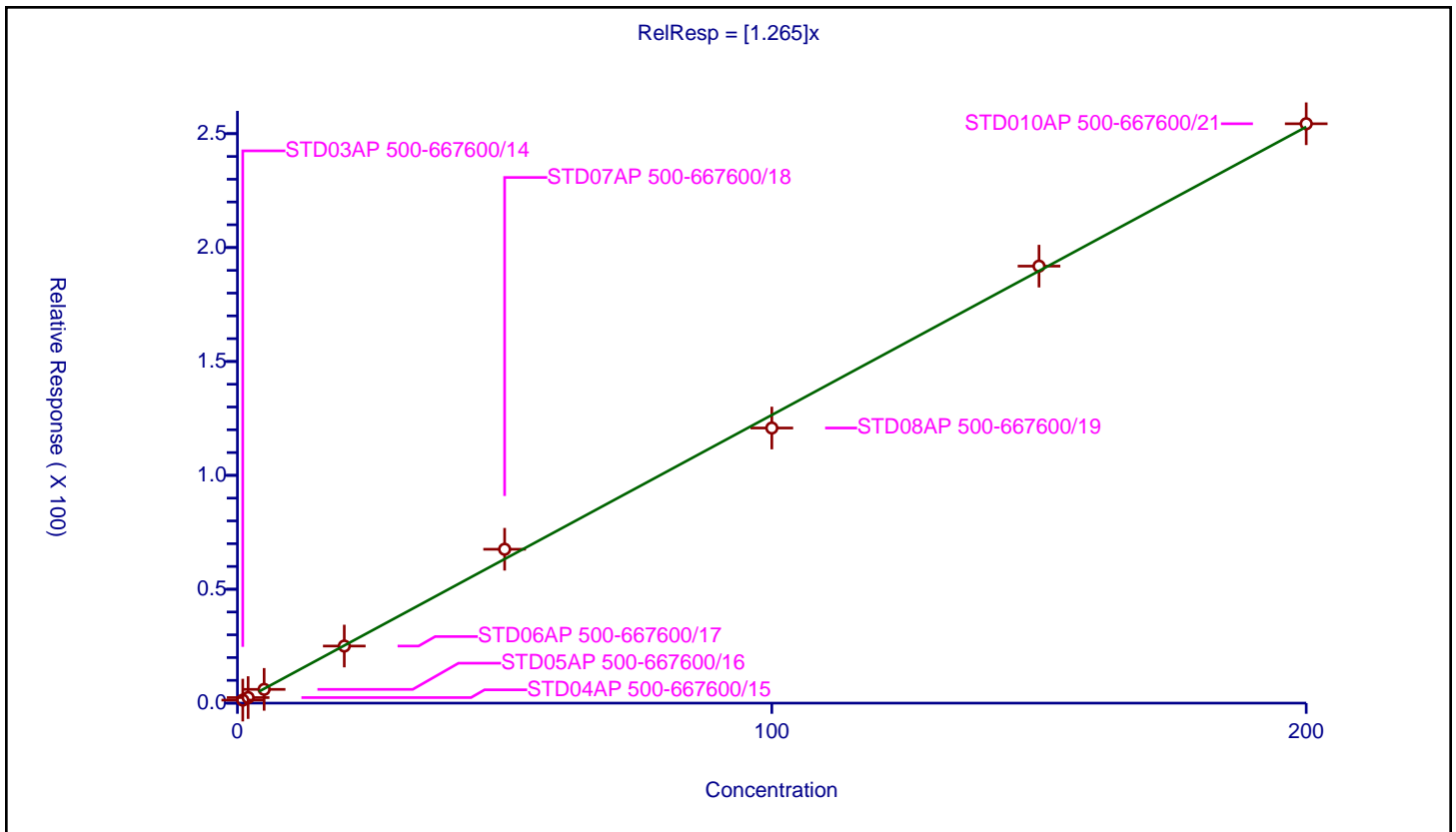
/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.265

Error Coefficients	
Standard Error:	501000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	1.328284	50.0	194198.0	1.328284	Y
2	STD04AP 500-667600/15	2.0	2.44333	50.0	192033.0	1.221665	Y
3	STD05AP 500-667600/16	5.0	6.034773	50.0	189974.0	1.206955	Y
4	STD06AP 500-667600/17	20.0	25.058691	50.0	173365.0	1.252935	Y
5	STD07AP 500-667600/18	50.0	67.548654	50.0	170902.0	1.350973	Y
6	STD08AP 500-667600/19	100.0	120.777795	50.0	192660.0	1.207778	Y
7	STD09AP 500-667600/20	150.0	191.848794	50.0	188009.0	1.278992	Y
8	STD10AP 500-667600/21	200.0	254.350097	50.0	192444.0	1.27175	Y



Calibration

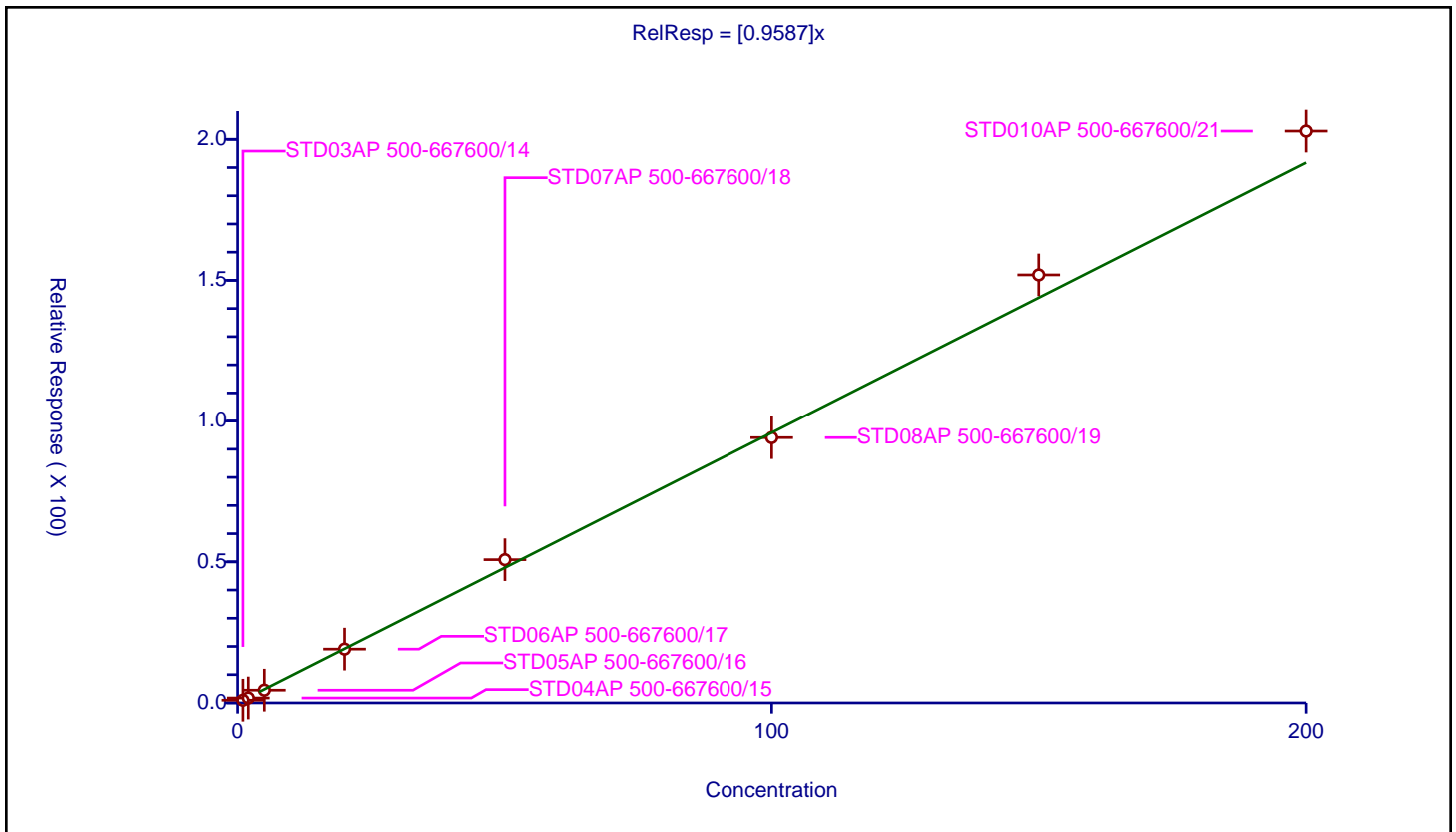
/ 2-Methylnaphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9587

Error Coefficients	
Standard Error:	397000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.961132	50.0	194198.0	0.961132	Y
2	STD04AP 500-667600/15	2.0	1.739545	50.0	192033.0	0.869772	Y
3	STD05AP 500-667600/16	5.0	4.51088	50.0	189974.0	0.902176	Y
4	STD06AP 500-667600/17	20.0	19.051135	50.0	173365.0	0.952557	Y
5	STD07AP 500-667600/18	50.0	50.772665	50.0	170902.0	1.015453	Y
6	STD08AP 500-667600/19	100.0	94.109571	50.0	192660.0	0.941096	Y
7	STD09AP 500-667600/20	150.0	151.928631	50.0	188009.0	1.012858	Y
8	STD10AP 500-667600/21	200.0	202.92111	50.0	192444.0	1.014606	Y



Calibration

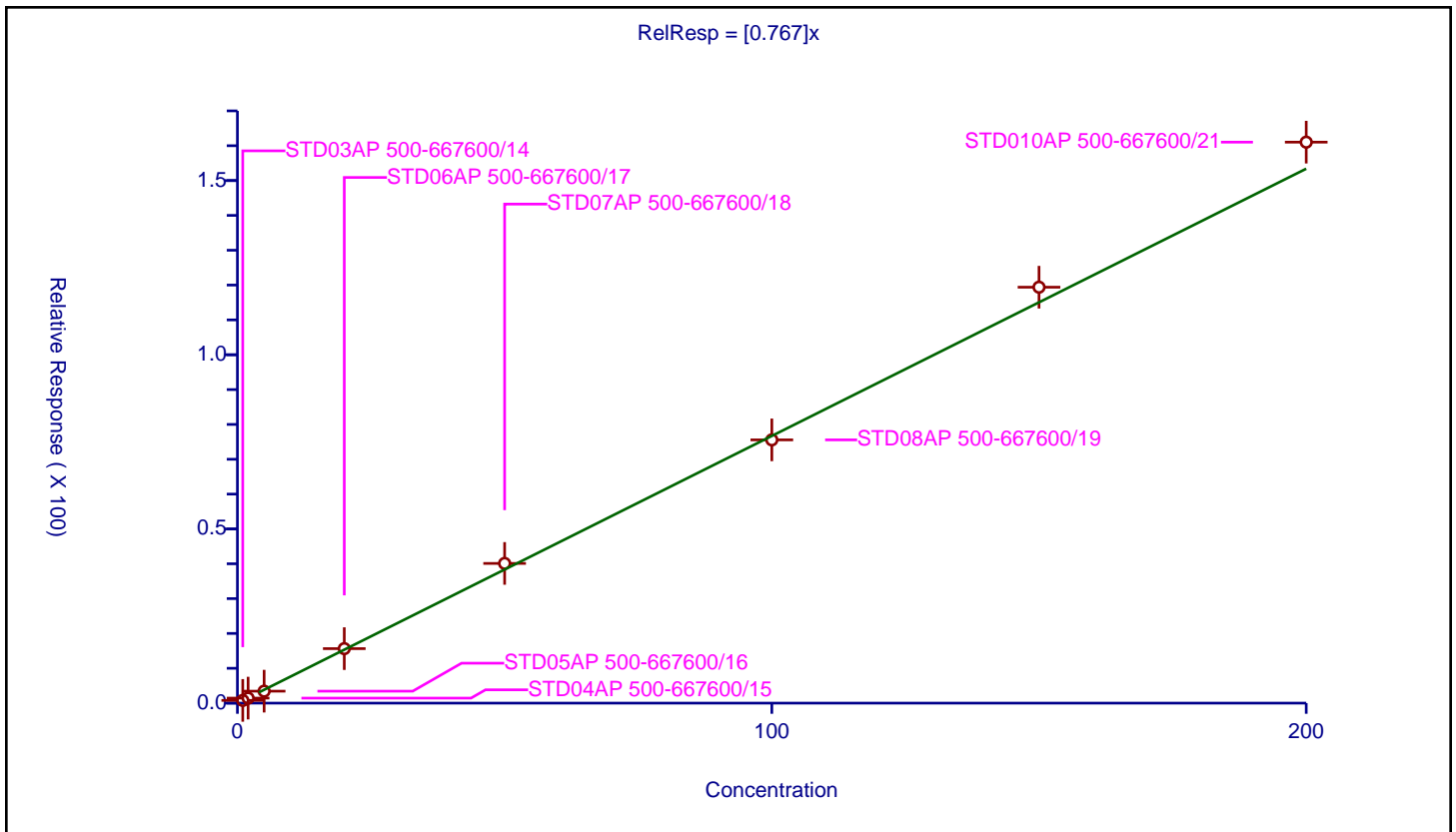
/ 1-Methylnaphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.767

Error Coefficients	
Standard Error:	314000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-667600/14	1.0	0.787083	50.0	194198.0	0.787083	Y
2	STD04AP 500-667600/15	2.0	1.440117	50.0	192033.0	0.720059	Y
3	STD05AP 500-667600/16	5.0	3.437839	50.0	189974.0	0.687568	Y
4	STD06AP 500-667600/17	20.0	15.64445	50.0	173365.0	0.782222	Y
5	STD07AP 500-667600/18	50.0	40.105441	50.0	170902.0	0.802109	Y
6	STD08AP 500-667600/19	100.0	75.564466	50.0	192660.0	0.755645	Y
7	STD09AP 500-667600/20	150.0	119.391625	50.0	188009.0	0.795944	Y
8	STD10AP 500-667600/21	200.0	161.021648	50.0	192444.0	0.805108	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-656646/3	STD010514.D
Level 2	STD02 500-656646/4	STD020514.D
Level 3	STD03 500-656646/5	STD030514.D
Level 4	STD04 500-656646/6	STD040514.D
Level 5	STD05 500-656646/7	STD050514.D
Level 6	STD06 500-656646/8	STD060514.D
Level 7	STD07 500-656646/9	STD070514.D
Level 8	STD08 500-656646/10	STD080514.D
Level 9	STD09 500-656646/11	STD090514.D
Level 10	STD010 500-656646/12	STD0100514.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2264	0.2726	0.2999 0.2262	0.2697 +++++	0.2516 +++++	Ave		0.257 7		0.0100	11.2		15.0				
Chloromethane	0.2877	0.3212	0.4171 0.2762	0.3472 +++++	0.3132 +++++	Lin1	0.130 5	0.288 4		0.1000			0.9950			0.9900	
Vinyl chloride	++++ 0.3226	++++ 0.3673	0.3676 0.3147	0.3400 +++++	0.3489 +++++	Ave		0.343 5		0.0100	6.5		15.0				
Butadiene	0.2831	0.3182	0.3392 0.2675	0.3099 +++++	0.2822 +++++	Ave		0.300 0		0.0100	9.0		15.0				
Bromomethane	0.2277	0.2745	++++ 0.2281	0.2382 +++++	0.2512 +++++	Ave		0.243 9		0.0100	8.0		15.0				
Chloroethane	0.2256	0.2642	0.2932 0.2279	0.2153 +++++	0.2553 +++++	Ave		0.246 9		0.0100	11.9		15.0				
Dichlorofluoromethane	0.5020	0.5197	0.4489 0.4407	0.4326 +++++	0.4714 +++++	Ave		0.469 2		0.0100	7.5		15.0				
Trichlorofluoromethane	0.4580	0.4757	0.5191 0.4225	0.4715 +++++	0.4399 +++++	Ave		0.464 5		0.0100	7.2		15.0				
Ethyl ether	0.1951	0.1943	0.2099 0.1701	0.2137 0.1527	0.1996 0.1506	Ave		0.185 7		0.0100	13.3		15.0				
Acrolein	0.0183	0.0181	0.0180 0.0180	0.0190 0.0166	0.0179 0.0169	Ave		0.017 8		0.0010	4.2		15.0				
1,1-Dichloroethene	0.2792	0.2869	0.3342 0.2584	0.2667 0.2714	0.2880 0.2710	Ave		0.282 0		0.0100	8.3		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3043	0.3166	0.3400 0.2821	0.2803 0.2910	0.3061 0.3001	Ave		0.302 6		0.0100	6.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Acetone	0.0540	0.0524	++++ 0.0528	++++ 0.0439	0.0671 0.0451	Lin1	0.136 5	0.045 9		0.0100				0.9930		0.9900	
Iodomethane	0.5839	0.6114	0.6674 0.5354	0.5837 0.5261	0.5798 0.5383	Ave		0.578 3		0.0100	8.1		15.0				
Carbon disulfide	0.9106	0.9491	1.0484 0.8301	0.9451 0.7921	0.9721 0.7854	Ave		0.904 1		0.0100	10.3		15.0				
3-Chloropropene	0.1778	0.1774	0.2099 0.1570	0.1809 0.1530	0.1603 0.1524	Ave		0.171 1		0.0100	11.4		15.0				
Methyl acetate	0.1340	0.1368	0.1577 0.1241	0.1400 0.1131	0.1301 0.1154	Ave		0.131 4		0.0100	10.9		15.0				
Methylene Chloride	0.2872	0.2897	++++ 0.2604	++++ 0.2516	0.2933 0.2525	Ave		0.272 4		0.0100	7.2		15.0				
tert-Butyl alcohol	1.1323	1.1520	1.2551 1.0757	1.1455 1.0537	1.1791 1.0782	Ave		1.133 9		0.0100	5.8		15.0				
Acrylonitrile	0.0690	0.0702	0.0801 0.0653	0.0688 0.0585	0.0684 0.0588	Ave		0.067 4		0.0010	10.2		15.0				
trans-1,2-Dichloroethene	0.3092	0.3295	0.3684 0.3396	0.3269 0.3310	0.3059 0.3254	Ave		0.329 5		0.0100	5.9		15.0				
Methyl tert-butyl ether	0.6903	0.7348	0.7896 0.7324	0.6975 0.6811	0.6772 0.6797	Ave		0.710 3		0.0100	5.5		15.0				
Hexane	0.4178	0.4471	0.5660 0.3916	0.5019 0.3789	0.4477 ++++	Ave		0.450 2		0.0100	14.5		15.0				
1,1-Dichloroethane	0.4730	0.4933	0.5717 0.4296	0.4889 0.4048	0.4988 0.4052	Ave		0.470 7		0.1000	12.0		15.0				
Vinyl acetate	0.4343	0.4578	0.5542 0.4037	0.4438 0.3940	0.4419 0.3906	Ave		0.440 0		0.0100	11.9		15.0				
cis-1,2-Dichloroethene	0.3185	0.3289	0.3869 0.2937	0.3350 0.2831	0.3247 0.2896	Ave		0.320 0		0.0100	10.4		15.0				
2,2-Dichloropropane	0.3306	0.3282	0.3668 0.2896	0.3564 0.2667	0.3425 0.2792	Ave		0.320 0		0.0100	11.6		15.0				
2-Butanone (MEK)	0.0783	0.0807	++++ 0.0785	++++ 0.0706	0.0868 0.0727	Ave		0.078 0		0.0100	7.4		15.0				
Bromochloromethane	0.1756	0.1784	0.1941 0.1627	0.1752 0.1504	0.1768 0.1537	Ave		0.170 8		0.0100	8.4		15.0				
Tetrahydrofuran	0.0602	0.0576	++++ 0.0516	++++ 0.0454	0.0707 0.0466	Lin1	0.340 4	0.047 1		0.0100				0.9940		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Chloroform	0.5056	0.5024	0.7678 0.4424	0.6760 0.4147	0.5180 0.4179	Lin1	0.455 2	0.428 6		0.0100				0.9960		0.9900	
1,1,1-Trichloroethane	0.4441	0.4520	0.5105 0.4023	0.4351 0.3903	0.4608 0.3918	Ave		0.435 9		0.0100	9.4	15.0					
Cyclohexane	0.4364	0.4514	0.5095 0.3945	0.4833 0.3845	0.4739 0.3785	Ave		0.439 0		0.0100	11.2	15.0					
1,1-Dichloropropene	0.3900	0.4016	0.4582 0.3555	0.3932 0.3499	0.4041 0.3513	Ave		0.388 0		0.0100	9.4	15.0					
Carbon tetrachloride	0.4337	0.4583	0.4972 0.4141	0.4287 0.4169	0.4390 0.4288	Ave		0.439 6		0.0100	6.1	15.0					
Isobutyl alcohol	0.4435	0.4450	0.5094 0.4144	0.4495 0.4122	0.4442 0.4093	Ave		0.440 9		0.0010	7.3	15.0					
Benzene	1.2439 1.0632	1.1728 1.1055	1.2853 1.0022	1.1077 1.0053	1.0895 0.9872	Ave		1.106 2		0.0100	9.2	15.0					
1,2-Dichloroethane	0.3114	0.3204	0.3453 0.2961	0.3152 0.2959	0.3040 0.2963	Ave		0.310 6		0.0100	5.4	15.0					
Heptane	0.3854	0.4010	0.4621 0.3538	0.4101 0.3482	0.3883 0.3397	Ave		0.386 1		0.0100	10.4	15.0					
Trichloroethene	++++ 0.3704	0.3335 0.3828	0.4372 0.3424	0.3832 0.3199	0.3735 0.3206	Ave		0.362 6		0.0100	10.4	15.0					
Methylcyclohexane	0.5124	0.5152	0.6174 0.4588	0.5035 0.4397	0.5234 0.4427	Ave		0.501 6		0.0100	11.5	15.0					
1,2-Dichloropropane	0.2583	0.2637	0.3180 0.2291	0.2534 0.2164	0.2530 0.2158	Ave		0.251 0		0.0100	13.2	15.0					
Dibromomethane	0.1677	0.1666	0.1814 0.1503	0.1704 0.1381	0.1683 0.1406	Ave		0.160 4		0.0100	9.7	15.0					
1,4-Dioxane	1.2424	1.1085	++++ 1.1354	++++ 0.9721	1.2107 1.0546	Ave		1.120 6		0.0010	8.9	15.0					
Bromodichloromethane	0.3573	0.3721	0.4531 0.3266	0.4029 0.3068	0.3642 0.3058	Ave		0.361 1		0.0100	13.9	15.0					
2-Chloroethyl vinyl ether	0.1555	0.1712	0.1765 0.1622	0.1506 0.1498	0.1468 0.1580	Ave		0.158 8		0.0100	6.7	15.0					
cis-1,3-Dichloropropene	0.5465	0.5649	0.5874 0.5222	0.5584 0.5122	0.5324 0.5281	Ave		0.544 0		0.0100	4.6	15.0					
4-Methyl-2-pentanone (MIBK)	0.2367	0.2483	++++ 0.2416	++++ 0.2249	0.2590 0.2338	Ave		0.240 7		0.0100	4.9	15.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Toluene	0.9356 0.8699	0.9884 0.9067	0.9453 0.8841	0.9166 0.9920	0.8821 1.0227	Ave		0.934 3		0.0100	5.6		15.0				
trans-1,3-Dichloropropene	0.4766	0.4835	0.5300 0.4552	0.4860 0.4476	0.4836 0.4738	Ave		0.479 5		0.0100	5.2		15.0				
Ethyl methacrylate	0.3736	0.3664	0.4358 0.3437	0.3902 0.3393	0.3857 0.3611	Ave		0.374 5		0.0100	8.2		15.0				
1,1,2-Trichloroethane	0.2646	0.2713	0.3082 0.2552	0.2736 0.2531	0.2649 0.2721	Ave		0.270 4		0.0100	6.3		15.0				
Tetrachloroethene	0.4692	0.4877	0.5351 0.4575	0.4723 0.4631	0.4682 0.4911	Ave		0.480 5		0.0100	5.2		15.0				
1,3-Dichloropropane	0.4445	0.4543	0.5013 0.4208	0.4409 0.4076	0.4397 0.4258	Ave		0.441 9		0.0100	6.4		15.0				
2-Hexanone	0.1684	0.1712	++++ 0.1681	++++ 0.1523	0.1734 0.1596	Ave		0.165 5		0.0100	4.8		15.0				
Dibromochloromethane	0.4049	0.4102	0.4435 0.3873	0.3999 0.3824	0.3931 0.4050	Ave		0.403 3		0.0100	4.7		15.0				
1,2-Dibromoethane	0.2780	0.2893	0.3554 0.2725	0.2815 0.2646	0.2772 0.2833	Ave		0.287 7		0.0100	9.8		15.0				
Chlorobenzene	1.0511	1.0770	1.1811 1.0143	1.0573 1.0630	1.0386 1.1446	Ave		1.078 4		0.3000	5.2		15.0				
1,1,1,2-Tetrachloroethane	0.4321	0.4435	0.4683 0.4113	0.4627 0.4152	0.4485 0.4346	Ave		0.439 5		0.0100	4.6		15.0				
Ethylbenzene	2.0002 1.6029	1.8994 1.6666	1.9305 1.5815	1.6969 1.7189	1.6081 1.7837	Ave		1.748 9		0.0100	8.5		15.0				
m&p-Xylene	1.6770 1.2135	1.4671 1.2722	1.4678 1.2305	1.3005 1.3802	1.1995 1.4296	Ave		1.363 8		0.0100	11.0		15.0				
o-Xylene	1.5366 1.2888	1.6163 1.3416	1.5537 1.3459	1.3411 1.4587	1.2842 1.5185	Ave		1.428 5		0.0100	8.5		15.0				
Styrene	1.0874	1.1752	1.2392 1.2771	1.0956 1.3753	1.0493 1.4200	Ave		1.214 9		0.0100	11.3		15.0				
Bromoform	0.2573	0.2572	0.2360 0.2493	0.2545 0.2561	0.2514 0.2882	Ave		0.256 2		0.1000	5.7		15.0				
Isopropylbenzene	2.9178	2.9071	3.3394 2.3032	2.9539 2.4893	2.9453 2.5531	Ave		2.801 1		0.0100	11.8		15.0				
Bromobenzene	0.7812	0.7641	0.9140 0.6079	0.7939 0.6683	0.8035 0.7015	Ave		0.754 3		0.0100	12.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,2,2-Tetrachloroethane	0.5818	0.5462	0.6801 0.4282	0.6136 ++++	0.6029 ++++	Ave		0.575 5		0.3000	14.7		15.0				
1,2,3-Trichloropropane	0.1724	0.1646	0.2288 0.1251	0.1968 0.1314	0.1910 0.1429	Lin1	0.138 3	0.138 2		0.0100				0.9910		0.9900	
trans-1,4-Dichloro-2-butene	0.1500	0.1344	0.1692 0.1016	0.1920 0.1015	0.1585 0.1050	Qual	0.091 5	0.128 1	-0.000145	0.0100				0.9920		0.9900	
N-Propylbenzene	3.2804	3.2150	4.0239 2.6583	3.3855 2.7177	3.2749 2.7226	Ave		3.159 8		0.0100	14.5		15.0				
2-Chlorotoluene	1.7677	1.7567	2.2015 1.4640	1.8729 1.5343	1.7559 1.5560	Ave		1.738 6		0.0100	13.5		15.0				
1,3,5-Trimethylbenzene	2.4300	2.5348	2.7826 2.2317	2.3683 2.2753	2.4253 2.3023	Ave		2.418 8		0.0100	7.3		15.0				
4-Chlorotoluene	2.0941	2.1921	2.6460 1.9674	2.1977 1.9396	2.0688 1.9358	Ave		2.130 2		0.0100	10.9		15.0				
tert-Butylbenzene	2.3260	2.3452	2.6595 2.0293	2.3207 2.1389	2.2902 2.2010	Ave		2.288 8		0.0100	8.1		15.0				
1,2,4-Trimethylbenzene	2.4244	2.4909	2.9118 2.2583	2.5046 2.3018	2.3911 2.3297	Ave		2.451 6		0.0100	8.4		15.0				
sec-Butylbenzene	3.3161	3.3663	3.9600 2.9733	3.3008 3.0327	3.2927 3.0506	Ave		3.286 6		0.0100	9.5		15.0				
1,3-Dichlorobenzene	1.5568	1.5572	1.9677 1.3827	1.5968 1.4417	1.5361 1.4659	Ave		1.563 1		0.0100	11.4		15.0				
p-Isopropyltoluene	3.0024	3.1665	3.2619 2.8569	2.9225 2.9038	2.9695 2.9183	Ave		3.000 2		0.0100	4.7		15.0				
1,4-Dichlorobenzene	1.5980	1.6414	1.8717 1.5112	1.7544 1.5160	1.6115 1.5215	Ave		1.628 2		0.0100	7.8		15.0				
n-Butylbenzene	2.6108	2.6600	3.1324 2.2465	2.7306 2.2175	2.5442 2.2101	Ave		2.544 0		0.0100	12.5		15.0				
1,2-Dichlorobenzene	1.4901	1.5771	1.7687 1.4559	1.5568 1.4515	1.4608 1.4805	Ave		1.530 2		0.0100	7.0		15.0				
1,2-Dibromo-3-Chloropropane	0.0960	0.0935	0.1088 0.0688	0.0968 0.0675	0.0985 0.0723	Qual	0.035 0	0.085 9	-0.000090	0.0100				0.9910		0.9900	
1,2,4-Trichlorobenzene	1.0601	1.0093	1.1856 0.7859	1.0743 ++++	1.0284 ++++	Ave		1.023 9		0.0100	12.9		15.0				
Hexachlorobutadiene	0.5485	0.5370	0.6139 0.3979	0.5623 ++++	0.5531 ++++	Ave		0.535 5		0.0100	13.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Naphthalene	2.0818	2.0044	2.5232 1.5855	2.1419 1.6002	2.0226 1.7417	Lin1	1.184 5	1.697 4		0.0100				0.9930		0.9900	
1,2,3-Trichlorobenzene	0.9223	0.8911	1.1232 0.7029	0.9112 0.7199	0.8911 0.7608	Lin1	0.508 4	0.751 5		0.0100				0.9940		0.9900	
Dibromofluoromethane (Surr)	0.2950	0.3171	0.2794	0.2648	0.2783 0.2670	Ave		0.283 6		0.0100	6.9		15.0				
1,2-Dichloroethane-d4 (Surr)	0.2378	0.2585	0.2308	0.2162	0.2235 0.2214	Ave		0.231 4		0.0100	6.6		15.0				
Toluene-d8 (Surr)	1.2446	1.3656	1.2870	1.4060	1.1564 1.4686	Ave		1.321 4		0.0100	8.6		15.0				
4-Bromofluorobenzene (Surr)	0.6545	0.6476	0.4955	0.5449	0.6149 0.5804	Ave		0.589 6		0.0100	10.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-656646/3	STD010514.D
Level 2	STD02 500-656646/4	STD020514.D
Level 3	STD03 500-656646/5	STD030514.D
Level 4	STD04 500-656646/6	STD040514.D
Level 5	STD05 500-656646/7	STD050514.D
Level 6	STD06 500-656646/8	STD060514.D
Level 7	STD07 500-656646/9	STD070514.D
Level 8	STD08 500-656646/10	STD080514.D
Level 9	STD09 500-656646/11	STD090514.D
Level 10	STD010 500-656646/12	STD0100514.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave			3032	5265	12385			1.00	2.00	5.00
			44565	126106	227123	++++	++++	20.0	50.0	100	++++	++++
Chloromethane	FB	Lin1			4217	6778	15416			1.00	2.00	5.00
			56643	148561	277331	++++	++++	20.0	50.0	100	++++	++++
Vinyl chloride	FB	Ave			3717	6638	17174			1.00	2.00	5.00
			63504	169870	315954	++++	++++	20.0	50.0	100	++++	++++
Butadiene	FB	Ave			3430	6051	13891			1.00	2.00	5.00
			55741	147193	268600	++++	++++	20.0	50.0	100	++++	++++
Bromomethane	FB	Ave			++++	4651	12363			++++	2.00	5.00
			44826	126949	229019	++++	++++	20.0	50.0	100	++++	++++
Chloroethane	FB	Ave			2964	4203	12565			1.00	2.00	5.00
			44412	122186	228853	++++	++++	20.0	50.0	100	++++	++++
Dichlorofluoromethane	FB	Ave			4539	8445	23203			1.00	2.00	5.00
			98823	240395	442489	++++	++++	20.0	50.0	100	++++	++++
Trichlorofluoromethane	FB	Ave			5249	9205	21654			1.00	2.00	5.00
			90159	220046	424149	++++	++++	20.0	50.0	100	++++	++++
Ethyl ether	FB	Ave			2122	4172	9823			1.00	2.00	5.00
			38403	89893	170748	277676	347529	20.0	50.0	100	150	200
Acrolein	FB	Ave			7278	14801	35172			40.0	80.0	200
			144000	334443	723727	1209475	1556960	800	2000	4000	6000	8000
1,1-Dichloroethene	FB	Ave			3379	5206	14176			1.00	2.00	5.00
			54969	132688	259412	493508	625105	20.0	50.0	100	150	200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave			3438	5473	15067			1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			59905	146443	283220	529191	692383	20.0	50.0	100	150	200
Acetone	FB	Lin1	10638	24217	52986	79789	104112	20.0	50.0	100	150	200
Iodomethane	FB	Ave	114953	282801	537510	956641	1241749	20.0	50.0	100	150	200
Carbon disulfide	FB	Ave	179270	438982	833350	1440307	1811911	20.0	50.0	100	150	200
3-Chloropropene	FB	Ave	34994	82050	157626	278221	351604	20.0	50.0	100	150	200
Methyl acetate	FB	Ave	52776	126593	249208	411186	532641	40.0	100	200	300	400
Methylene Chloride	FB	Ave	56540	133988	261405	457404	582598	20.0	50.0	100	150	200
tert-Butyl alcohol	TBAd 9	Ave	50451	117227	228667	388237	512248	200	500	1000	1500	2000
Acrylonitrile	FB	Ave	135855	324642	655598	1063241	1356087	200	500	1000	1500	2000
trans-1,2-Dichloroethene	FB	Ave	60869	152411	340976	601845	750692	20.0	50.0	100	150	200
Methyl tert-butyl ether	FB	Ave	135887	339849	735342	1238375	1568057	20.0	50.0	100	150	200
Hexane	FB	Ave	82245	206802	393166	688943	934756	20.0	50.0	100	150	200
1,1-Dichloroethane	FB	Ave	93114	228188	431302	736107	934756	20.0	50.0	100	150	200
Vinyl acetate	FB	Ave	85488	211764	405290	716329	901076	20.0	50.0	100	150	200
cis-1,2-Dichloroethene	FB	Ave	62700	152115	294853	514731	668122	20.0	50.0	100	150	200
2,2-Dichloropropane	FB	Ave	65086	151785	290724	484853	644106	20.0	50.0	100	150	200
2-Butanone (MEK)	FB	Ave	15417	37338	78833	128392	167823	20.0	50.0	100	150	200
Bromochloromethane	FB	Ave	34571	82508	163336	273428	354517	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Tetrahydrofuran	FB	Lin1	23716	53259	103615	165181	215201	40.0	100	200	300	400
Chloroform	FB	Lin1	99540	232374	444143	753952	964095	20.0	50.0	1.00	1.00	5.00
1,1,1-Trichloroethane	FB	Ave	87428	209047	403850	709678	903847	20.0	50.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	85913	208789	396016	699197	873207	20.0	50.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	76769	185733	356921	636205	810419	20.0	50.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	85377	211995	415794	758111	989180	20.0	50.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 9	Ave	49397	113195	220232	379689	486193	500	1250	2500	50.0	125
Benzene	FB	Ave	3050	5620	12995	21626	53630	0.250	0.500	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	61305	148215	297281	538083	683474	20.0	50.0	1.00	2.00	5.00
Heptane	FB	Ave	75863	185456	355242	633030	783587	20.0	50.0	1.00	2.00	5.00
Trichloroethene	FB	Ave	72912	177044	343777	581614	739592	20.0	50.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	100866	238294	460579	799417	1021337	20.0	50.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	50853	121967	229967	393476	497811	20.0	50.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	33006	77038	150918	251090	324376	20.0	50.0	1.00	2.00	5.00
1,4-Dioxane	DXE	Ave	8767	17518	35571	61644	72814	400	1000	2000	3000	4000
Bromodichloromethane	FB	Ave	70332	172105	327871	557826	705470	20.0	50.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	CBNZ d5	Ave	22892	59587	119016	190694	249242	20.0	50.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
cis-1,3-Dichloropropene	CBNZ d5	Ave			4483	8221	19637			1.00	2.00	5.00
			80453	196619	383278	651901	832888	20.0	50.0	100	150	200
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave			+++++	+++++	9555			+++++	+++++	5.00
			34853	86408	177321	286205	368751	20.0	50.0	100	150	200
Toluene	CBNZ d5	Ave	1792	3663	7214	13495	32537	0.250	0.500	1.00	2.00	5.00
			128060	315576	648828	1262584	1613114	20.0	50.0	100	150	200
trans-1,3-Dichloropropene	CBNZ d5	Ave			4045	7155	17839			1.00	2.00	5.00
			70166	168268	334108	569689	747315	20.0	50.0	100	150	200
Ethyl methacrylate	CBNZ d5	Ave			3326	5744	14228			1.00	2.00	5.00
			54995	127519	252278	431795	569582	20.0	50.0	100	150	200
1,1,2-Trichloroethane	CBNZ d5	Ave			2352	4028	9769			1.00	2.00	5.00
			38960	94405	187291	322183	429108	20.0	50.0	100	150	200
Tetrachloroethene	CBNZ d5	Ave			4084	6953	17269			1.00	2.00	5.00
			69075	169725	335776	589467	774530	20.0	50.0	100	150	200
1,3-Dichloropropane	CBNZ d5	Ave			3826	6491	16220			1.00	2.00	5.00
			65445	158108	308800	518757	671645	20.0	50.0	100	150	200
2-Hexanone	CBNZ d5	Ave			+++++	+++++	6396			+++++	+++++	5.00
			24795	59574	123340	193902	251752	20.0	50.0	100	150	200
Dibromochloromethane	CBNZ d5	Ave			3385	5887	14501			1.00	2.00	5.00
			59608	142763	284223	486770	638753	20.0	50.0	100	150	200
1,2-Dibromoethane	CBNZ d5	Ave			2712	4144	10226			1.00	2.00	5.00
			40925	100673	199977	336717	446775	20.0	50.0	100	150	200
Chlorobenzene	CBNZ d5	Ave			9014	15566	38309			1.00	2.00	5.00
			154748	374836	744450	1352987	1805326	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave			3574	6812	16541			1.00	2.00	5.00
			63620	154343	301887	528509	685534	20.0	50.0	100	150	200
Ethylbenzene	CBNZ d5	Ave	3831	7039	14733	24983	59316	0.250	0.500	1.00	2.00	5.00
			235977	580016	1160712	2187757	2813281	20.0	50.0	100	150	200
m&p-Xylene	CBNZ d5	Ave	3212	5437	11202	19146	44245	0.250	0.500	1.00	2.00	5.00
			178656	442764	903107	1756642	2254857	20.0	50.0	100	150	200
o-Xylene	CBNZ d5	Ave	2943	5990	11857	19744	47366	0.250	0.500	1.00	2.00	5.00
			189738	466907	987815	1856619	2395113	20.0	50.0	100	150	200
Styrene	CBNZ d5	Ave			9457	16130	38704			1.00	2.00	5.00
			160082	408990	937263	1750530	2239666	20.0	50.0	100	150	200
Bromoform	CBNZ d5	Ave			1801	3747	9272			1.00	2.00	5.00
			37884	89498	182979	325933	454607	20.0	50.0	100	150	200
Isopropylbenzene	DCBd 4	Ave			15035	26398	63525			1.00	2.00	5.00
			260206	650341	1364870	2673426	3422139	20.0	50.0	100	150	200
Bromobenzene	DCBd 4	Ave			4115	7095	17330			1.00	2.00	5.00
			69667	170948	360260	717682	940315	20.0	50.0	100	150	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave			3062	5484	13003			1.00	2.00	5.00
			51886	122185	253767	+++++	+++++	20.0	50.0	100	+++++	+++++
1,2,3-Trichloropropane	DCBd 4	Lin1			1030	1759	4120			1.00	2.00	5.00
			15377	36822	74110	141162	191490	20.0	50.0	100	150	200
trans-1,4-Dichloro-2-butene	DCBd 4	Qual			762	1716	3419			1.00	2.00	5.00
			13373	30074	60184	109015	140672	20.0	50.0	100	150	200
N-Propylbenzene	DCBd 4	Ave			18117	30255	70635			1.00	2.00	5.00
			292540	719233	1575352	2918630	3649253	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Chlorotoluene	DCBd 4	Ave			9912	16738	37873			1.00	2.00	5.00
			157638	392990	867593	1647795	2085613	20.0	50.0	100	150	200
1,3,5-Trimethylbenzene	DCBd 4	Ave			12528	21165	52311			1.00	2.00	5.00
			216700	567069	1322523	2443545	3085921	20.0	50.0	100	150	200
4-Chlorotoluene	DCBd 4	Ave			11913	19640	44621			1.00	2.00	5.00
			186745	490397	1165875	2083080	2594742	20.0	50.0	100	150	200
tert-Butylbenzene	DCBd 4	Ave			11974	20739	49396			1.00	2.00	5.00
			207430	524639	1202567	2297098	2950194	20.0	50.0	100	150	200
1,2,4-Trimethylbenzene	DCBd 4	Ave			13110	22383	51573			1.00	2.00	5.00
			216206	557251	1338303	2472028	3122619	20.0	50.0	100	150	200
sec-Butylbenzene	DCBd 4	Ave			17829	29498	71019			1.00	2.00	5.00
			295726	753081	1761988	3256989	4088852	20.0	50.0	100	150	200
1,3-Dichlorobenzene	DCBd 4	Ave			8859	14270	33132			1.00	2.00	5.00
			138834	348355	819409	1548308	1964836	20.0	50.0	100	150	200
p-Isopropyltoluene	DCBd 4	Ave			14686	26118	64047			1.00	2.00	5.00
			267748	708370	1693006	3118551	3911589	20.0	50.0	100	150	200
1,4-Dichlorobenzene	DCBd 4	Ave			8427	15679	34757			1.00	2.00	5.00
			142509	367193	895523	1628062	2039348	20.0	50.0	100	150	200
n-Butylbenzene	DCBd 4	Ave			14103	24403	54874			1.00	2.00	5.00
			232822	595070	1331288	2381487	2962371	20.0	50.0	100	150	200
1,2-Dichlorobenzene	DCBd 4	Ave			7963	13913	31508			1.00	2.00	5.00
			132882	352807	862793	1558823	1984357	20.0	50.0	100	150	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Qual			490	865	2125			1.00	2.00	5.00
			8565	20910	40759	72467	96901	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,4-Trichlorobenzene	DCBd 4	Ave			5338	9601	22182			1.00	2.00	5.00
			94537	225781	465755	+++++	+++++	20.0	50.0	100	+++++	+++++
Hexachlorobutadiene	DCBd 4	Ave			2764	5025	11930			1.00	2.00	5.00
			48917	120136	235807	+++++	+++++	20.0	50.0	100	+++++	+++++
Naphthalene	DCBd 4	Lin1			11360	19142	43624			1.00	2.00	5.00
			185652	448413	939584	1718543	2334446	20.0	50.0	100	150	200
1,2,3-Trichlorobenzene	DCBd 4	Lin1			5057	8143	19220			1.00	2.00	5.00
			82245	199360	416532	773166	1019719	20.0	50.0	100	150	200
Dibromofluoromethane (Surr)	FB	Ave					27396					10.0
			58071	146672	280484	481419	615914	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave					22006					10.0
			46806	119545	231739	393033	510782	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave					85306					10.0
			183234	475279	944560	1789550	2316307	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave					26525					10.0
			58366	144867	293634	585238	777897	20.0	50.0	100	150	200

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qual = Quadratic 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-656646/3	STD010514.D
Level 2	STD02 500-656646/4	STD020514.D
Level 3	STD03 500-656646/5	STD030514.D
Level 4	STD04 500-656646/6	STD040514.D
Level 5	STD05 500-656646/7	STD050514.D
Level 6	STD06 500-656646/8	STD060514.D
Level 7	STD07 500-656646/9	STD070514.D
Level 8	STD08 500-656646/10	STD080514.D
Level 9	STD09 500-656646/11	STD090514.D
Level 10	STD010 500-656646/12	STD0100514.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Dichlorodifluoromethane	5.8	-12.2	16.4 ++++	4.6 ++++	-2.4	-12.2	30	30	50	30	30	30
Chloromethane	10.5	-4.7	-0.6 ++++	-2.2 ++++	-0.5	-2.5	30	30	50	30	30	30
Vinyl chloride	++++ 6.9	++++ -8.4	7.0 ++++	-1.0 ++++	1.6	-6.1	30	30	50	30	30	30
Butadiene	6.1	-10.8	13.1 ++++	3.3 ++++	-6.0	-5.6	30	30	50	30	30	30
Bromomethane	12.5	-6.5	++++ ++++	-2.3 ++++	3.0	-6.7	30	30		50	30	30
Chloroethane	7.0	-7.7	18.7 ++++	-12.8 ++++	3.4	-8.6	30	30	50	30	30	30
Dichlorofluoromethane	10.8	-6.1	-4.3 ++++	-7.8 ++++	0.5	7.0	30	30	50	30	30	30
Trichlorofluoromethane	2.4	-9.0	11.8 ++++	1.5 ++++	-5.3	-1.4	30	30	50	30	30	30
Ethyl ether	4.6	-8.4	13.0 -17.8	15.0 -18.9	7.4	5.0	30	30	50 30	30 30	30	30
Acrolein	1.3	1.0	0.9 -6.8	6.3 -5.4	0.1	2.5	30	30	50 30	30 30	30	30
1,1-Dichloroethene	1.7	-8.4	18.5 -3.7	-5.4 -3.9	2.1	-1.0	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	-6.8	12.4 -3.8	-7.4 -0.8	1.2	0.6	30	30	50 30	30 30	30	30
Acetone	8.1	12.0	++++ -6.4	++++ -3.2	-13.4	2.8	30	30	30	30	50	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Iodomethane	5.7	-7.4	15.4 -9.0	0.9 -6.9	0.3	1.0	30	30	50 30	30 30	30	30
Carbon disulfide	5.0	-8.2	16.0 -12.4	4.5 -13.1	7.5	0.7	30	30	50 30	30 30	30	30
3-Chloropropene	3.7	-8.2	22.7 -10.6	5.7 -10.9	-6.3	3.9	30	30	50 30	30 30	30	30
Methyl acetate	4.1	-5.6	20.0 -14.0	6.5 -12.1	-1.0	2.0	30	30	50 30	30 30	30	30
Methylene Chloride	6.3	-4.4	++++ -7.7	++++ -7.3	7.7	5.4	30	30	30	30	50	30
tert-Butyl alcohol	1.6	-5.1	10.7 -7.1	1.0 -4.9	4.0	-0.1	30	30	50 30	30 30	30	30
Acrylonitrile	4.1	-3.1	18.9 -13.2	2.1 -12.8	1.5	2.4	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	0.0	3.1	11.8 0.5	-0.8 -1.2	-7.2	-6.2	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	3.4	3.1	11.2 -4.1	-1.8 -4.3	-4.7	-2.8	30	30	50 30	30 30	30	30
Hexane	-0.7	-13.0	25.7 -15.8	11.5 ++++	-0.5	-7.2	30	30	50 30	30	30	30
1,1-Dichloroethane	4.8	-8.7	21.5 -14.0	3.9 -13.9	6.0	0.5	30	30	50 30	30 30	30	30
Vinyl acetate	4.0	-8.3	25.9 -10.5	0.9 -11.2	0.4	-1.3	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	2.8	-8.2	20.9 -11.5	4.7 -9.5	1.5	-0.5	30	30	50 30	30 30	30	30
2,2-Dichloropropane	2.5	-9.5	14.6 -16.7	11.4 -12.7	7.0	3.3	30	30	50 30	30 30	30	30
2-Butanone (MEK)	3.6	0.7	++++ -9.4	++++ -6.7	11.4	0.5	30	30	30	30	50	30
Bromochloromethane	4.4	-4.8	13.6 -12.0	2.5 -10.0	3.5	2.8	30	30	50 30	30 30	30	30
Tetrahydrofuran	15.1	6.0	++++ -5.9	++++ -2.7	-22.2	9.9	30	30	30	30	50	30
Chloroform	15.1	2.1	-27.1 -4.0	4.6 -3.0	-0.4	12.7	30	30	50 30	30 30	30	30
1,1,1-Trichloroethane	3.7	-7.7	17.1 -10.5	-0.2 -10.1	5.7	1.9	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Cyclohexane	2.8	-10.1	16.0 -12.4	10.1 -13.8	8.0	-0.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	3.5	-8.4	18.1 -9.8	1.3 -9.4	4.2	0.5	30	30	50 30	30 30	30	30
Carbon tetrachloride	4.3	-5.8	13.1 -5.2	-2.5 -2.5	-0.1	-1.3	30	30	50 30	30 30	30	30
Isobutyl alcohol	0.9	-6.0	15.5 -6.5	1.9 -7.2	0.7	0.6	30	30	50 30	30 30	30	30
Benzene	12.4 -0.1	6.0 -9.4	16.2 -9.1	0.1 -10.8	-1.5	-3.9	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	3.2	-4.7	11.2 -4.7	1.5 -4.6	-2.1	0.3	30	30	50 30	30 30	30	30
Heptane	3.9	-8.3	19.7 -9.8	6.2 -12.0	0.6	-0.2	30	30	50 30	30 30	30	30
Trichloroethene	++++ 5.6	-8.0 -5.6	20.6 -11.8	5.7 -11.6	3.0	2.1	30	50 30	30 30	30 30	30	30
Methylcyclohexane	2.7	-8.5	23.1 -12.4	0.4 -11.7	4.3	2.1	30	30	50 30	30 30	30	30
1,2-Dichloropropane	5.1	-8.7	26.7 -13.8	1.0 -14.0	0.8	2.9	30	30	50 30	30 30	30	30
Dibromomethane	3.8	-6.3	13.1 -13.9	6.2 -12.3	4.9	4.5	30	30	50 30	30 30	30	30
1,4-Dioxane	-1.1	1.3	++++ -13.2	++++ -5.9	8.0	10.9	30	30	30	30	50	30
Bromodichloromethane	3.0	-9.6	25.5 -15.0	11.6 -15.3	0.9	-1.1	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	7.8	2.1	11.1 -5.7	-5.2 -0.5	-7.6	-2.1	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	3.8	-4.0	8.0 -5.9	2.6 -2.9	-2.1	0.5	30	30	50 30	30 30	30	30
4-Methyl-2-pentanone (MIBK)	3.1	0.4	++++ -6.6	++++ -2.9	7.6	-1.7	30	30	30	30	50	30
Toluene	0.1 -3.0	5.8 -5.4	1.2 6.2	-1.9 9.5	-5.6	-6.9	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	0.8	-5.1	10.5 -6.7	1.3 -1.2	0.9	-0.6	30	30	50 30	30 30	30	30
Ethyl methacrylate	-2.2	-8.2	16.4 -9.4	4.2 -3.6	3.0	-0.2	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,1,2-Trichloroethane	0.3	-5.6	14.0 -6.4	1.2 0.6	-2.0	-2.1	30	30	50 30	30 30	30	30
Tetrachloroethene	1.5	-4.8	11.4 -3.6	-1.7 2.2	-2.6	-2.4	30	30	50 30	30 30	30	30
1,3-Dichloropropane	2.8	-4.8	13.5 -7.8	-0.2 -3.6	-0.5	0.6	30	30	50 30	30 30	30	30
2-Hexanone	3.4	1.5	++++ -8.0	++++ -3.6	4.8	1.8	30	30	30	30	50	30
Dibromochloromethane	1.7	-4.0	10.0 -5.2	-0.8 0.4	-2.5	0.4	30	30	50 30	30 30	30	30
1,2-Dibromoethane	0.5	-5.3	23.5 -8.0	-2.2 -1.5	-3.6	-3.4	30	30	50 30	30 30	30	30
Chlorobenzene	-0.1	-5.9	9.5 -1.4	-2.0 6.1	-3.7	-2.5	30	30	50 30	30 30	30	30
1,1,1,2-Tetrachloroethane	0.9	-6.4	6.5 -5.5	5.3 -1.1	2.0	-1.7	30	30	50 30	30 30	30	30
Ethylbenzene	14.4 -4.7	8.6 -9.6	10.4 -1.7	-3.0 2.0	-8.0	-8.3	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	23.0 -6.7	7.6 -9.8	7.6 1.2	-4.6 4.8	-12.0	-11.0	50 30	30 30	30 30	30 30	30	30
o-Xylene	7.6 -6.1	13.1 -5.8	8.8 2.1	-6.1 6.3	-10.1	-9.8	50 30	30 30	30 30	30 30	30	30
Styrene	-3.3	5.1	2.0 13.2	-9.8 16.9	-13.6	-10.5	30	30	50 30	30 30	30	30
Bromoform	0.4	-2.7	-7.9 -0.1	-0.7 12.5	-1.9	0.4	30	30	50 30	30 30	30	30
Isopropylbenzene	3.8	-17.8	19.2 -11.1	5.5 -8.9	5.1	4.2	30	30	50 30	30 30	30	30
Bromobenzene	1.3	-19.4	21.2 -11.4	5.3 -7.0	6.5	3.6	30	30	50 30	30 30	30	30
1,1,2,2-Tetrachloroethane	-5.1	-25.6	18.2 ++++	6.6 ++++	4.8	1.1	30	30	50	30	30	30
1,2,3-Trichloropropane	17.1	-10.5	-34.5 -5.5	-7.6 2.9	18.2	19.8	30	30	50 30	30 30	30	30
trans-1,4-Dichloro-2-butene	10.4	-12.8	-39.3 -6.4	14.5 7.9	10.2	16.6	30	30	50 30	30 30	30	30
N-Propylbenzene	1.7	-15.9	27.3 -14.0	7.1 -13.8	3.6	3.8	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
2-Chlorotoluene	1.0	-15.8	26.6 -11.8	7.7 -10.5	1.0	1.7	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	4.8	-7.7	15.0 -5.9	-2.1 -4.8	0.3	0.5	30	30	50 30	30 30	30	30
4-Chlorotoluene	2.9	-7.6	24.2 -8.9	3.2 -9.1	-2.9	-1.7	30	30	50 30	30 30	30	30
tert-Butylbenzene	2.5	-11.3	16.2 -6.6	1.4 -3.8	0.1	1.6	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	1.6	-7.9	18.8 -6.1	2.2 -5.0	-2.5	-1.1	30	30	50 30	30 30	30	30
sec-Butylbenzene	2.4	-9.5	20.5 -7.7	0.4 -7.2	0.2	0.9	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	-0.4	-11.5	25.9 -7.8	2.2 -6.2	-1.7	-0.4	30	30	50 30	30 30	30	30
p-Isopropyltoluene	5.5	-4.8	8.7 -3.2	-2.6 -2.7	-1.0	0.1	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	0.8	-7.2	15.0 -6.9	7.8 -6.6	-1.0	-1.9	30	30	50 30	30 30	30	30
n-Butylbenzene	4.6	-11.7	23.1 -12.8	7.3 -13.1	0.0	2.6	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	3.1	-4.9	15.6 -5.1	1.7 -3.2	-4.5	-2.6	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	14.9	-12.3	-13.9 -8.6	-7.5 8.7	7.2	12.5	30	30	50 30	30 30	30	30
1,2,4-Trichlorobenzene	-1.4	-23.2	15.8 ++++	4.9 ++++	0.4	3.5	30	30	50	30	30	30
Hexachlorobutadiene	0.3	-25.7	14.7 ++++	5.0 ++++	3.3	2.4	30	30	50	30	30	30
Naphthalene	16.7	-7.3	-21.1 -6.2	-8.7 2.3	5.2	19.2	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	17.2	-7.1	-18.2 -4.6	-12.6 0.9	5.1	19.3	30	30	50 30	30 30	30	30
Dibromofluoromethane (Surr)	11.8	-1.5	-6.6	-5.9	-1.9	4.0	30	30	30	30	50	30
1,2-Dichloroethane-d4 (Surr)	11.7	-0.2	-6.6	-4.3	-3.4	2.8	30	30	30	30	50	30
Toluene-d8 (Surr)	3.3	-2.6	6.4	11.1	-12.5	-5.8	30	30	30	30	50	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 09:34 Calibration End Date: 05/14/2022 13:06 Calibration ID: 44251

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
4-Bromofluorobenzene (Surr)	9.8	-16.0	-7.6	-1.6	4.3	11.0	30	30	30	30	50	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010514.D
 Lims ID: STD01
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-May-2022 09:34:12 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD01
 Misc. Info.: 500-0085710-003
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:32:48 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop Date: 17-May-2022 08:14:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 23 TBA-d9 (IS)	65	3.479	3.482	-0.003	0	148336	1000.0	1000.0	
50 Benzene	78	5.497	5.500	-0.003	50	3050	0.2500	0.2811	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	490394	50.0	50.0	
* 62 1,4-Dioxane-d8	96	6.493	6.493	0.000	0	12379	1000.0	1000.0	M
72 Toluene	92	7.602	7.602	0.000	33	1792	0.2500	0.2503	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	383054	50.0	50.0	
86 Ethylbenzene	91	9.486	9.486	0.000	23	3831	0.2500	0.2859	
87 m-Xylene & p-Xylene	91	9.643	9.640	0.003	15	3212	0.2500	0.3074	a
88 o-Xylene	91	10.118	10.118	0.000	23	2943	0.2500	0.2689	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	220689	50.0	50.0	
S 124 Xylenes, Total	1				0			0.5763	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWIS1_00164 Amount Added: 5.00 Units: uL
 LEVEL1 8260_00012 Amount Added: 2.50 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010514.D

Injection Date: 14-May-2022 09:34:12

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD01

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

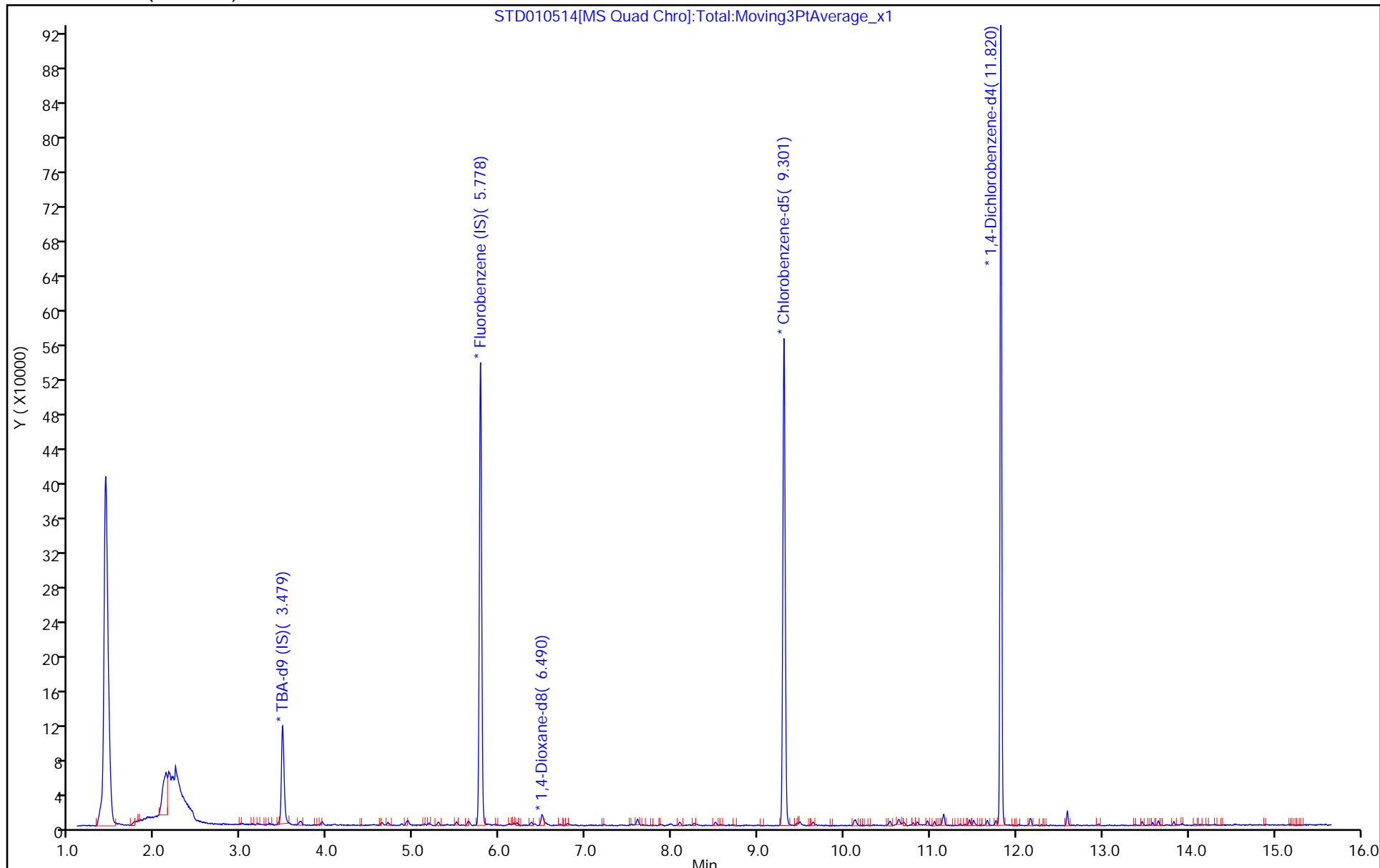
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



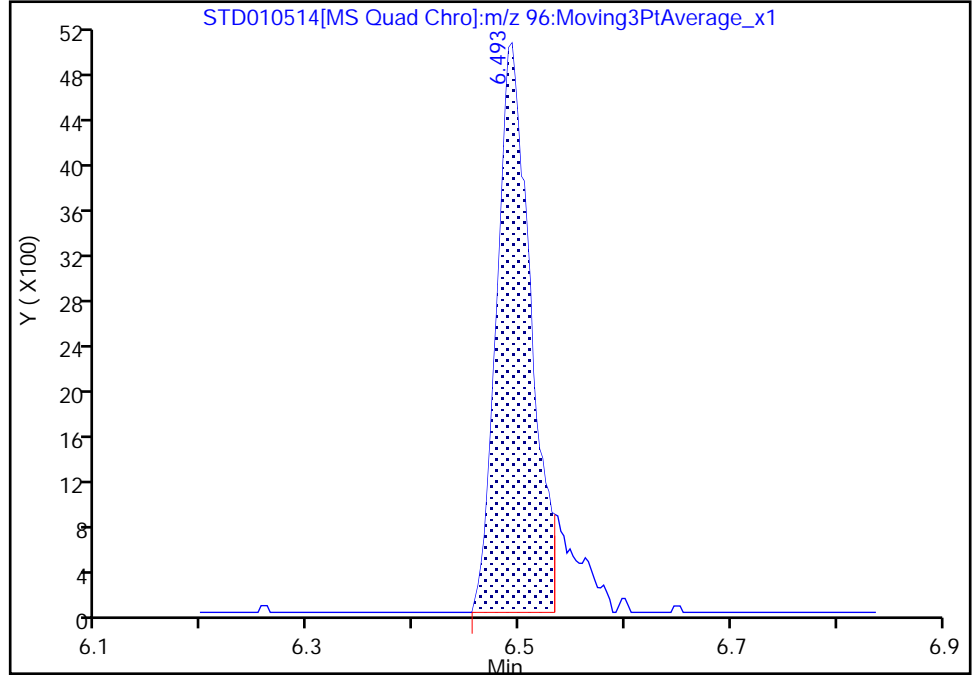
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010514.D
Injection Date: 14-May-2022 09:34:12 Instrument ID: CMS29
Lims ID: STD01
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

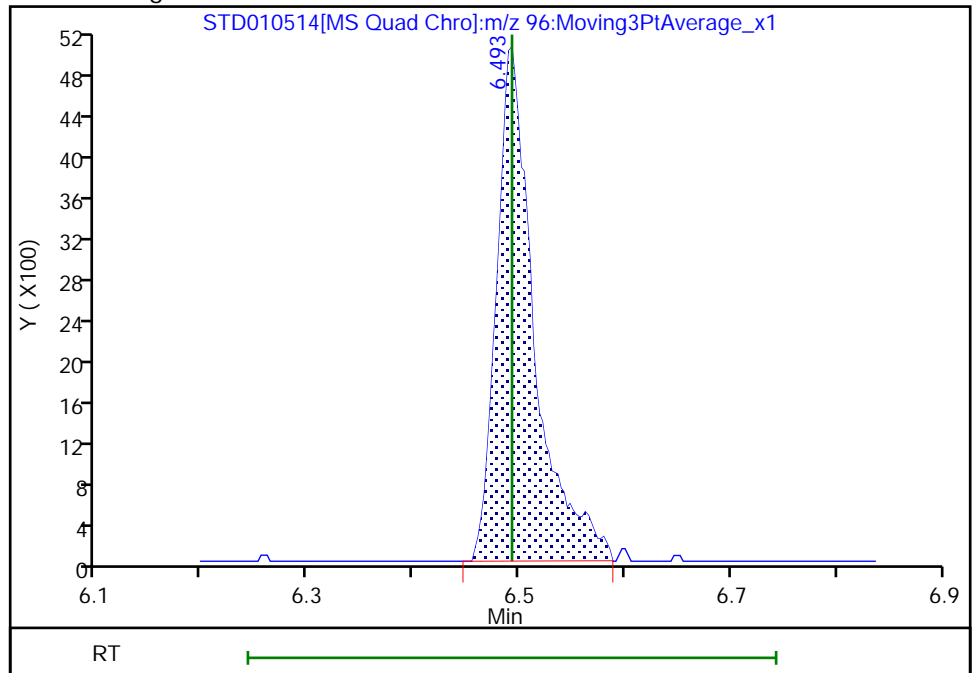
RT: 6.49
Area: 11069
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 12379
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:36:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

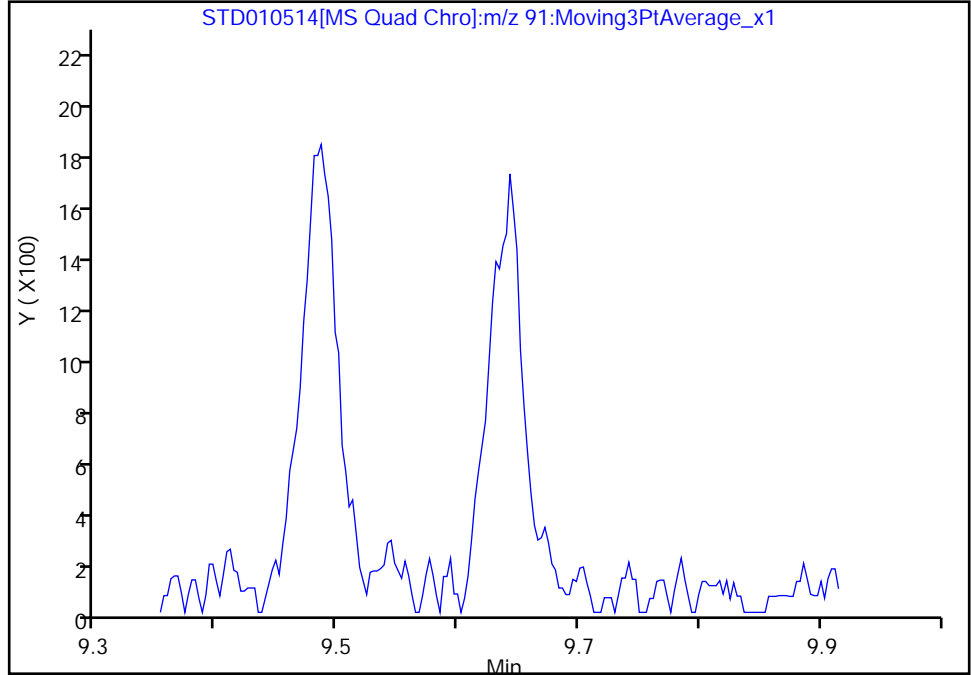
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010514.D
Injection Date: 14-May-2022 09:34:12 Instrument ID: CMS29
Lims ID: STD01
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

87 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

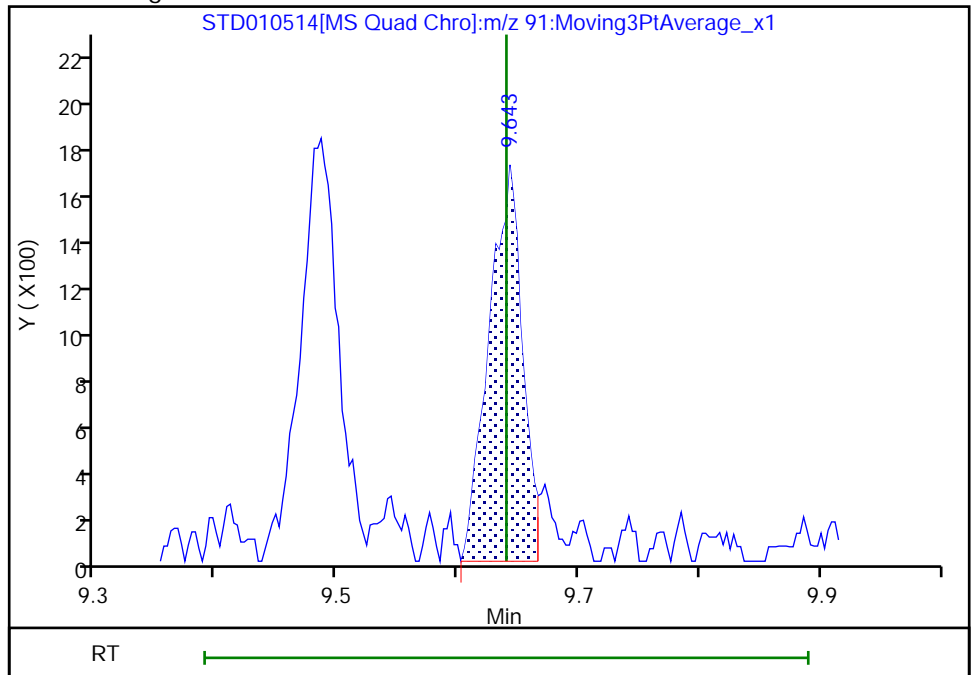
Not Detected
Expected RT: 9.64

Processing Integration Results



Manual Integration Results

RT: 9.64
Area: 3212
Amount: 0.307421
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:03:17
Audit Action: Assigned Compound ID

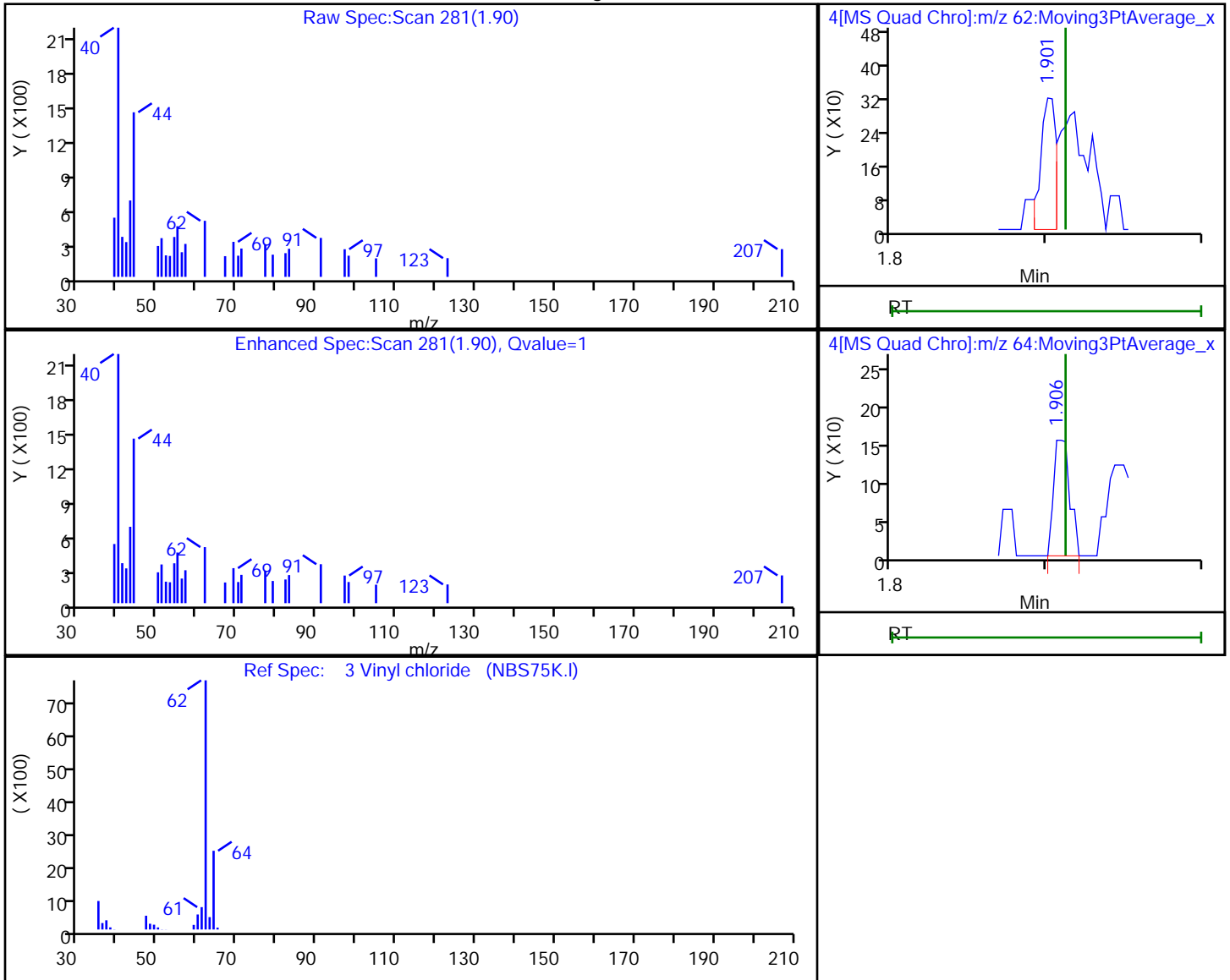
Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010514.D
 Injection Date: 14-May-2022 09:34:12 Instrument ID: CMS29
 Lims ID: STD01
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.90	62.00	219	0.192906
1.91	64.00	113	

Reviewer: ficarello, 17-May-2022 08:13:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD020514.D
 Lims ID: STD02
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-May-2022 09:57:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD02
 Misc. Info.: 500-0085710-004
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:32:53 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop Date: 15-May-2022 13:03:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 23 TBA-d9 (IS)	65	3.490	3.482	0.008	0	267969	1000.0	1000.0	
50 Benzene	78	5.494	5.500	-0.006	90	5620	0.5000	0.5301	
* 55 Fluorobenzene (IS)	96	5.775	5.778	-0.003	99	479201	50.0	50.0	
57 Trichloroethene	130	6.160	6.163	-0.003	21	1598	0.5000	0.4598	M
* 62 1,4-Dioxane-d8	96	6.493	6.493	0.000	0	22314	1000.0	1000.0	M
72 Toluene	92	7.602	7.602	0.000	39	3663	0.5000	0.5289	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	370589	50.0	50.0	
86 Ethylbenzene	91	9.487	9.486	0.000	55	7039	0.5000	0.5430	
87 m-Xylene & p-Xylene	91	9.637	9.640	-0.003	58	5437	0.5000	0.5379	
88 o-Xylene	91	10.115	10.118	-0.003	56	5990	0.5000	0.5657	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	219751	50.0	50.0	
S 124 Xylenes, Total	1				0			1.10	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LEVEL1 8260_00012 Amount Added: 5.00 Units: uL
 8260 LOWIS1_00164 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD020514.D

Injection Date: 14-May-2022 09:57:49

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD02

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

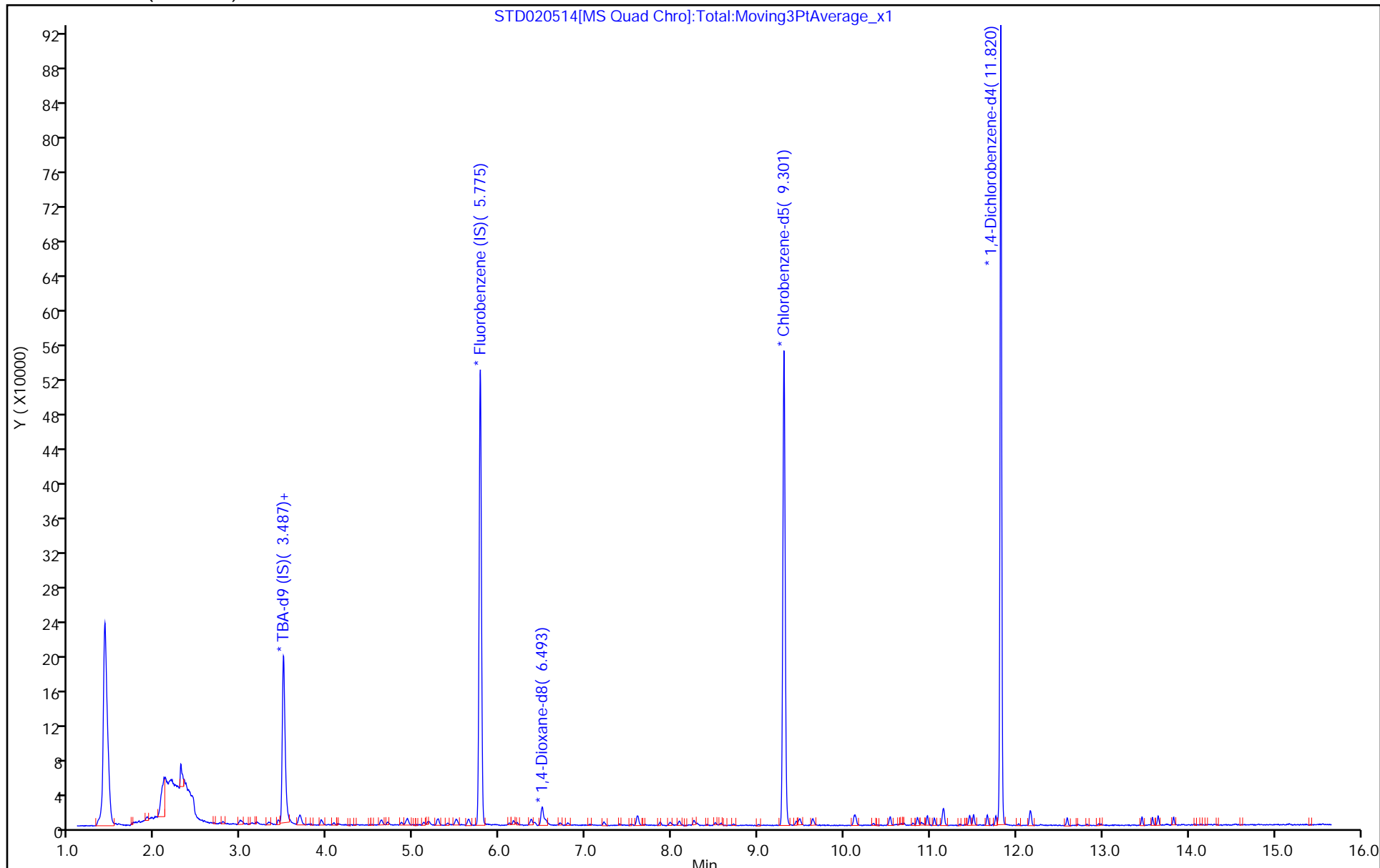
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

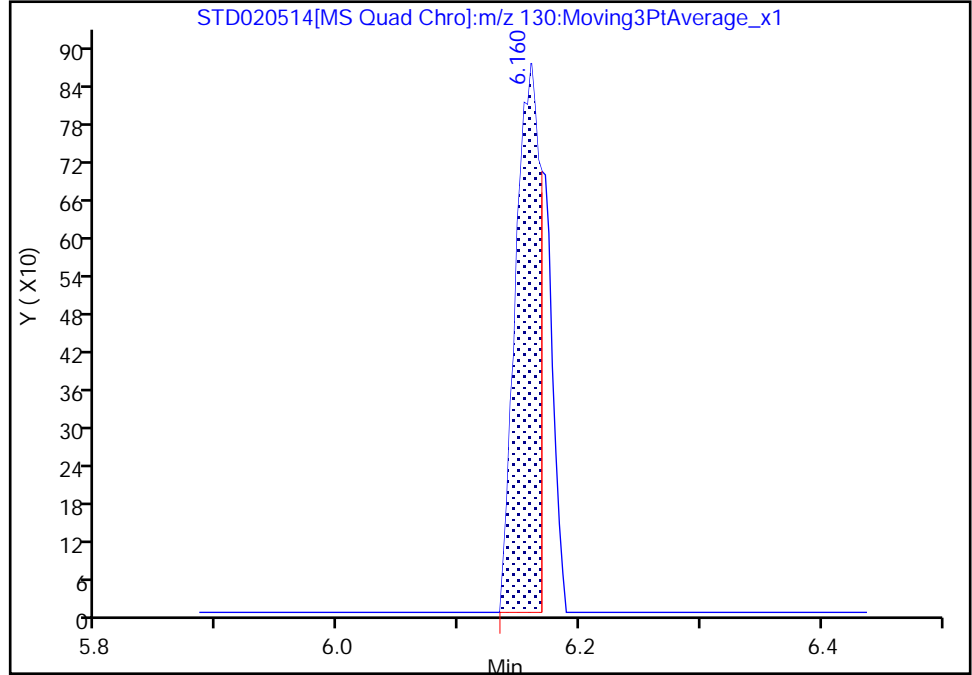
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Injection Date: 14-May-2022 09:57:49 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

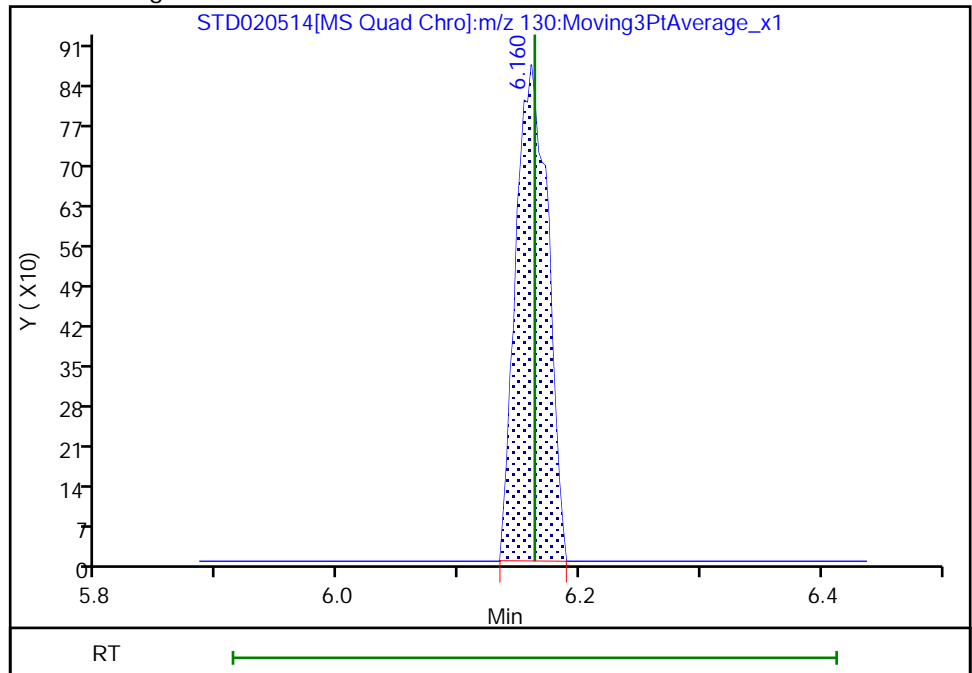
RT: 6.16
Area: 1226
Amount: 0.361392
Amount Units: ug/l

Processing Integration Results



RT: 6.16
Area: 1598
Amount: 0.459842
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:03:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

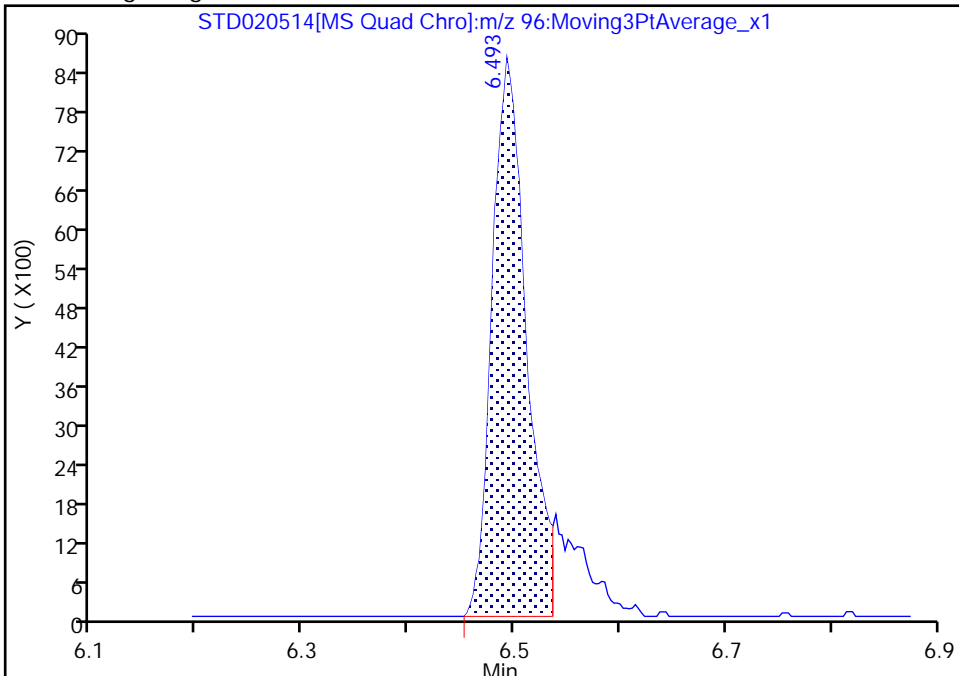
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Injection Date: 14-May-2022 09:57:49 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

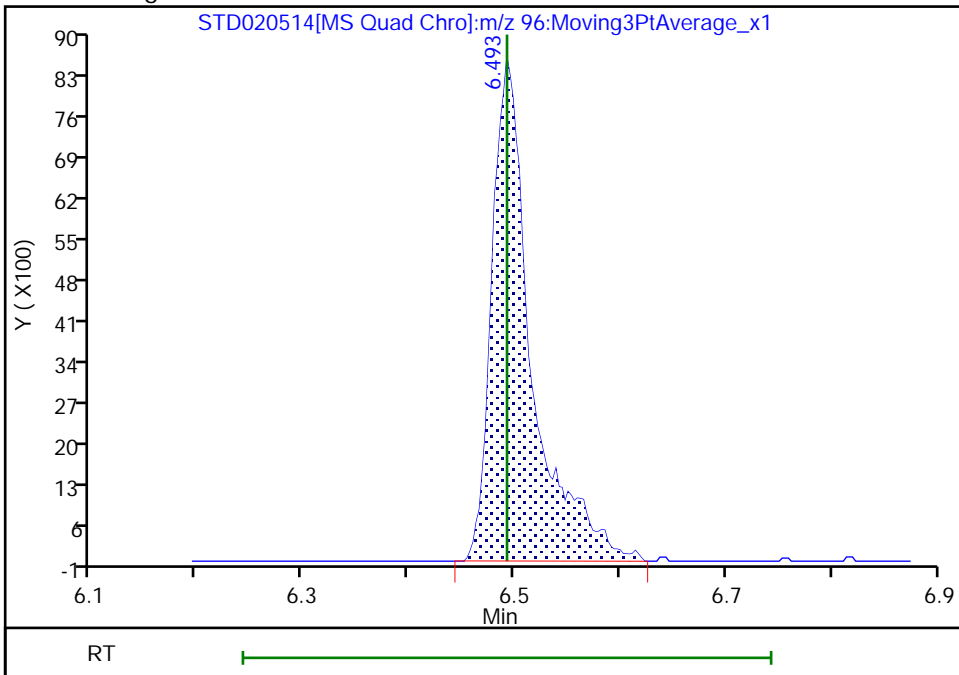
RT: 6.49
Area: 19263
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 22314
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:35:11

Audit Action: Manually Integrated

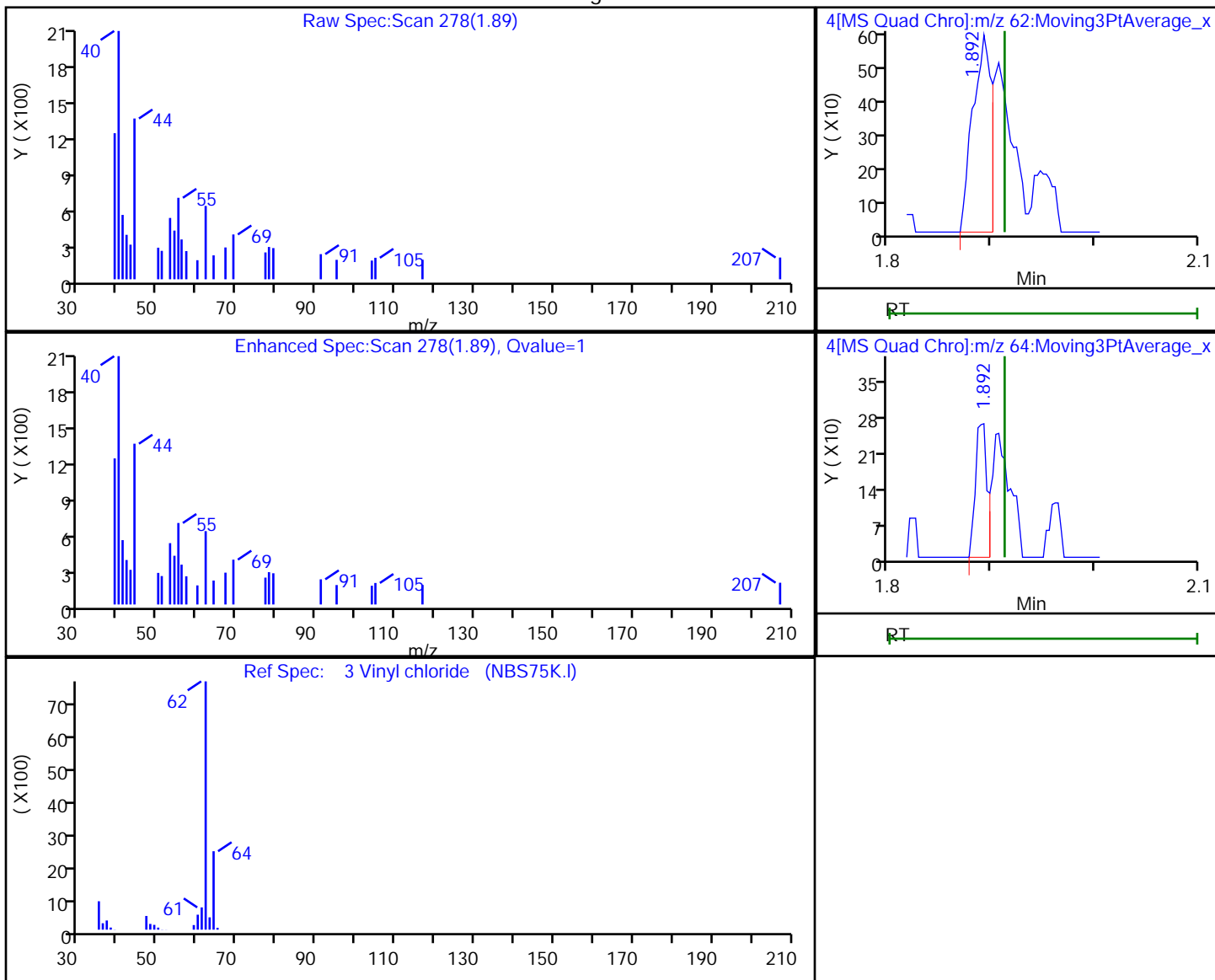
Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD020514.D
Injection Date: 14-May-2022 09:57:49 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.89	62.00	747	0.303046
1.89	64.00	212	

Reviewer: ficarello, 17-May-2022 08:14:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
 Lims ID: STD03
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-May-2022 10:21:24 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD03
 Misc. Info.: 500-0085710-005
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:32:57 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 14-May-2022 12:23:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.599	1.594	0.005	1	3032	1.00	1.16	M
2 Chloromethane	50	1.796	1.802	-0.006	13	4217	1.00	0.99	M
3 Vinyl chloride	62	1.912	1.912	0.000	23	3717	1.00	1.07	M
4 Butadiene	39	1.915	1.918	-0.003	75	3430	1.00	1.13	
7 Chloroethane	64	2.274	2.280	-0.006	48	2964	1.00	1.19	Ma
8 Dichlorofluoromethane	67	2.482	2.497	-0.015	28	4539	1.00	0.9568	a
9 Trichlorofluoromethane	101	2.503	2.506	-0.003	24	5249	1.00	1.12	M
11 Ethyl ether	59	2.792	2.795	-0.003	54	2122	1.00	1.13	
12 Acrolein	56	2.908	2.914	-0.006	74	7278	40.0	40.4	
13 1,1-Dichloroethene	96	2.992	2.995	-0.003	56	3379	1.00	1.19	a
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.009	3.021	-0.012	34	3438	1.00	1.12	a
16 Iodomethane	142	3.128	3.134	-0.006	78	6748	1.00	1.15	
17 Carbon disulfide	76	3.189	3.195	-0.006	89	10600	1.00	1.16	
20 3-Chloro-1-propene	76	3.328	3.328	0.000	50	2122	1.00	1.23	
21 Methyl acetate	43	3.357	3.351	0.006	62	3189	2.00	2.40	
* 23 TBA-d9 (IS)	65	3.484	3.482	0.002	0	216550	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.562	3.560	0.002	50	2718	10.0	11.1	a
25 Acrylonitrile	53	3.672	3.670	0.002	96	8102	10.0	11.9	
26 trans-1,2-Dichloroethene	96	3.684	3.690	-0.006	79	3725	1.00	1.12	
27 Methyl tert-butyl ether	73	3.693	3.696	-0.003	77	7983	1.00	1.11	
28 Hexane	57	3.936	3.939	-0.003	82	5723	1.00	1.26	
29 1,1-Dichloroethane	63	4.081	4.084	-0.003	56	5780	1.00	1.21	
30 Vinyl acetate	43	4.127	4.127	0.000	80	5603	1.00	1.26	
35 cis-1,2-Dichloroethene	96	4.628	4.631	-0.003	74	3912	1.00	1.21	
34 2,2-Dichloropropane	77	4.631	4.631	0.000	54	3709	1.00	1.15	
40 Chlorobromomethane	128	4.859	4.863	-0.004	57	1962	1.00	1.14	
42 Chloroform	83	4.932	4.938	-0.006	72	7763	1.00	0.7292	
44 1,1,1-Trichloroethane	97	5.123	5.126	-0.003	70	5162	1.00	1.17	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Cyclohexane	56	5.178	5.181	-0.003	76	5151	1.00	1.16	
47 1,1-Dichloropropene	75	5.285	5.285	0.000	55	4633	1.00	1.18	
46 Carbon tetrachloride	117	5.285	5.288	-0.003	67	5027	1.00	1.13	
48 Isobutyl alcohol	43	5.395	5.392	0.003	57	2758	25.0	28.9	
50 Benzene	78	5.494	5.500	-0.006	91	12995	1.00	1.16	
51 1,2-Dichloroethane	62	5.511	5.514	-0.003	56	3491	1.00	1.11	
54 n-Heptane	43	5.754	5.757	-0.003	37	4672	1.00	1.20	a
* 55 Fluorobenzene (IS)	96	5.777	5.778	-0.001	99	505538	50.0	50.0	
57 Trichloroethene	130	6.162	6.163	-0.001	57	4420	1.00	1.21	
59 Methylcyclohexane	83	6.368	6.371	-0.003	78	6242	1.00	1.23	
60 1,2-Dichloropropane	63	6.408	6.409	-0.001	61	3215	1.00	1.27	
* 62 1,4-Dioxane-d8	96	6.492	6.493	-0.001	0	17532	1000.0	1000.0	M
63 Dibromomethane	93	6.533	6.536	-0.003	41	1834	1.00	1.13	M
66 Dichlorobromomethane	83	6.704	6.707	-0.003	64	4581	1.00	1.25	
68 2-Chloroethyl vinyl ether	63	7.051	7.043	0.008	25	1347	1.00	1.11	M
69 cis-1,3-Dichloropropene	75	7.213	7.214	-0.001	51	4483	1.00	1.08	
72 Toluene	92	7.598	7.602	-0.004	80	7214	1.00	1.01	
73 trans-1,3-Dichloropropene	75	7.868	7.865	0.003	61	4045	1.00	1.11	
74 Ethyl methacrylate	69	7.975	7.975	0.000	50	3326	1.00	1.16	
75 1,1,2-Trichloroethane	97	8.082	8.088	-0.006	22	2352	1.00	1.14	M
76 Tetrachloroethene	166	8.261	8.259	0.002	75	4084	1.00	1.11	
77 1,3-Dichloropropane	76	8.296	8.291	0.005	47	3826	1.00	1.13	
79 Chlorodibromomethane	129	8.574	8.572	0.002	35	3385	1.00	1.10	a
81 Ethylene Dibromide	107	8.719	8.713	0.006	37	2712	1.00	1.24	a
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	381583	50.0	50.0	
84 Chlorobenzene	112	9.336	9.342	-0.006	62	9014	1.00	1.10	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	53	3574	1.00	1.07	
86 Ethylbenzene	91	9.486	9.486	0.000	87	14733	1.00	1.10	
87 m-Xylene & p-Xylene	91	9.637	9.640	-0.003	75	11202	1.00	1.08	
88 o-Xylene	91	10.117	10.118	-0.001	84	11857	1.00	1.09	
89 Styrene	104	10.135	10.135	0.000	87	9457	1.00	1.02	
90 Bromoform	173	10.343	10.341	0.002	66	1801	1.00	0.9209	
91 Isopropylbenzene	105	10.534	10.535	-0.001	82	15035	1.00	1.19	
95 Bromobenzene	156	10.850	10.850	0.000	88	4115	1.00	1.21	
96 1,1,2,2-Tetrachloroethane	83	10.853	10.856	-0.003	56	3062	1.00	1.18	
97 1,2,3-Trichloropropane	110	10.899	10.896	0.003	30	1030	1.00	0.6549	
98 trans-1,4-Dichloro-2-butene	53	10.916	10.917	-0.001	17	762	1.00	0.6074	
99 N-Propylbenzene	91	10.966	10.966	0.000	93	18117	1.00	1.27	
100 2-Chlorotoluene	91	11.050	11.050	0.000	87	9912	1.00	1.27	
101 1,3,5-Trimethylbenzene	105	11.145	11.145	0.000	89	12528	1.00	1.15	
102 4-Chlorotoluene	91	11.157	11.157	0.000	87	11913	1.00	1.24	
104 tert-Butylbenzene	119	11.458	11.458	0.000	79	11974	1.00	1.16	
106 1,2,4-Trimethylbenzene	105	11.504	11.505	0.000	81	13110	1.00	1.19	
107 sec-Butylbenzene	105	11.663	11.664	-0.001	70	17829	1.00	1.20	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	83	8859	1.00	1.26	
109 4-Isopropyltoluene	119	11.800	11.797	0.003	90	14686	1.00	1.09	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	92	225115	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	60	8427	1.00	1.15	a
115 n-Butylbenzene	91	12.159	12.159	0.000	86	14103	1.00	1.23	
114 1,2-Dichlorobenzene	146	12.173	12.170	0.003	86	7963	1.00	1.16	
116 1,2-Dibromo-3-Chloropropane	75	12.819	12.819	0.000	1	490	1.00	0.8608	a
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	68	5338	1.00	1.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Hexachlorobutadiene	225	13.586	13.583	0.003	54	2764	1.00	1.15	
120 Naphthalene	128	13.650	13.650	0.000	92	11360	1.00	0.7886	
121 1,2,3-Trichlorobenzene	180	13.829	13.829	0.000	67	5057	1.00	0.8182	
S 124 Xylenes, Total	1				0			2.16	
S 125 Trihalomethanes, Total	1				0			4.00	
S 126 1,2-Dichloroethene, Total	1				0			2.33	
S 127 Trimethylbenzene, Total	1				0			2.34	
S 128 1,3-Dichloropropene, Total	1				0			2.19	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWIS1_00164	Amount Added: 5.00	Units: uL
LOW8260ACR_00316	Amount Added: 1.00	Units: uL
LO8260/624STD_00531	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D

Injection Date: 14-May-2022 10:21:24

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD03

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

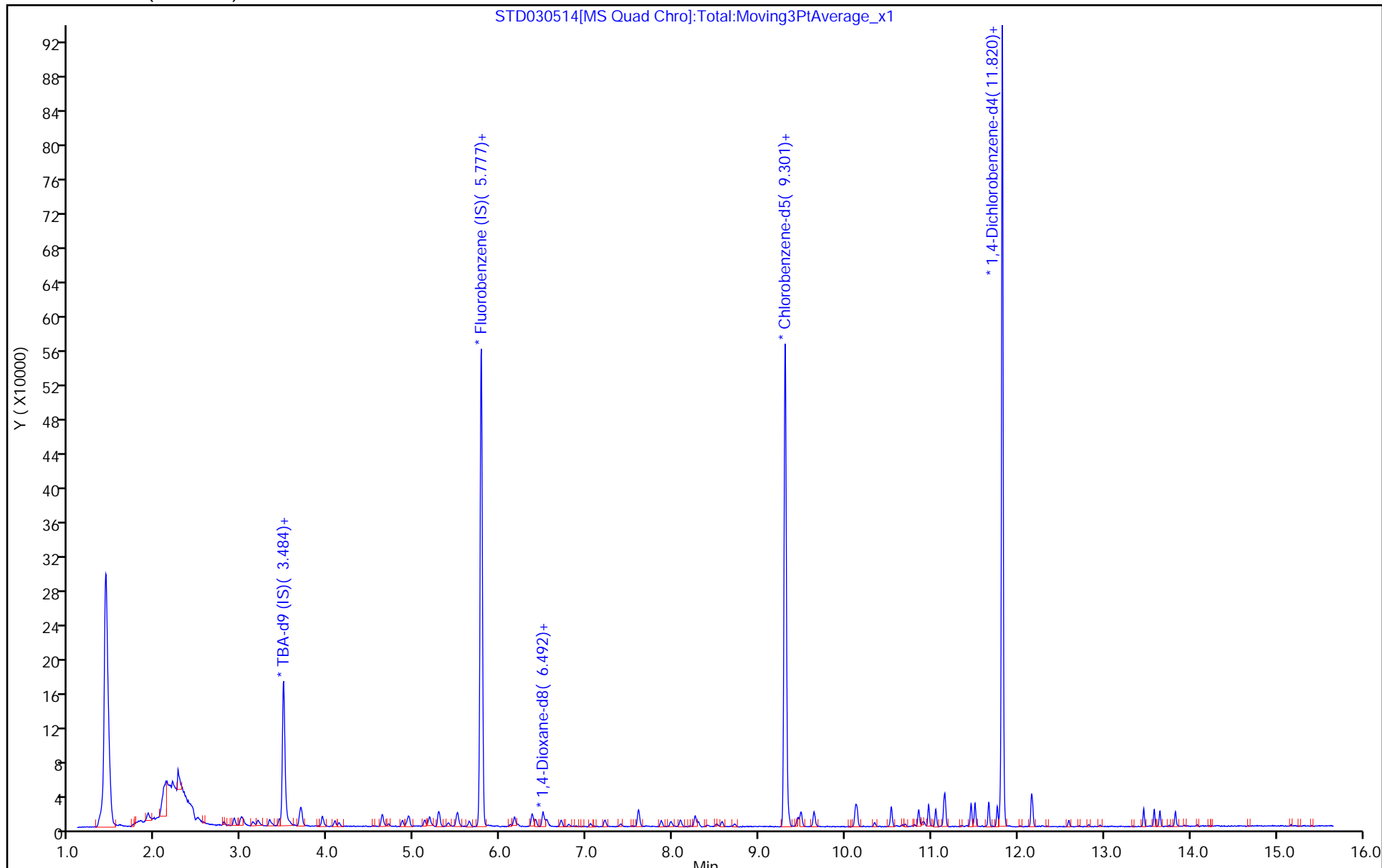
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

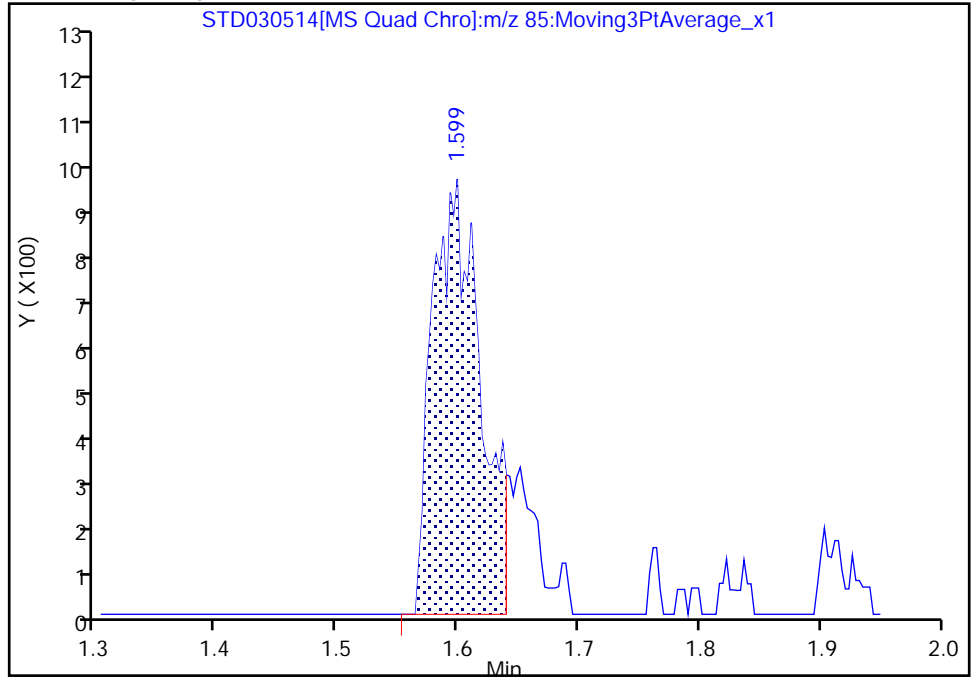
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Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

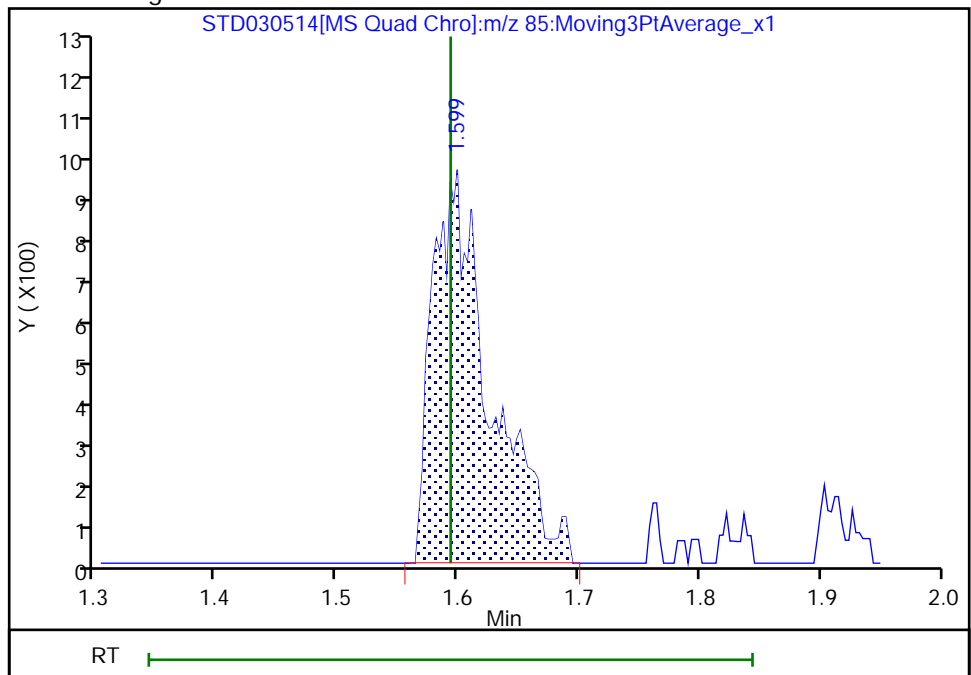
RT: 1.60
Area: 2529
Amount: 1.041861
Amount Units: ug/l

Processing Integration Results



RT: 1.60
Area: 3032
Amount: 1.163520
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:28:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

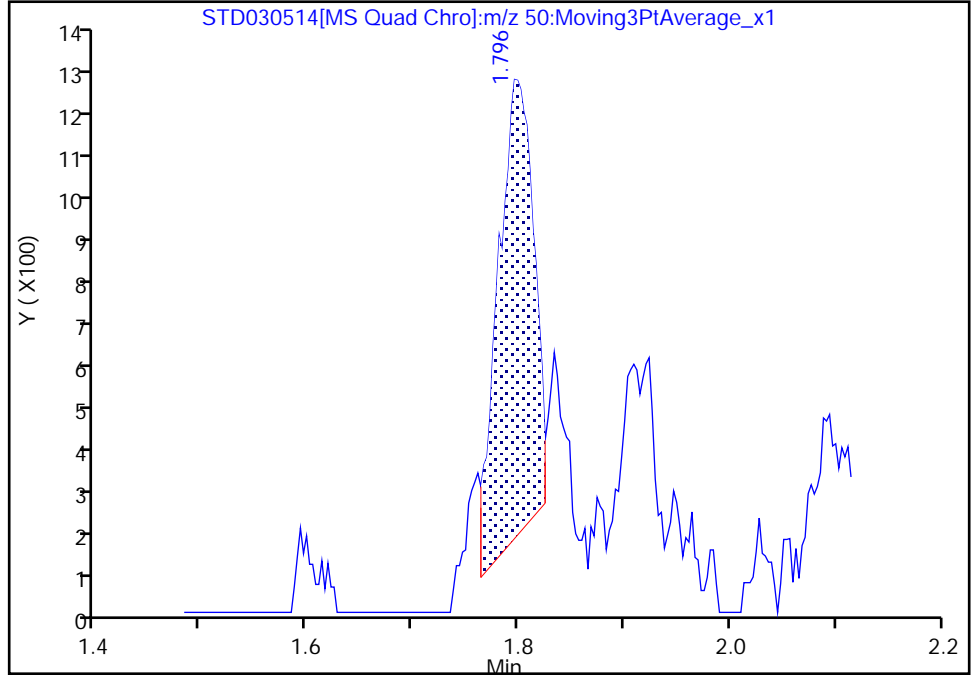
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Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

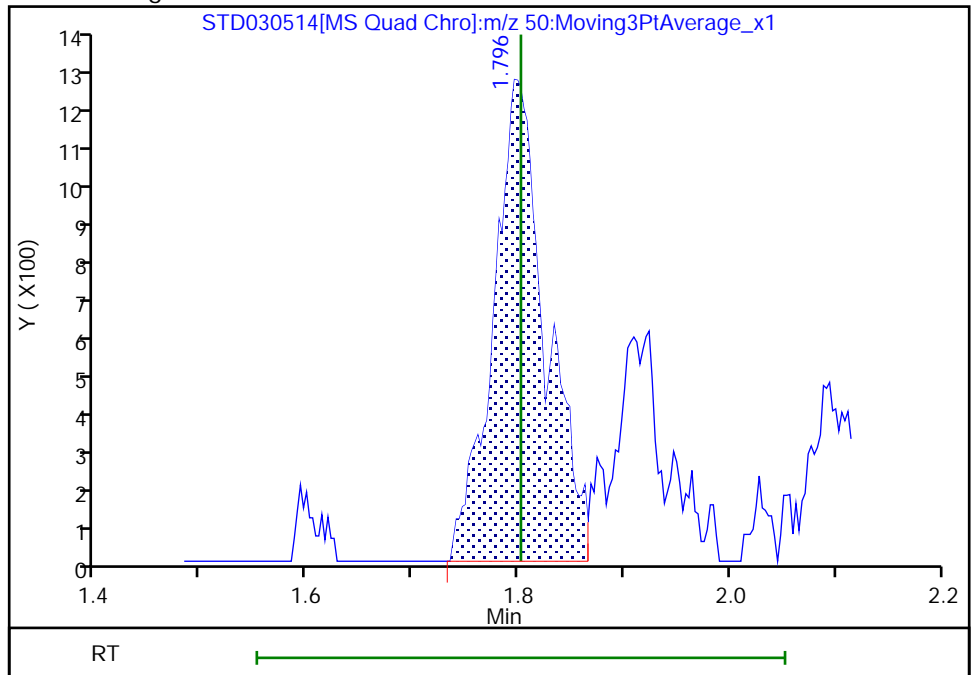
RT: 1.80
Area: 2460
Amount: 1.498166
Amount Units: ug/l

Processing Integration Results



RT: 1.80
Area: 4217
Amount: 0.993726
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:04:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

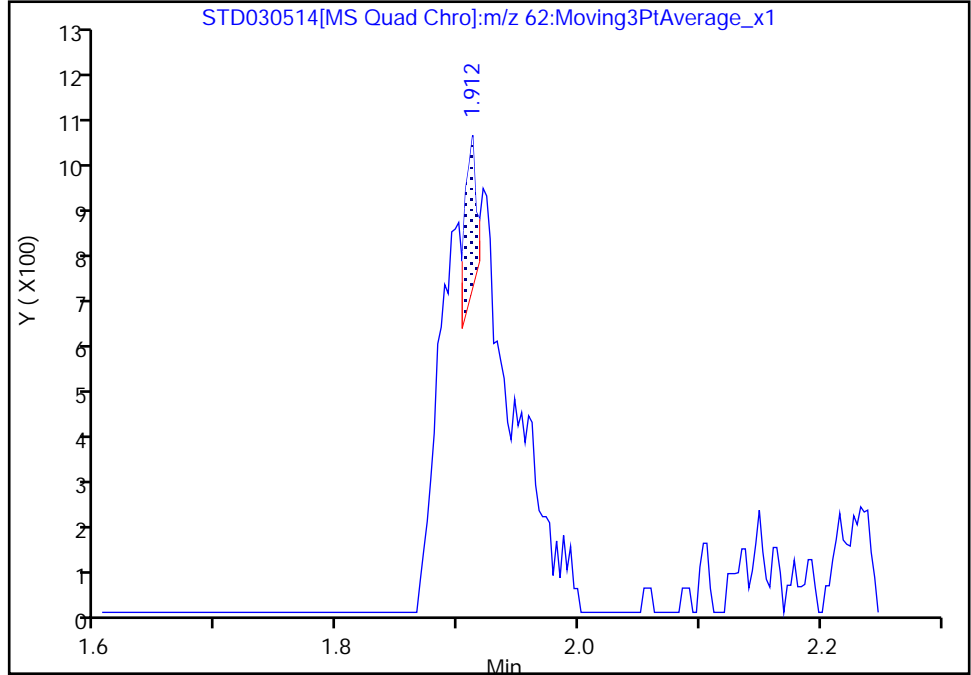
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Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

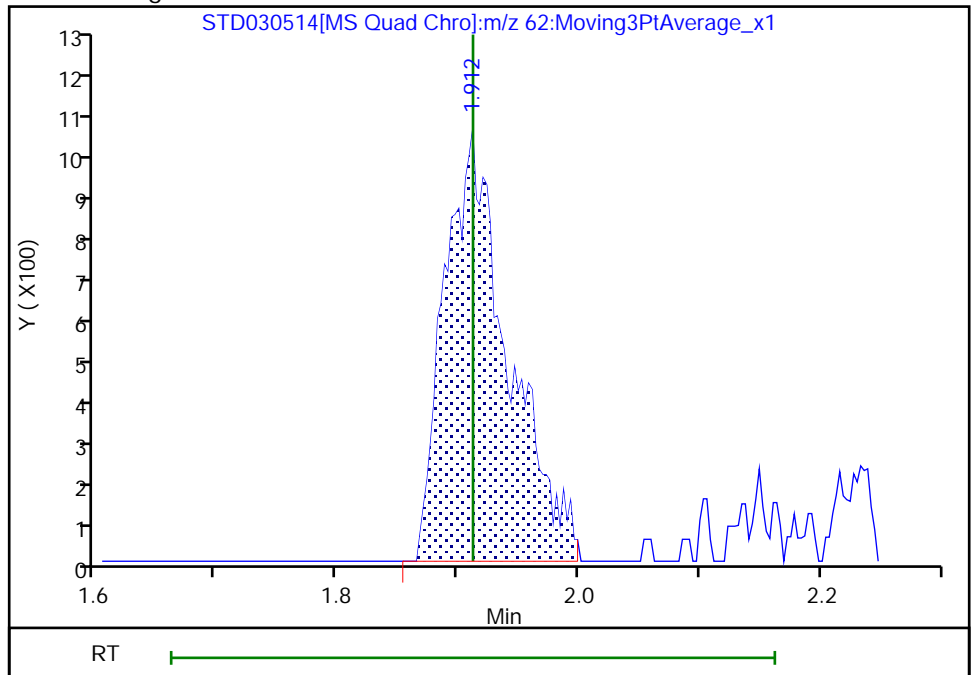
RT: 1.91
Area: 219
Amount: 0.121853
Amount Units: ug/l

Processing Integration Results



RT: 1.91
Area: 3717
Amount: 1.070206
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 14-May-2022 12:23:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

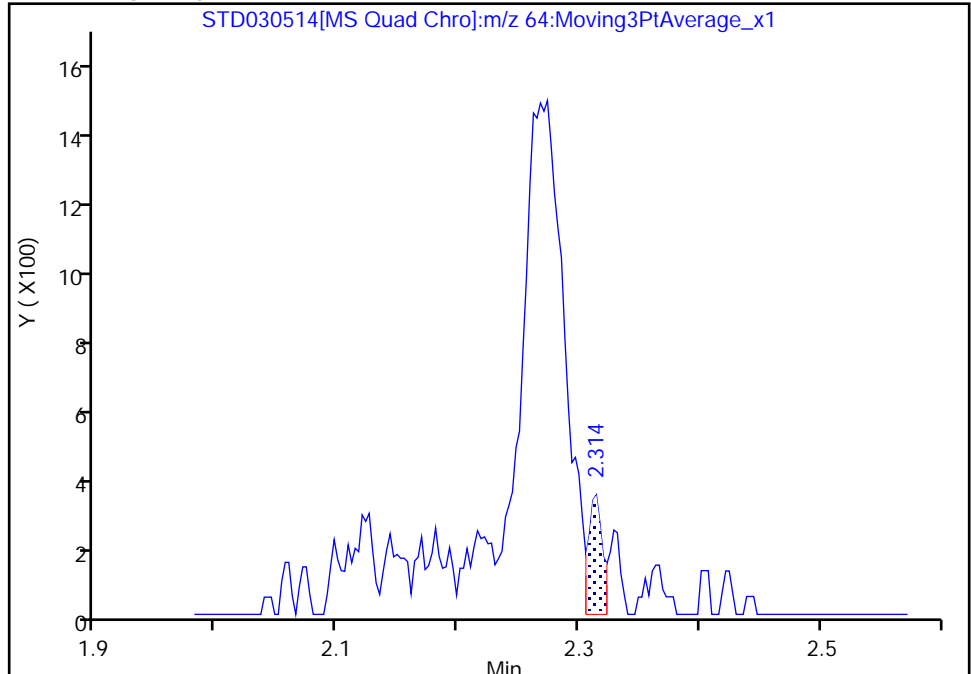
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Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

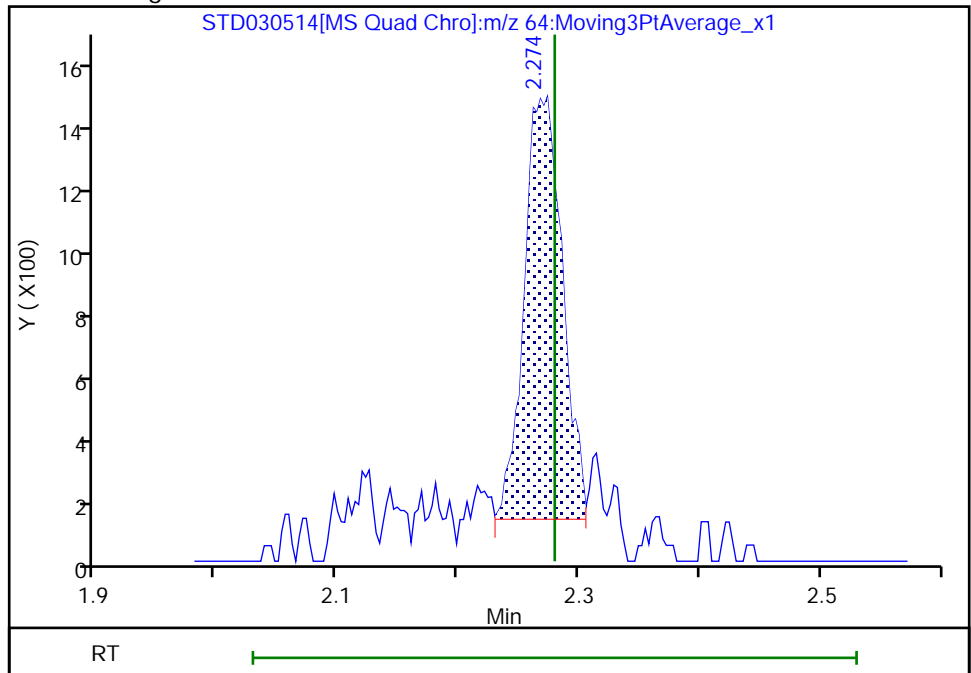
RT: 2.31
Area: 290
Amount: 0.167650
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 2964
Amount: 1.187329
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:28:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

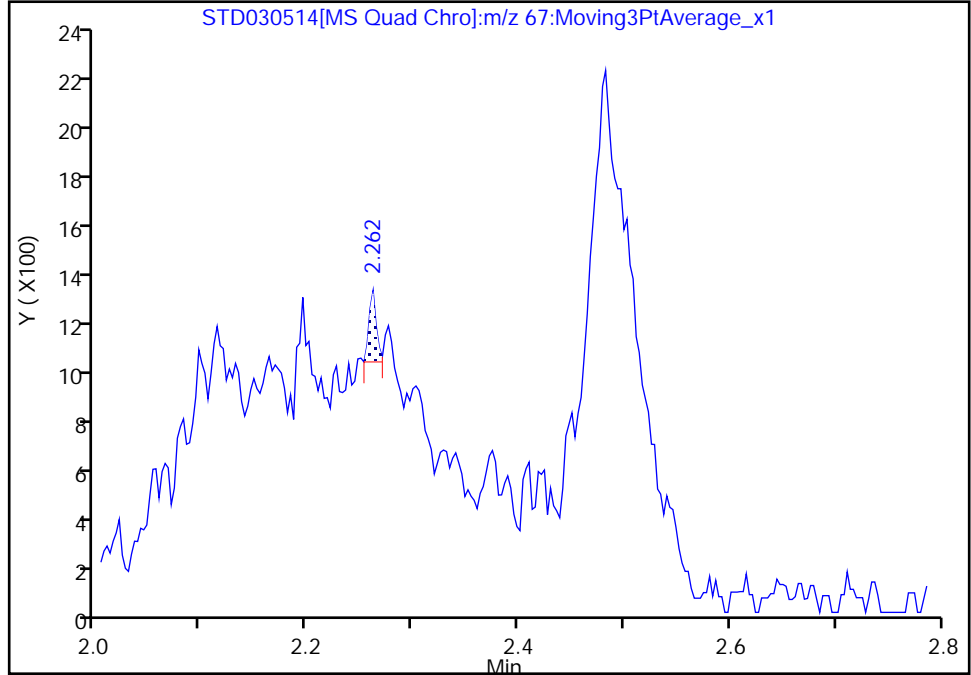
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

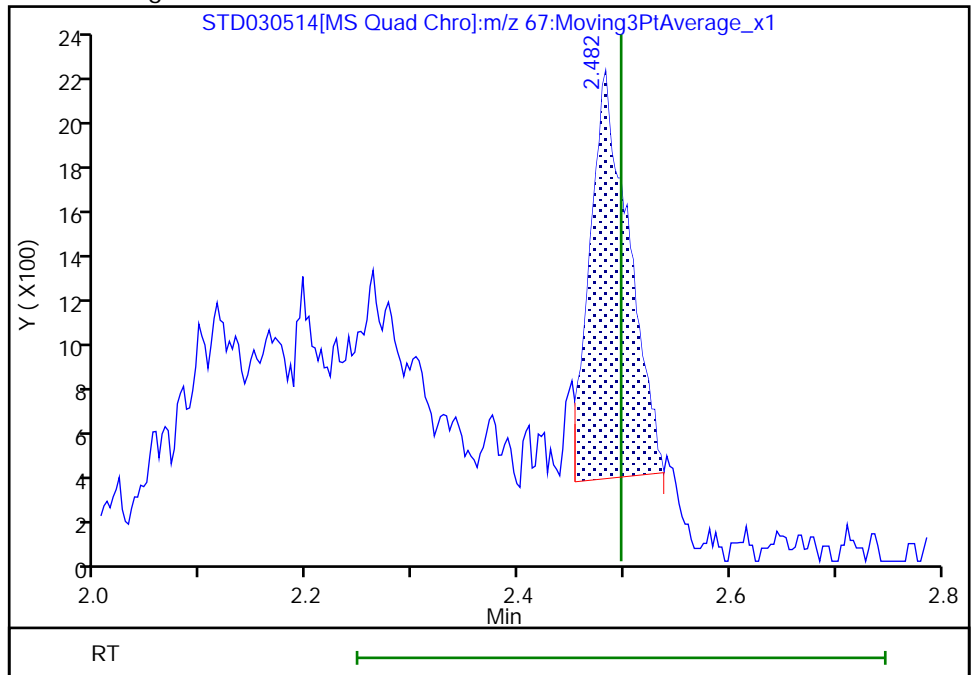
RT: 2.26
Area: 135
Amount: 0.052687
Amount Units: ug/l

Processing Integration Results



RT: 2.48
Area: 4539
Amount: 0.956751
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:04:29
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

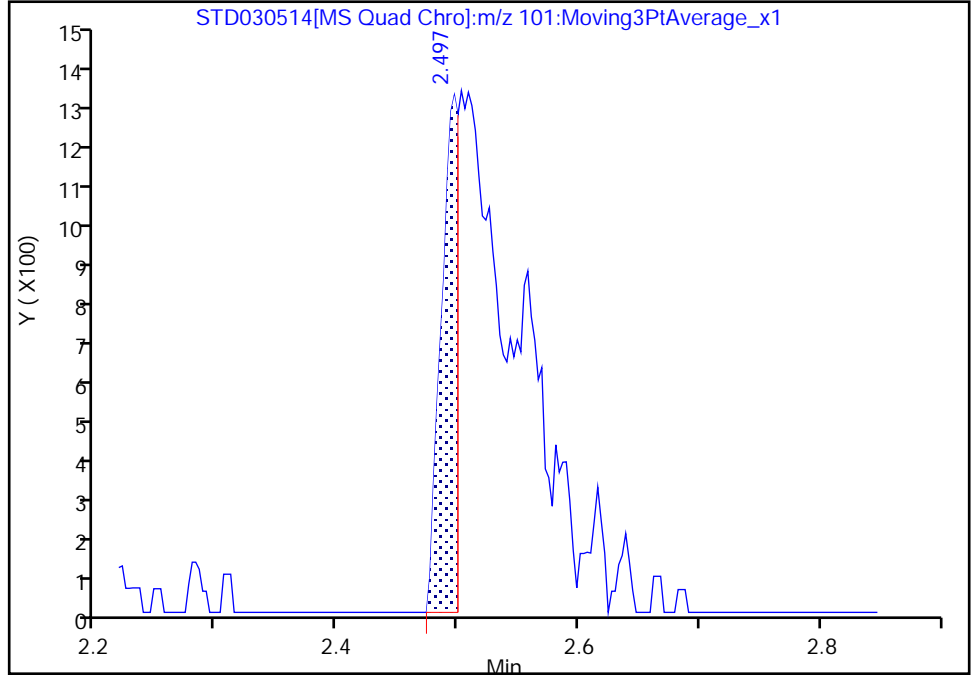
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

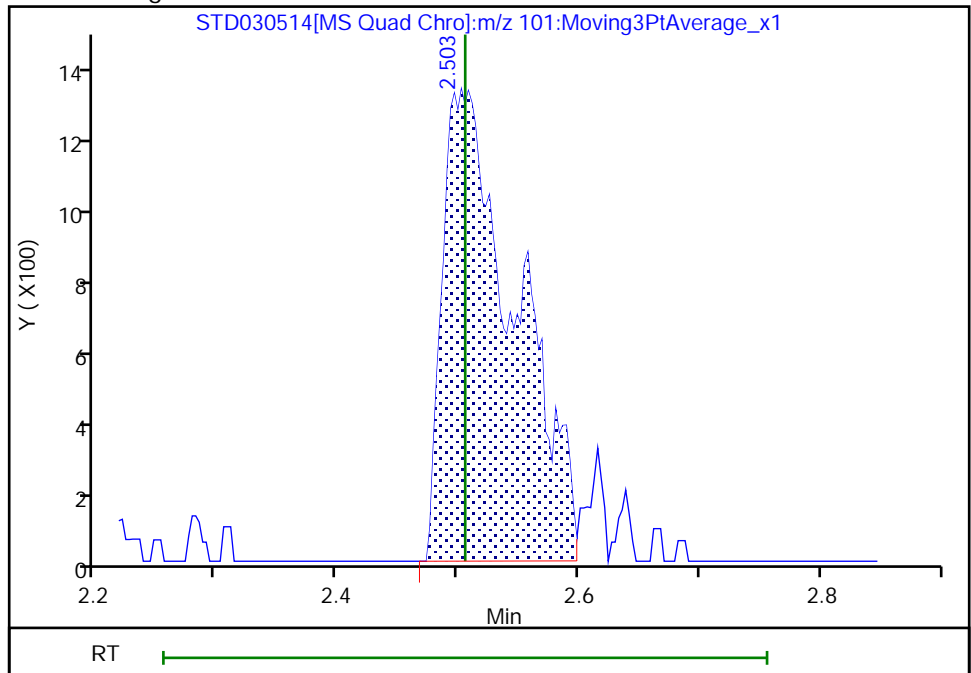
RT: 2.50
Area: 1230
Amount: 0.495148
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 5249
Amount: 1.117759
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:04:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

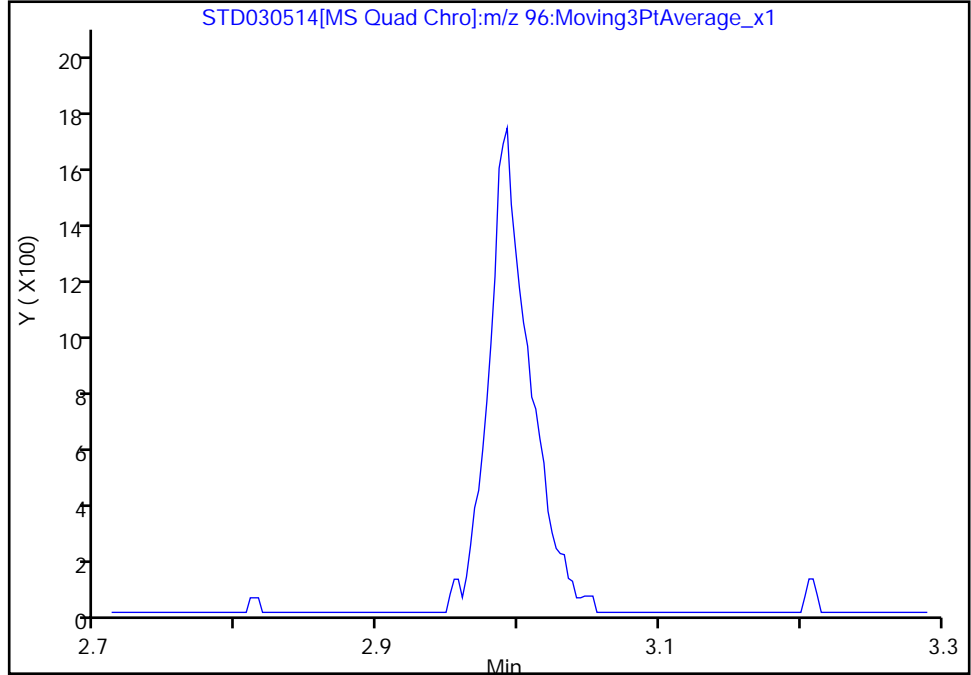
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

13 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

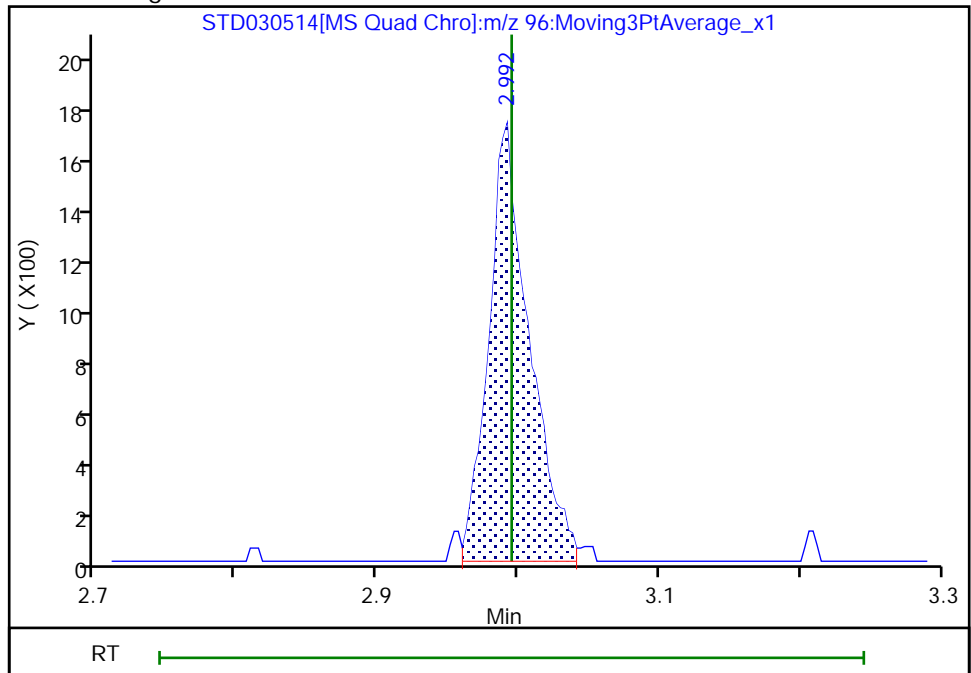
Not Detected
Expected RT: 3.00

Processing Integration Results



RT: 2.99
Area: 3379
Amount: 1.185248
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

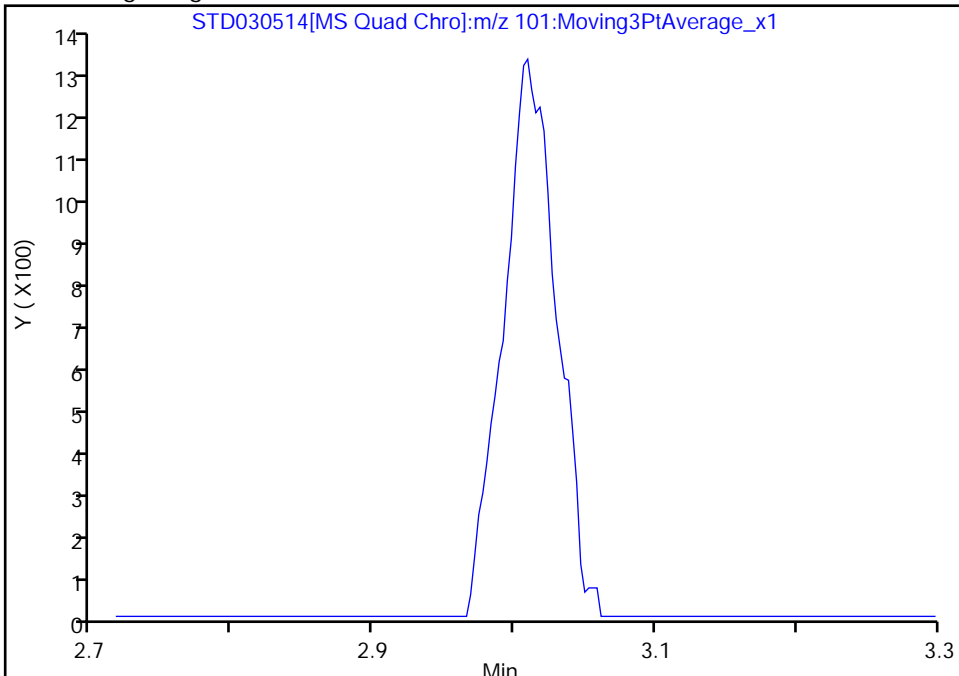
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

14 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

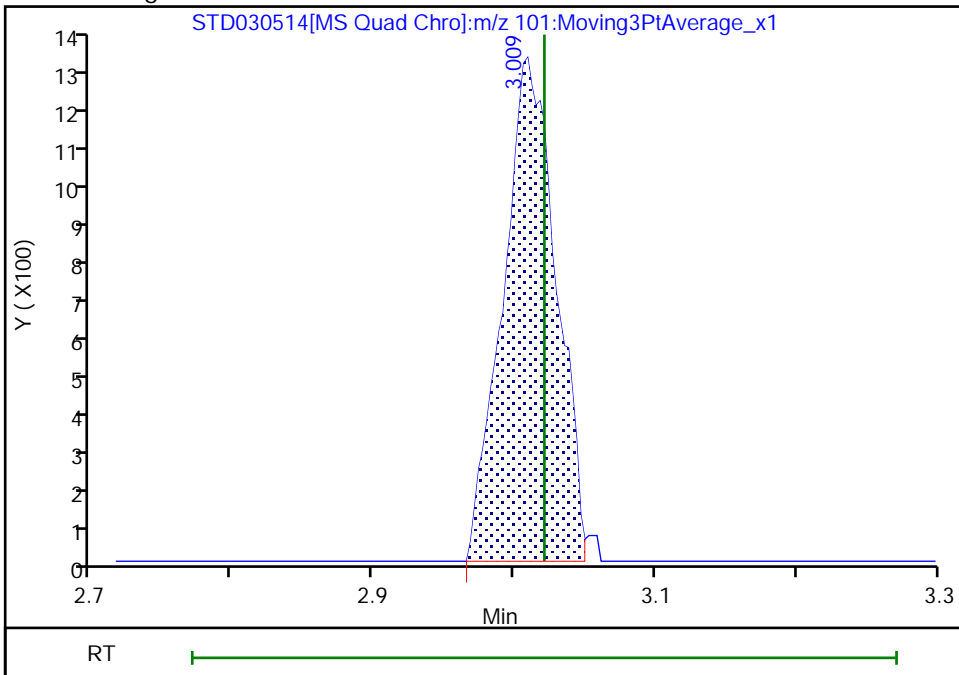
Not Detected
Expected RT: 3.02

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 3438
Amount: 1.123779
Amount Units: ug/l



Eurofins Chicago

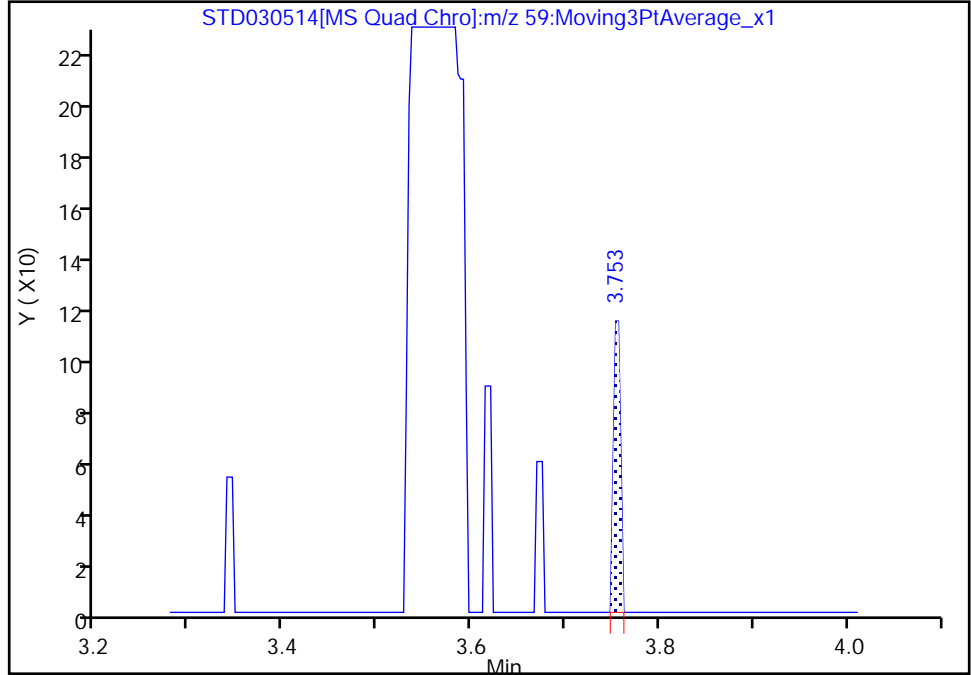
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

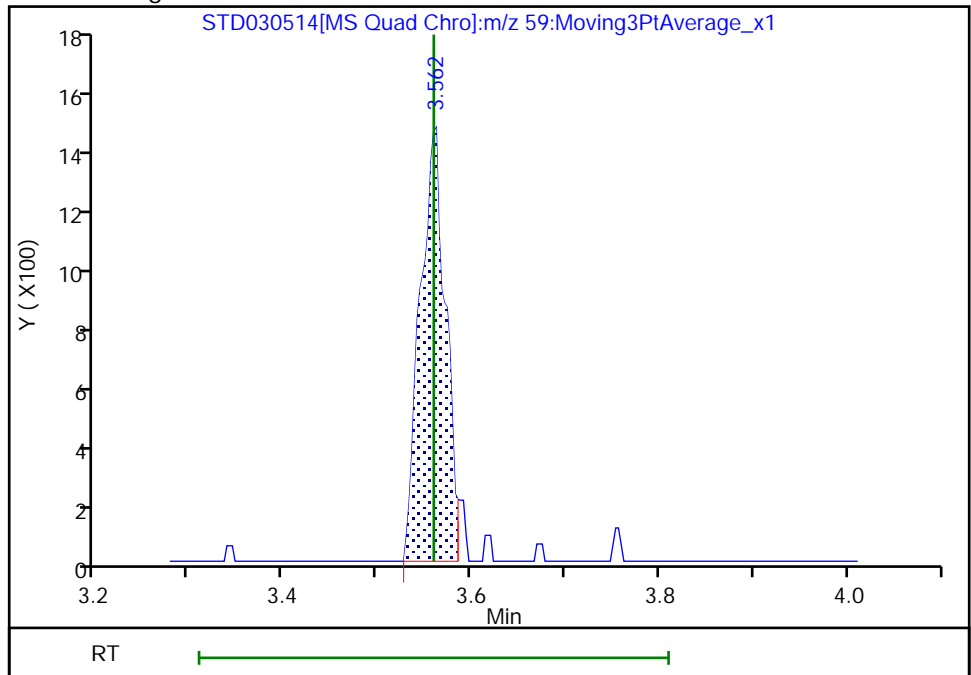
RT: 3.75
Area: 59
Amount: 1.116696
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 2718
Amount: 11.068766
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

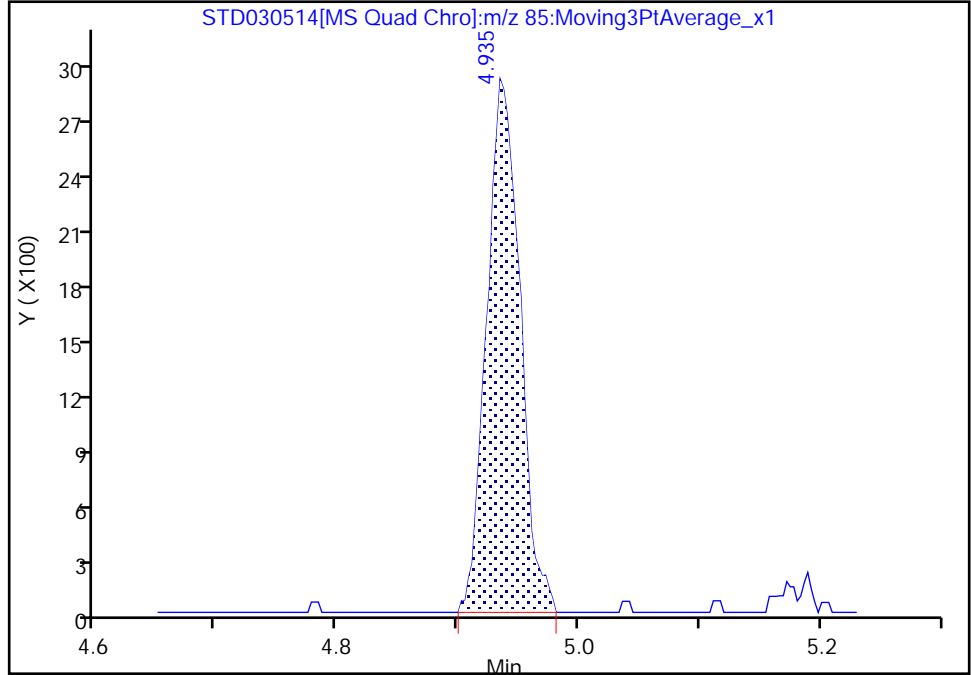
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 2

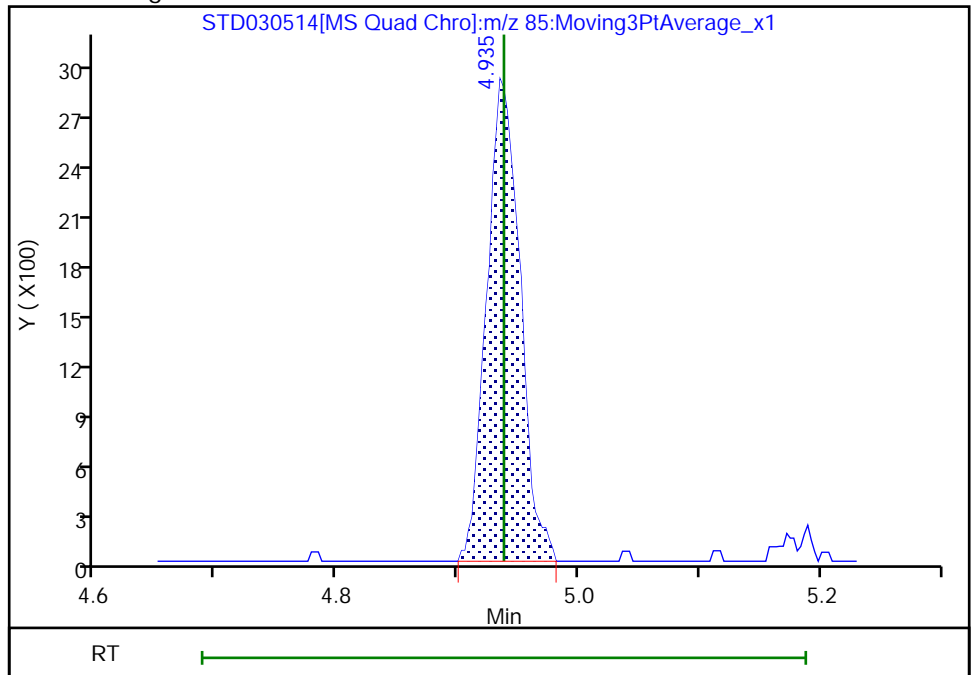
RT: 4.93
Area: 5522
Amount: 0.729159
Amount Units: ug/l

Processing Integration Results



RT: 4.93
Area: 5522
Amount: 0.729159
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 17-May-2022 08:02:50
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

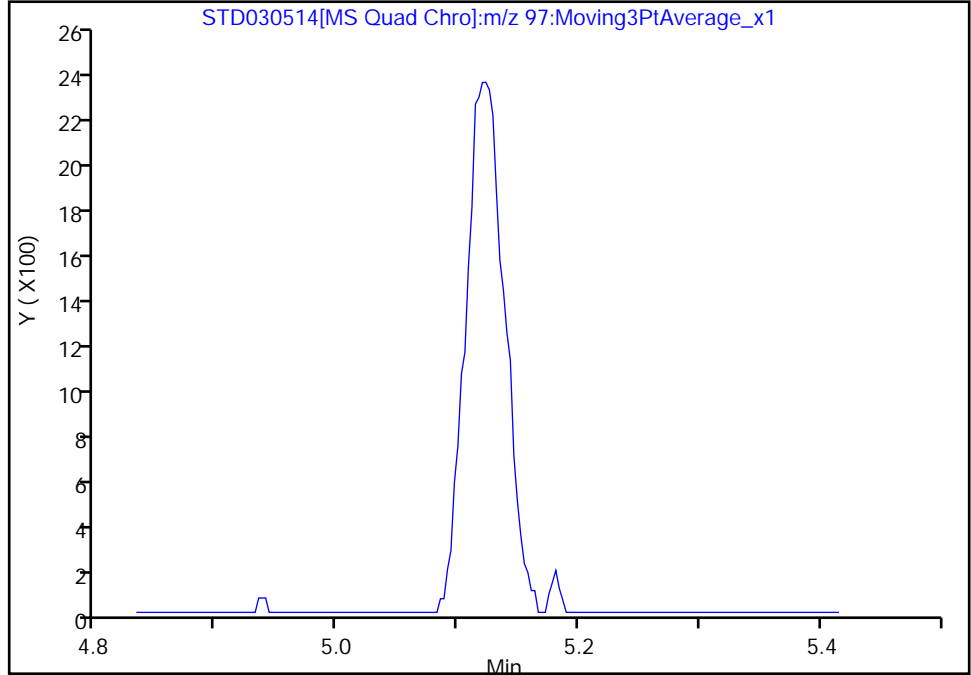
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

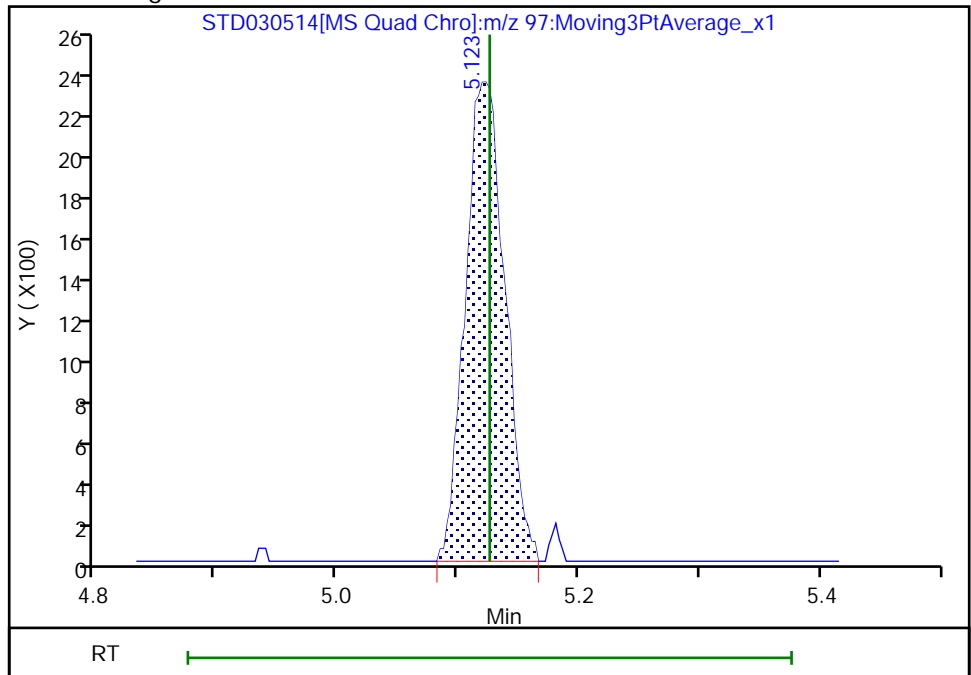
Not Detected
Expected RT: 5.13

Processing Integration Results



RT: 5.12
Area: 5162
Amount: 1.171334
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

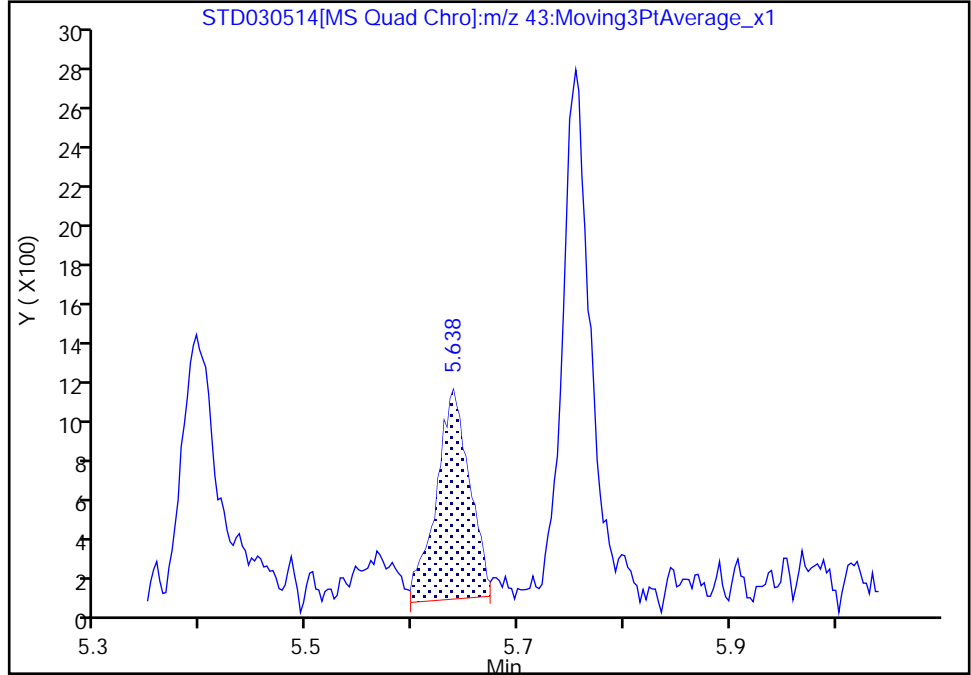
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

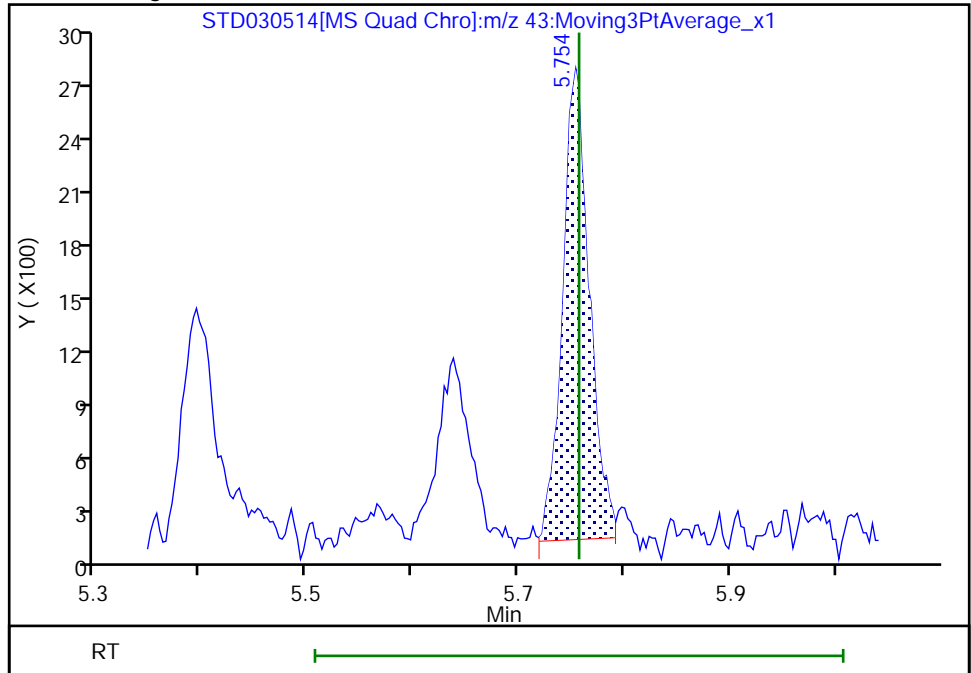
RT: 5.64
Area: 2345
Amount: 0.771584
Amount Units: ug/l

Processing Integration Results



RT: 5.75
Area: 4672
Amount: 1.196928
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:05:31
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

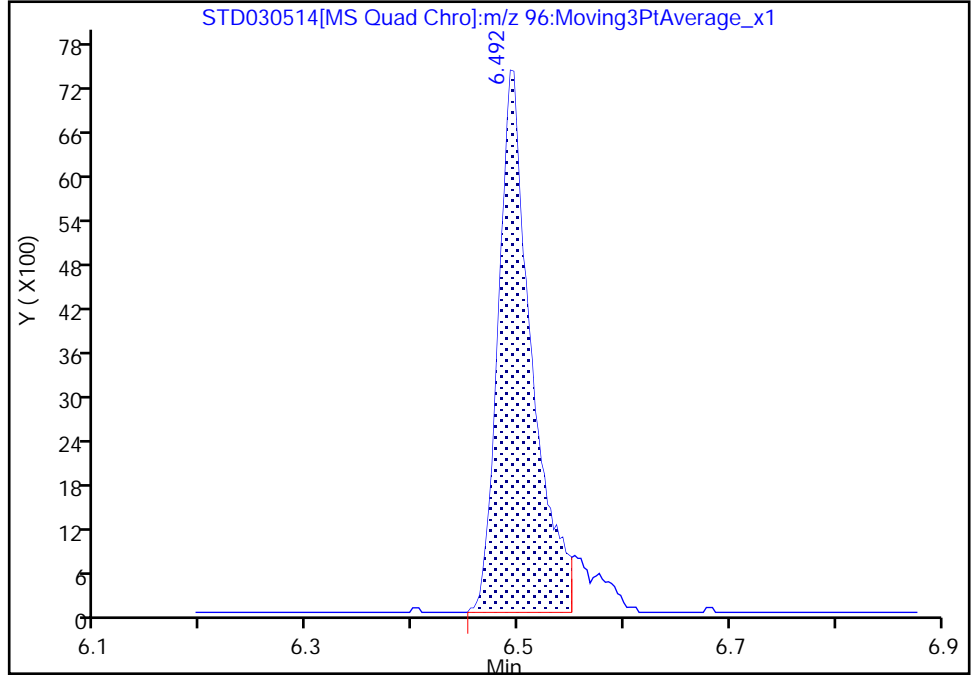
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

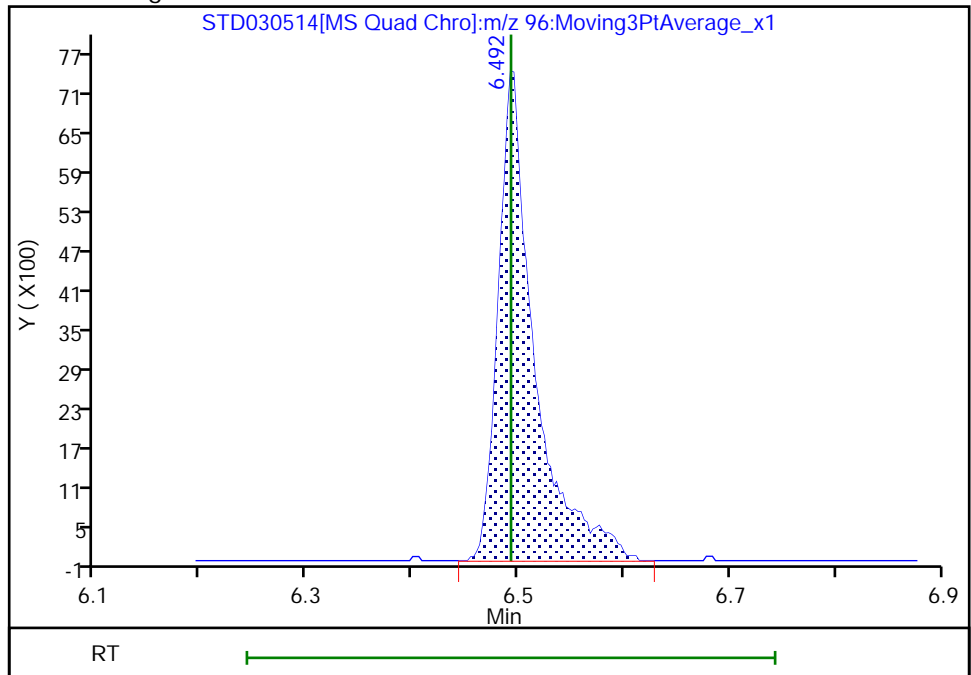
RT: 6.49
Area: 15997
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 17532
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:28:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

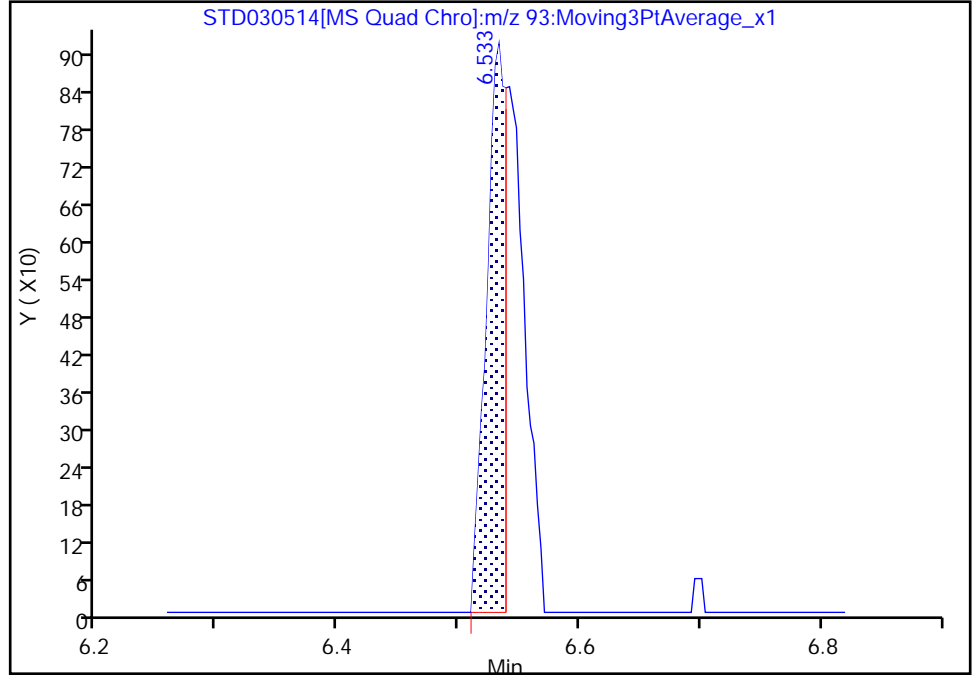
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

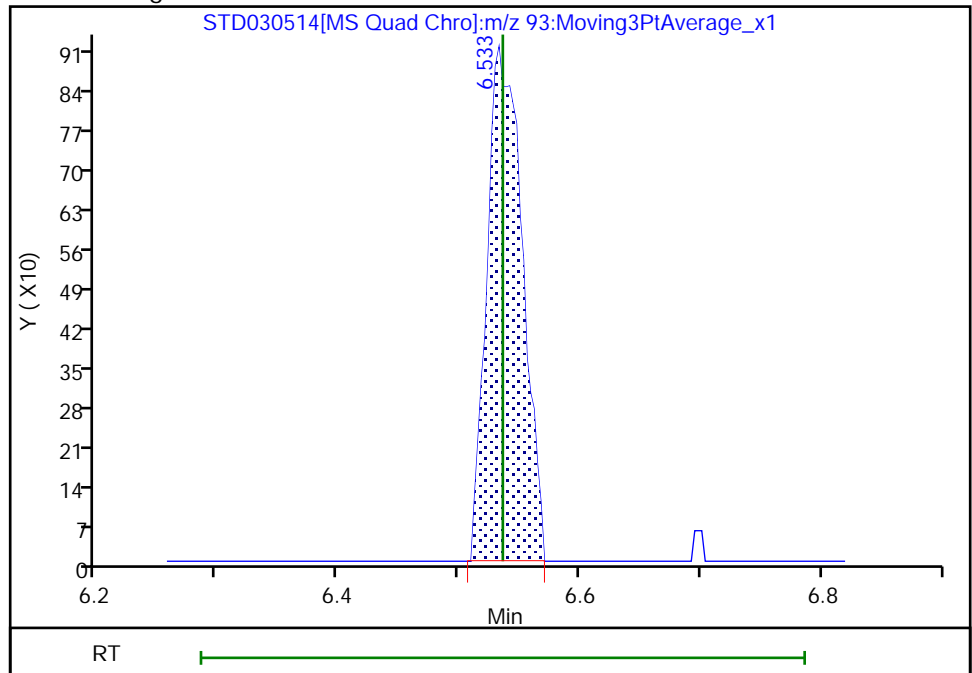
RT: 6.53
Area: 1010
Amount: 0.677910
Amount Units: ug/l

Processing Integration Results



RT: 6.53
Area: 1834
Amount: 1.130735
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:05:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

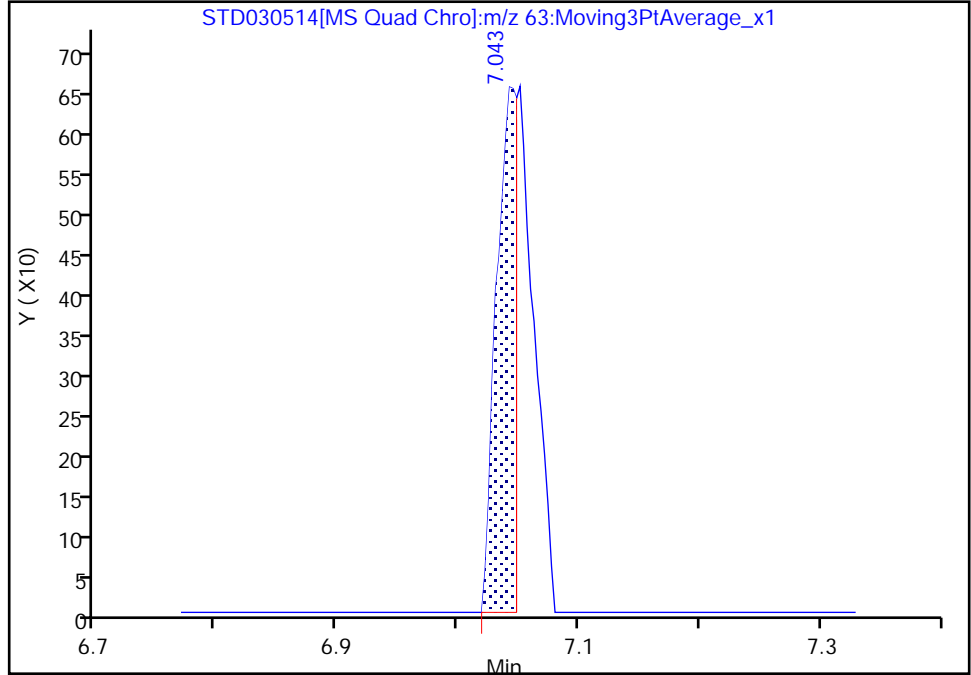
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

68 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

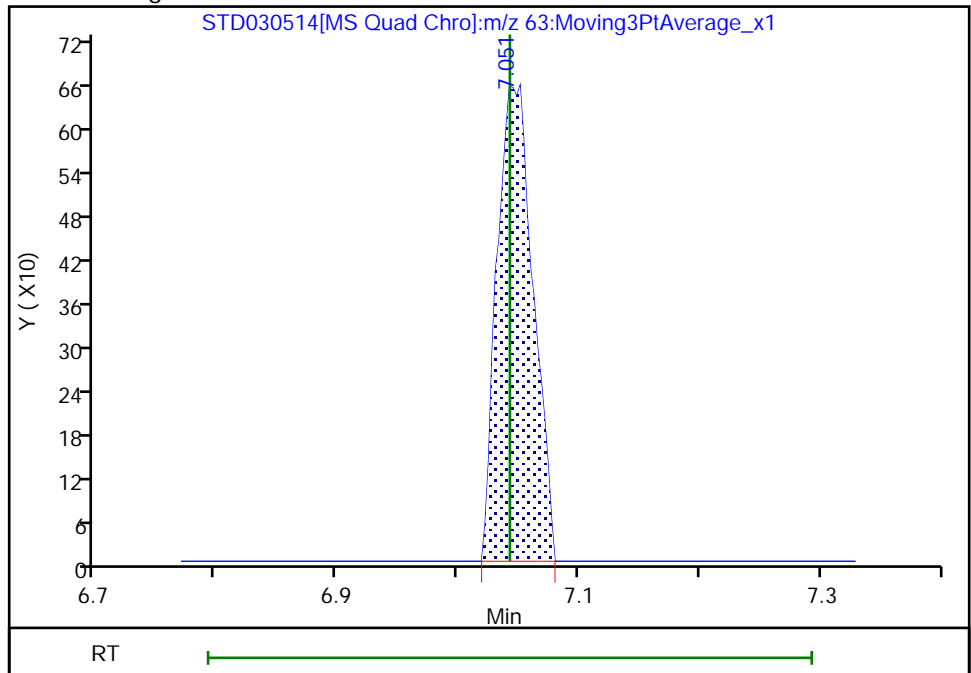
RT: 7.04
Area: 757
Amount: 0.332502
Amount Units: ug/l

Processing Integration Results



RT: 7.05
Area: 1347
Amount: 1.111306
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:05:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

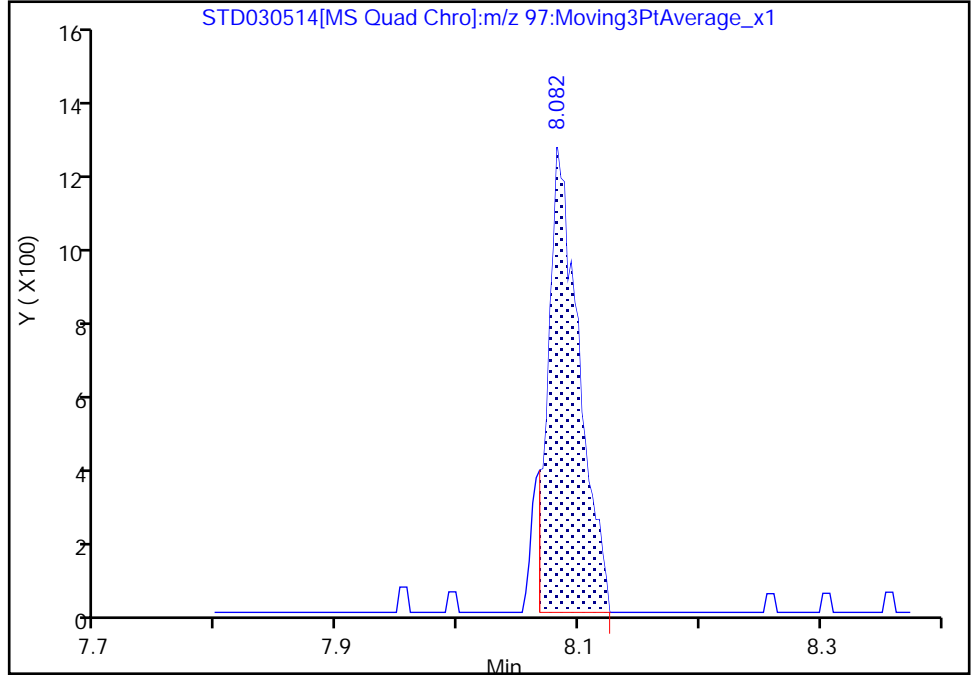
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

75 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

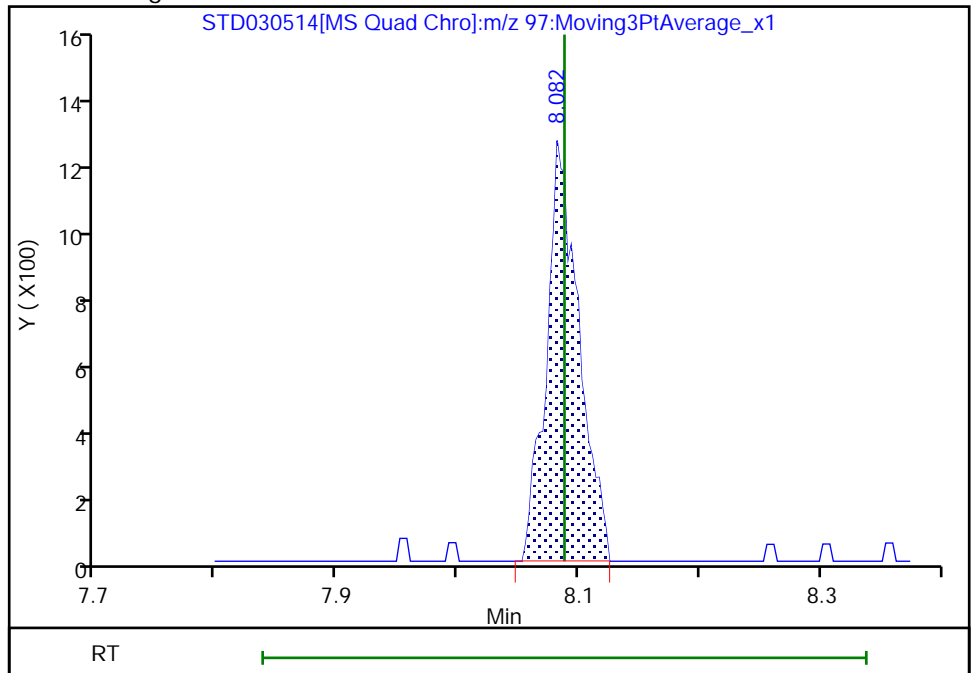
RT: 8.08
Area: 2208
Amount: 1.079532
Amount Units: ug/l

Processing Integration Results



RT: 8.08
Area: 2352
Amount: 1.139905
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:30:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

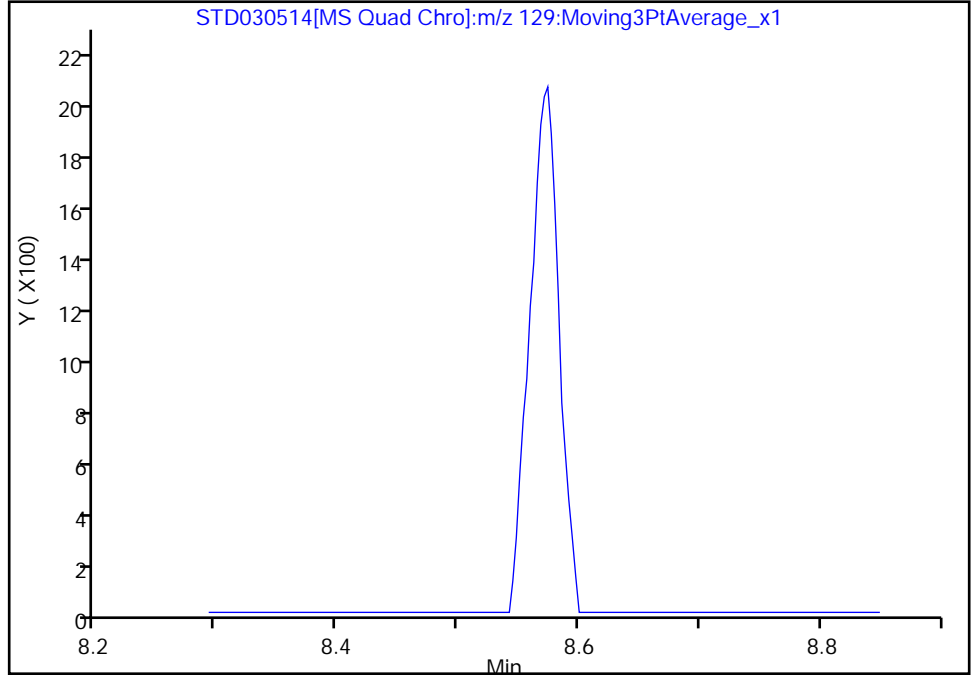
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

79 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

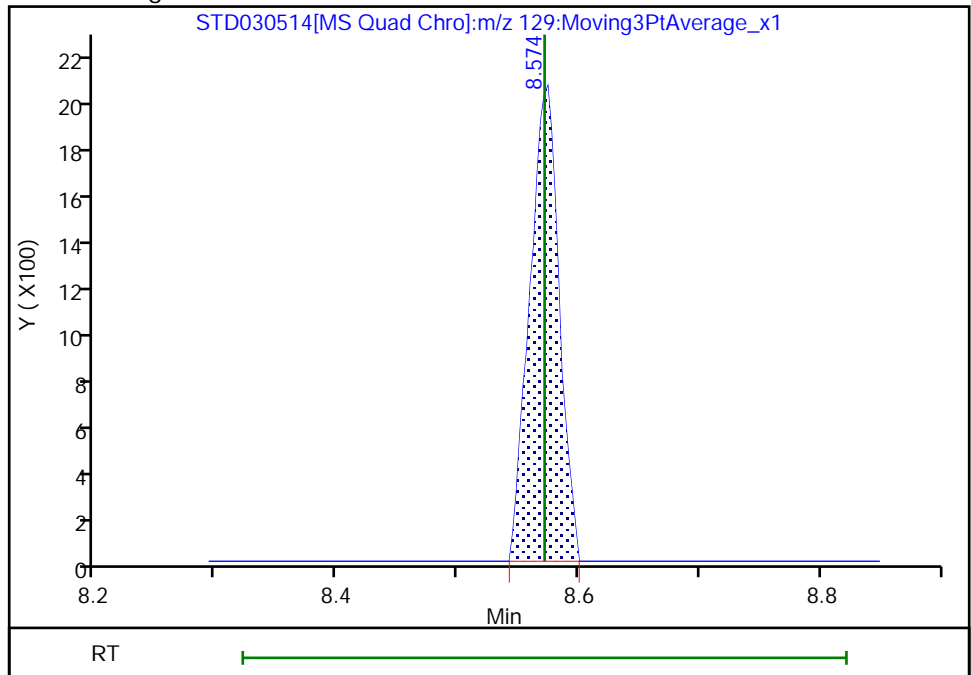
Not Detected
Expected RT: 8.57

Processing Integration Results



RT: 8.57
Area: 3385
Amount: 1.099814
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:06:16
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

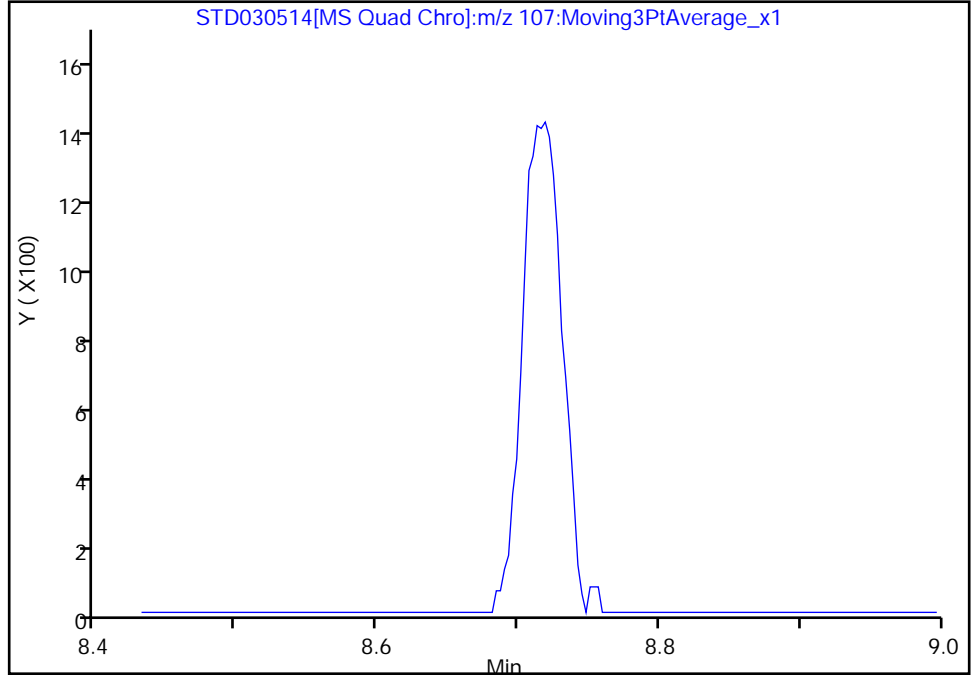
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

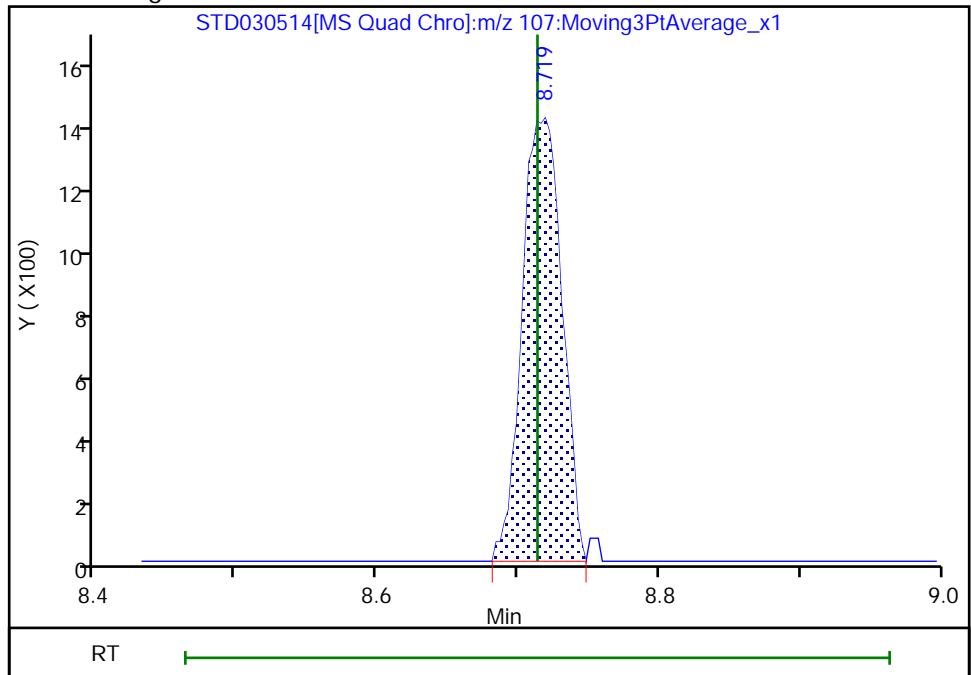
Not Detected
Expected RT: 8.71

Processing Integration Results



Manual Integration Results

RT: 8.72
Area: 2712
Amount: 1.235171
Amount Units: ug/l



Eurofins Chicago

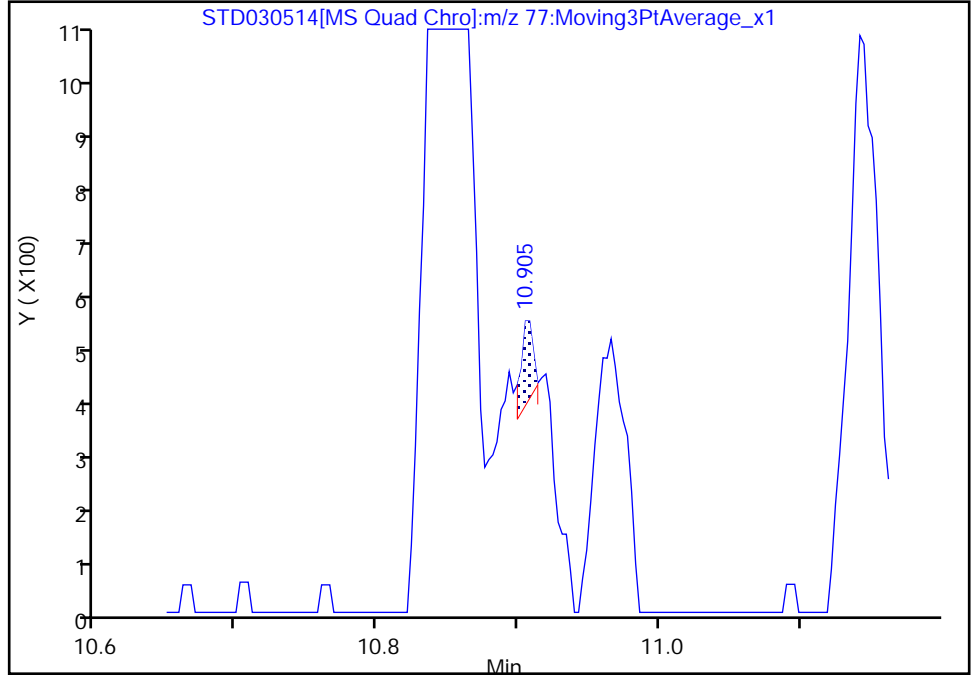
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

97 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 2

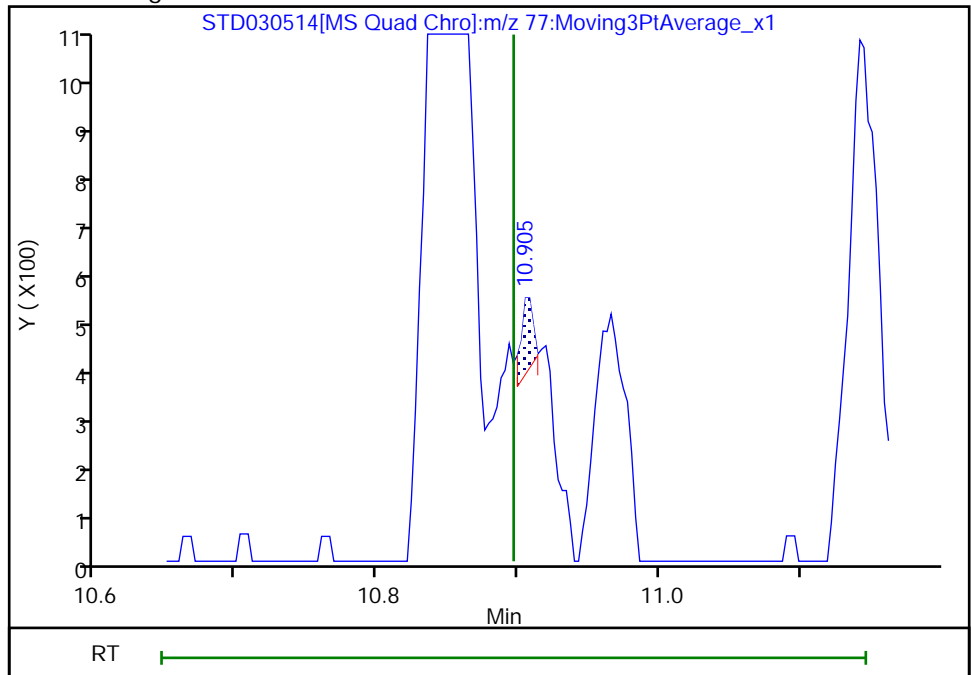
RT: 10.90
Area: 90
Amount: 0.654856
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 90
Amount: 0.654856
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

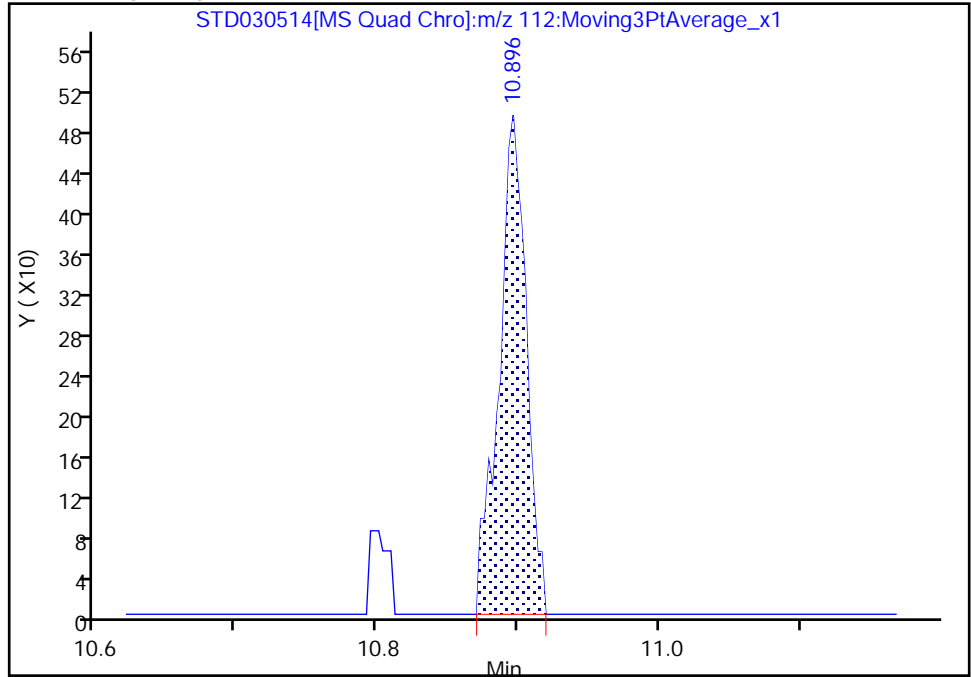
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

97 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 3

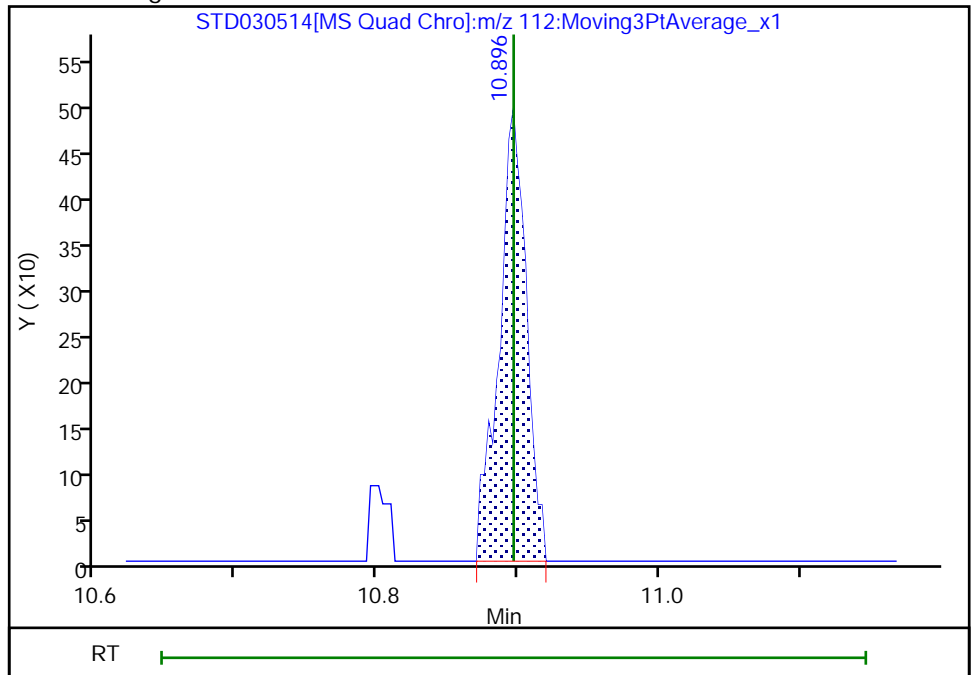
RT: 10.90
Area: 663
Amount: 0.654856
Amount Units: ug/l

Processing Integration Results



RT: 10.90
Area: 663
Amount: 0.654856
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

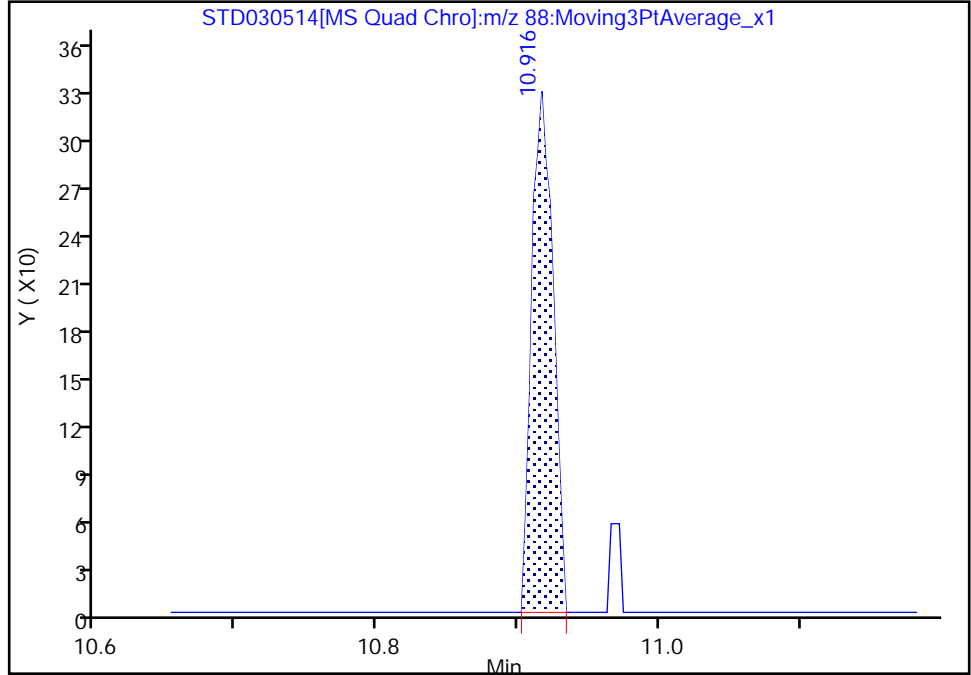
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 2

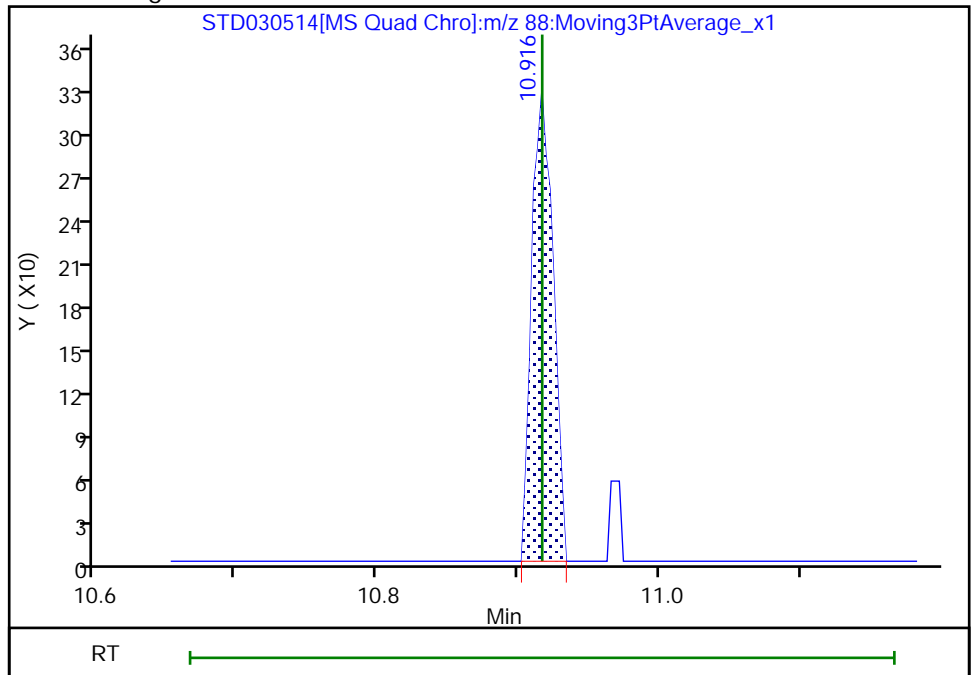
RT: 10.92
Area: 345
Amount: 0.607447
Amount Units: ug/l

Processing Integration Results



RT: 10.92
Area: 345
Amount: 0.607447
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

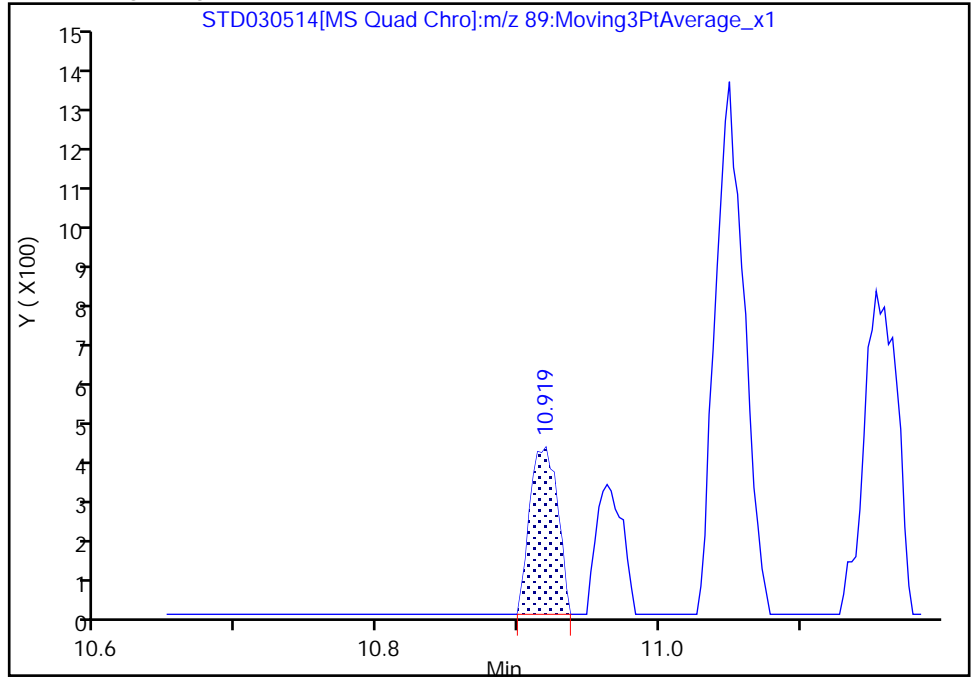
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 3

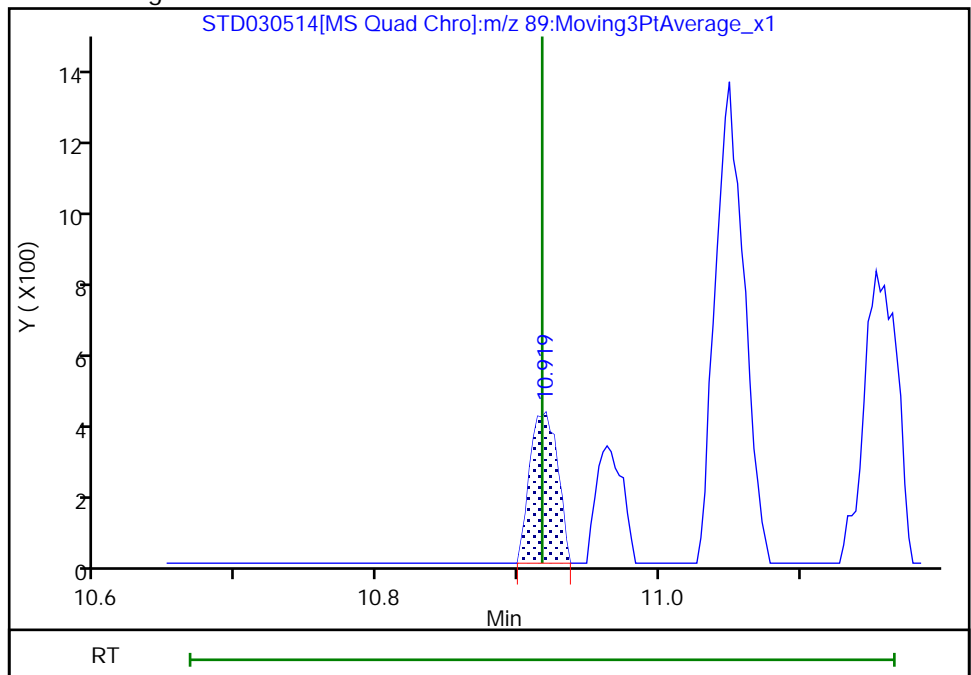
RT: 10.92
Area: 567
Amount: 0.607447
Amount Units: ug/l

Processing Integration Results



RT: 10.92
Area: 567
Amount: 0.607447
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

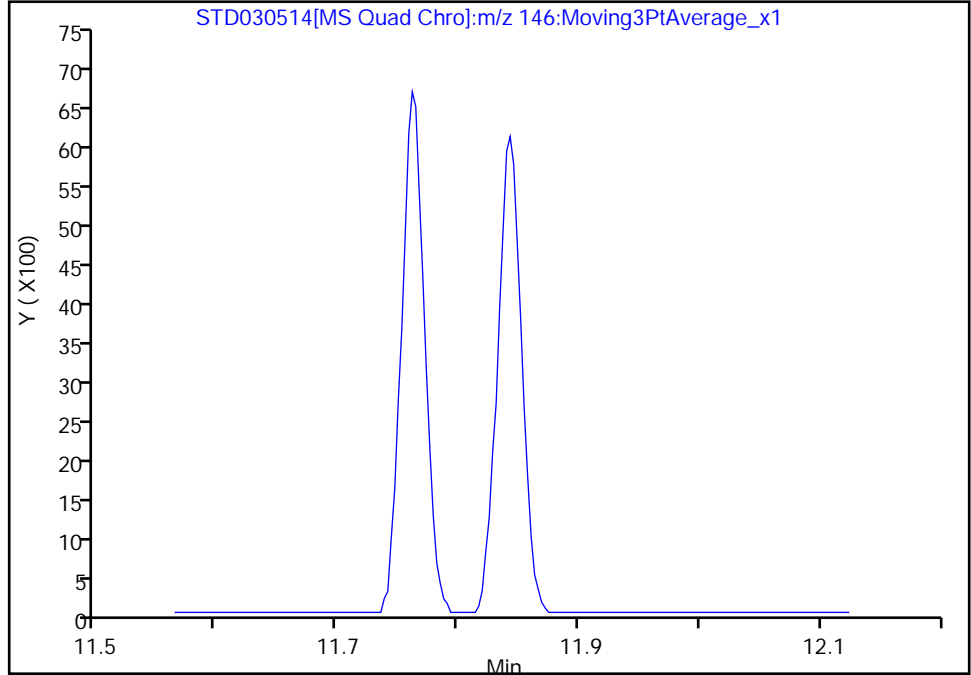
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

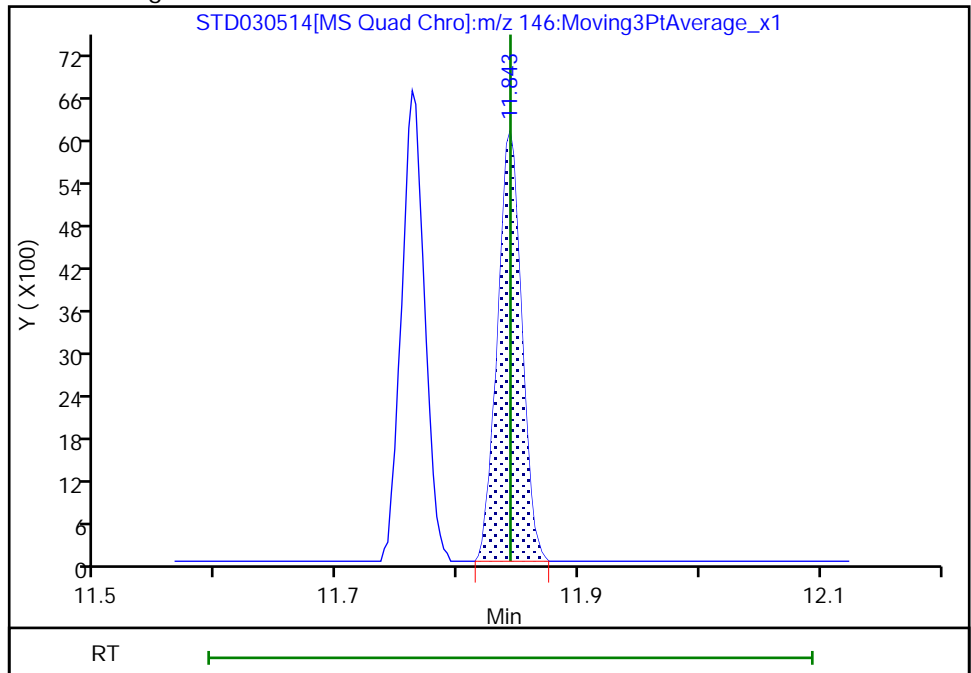
Signal: 1

Not Detected
Expected RT: 11.84

Processing Integration Results



Manual Integration Results



RT: 11.84
Area: 8427
Amount: 1.149557
Amount Units: ug/l

Eurofins Chicago

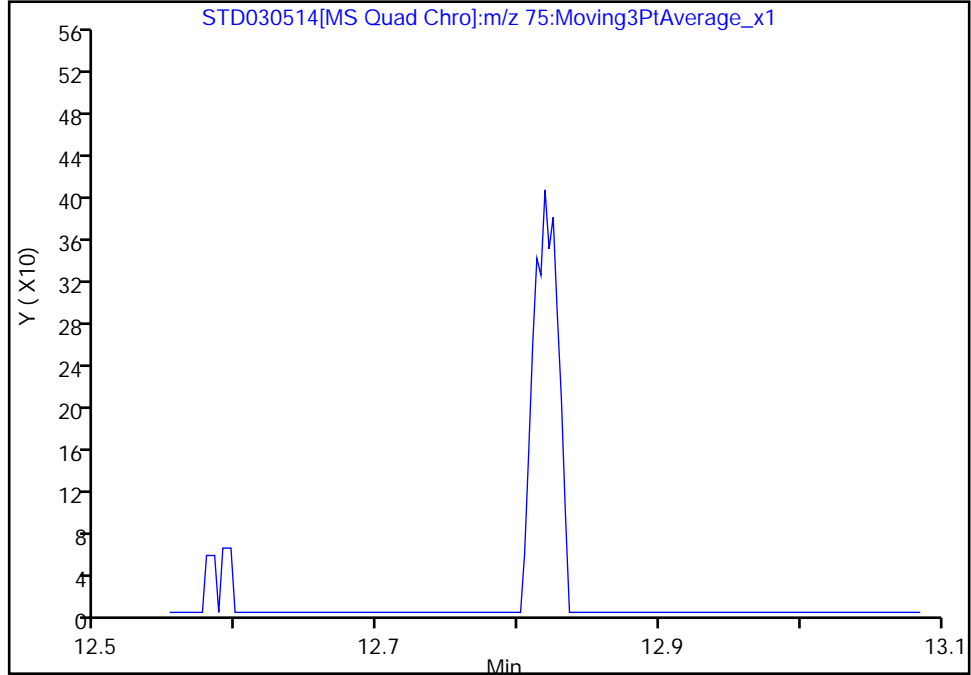
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

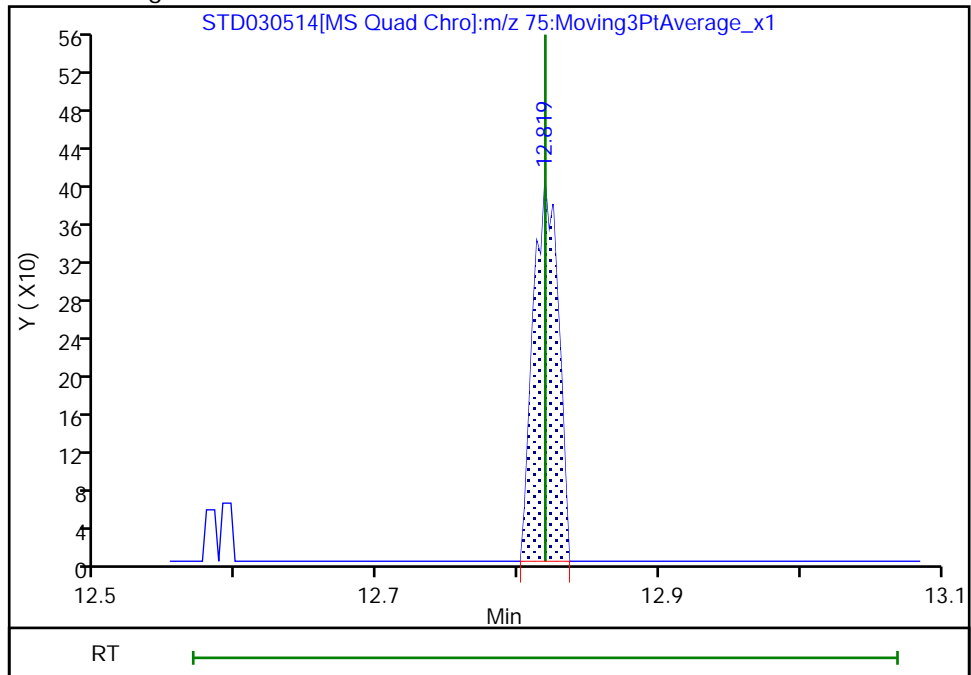
Not Detected
Expected RT: 12.82

Processing Integration Results



Manual Integration Results

RT: 12.82
Area: 490
Amount: 0.860833
Amount Units: ug/l



Reviewer: ficarello, 17-May-2022 08:00:43
Audit Action: Marked Compound Undetected

Audit Reason: Analyte was not present

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D

Injection Date: 14-May-2022 10:21:24

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

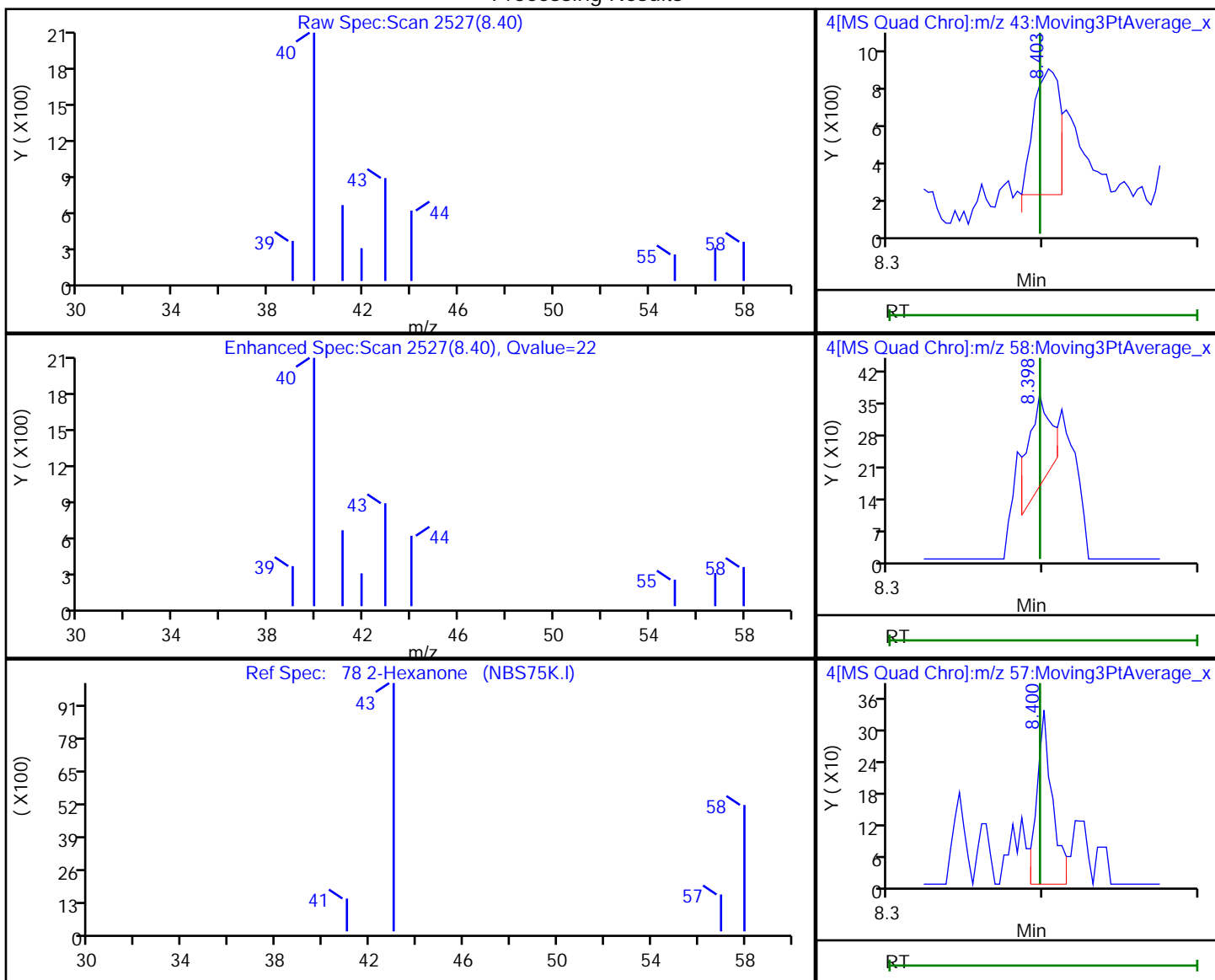
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

78 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.40	43.00	779	0.488904
8.40	58.00	202	
8.40	57.00	234	

Reviewer: ficarello, 17-May-2022 08:01:18

Audit Action: Marked Compound Undetected

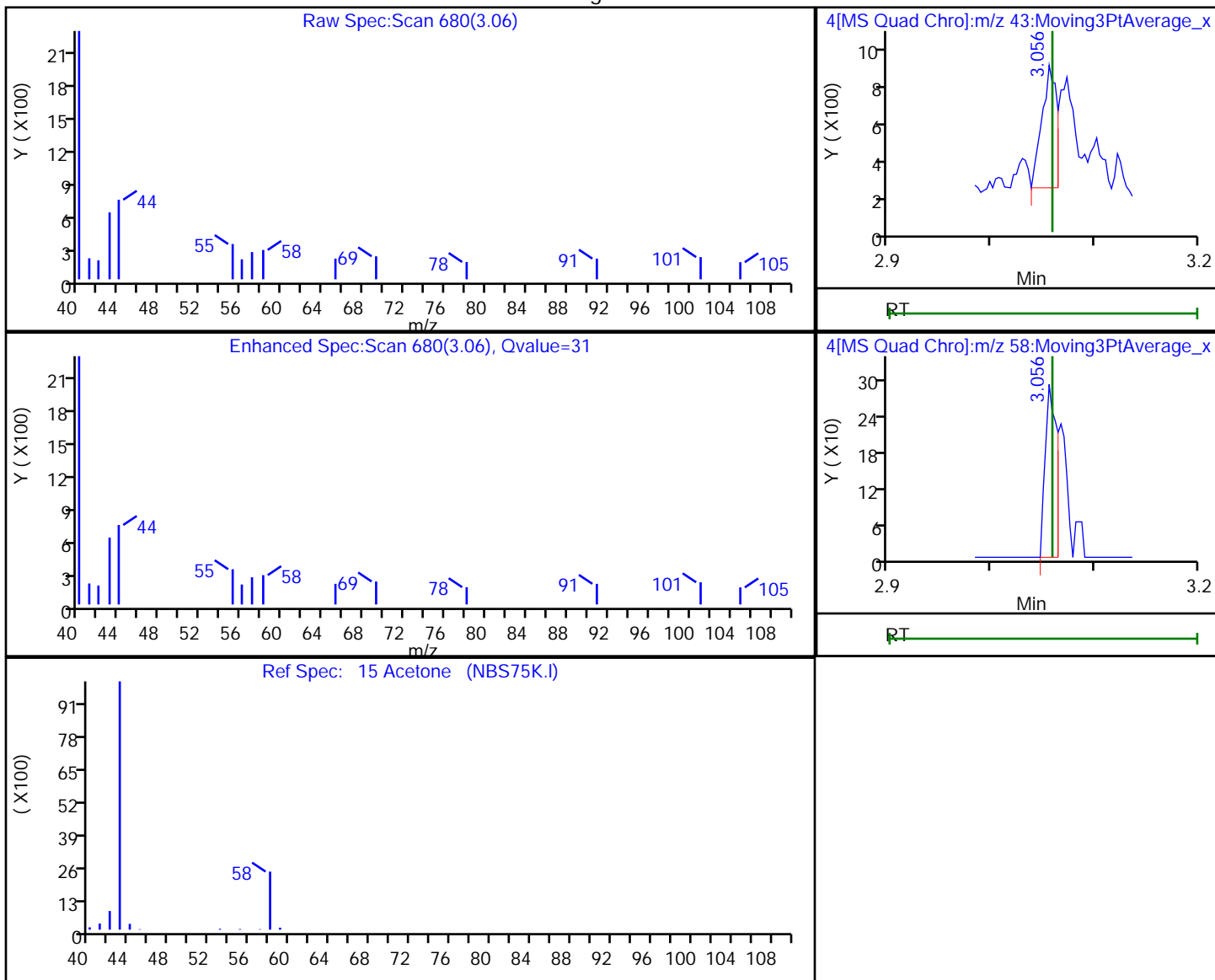
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D
 Injection Date: 14-May-2022 10:21:24 Instrument ID: CMS29
 Lims ID: STD03
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.06	43.00	607	1.119821
3.06	58.00	222	

Reviewer: ficarello, 17-May-2022 08:01:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D

Injection Date: 14-May-2022 10:21:24

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

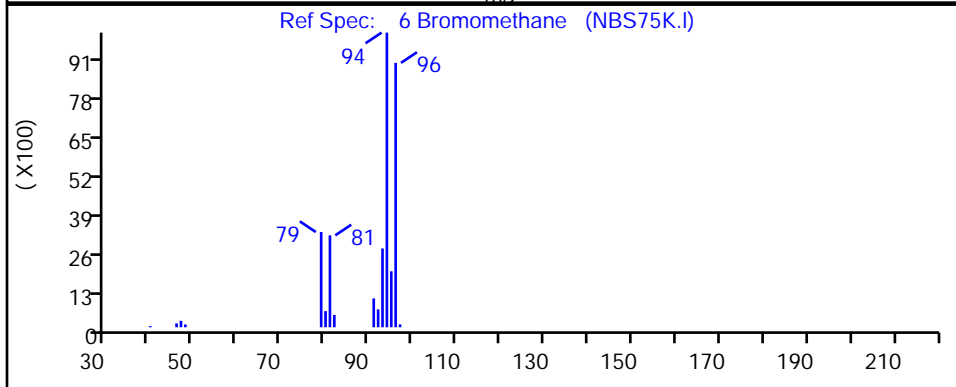
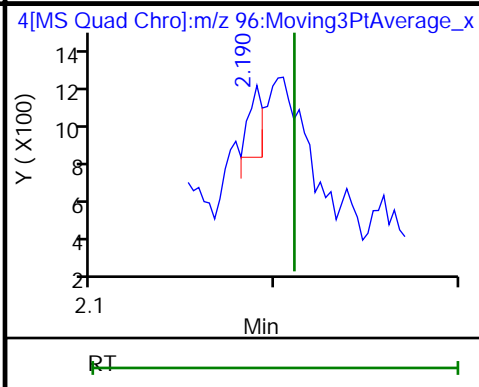
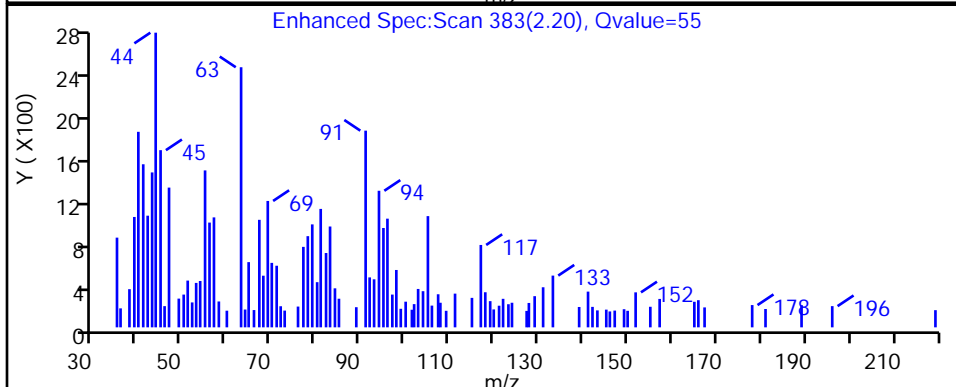
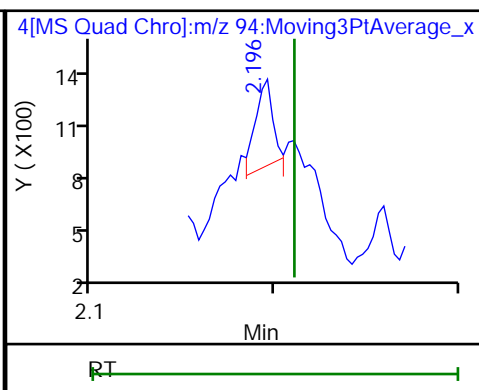
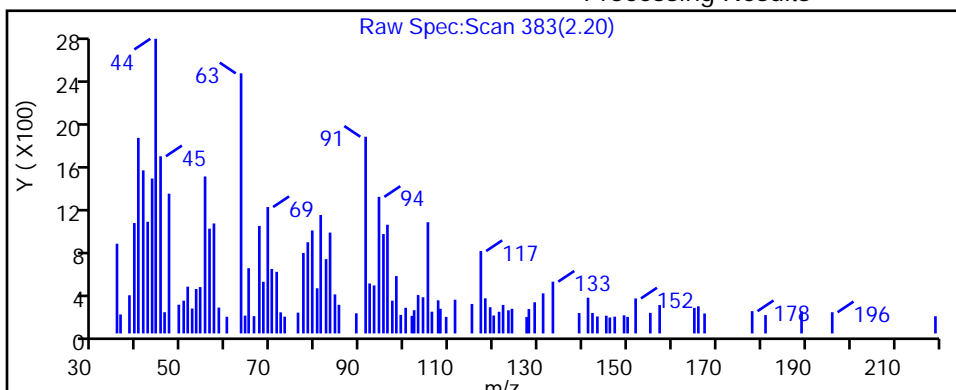
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.20	94.00	322	0.184526
2.19	96.00	177	

Reviewer: ficarello, 17-May-2022 08:00:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D

Injection Date: 14-May-2022 10:21:24

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

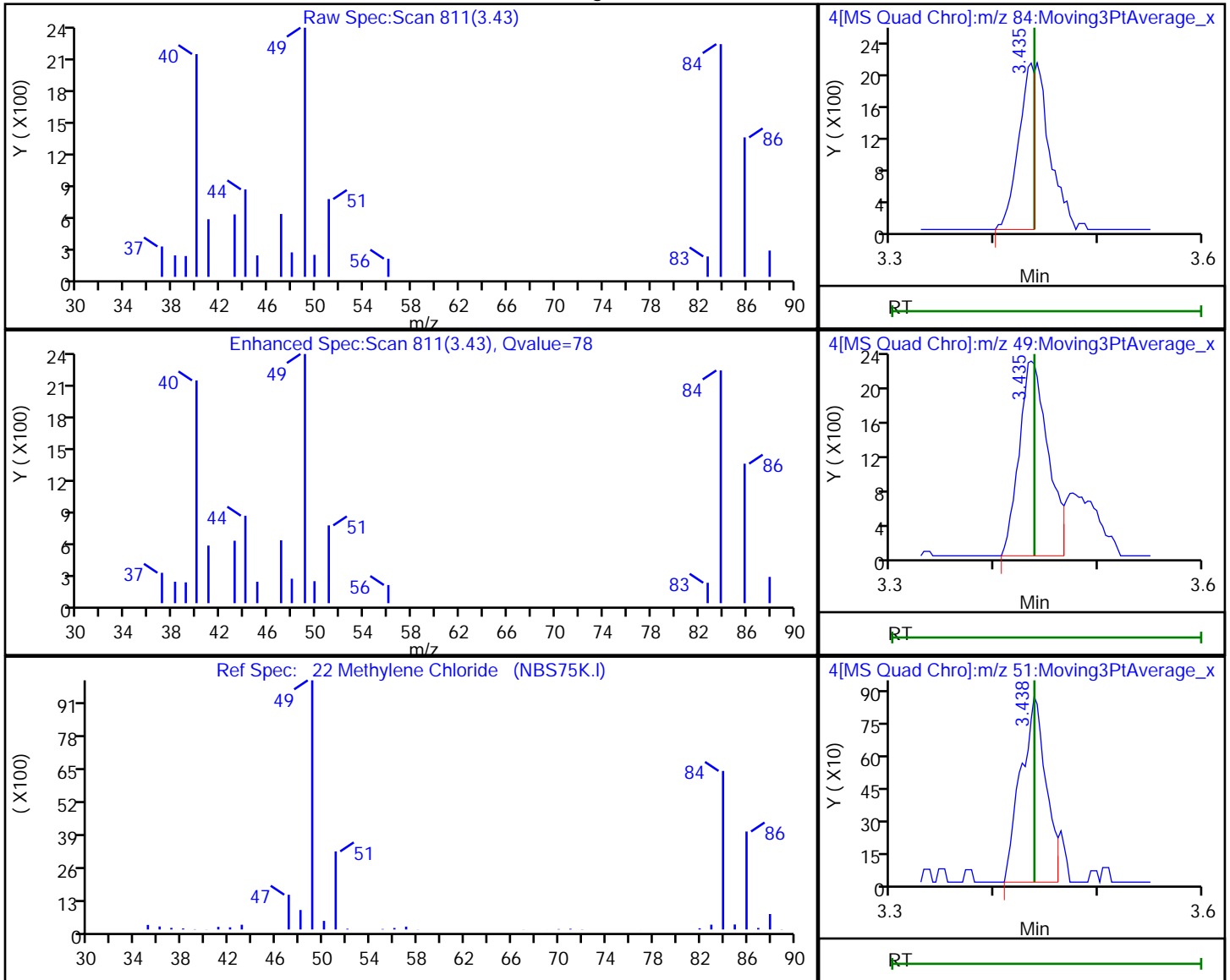
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.43	84.00	2278	0.818652
3.43	49.00	4391	
3.44	51.00	1475	

Reviewer: ficarellp, 17-May-2022 08:01:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD030514.D

Injection Date: 14-May-2022 10:21:24

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

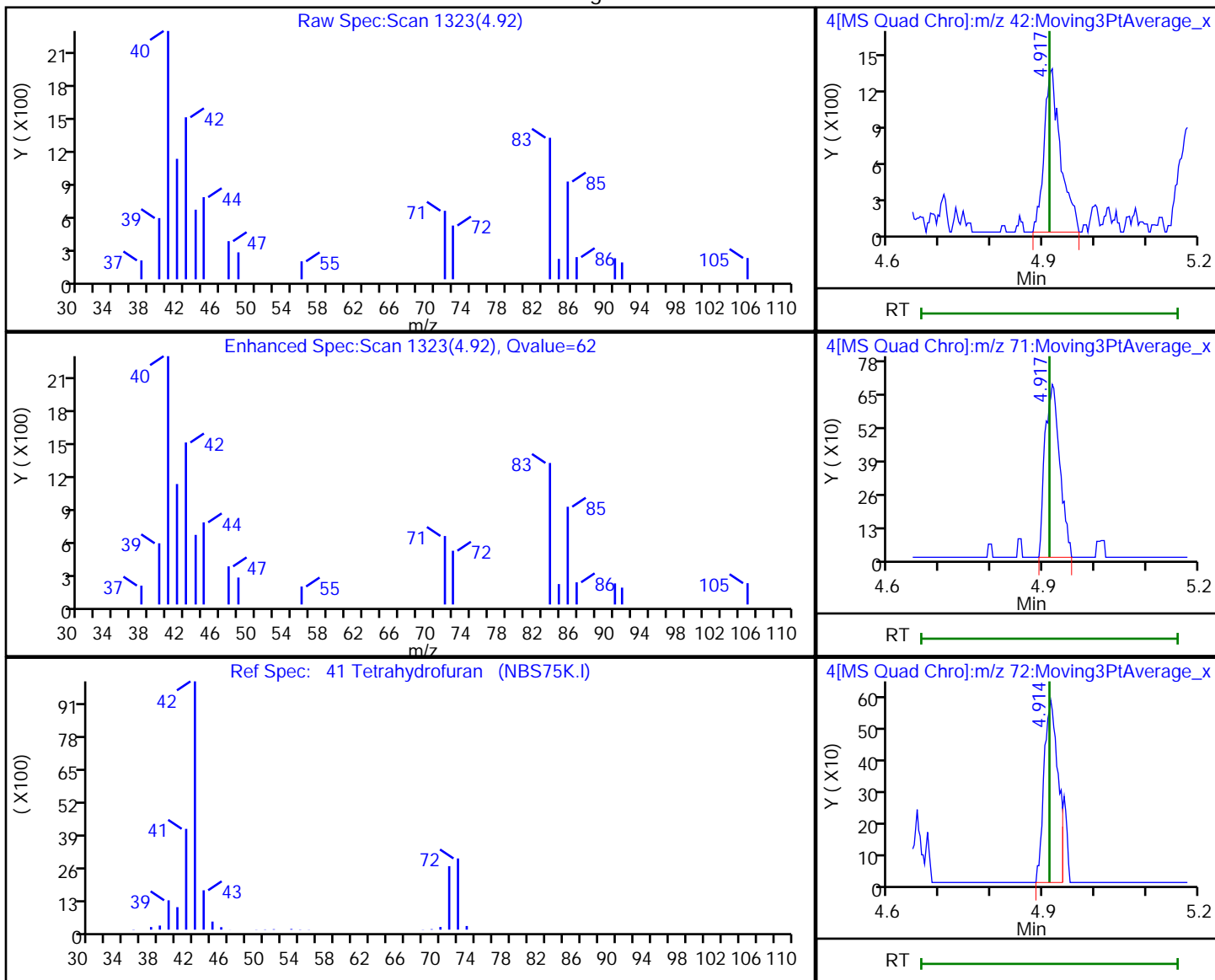
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
4.92	42.00	3000	1.438154
4.92	71.00	1365	
4.91	72.00	1109	

Reviewer: ficarello, 17-May-2022 09:30:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-May-2022 10:44:59 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04
 Misc. Info.: 500-0085710-006
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:09 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date: 14-May-2022 12:23:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.582	1.594	-0.012	22	5265	2.00	2.09	
2 Chloromethane	50	1.791	1.802	-0.011	61	6778	2.00	1.96	M
3 Vinyl chloride	62	1.895	1.912	-0.017	57	6638	2.00	1.98	M
4 Butadiene	39	1.904	1.918	-0.014	92	6051	2.00	2.07	
6 Bromomethane	94	2.199	2.210	-0.011	71	4651	2.00	1.95	Ma
7 Chloroethane	64	2.263	2.280	-0.017	75	4203	2.00	1.74	a
8 Dichlorofluoromethane	67	2.488	2.497	-0.009	62	8445	2.00	1.84	Ma
9 Trichlorofluoromethane	101	2.488	2.506	-0.018	51	9205	2.00	2.03	M
11 Ethyl ether	59	2.784	2.795	-0.011	82	4172	2.00	2.30	
12 Acrolein	56	2.905	2.914	-0.009	91	14801	80.0	85.0	
13 1,1-Dichloroethene	96	2.986	2.995	-0.009	78	5206	2.00	1.89	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.004	3.021	-0.017	70	5473	2.00	1.85	
16 Iodomethane	142	3.123	3.134	-0.012	71	11395	2.00	2.02	
17 Carbon disulfide	76	3.183	3.195	-0.012	95	18451	2.00	2.09	
20 3-Chloro-1-propene	76	3.322	3.328	-0.006	71	3532	2.00	2.11	
21 Methyl acetate	43	3.348	3.351	-0.003	91	5465	4.00	4.26	
* 23 TBA-d9 (IS)	65	3.479	3.482	-0.003	0	203892	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.557	3.560	-0.003	77	4671	20.0	20.2	a
25 Acrylonitrile	53	3.667	3.670	-0.003	93	13435	20.0	20.4	
26 trans-1,2-Dichloroethene	96	3.684	3.690	-0.006	70	6382	2.00	1.98	
27 Methyl tert-butyl ether	73	3.687	3.696	-0.009	88	13617	2.00	1.96	
28 Hexane	57	3.930	3.939	-0.009	84	9799	2.00	2.23	
29 1,1-Dichloroethane	63	4.075	4.084	-0.009	63	9545	2.00	2.08	
30 Vinyl acetate	43	4.124	4.127	-0.003	95	8664	2.00	2.02	
35 cis-1,2-Dichloroethene	96	4.628	4.631	-0.003	77	6540	2.00	2.09	
34 2,2-Dichloropropane	77	4.625	4.631	-0.006	60	6958	2.00	2.23	
40 Chlorobromomethane	128	4.863	4.863	0.000	62	3420	2.00	2.05	
42 Chloroform	83	4.932	4.938	-0.006	74	13197	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 1,1,1-Trichloroethane	97	5.120	5.126	-0.006	81	8495	2.00	2.00	
45 Cyclohexane	56	5.172	5.181	-0.009	85	9436	2.00	2.20	
47 1,1-Dichloropropene	75	5.282	5.285	-0.003	77	7676	2.00	2.03	
46 Carbon tetrachloride	117	5.285	5.288	-0.003	76	8369	2.00	1.95	
48 Isobutyl alcohol	43	5.390	5.392	-0.002	73	4582	50.0	51.0	
50 Benzene	78	5.494	5.500	-0.006	92	21626	2.00	2.00	
51 1,2-Dichloroethane	62	5.511	5.514	-0.003	60	6154	2.00	2.03	
54 n-Heptane	43	5.754	5.757	-0.003	40	8007	2.00	2.12	a
* 55 Fluorobenzene (IS)	96	5.775	5.778	-0.003	99	488072	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	72	7481	2.00	2.11	
59 Methylcyclohexane	83	6.365	6.371	-0.006	87	9830	2.00	2.01	
60 1,2-Dichloropropane	63	6.412	6.409	0.003	77	4948	2.00	2.02	
* 62 1,4-Dioxane-d8	96	6.493	6.493	0.000	0	15685	1000.0	1000.0	M
63 Dibromomethane	93	6.530	6.536	-0.006	78	3326	2.00	2.12	a
66 Dichlorobromomethane	83	6.704	6.707	-0.003	69	7865	2.00	2.23	
68 2-Chloroethyl vinyl ether	63	7.046	7.043	0.003	47	2217	2.00	1.90	
69 cis-1,3-Dichloropropene	75	7.214	7.214	0.000	66	8221	2.00	2.05	a
72 Toluene	92	7.602	7.602	0.000	88	13495	2.00	1.96	
73 trans-1,3-Dichloropropene	75	7.865	7.865	0.000	75	7155	2.00	2.03	
74 Ethyl methacrylate	69	7.981	7.975	0.006	68	5744	2.00	2.08	M
75 1,1,2-Trichloroethane	97	8.085	8.088	-0.003	60	4028	2.00	2.02	
76 Tetrachloroethene	166	8.256	8.259	-0.003	81	6953	2.00	1.97	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	66	6491	2.00	2.00	
79 Chlorodibromomethane	129	8.572	8.572	0.000	64	5887	2.00	1.98	
81 Ethylene Dibromide	107	8.716	8.713	0.003	63	4144	2.00	1.96	a
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	368062	50.0	50.0	
84 Chlorobenzene	112	9.339	9.342	-0.003	87	15566	2.00	1.96	
85 1,1,1,2-Tetrachloroethane	131	9.443	9.449	-0.006	75	6812	2.00	2.11	Ma
86 Ethylbenzene	91	9.484	9.486	-0.002	92	24983	2.00	1.94	
87 m-Xylene & p-Xylene	91	9.637	9.640	-0.003	90	19146	2.00	1.91	
88 o-Xylene	91	10.118	10.118	0.000	88	19744	2.00	1.88	
89 Styrene	104	10.135	10.135	0.000	91	16130	2.00	1.80	
90 Bromoform	173	10.341	10.341	0.000	76	3747	2.00	1.99	
91 Isopropylbenzene	105	10.535	10.535	0.000	90	26398	2.00	2.11	
95 Bromobenzene	156	10.850	10.850	0.000	90	7095	2.00	2.11	
96 1,1,2,2-Tetrachloroethane	83	10.859	10.856	0.003	60	5484	2.00	2.13	
97 1,2,3-Trichloropropane	110	10.899	10.896	0.003	59	1759	2.00	1.85	a
98 trans-1,4-Dichloro-2-butene	53	10.914	10.917	-0.003	67	1716	2.00	2.29	
99 N-Propylbenzene	91	10.966	10.966	0.000	95	30255	2.00	2.14	
100 2-Chlorotoluene	91	11.050	11.050	0.000	86	16738	2.00	2.15	
101 1,3,5-Trimethylbenzene	105	11.146	11.145	0.001	90	21165	2.00	1.96	
102 4-Chlorotoluene	91	11.157	11.157	0.000	92	19640	2.00	2.06	
104 tert-Butylbenzene	119	11.458	11.458	0.000	81	20739	2.00	2.03	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.001	87	22383	2.00	2.04	
107 sec-Butylbenzene	105	11.664	11.664	0.000	84	29498	2.00	2.01	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	89	14270	2.00	2.04	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	93	26118	2.00	1.95	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	223418	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	86	15679	2.00	2.16	
115 n-Butylbenzene	91	12.159	12.159	0.000	94	24403	2.00	2.15	
114 1,2-Dichlorobenzene	146	12.170	12.170	0.000	91	13913	2.00	2.03	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	2	865	2.00	1.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 1,2,4-Trichlorobenzene	180	13.459	13.462	-0.003	80	9601	2.00	2.10	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	81	5025	2.00	2.10	
120 Naphthalene	128	13.650	13.650	0.000	97	19142	2.00	1.83	
121 1,2,3-Trichlorobenzene	180	13.830	13.829	0.001	85	8143	2.00	1.75	
S 124 Xylenes, Total	1				0			3.78	
S 125 Trihalomethanes, Total	1				0			8.29	
S 126 1,2-Dichloroethene, Total	1				0			4.08	
S 127 Trimethylbenzene, Total	1				0			4.00	
S 128 1,3-Dichloropropene, Total	1				0			4.08	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOW8260ACR_00316	Amount Added: 2.00	Units: uL
LO8260/624STD_00531	Amount Added: 2.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D

Injection Date: 14-May-2022 10:44:59

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD04

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

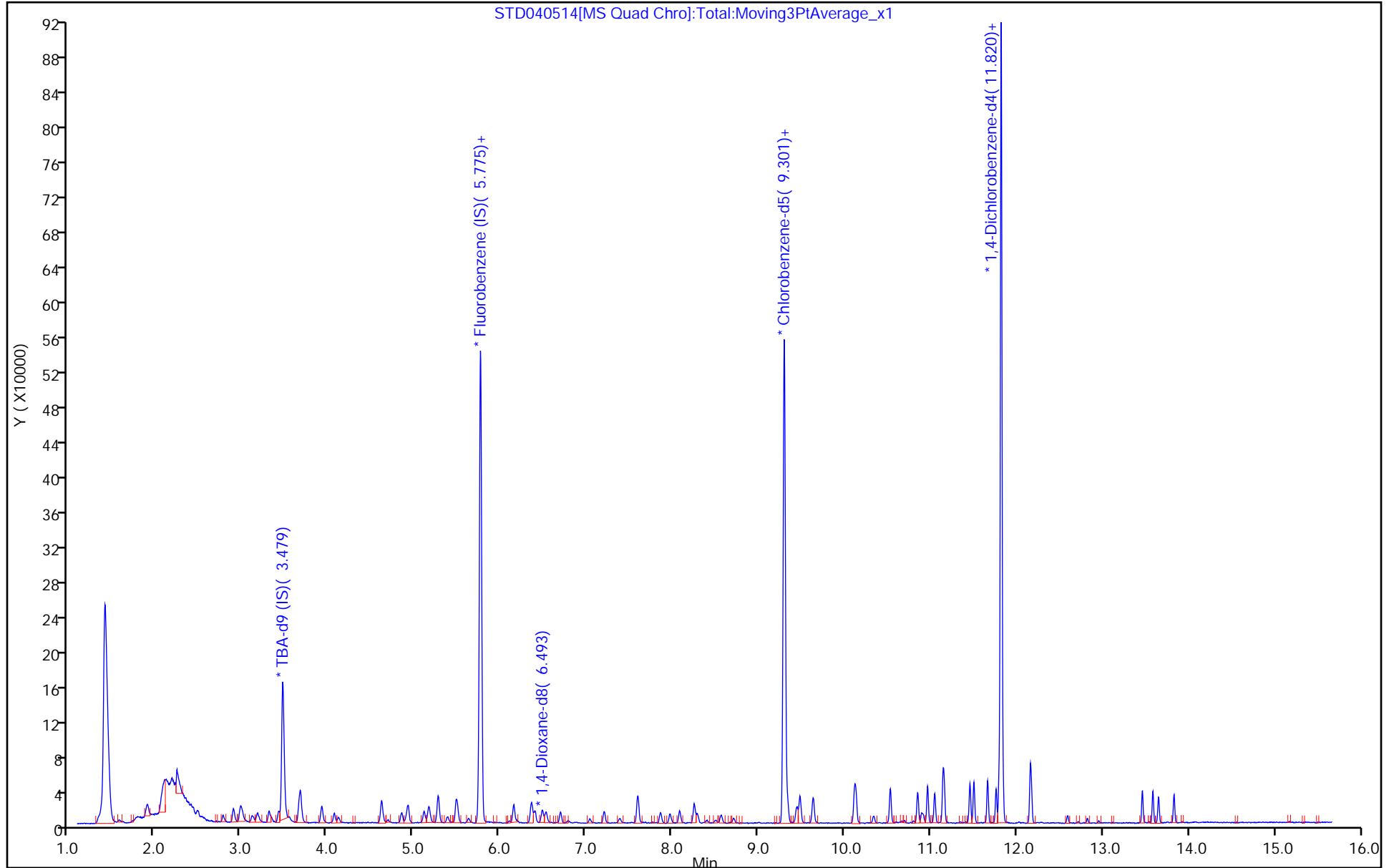
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

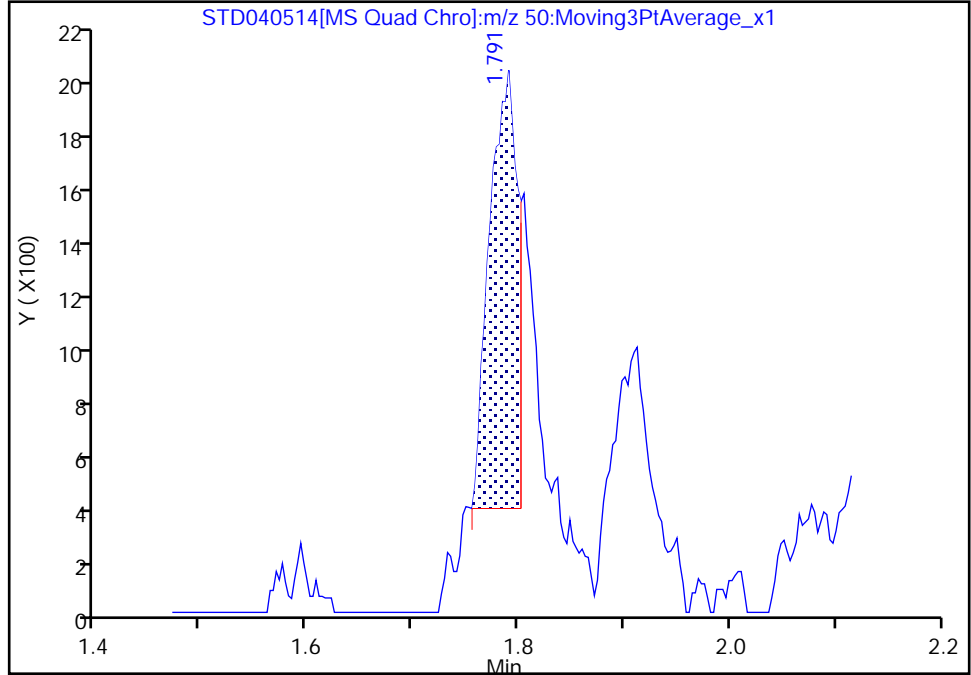
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

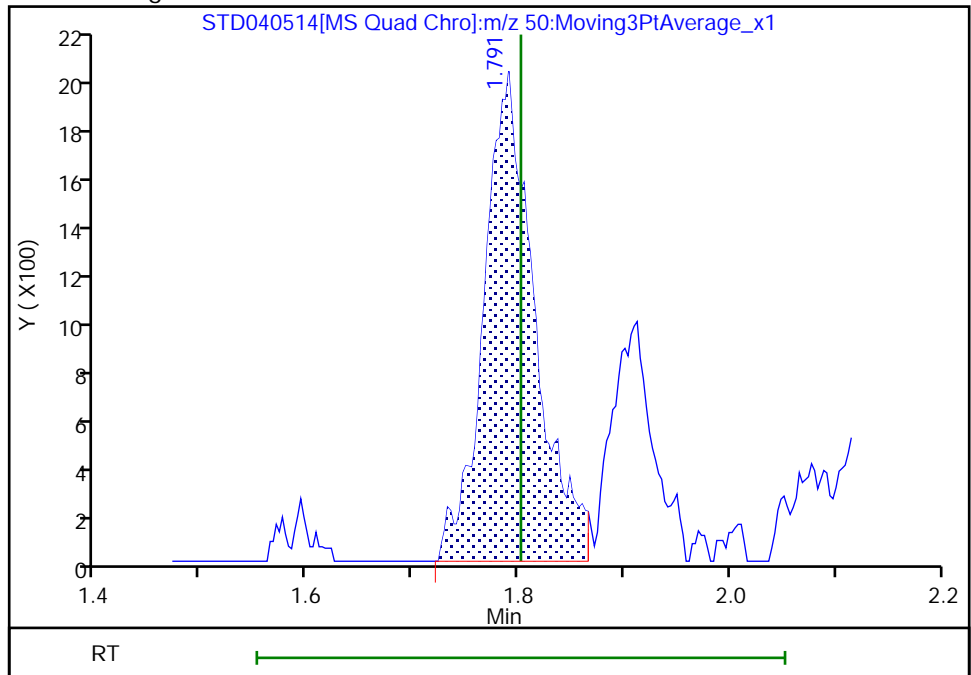
RT: 1.79
Area: 3016
Amount: 1.200872
Amount Units: ug/l

Processing Integration Results



RT: 1.79
Area: 6778
Amount: 1.955250
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:10:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

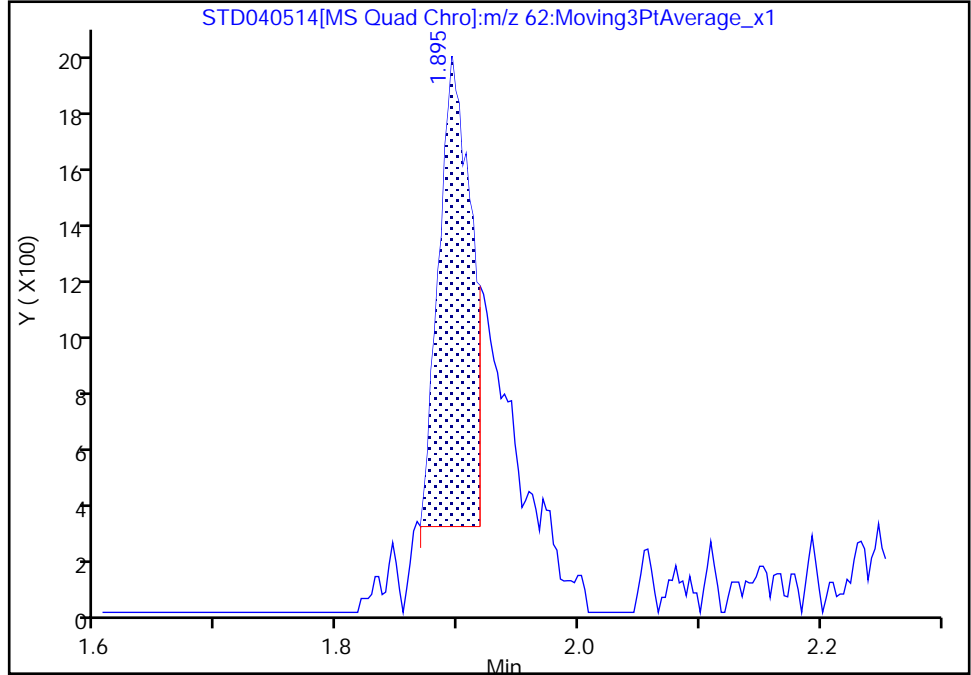
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

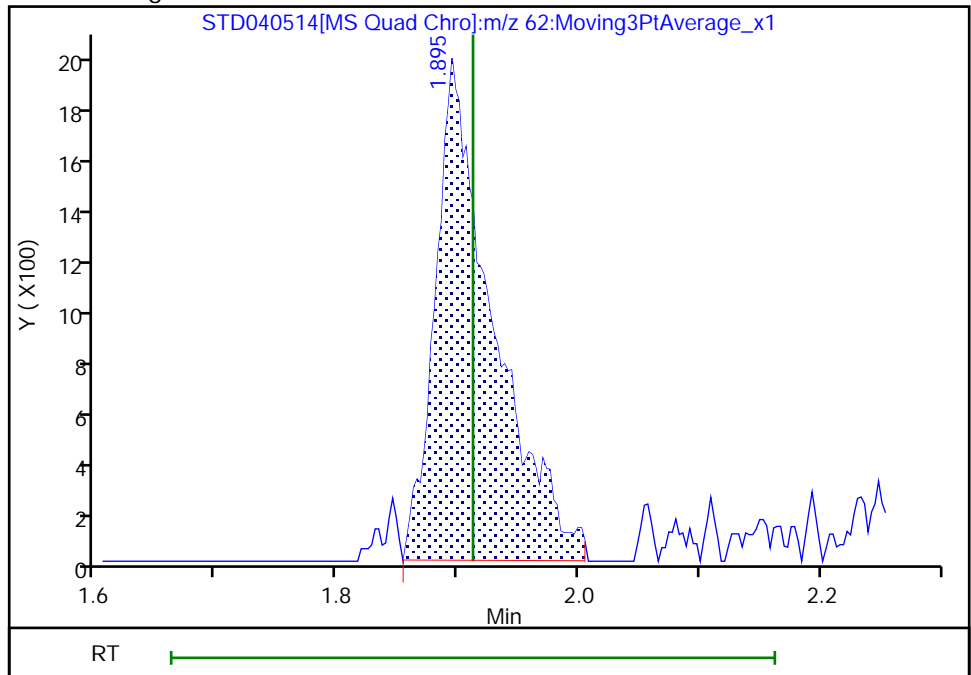
RT: 1.89
Area: 3120
Amount: 1.357698
Amount Units: ug/l

Processing Integration Results



RT: 1.89
Area: 6638
Amount: 1.979620
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 14-May-2022 12:23:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

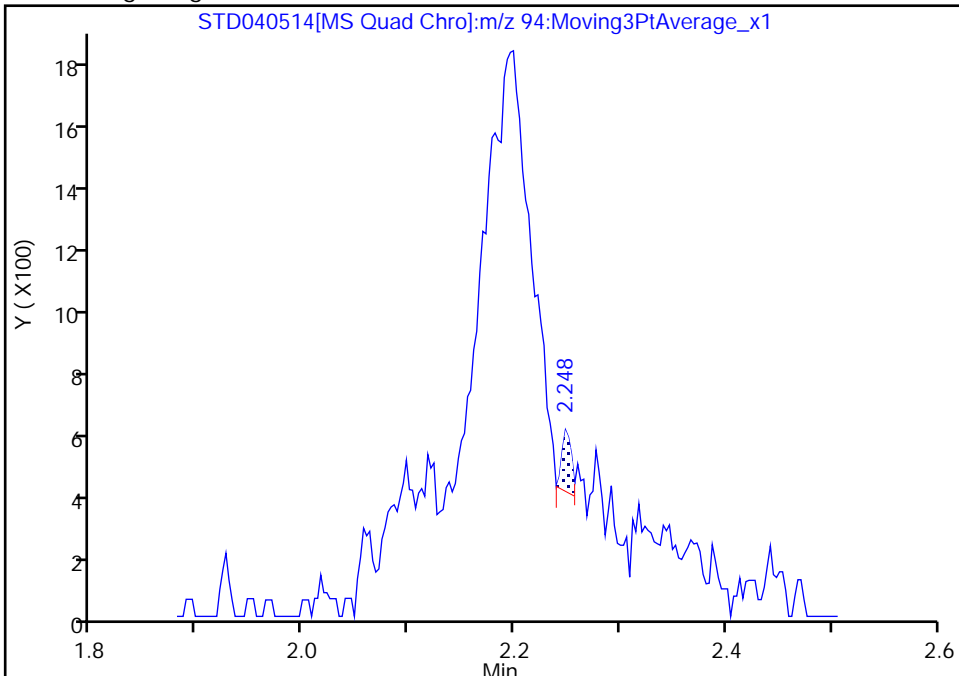
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

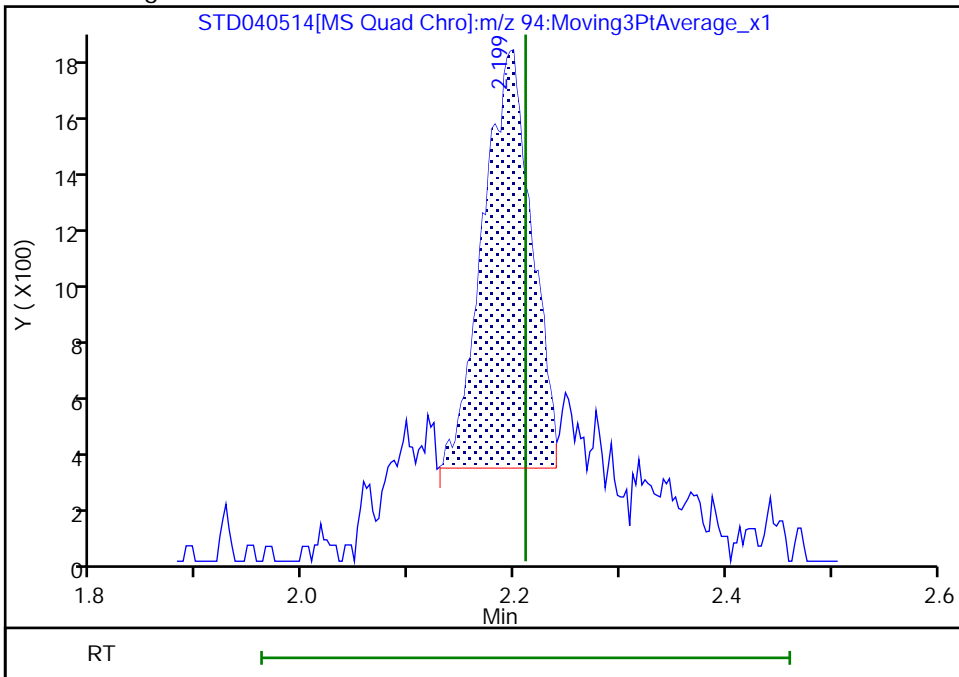
RT: 2.25
Area: 122
Amount: 1.563823
Amount Units: ug/l

Processing Integration Results



RT: 2.20
Area: 4651
Amount: 1.953269
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:09:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

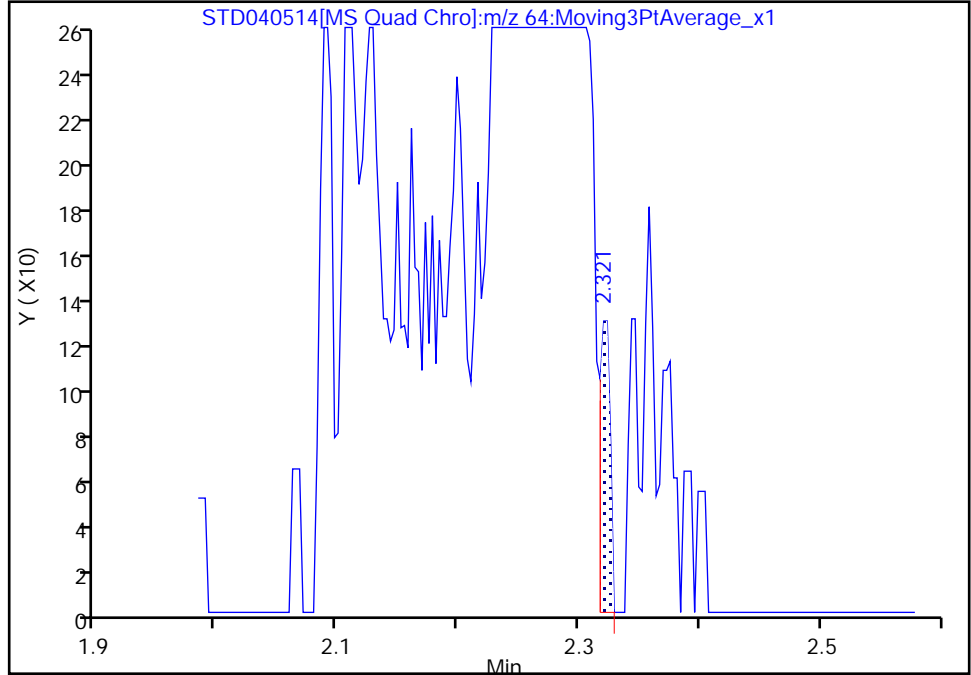
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

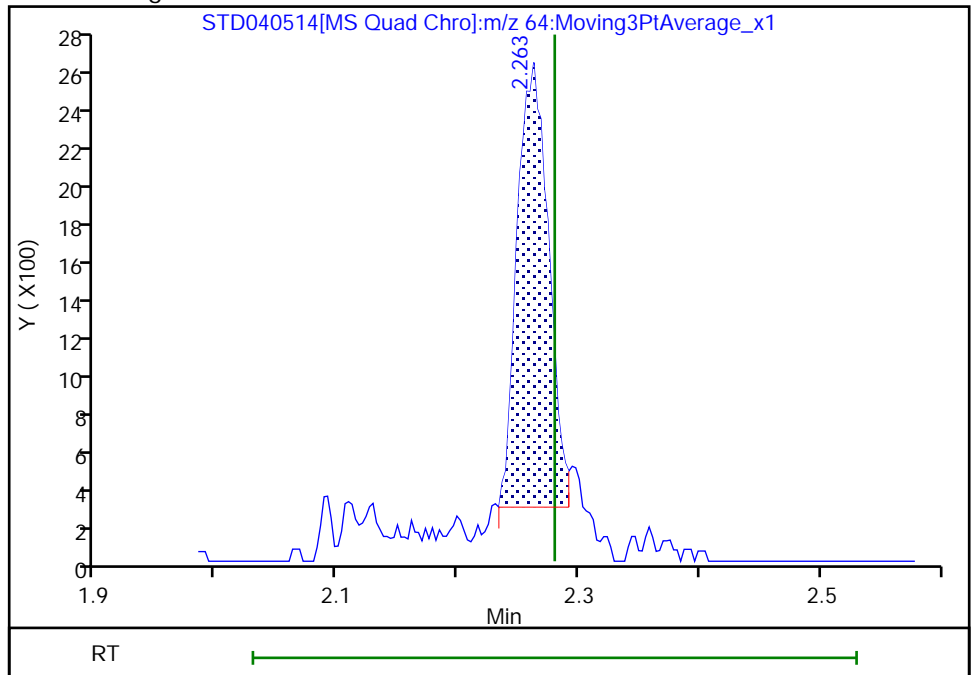
RT: 2.32
Area: 76
Amount: 0.037228
Amount Units: ug/l

Processing Integration Results



RT: 2.26
Area: 4203
Amount: 1.743902
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:09:47

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

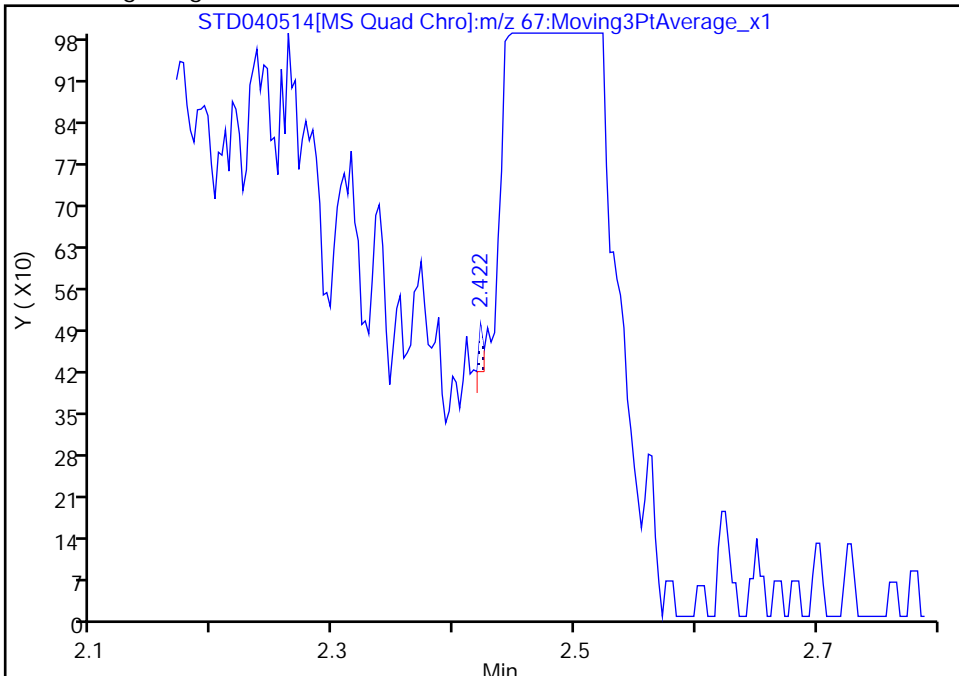
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

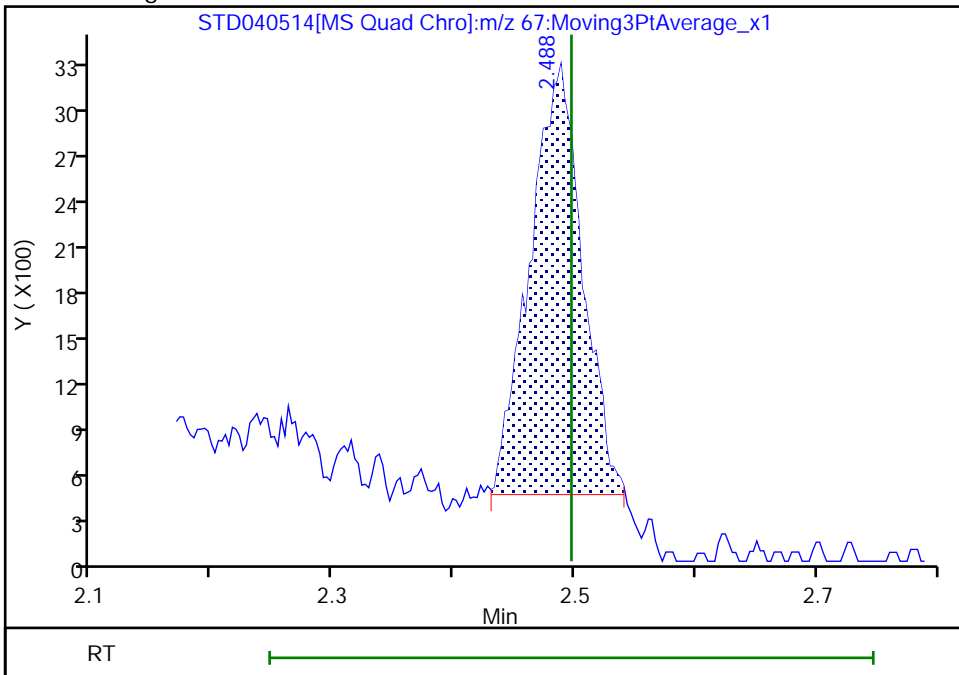
RT: 2.42
Area: 20
Amount: 0.006655
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 8445
Amount: 1.843777
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:09:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

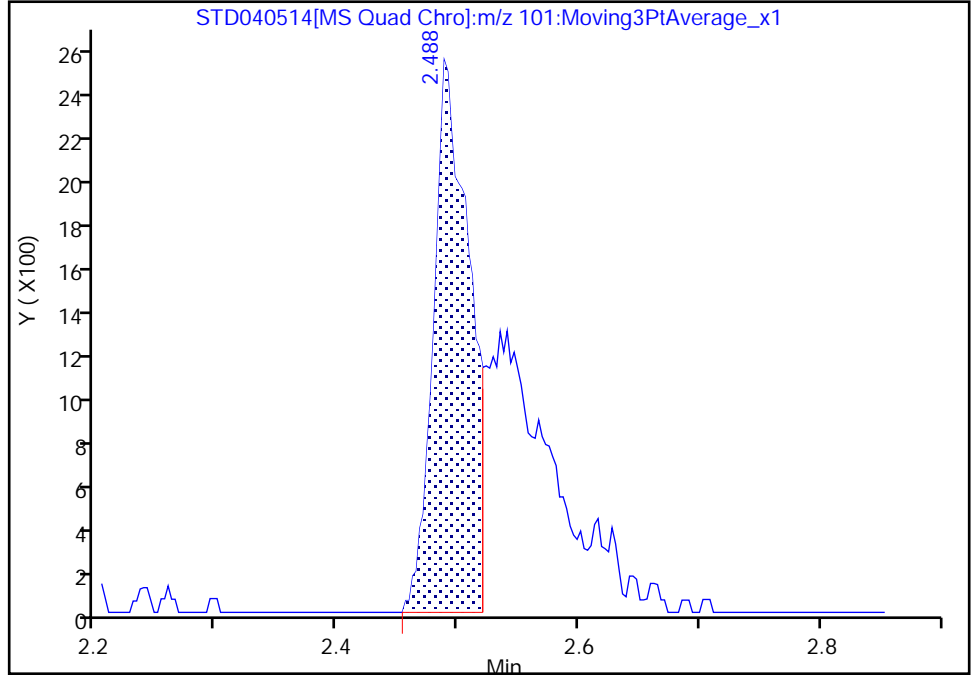
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

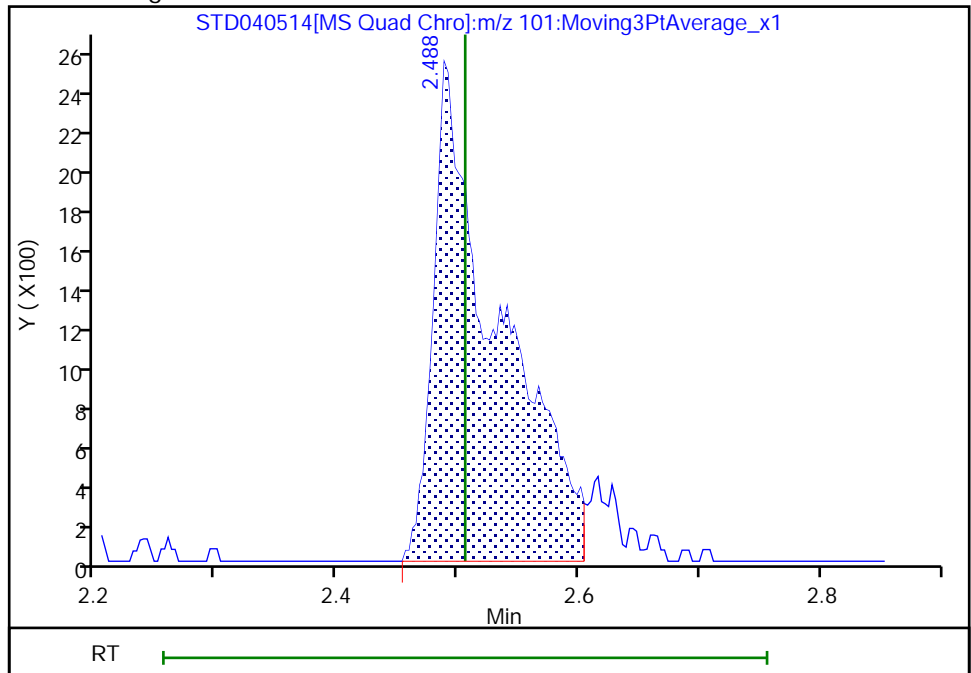
RT: 2.49
Area: 5110
Amount: 1.772275
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 9205
Amount: 2.030324
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:09:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

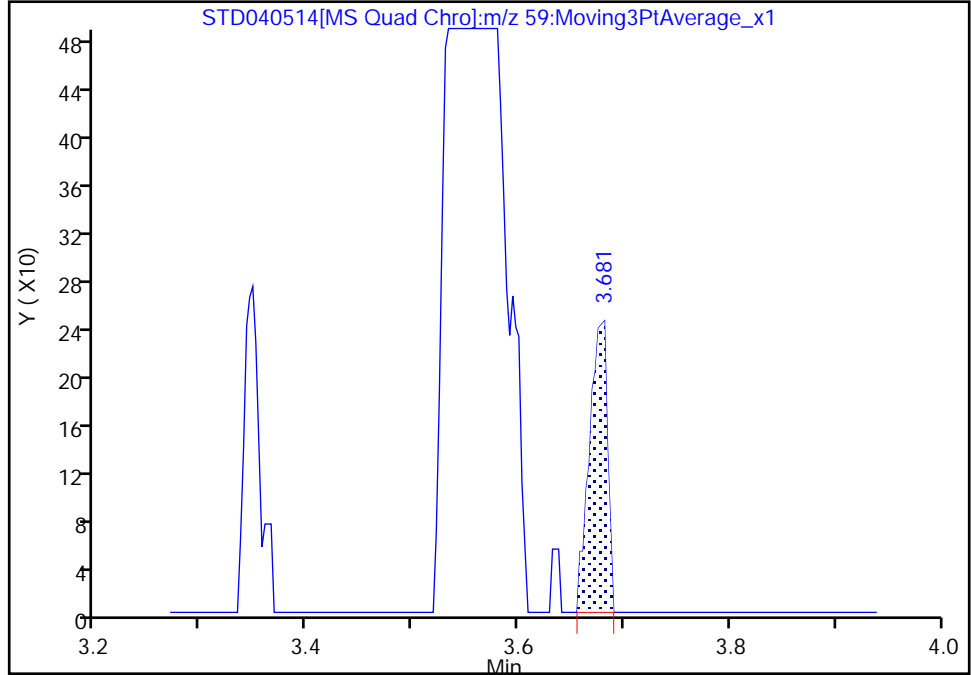
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

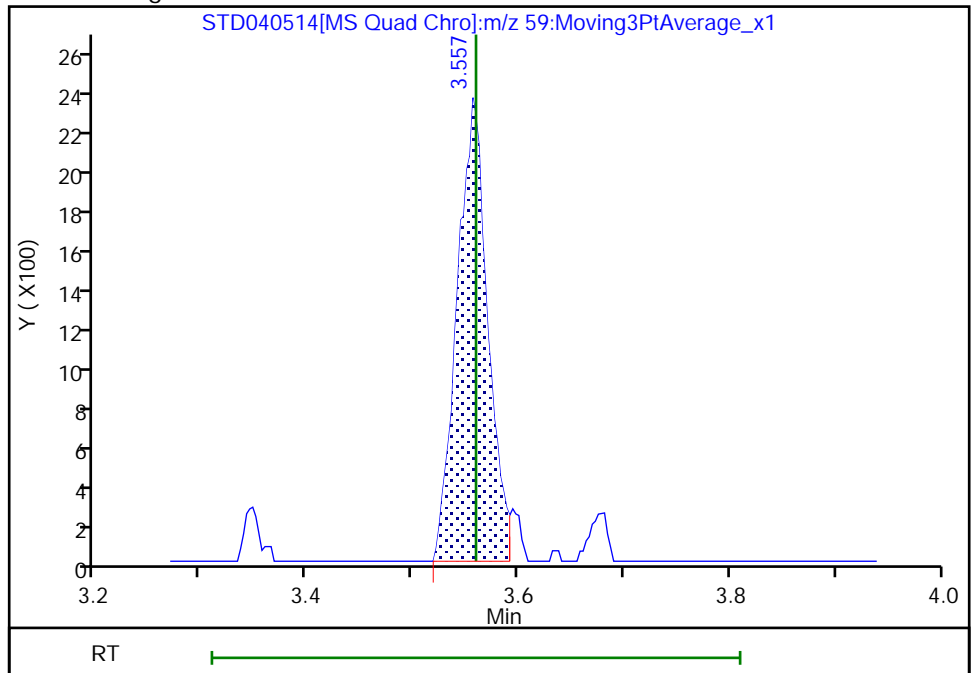
RT: 3.68
Area: 286
Amount: 1.403363
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 4671
Amount: 20.203082
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:44:42
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

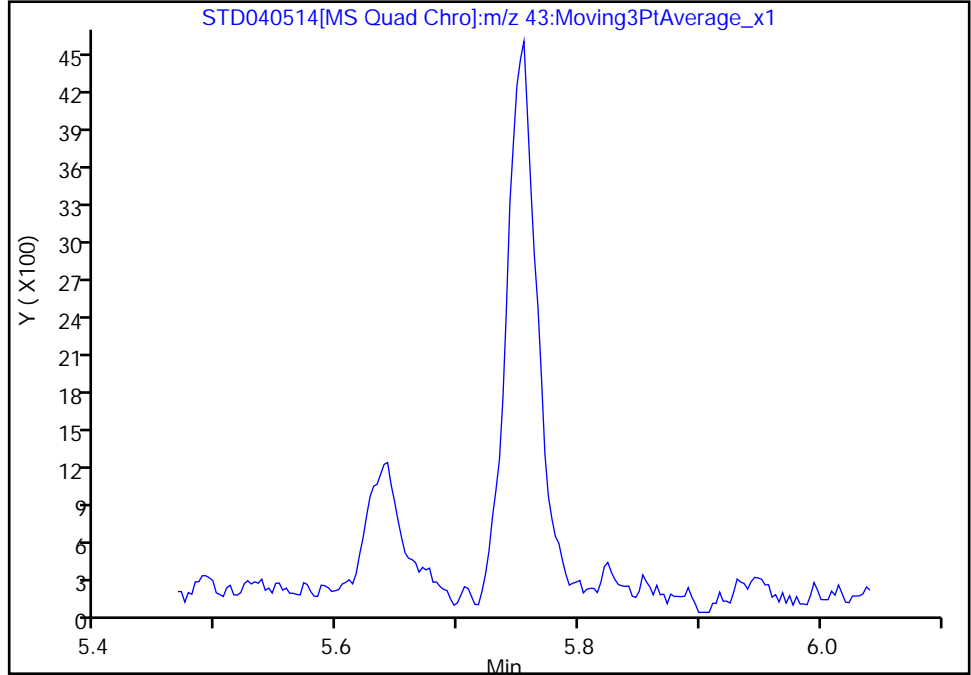
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

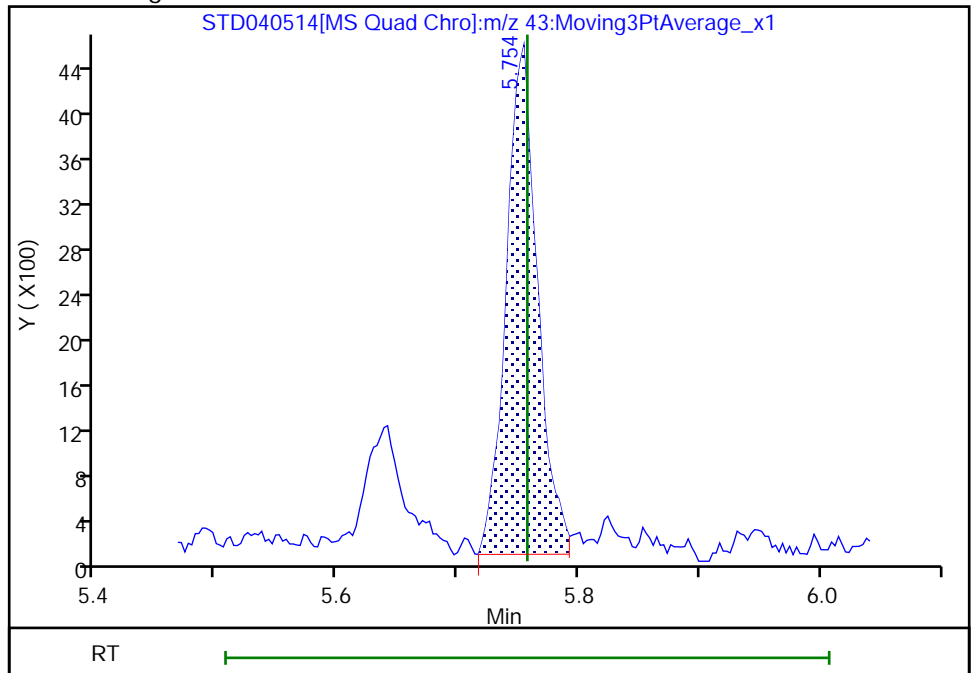
Not Detected
Expected RT: 5.76

Processing Integration Results



RT: 5.75
Area: 8007
Amount: 2.124735
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:08:36
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

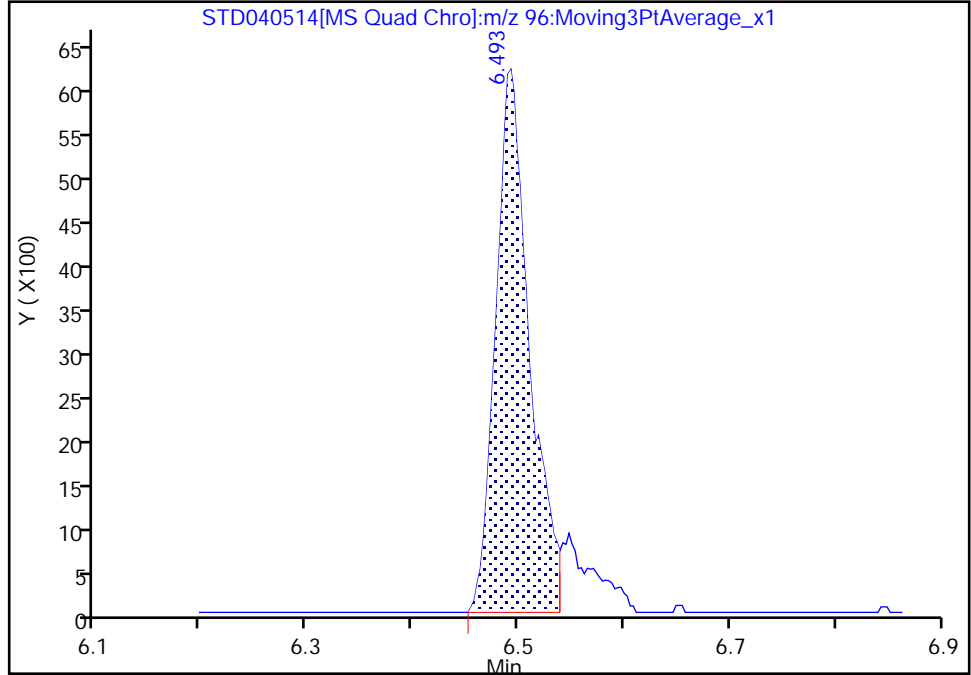
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

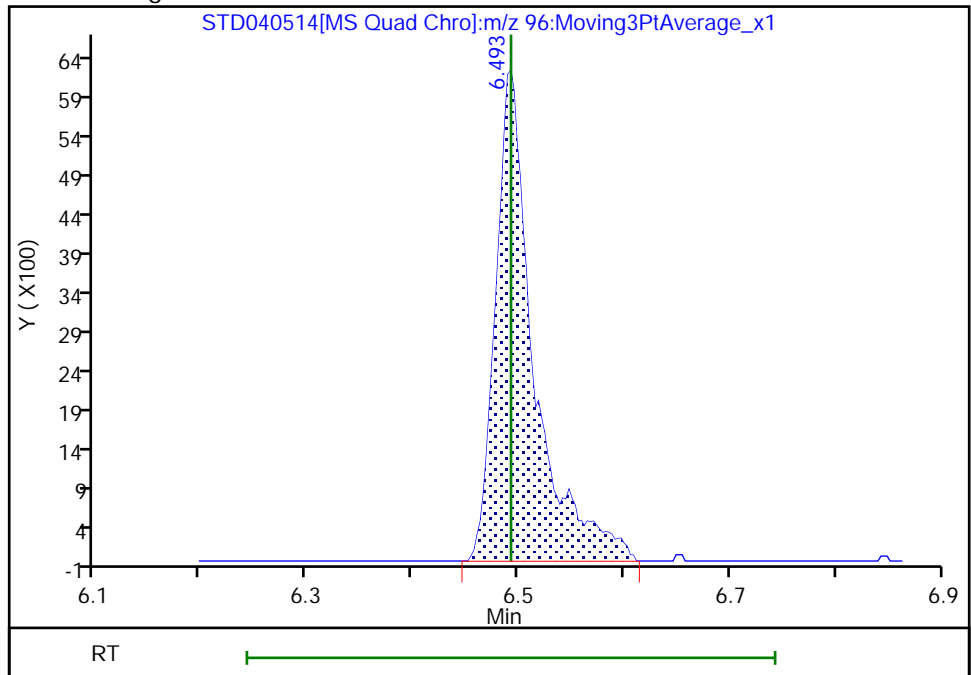
RT: 6.49
Area: 13807
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 15685
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:23:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

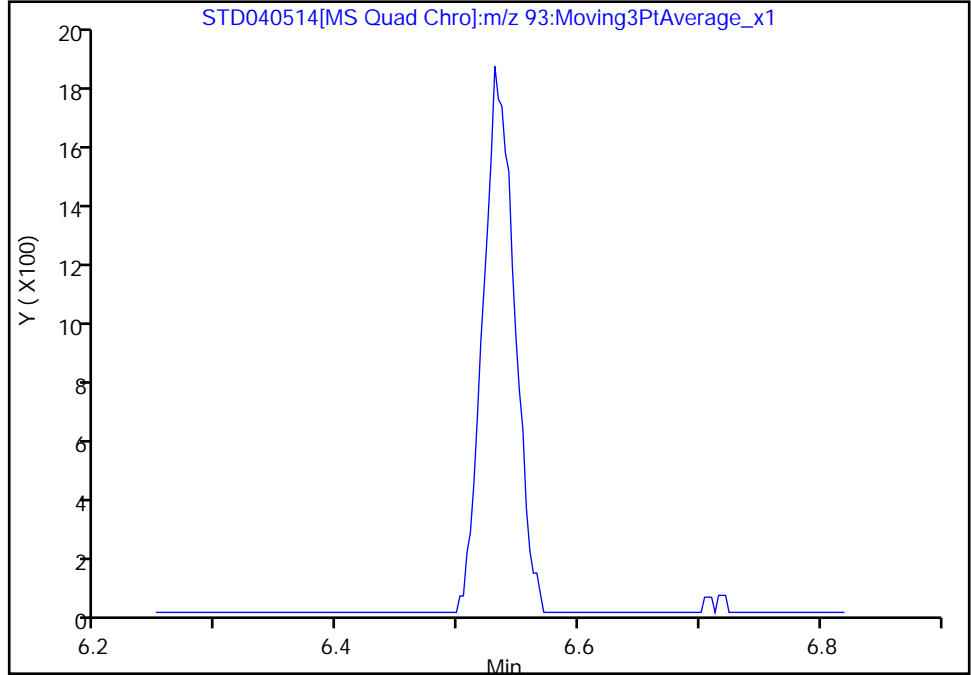
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

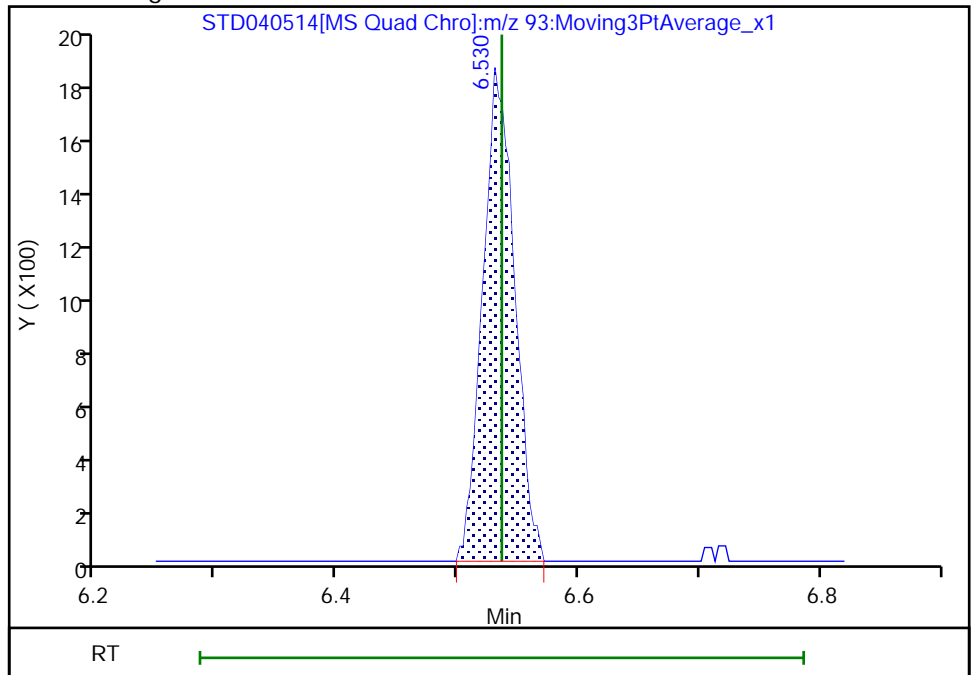
Not Detected
Expected RT: 6.54

Processing Integration Results



Manual Integration Results

RT: 6.53
Area: 3326
Amount: 2.123996
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:08:28
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

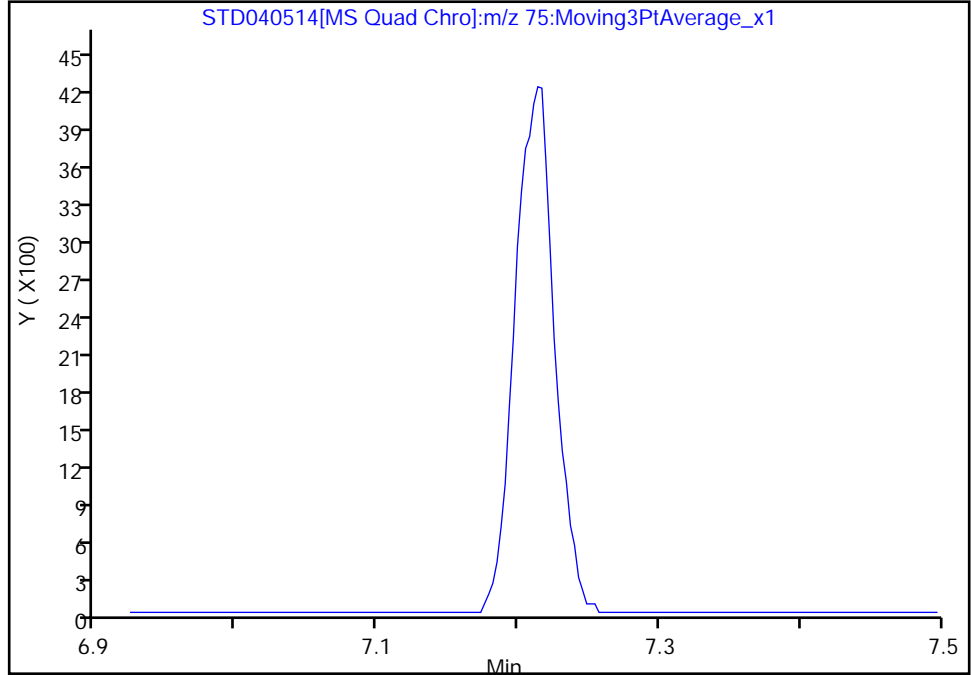
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

69 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

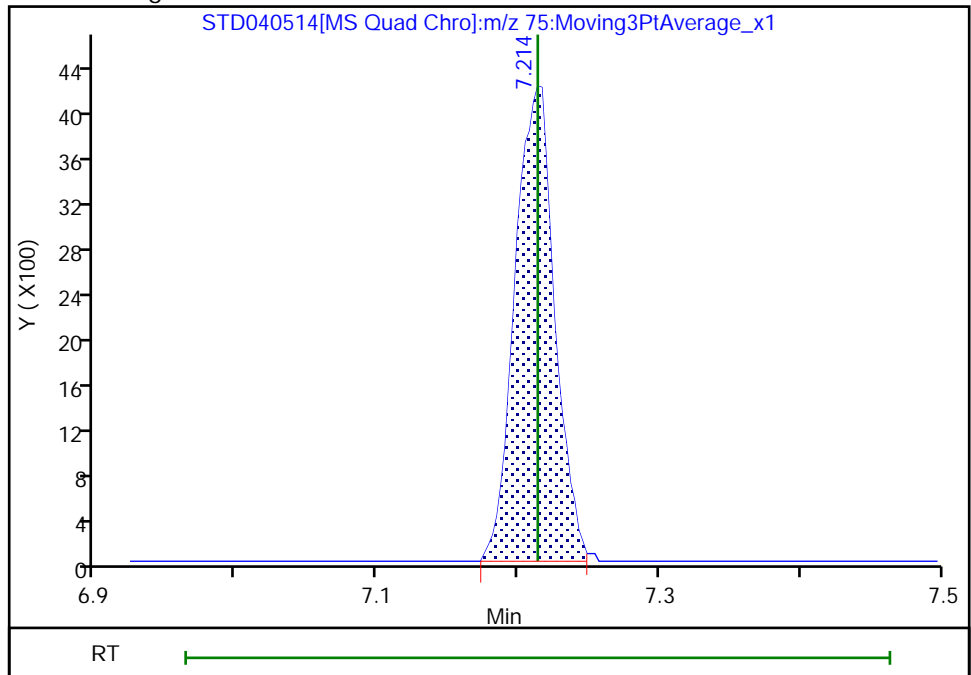
Processing Integration Results

Not Detected
Expected RT: 7.21



Manual Integration Results

RT: 7.21
Area: 8221
Amount: 2.052876
Amount Units: ug/l



Eurofins Chicago

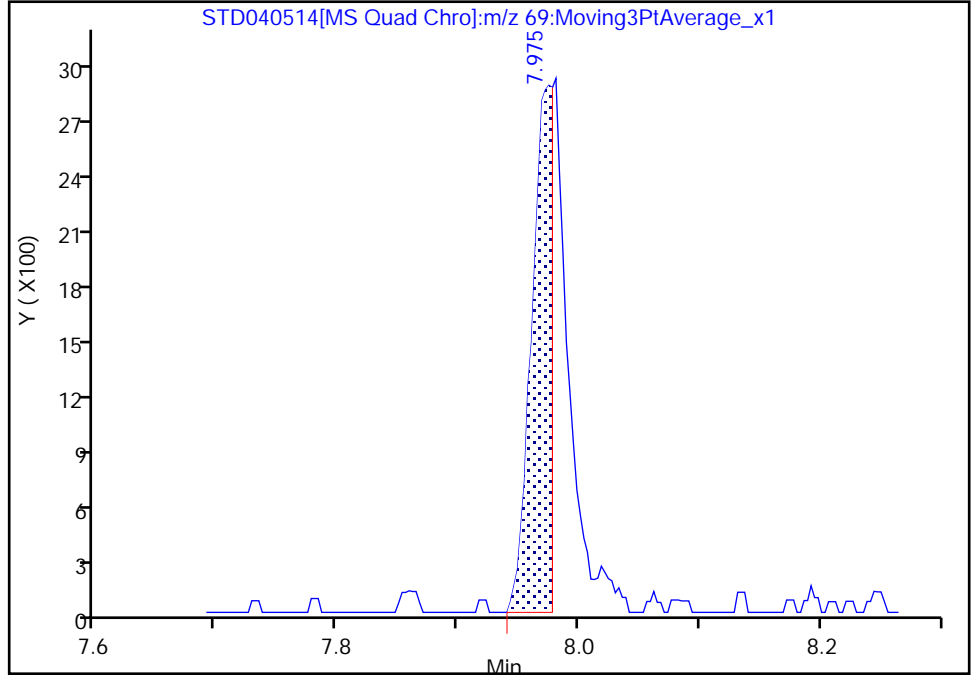
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

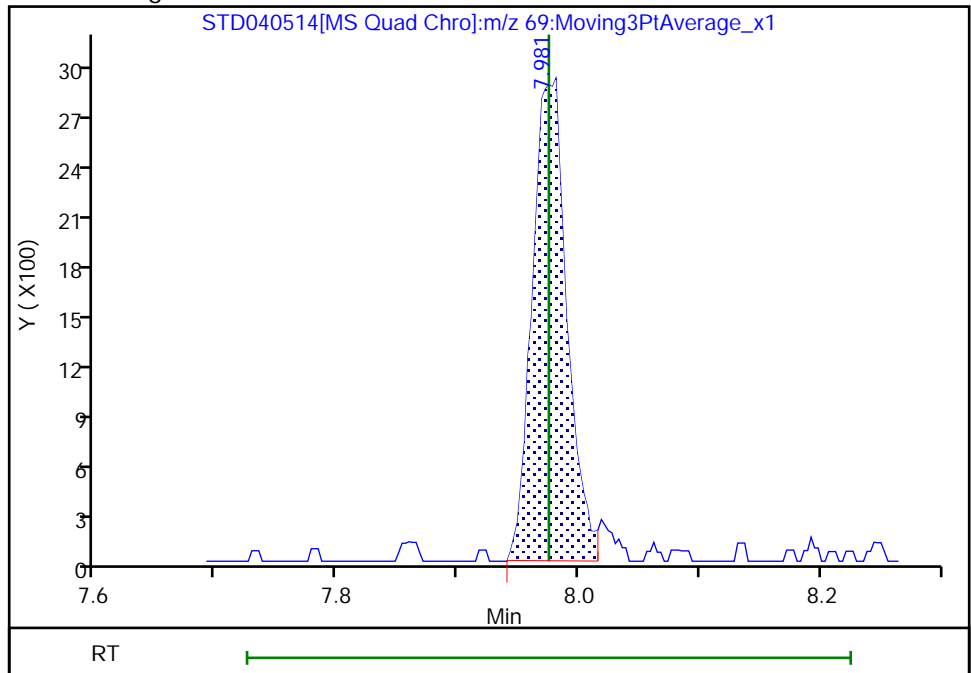
RT: 7.98
Area: 3453
Amount: 1.349467
Amount Units: ug/l

Processing Integration Results



RT: 7.98
Area: 5744
Amount: 2.083736
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:08:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

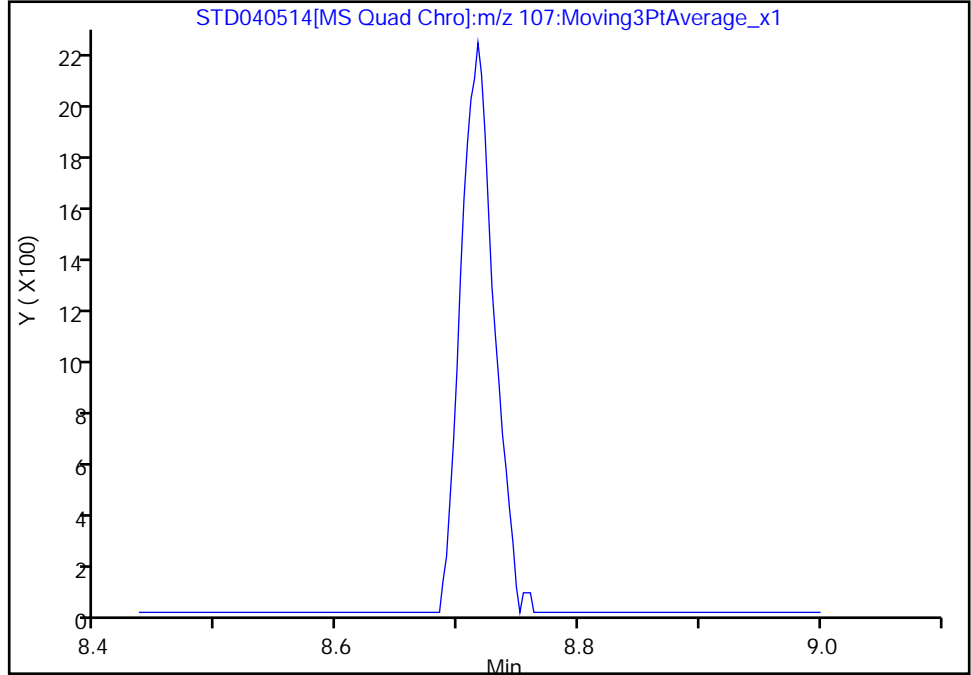
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

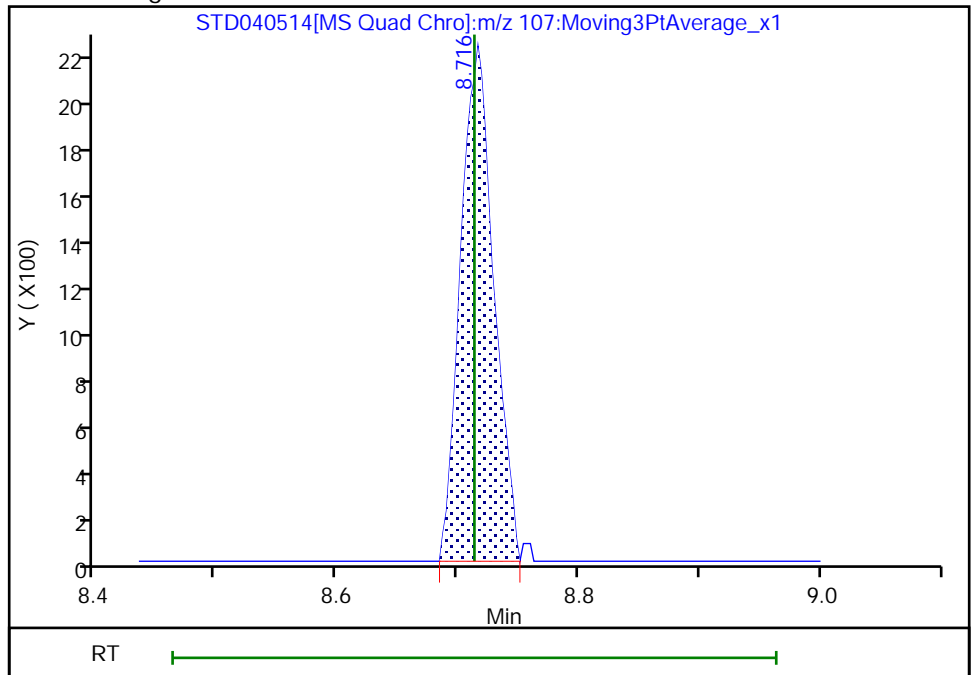
Not Detected
Expected RT: 8.71

Processing Integration Results



Manual Integration Results

RT: 8.72
Area: 4144
Amount: 1.956704
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:07:47

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

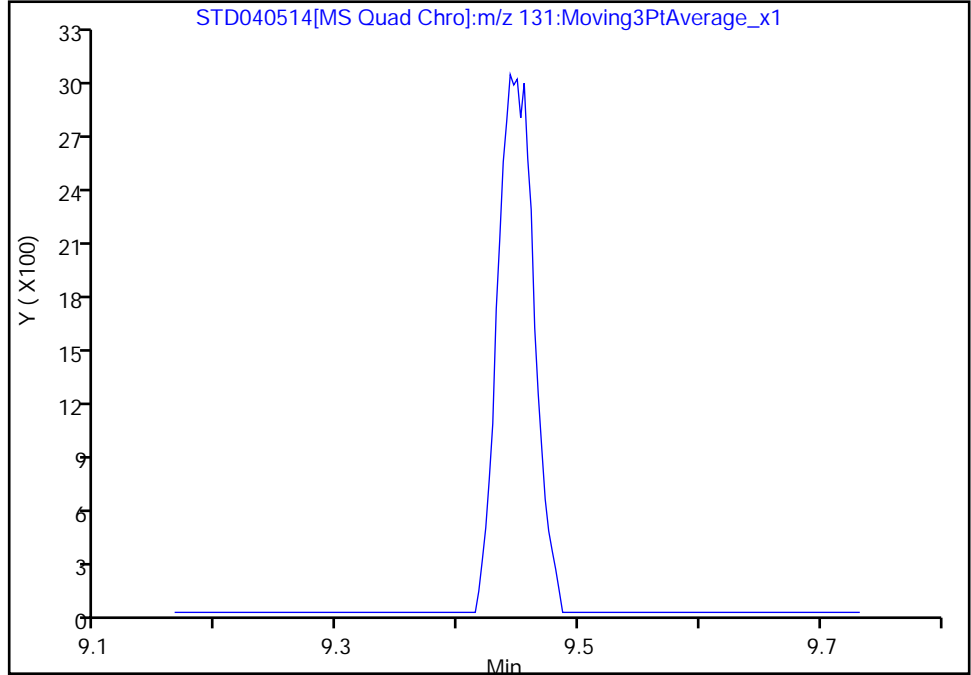
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

85 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

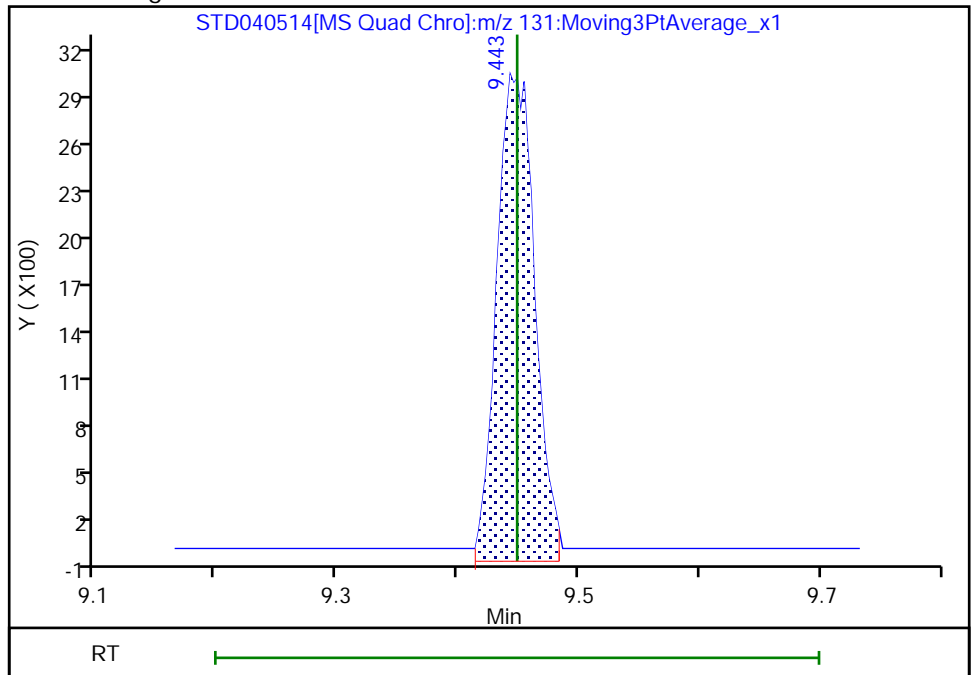
Not Detected
Expected RT: 9.45

Processing Integration Results



Manual Integration Results

RT: 9.44
Area: 6812
Amount: 2.105374
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:07:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

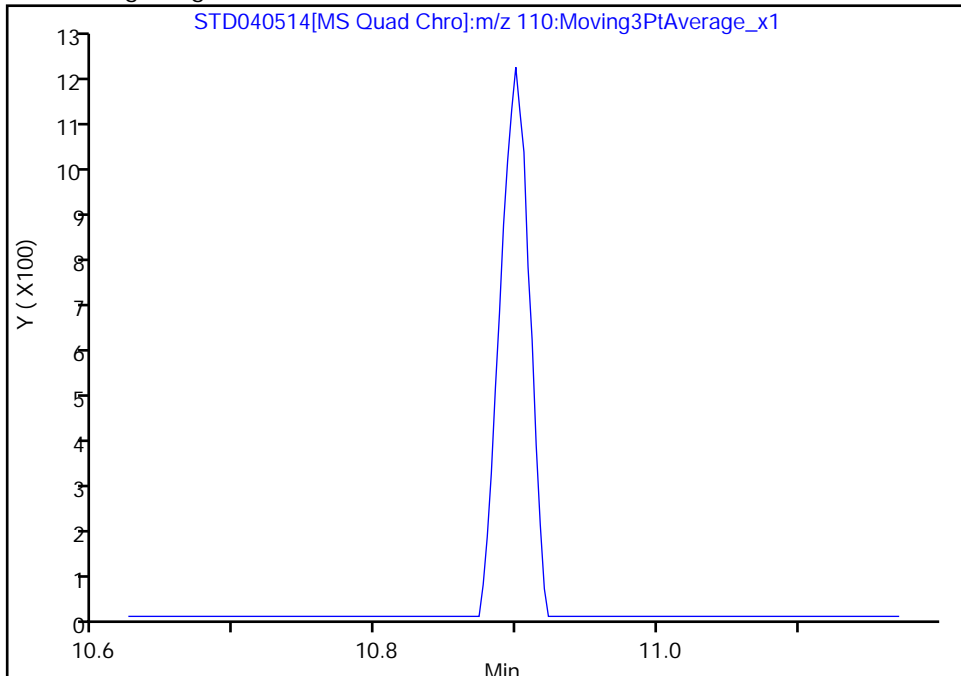
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

97 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

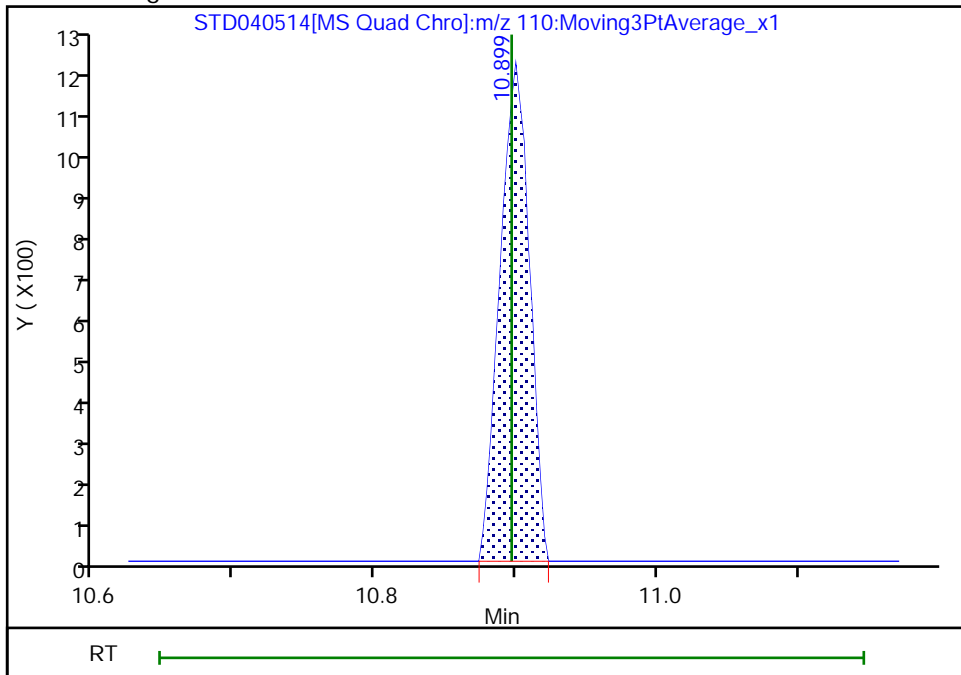
Not Detected
Expected RT: 10.90

Processing Integration Results



RT: 10.90
Area: 1759
Amount: 1.848358
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:07:23
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

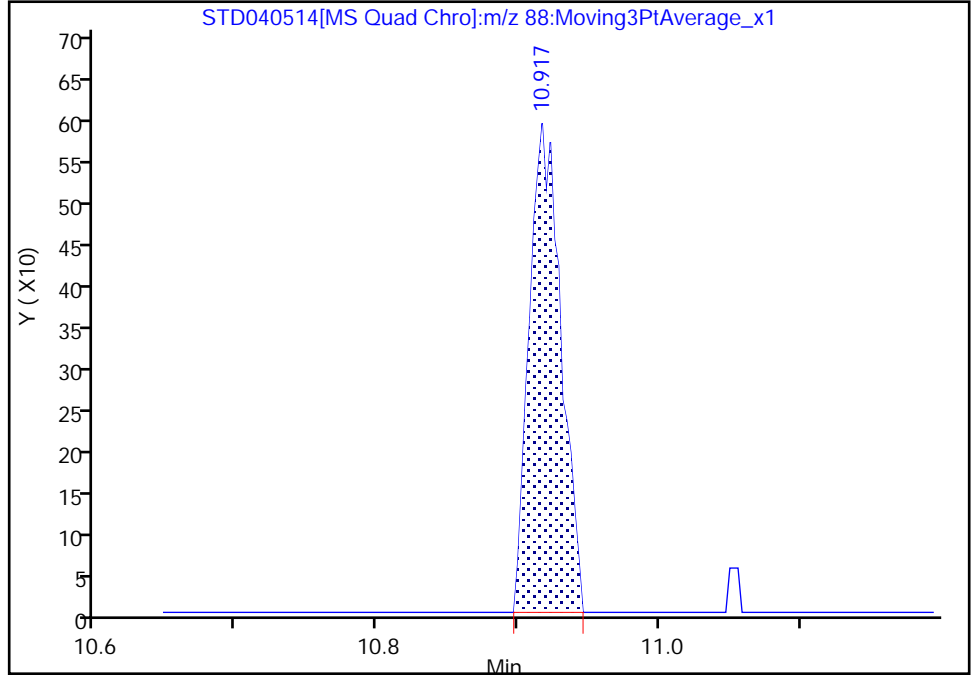
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 2

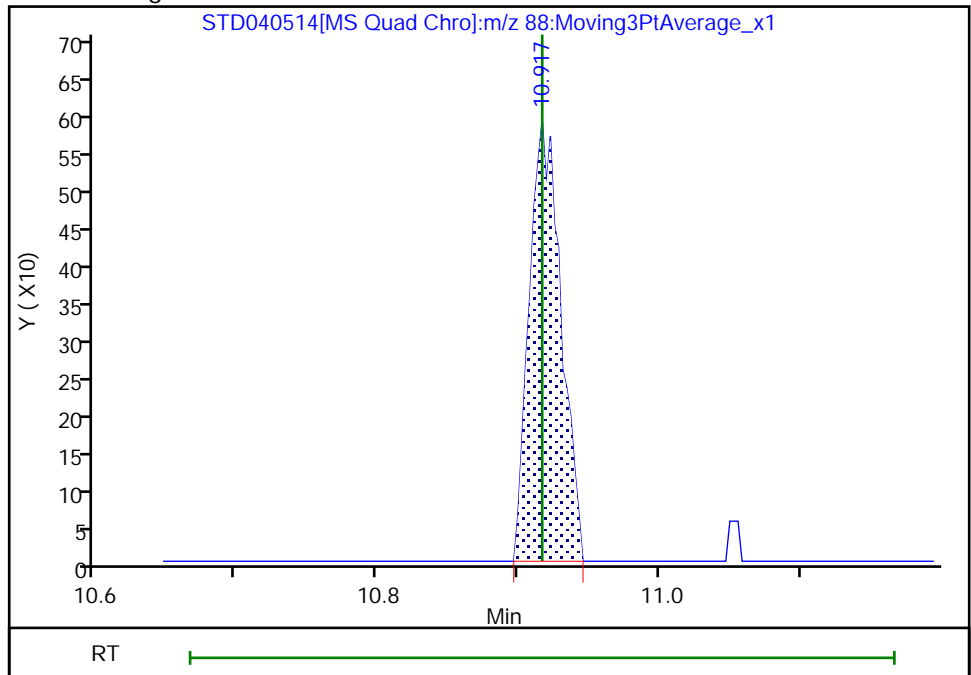
RT: 10.92
Area: 922
Amount: 1.681121
Amount Units: ug/l

Processing Integration Results



RT: 10.92
Area: 922
Amount: 2.289737
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:39:28
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

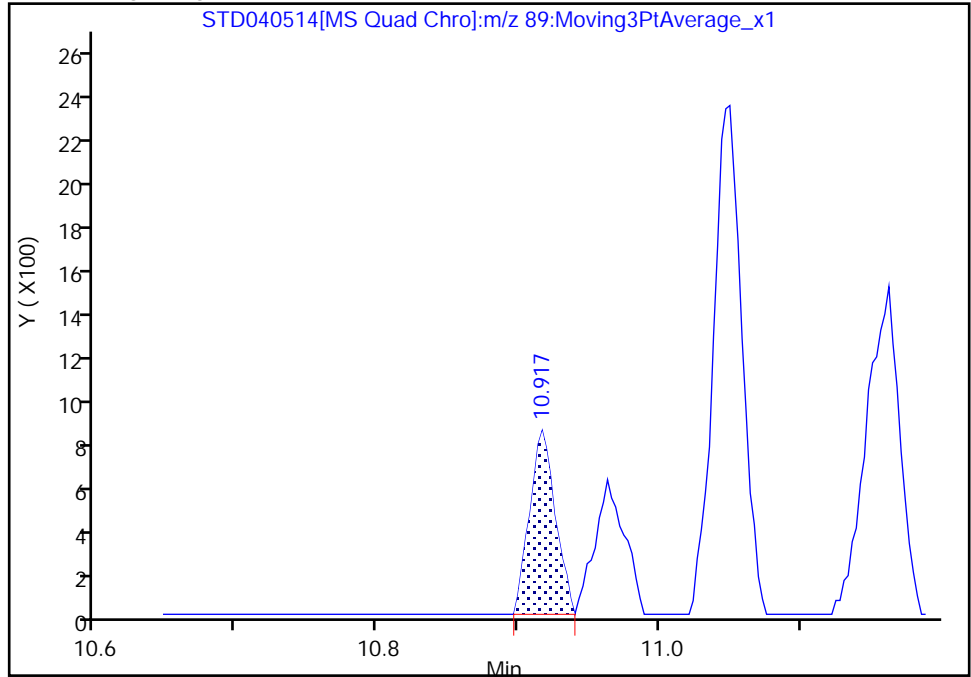
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 3

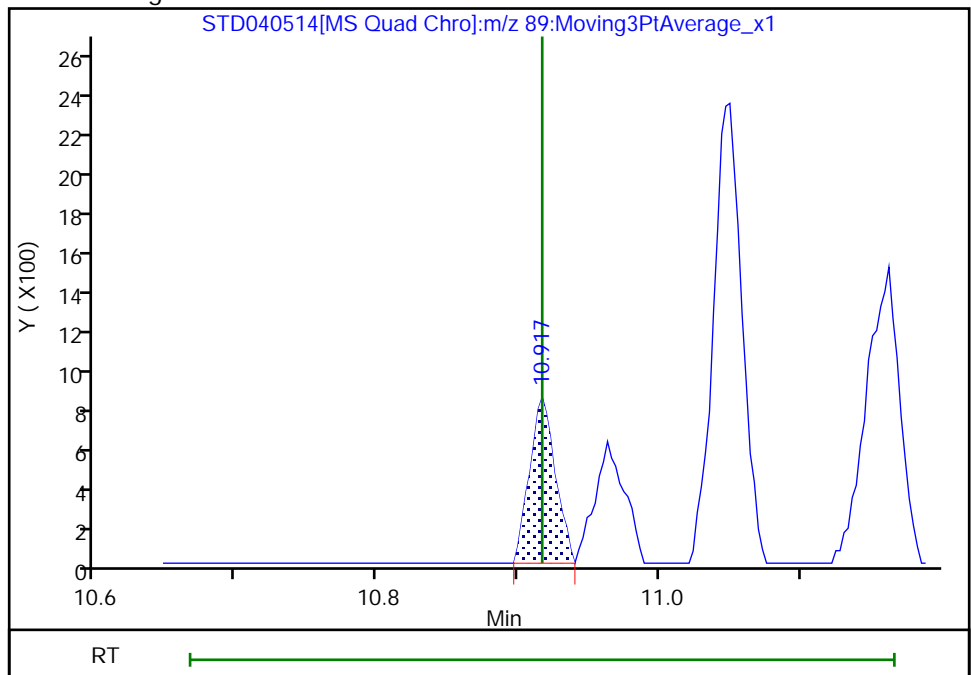
RT: 10.92
Area: 1050
Amount: 1.681121
Amount Units: ug/l

Processing Integration Results



RT: 10.92
Area: 1050
Amount: 2.289737
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D

Injection Date: 14-May-2022 10:44:59

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

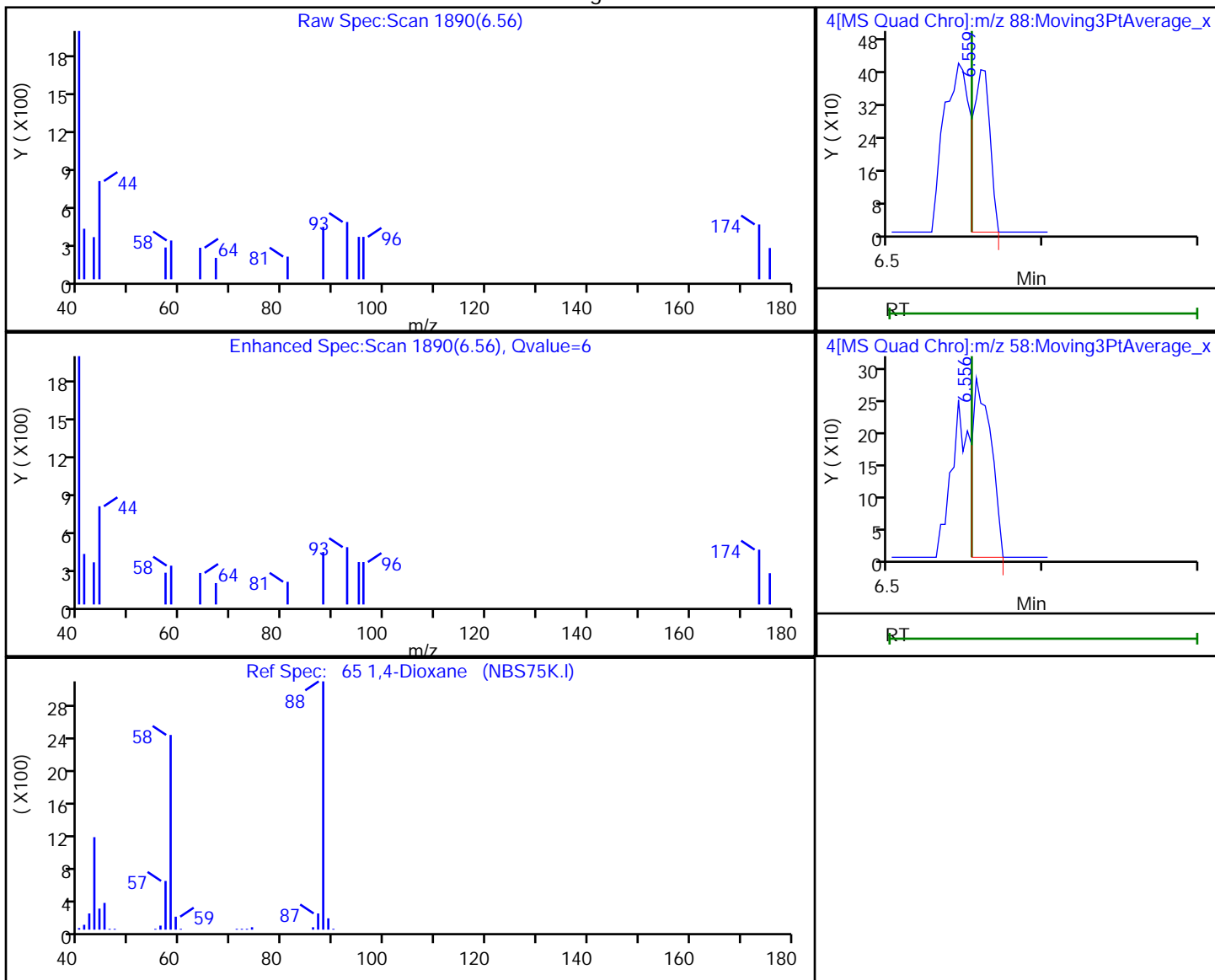
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.56	88.00	306	38.312329
6.56	58.00	233	

Reviewer: ficarello, 17-May-2022 09:31:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D

Injection Date: 14-May-2022 10:44:59

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

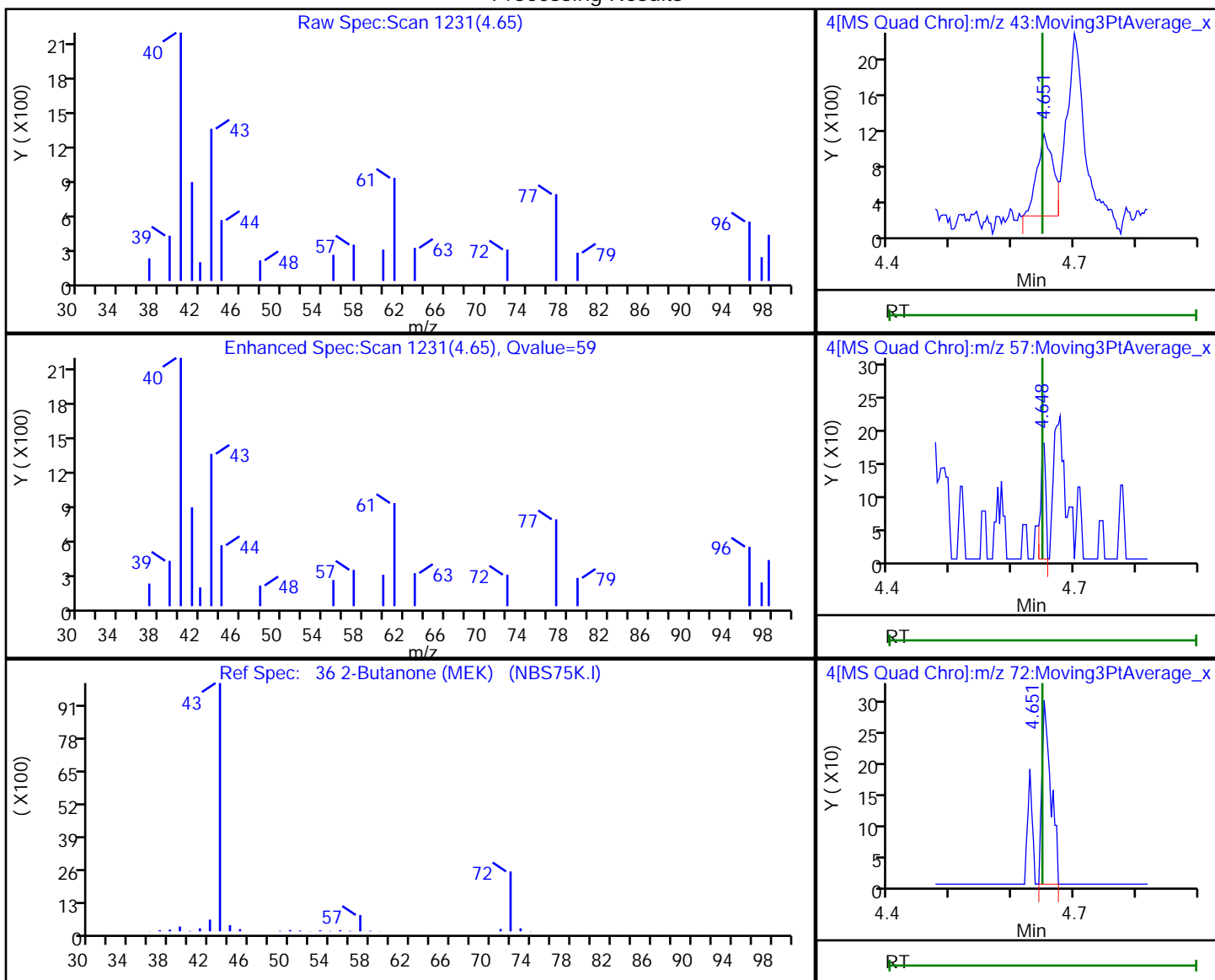
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.65	43.00	1672	2.166731
4.65	57.00	102	
4.65	72.00	298	

Reviewer: ficarellp, 17-May-2022 07:59:49

Audit Action: Marked Compound Undetected

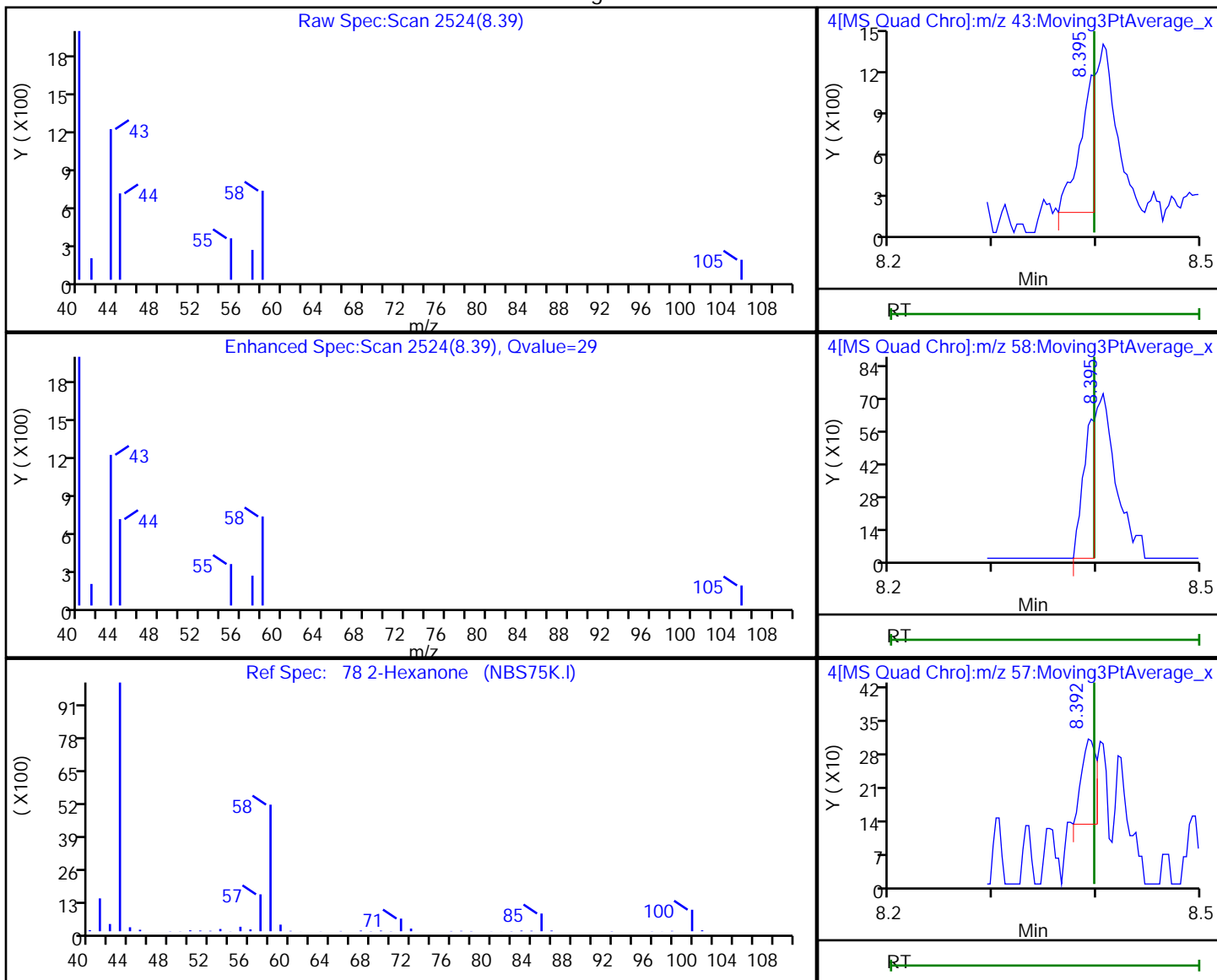
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
 Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

78 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.39	43.00	998	1.386150
8.39	58.00	494	
8.39	57.00	175	

Reviewer: ficarellp, 17-May-2022 08:00:04
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D

Injection Date: 14-May-2022 10:44:59

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

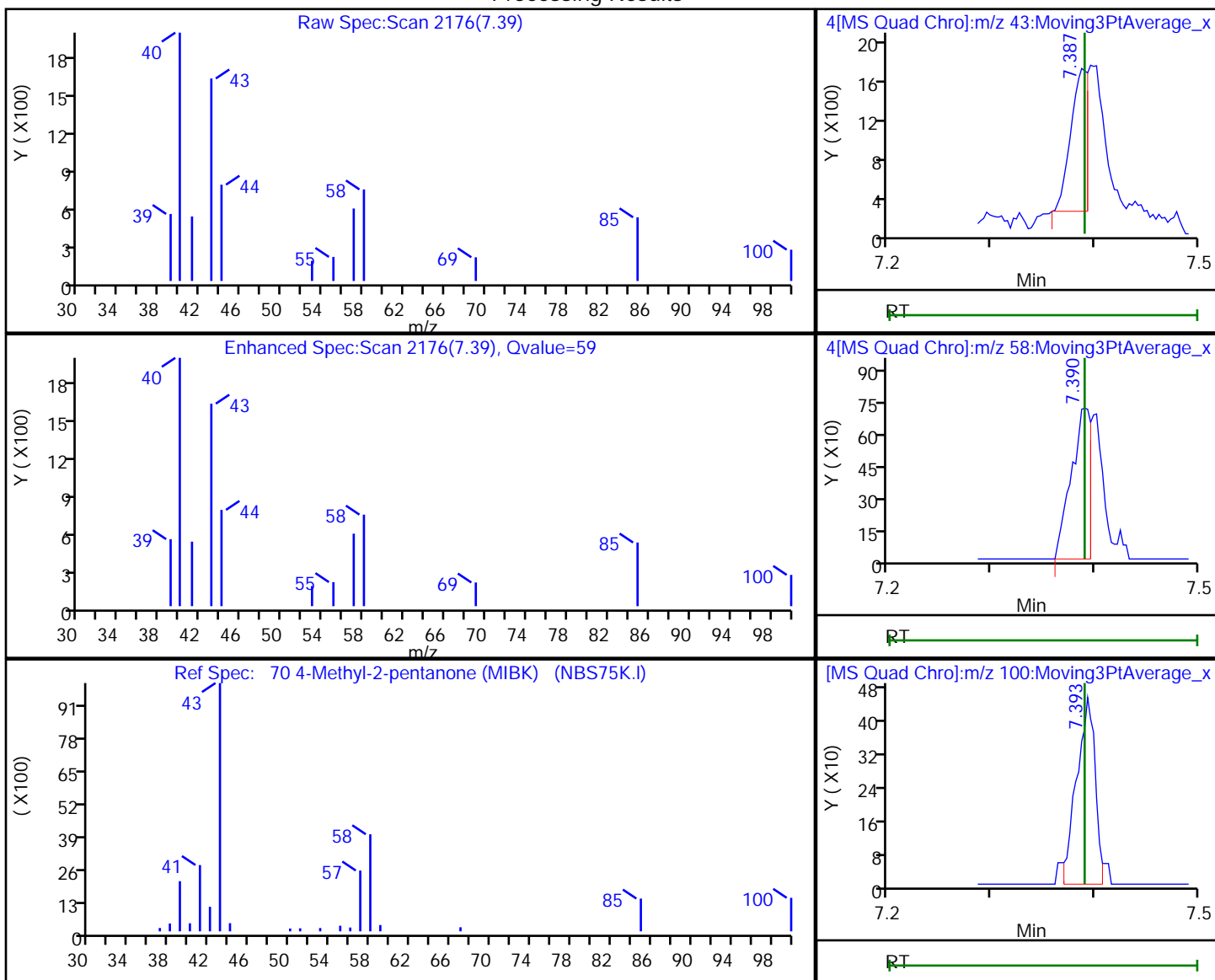
Column: DB624 (0.20 mm)

Detector

MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.39	43.00	1694	1.804037
7.39	58.00	935	
7.39	100.00	568	

Reviewer: ficarellp, 17-May-2022 08:00:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D

Injection Date: 14-May-2022 10:44:59

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

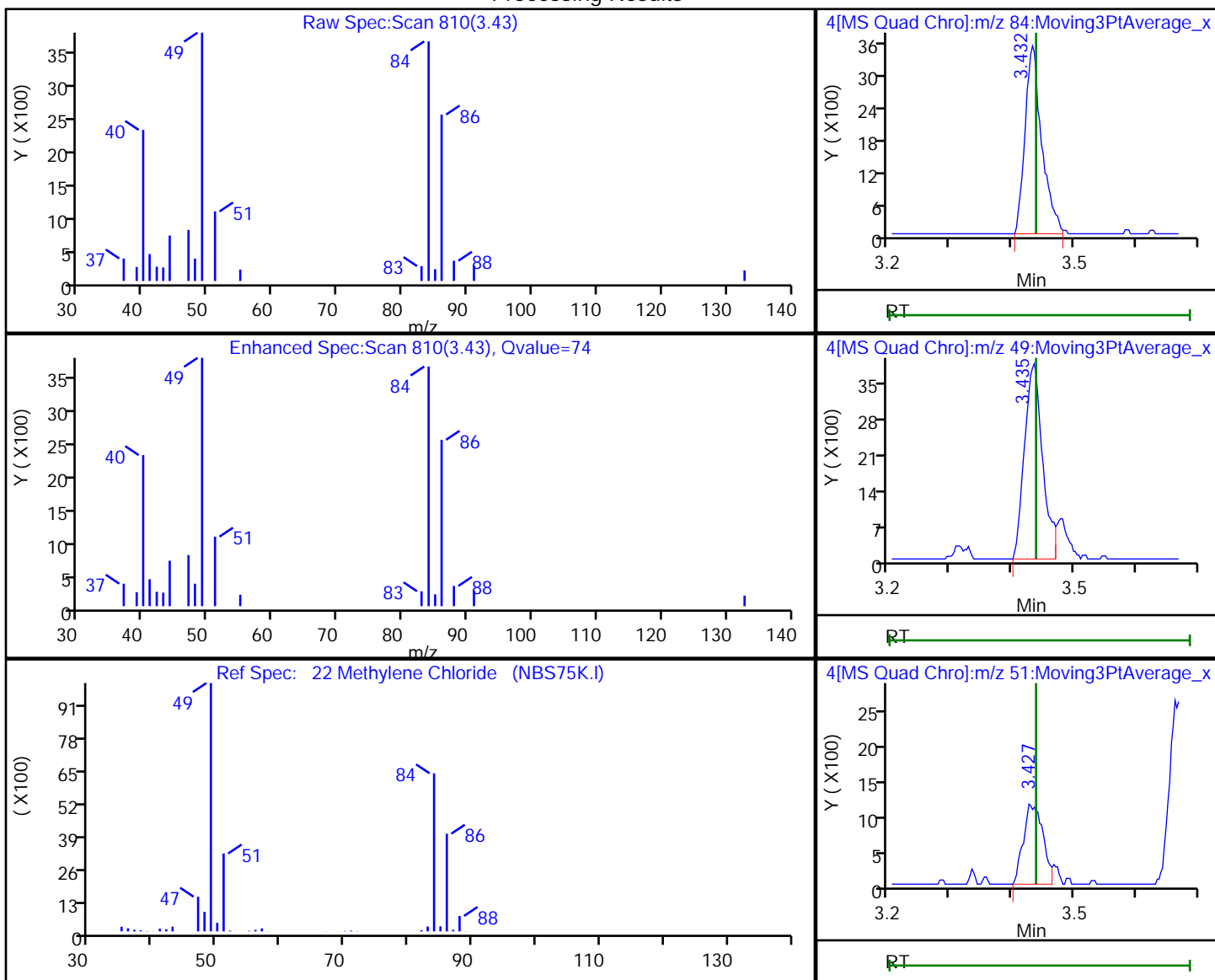
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.43	84.00	6672	2.420826
3.44	49.00	7843	
3.43	51.00	2504	

Reviewer: ficarellp, 17-May-2022 07:59:45

Audit Action: Marked Compound Undetected

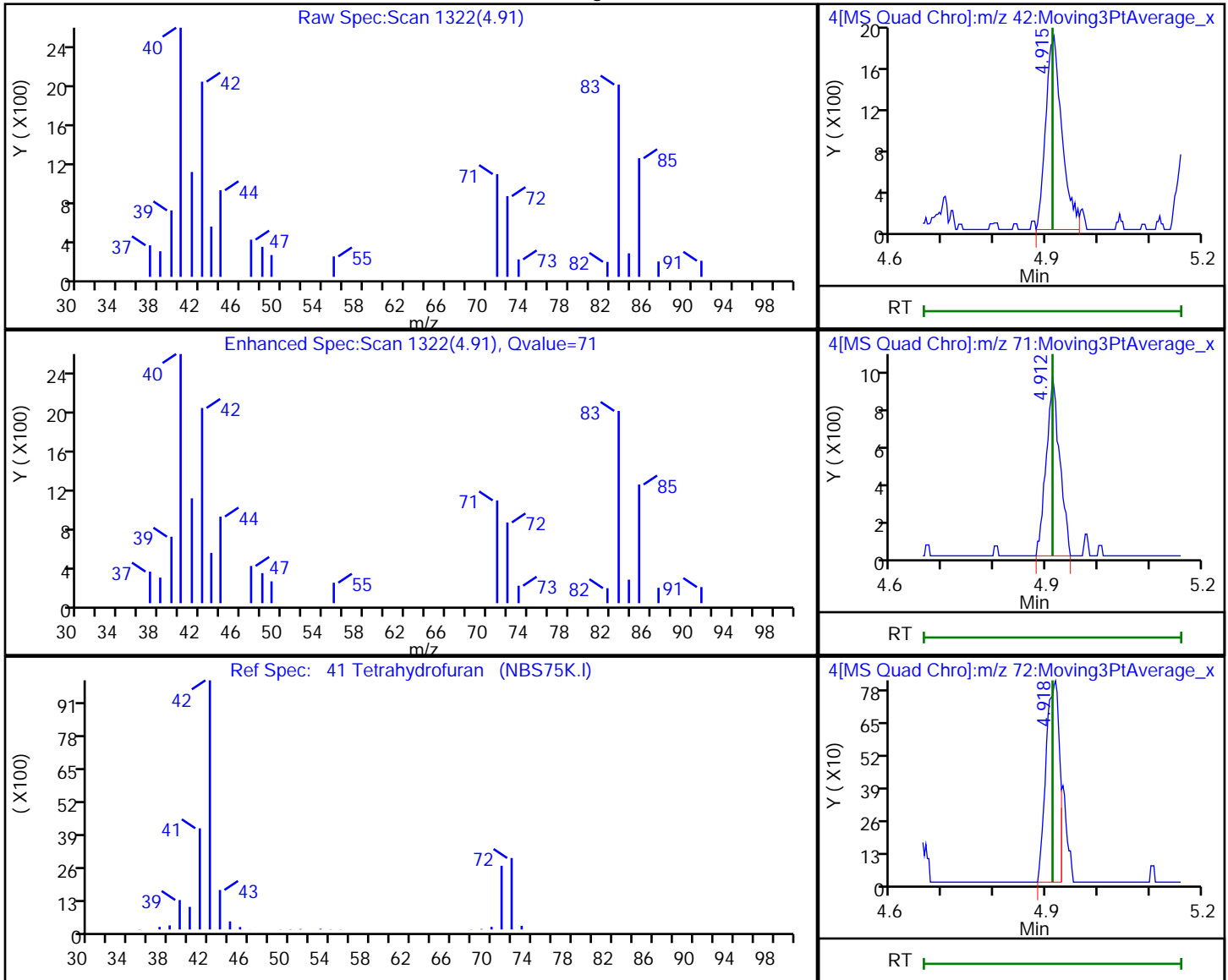
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD040514.D
 Injection Date: 14-May-2022 10:44:59 Instrument ID: CMS29
 Lims ID: STD04
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
4.91	42.00	4118	3.283918
4.91	71.00	1668	
4.92	72.00	1460	

Reviewer: ficarellp, 17-May-2022 09:30:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD050514.D
 Lims ID: STD05
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-May-2022 11:08:23 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD05
 Misc. Info.: 500-0085710-007
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:18 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 14-May-2022 12:23:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.588	1.594	-0.006	79	12385	5.00	4.88	
2 Chloromethane	50	1.797	1.802	-0.005	78	15416	5.00	4.98	Ma
3 Vinyl chloride	62	1.907	1.912	-0.005	59	17174	5.00	5.08	M
4 Butadiene	39	1.915	1.918	-0.003	93	13891	5.00	4.70	
6 Bromomethane	94	2.205	2.210	-0.005	90	12363	5.00	5.15	
7 Chloroethane	64	2.269	2.280	-0.011	88	12565	5.00	5.17	
8 Dichlorofluoromethane	67	2.486	2.497	-0.011	80	23203	5.00	5.02	M
9 Trichlorofluoromethane	101	2.503	2.506	-0.003	63	21654	5.00	4.74	M
11 Ethyl ether	59	2.790	2.795	-0.005	87	9823	5.00	5.37	
12 Acrolein	56	2.911	2.914	-0.003	92	35172	200.0	200.3	
13 1,1-Dichloroethene	96	2.989	2.995	-0.006	86	14176	5.00	5.11	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.010	3.021	-0.011	72	15067	5.00	5.06	
15 Acetone	43	3.059	3.059	0.000	79	3301	5.00	4.33	
16 Iodomethane	142	3.131	3.134	-0.003	98	28542	5.00	5.01	
17 Carbon disulfide	76	3.192	3.195	-0.003	98	47853	5.00	5.38	
20 3-Chloro-1-propene	76	3.325	3.328	-0.003	87	7889	5.00	4.68	
21 Methyl acetate	43	3.351	3.351	0.000	95	12809	10.0	9.90	
22 Methylene Chloride	84	3.435	3.438	-0.003	83	14437	5.00	5.38	
* 23 TBA-d9 (IS)	65	3.485	3.482	0.003	0	216496	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.560	0.000	93	12764	50.0	52.0	
25 Acrylonitrile	53	3.670	3.670	0.000	98	33685	50.0	50.8	
26 trans-1,2-Dichloroethene	96	3.690	3.690	0.000	79	15060	5.00	4.64	
27 Methyl tert-butyl ether	73	3.693	3.696	-0.003	88	33335	5.00	4.77	
28 Hexane	57	3.939	3.939	0.000	91	22038	5.00	4.97	
29 1,1-Dichloroethane	63	4.081	4.084	-0.003	84	24555	5.00	5.30	
30 Vinyl acetate	43	4.127	4.127	0.000	99	21751	5.00	5.02	
35 cis-1,2-Dichloroethene	96	4.631	4.631	0.000	82	15984	5.00	5.07	
34 2,2-Dichloropropane	77	4.634	4.631	0.003	64	16861	5.00	5.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.651	4.648	0.003	59	4273	5.00	5.57	
40 Chlorobromomethane	128	4.863	4.863	0.000	81	8701	5.00	5.17	
41 Tetrahydrofuran	42	4.915	4.912	0.003	80	6956	10.0	7.78	
42 Chloroform	83	4.935	4.938	-0.003	83	25499	5.00	4.98	
\$ 43 Dibromofluoromethane	113	5.094	5.097	-0.003	72	27396	10.0	9.81	
44 1,1,1-Trichloroethane	97	5.123	5.126	-0.003	89	22684	5.00	5.29	
45 Cyclohexane	56	5.181	5.181	0.000	87	23329	5.00	5.40	
47 1,1-Dichloropropene	75	5.283	5.285	-0.002	87	19891	5.00	5.21	
46 Carbon tetrachloride	117	5.288	5.288	0.000	77	21612	5.00	4.99	
48 Isobutyl alcohol	43	5.393	5.392	0.001	90	12021	125.0	125.9	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.439	-0.003	69	22006	10.0	9.66	
50 Benzene	78	5.497	5.500	-0.003	95	53630	5.00	4.92	
51 1,2-Dichloroethane	62	5.517	5.514	0.003	87	14962	5.00	4.89	
54 n-Heptane	43	5.755	5.757	-0.003	57	19112	5.00	5.03	a
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	492251	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	82	18385	5.00	5.15	
59 Methylcyclohexane	83	6.368	6.371	-0.003	89	25765	5.00	5.22	
60 1,2-Dichloropropane	63	6.406	6.409	-0.003	86	12455	5.00	5.04	
* 62 1,4-Dioxane-d8	96	6.496	6.493	0.003	0	16412	1000.0	1000.0	M
63 Dibromomethane	93	6.539	6.536	0.003	80	8287	5.00	5.25	
65 1,4-Dioxane	88	6.557	6.553	0.004	20	1987	100.0	108.0	M
66 Dichlorobromomethane	83	6.704	6.707	-0.003	87	17930	5.00	5.04	
68 2-Chloroethyl vinyl ether	63	7.046	7.043	0.003	70	5414	5.00	4.62	
69 cis-1,3-Dichloropropene	75	7.214	7.214	0.000	83	19637	5.00	4.89	
70 4-Methyl-2-pentanone (MIBK)	43	7.393	7.390	0.003	74	9555	5.00	5.38	a
\$ 71 Toluene-d8 (Surr)	98	7.524	7.523	0.001	92	85306	10.0	8.75	
72 Toluene	92	7.602	7.602	0.000	92	32537	5.00	4.72	
73 trans-1,3-Dichloropropene	75	7.865	7.865	0.000	85	17839	5.00	5.04	
74 Ethyl methacrylate	69	7.975	7.975	0.000	88	14228	5.00	5.15	
75 1,1,2-Trichloroethane	97	8.085	8.088	-0.003	80	9769	5.00	4.90	
76 Tetrachloroethene	166	8.259	8.259	0.000	92	17269	5.00	4.87	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	82	16220	5.00	4.98	
78 2-Hexanone	43	8.398	8.398	0.000	91	6396	5.00	5.24	
79 Chlorodibromomethane	129	8.569	8.572	-0.003	79	14501	5.00	4.87	
81 Ethylene Dibromide	107	8.714	8.713	0.001	85	10226	5.00	4.82	a
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	368848	50.0	50.0	
84 Chlorobenzene	112	9.339	9.342	-0.003	92	38309	5.00	4.82	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	87	16541	5.00	5.10	
86 Ethylbenzene	91	9.487	9.486	0.001	97	59316	5.00	4.60	
87 m-Xylene & p-Xylene	91	9.640	9.640	0.000	99	44245	5.00	4.40	
88 o-Xylene	91	10.118	10.118	0.000	91	47366	5.00	4.49	
89 Styrene	104	10.135	10.135	0.000	94	38704	5.00	4.32	
90 Bromoform	173	10.338	10.341	-0.003	88	9272	5.00	4.90	
91 Isopropylbenzene	105	10.532	10.535	-0.003	94	63525	5.00	5.26	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.697	0.000	93	26525	10.0	10.4	
95 Bromobenzene	156	10.850	10.850	0.000	80	17330	5.00	5.33	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.856	0.000	85	13003	5.00	5.24	
97 1,2,3-Trichloropropane	110	10.900	10.896	0.004	74	4120	5.00	5.91	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	77	3419	5.00	5.51	
99 N-Propylbenzene	91	10.966	10.966	0.000	97	70635	5.00	5.18	
100 2-Chlorotoluene	91	11.047	11.050	-0.003	93	37873	5.00	5.05	
101 1,3,5-Trimethylbenzene	105	11.146	11.145	0.001	94	52311	5.00	5.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	96	44621	5.00	4.86	
104 tert-Butylbenzene	119	11.458	11.458	0.000	87	49396	5.00	5.00	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.001	93	51573	5.00	4.88	
107 sec-Butylbenzene	105	11.664	11.664	0.000	91	71019	5.00	5.01	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	95	33132	5.00	4.91	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	95	64047	5.00	4.95	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	215686	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	92	34757	5.00	4.95	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	54874	5.00	5.00	
114 1,2-Dichlorobenzene	146	12.171	12.170	0.001	96	31508	5.00	4.77	
116 1,2-Dibromo-3-Chloropropane	75	12.819	12.819	0.000	28	2125	5.00	5.36	
118 1,2,4-Trichlorobenzene	180	13.459	13.462	-0.003	89	22182	5.00	5.02	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	89	11930	5.00	5.16	
120 Naphthalene	128	13.647	13.650	-0.003	98	43624	5.00	5.26	
121 1,2,3-Trichlorobenzene	180	13.830	13.829	0.001	90	19220	5.00	5.25	
S 124 Xylenes, Total	1				0			8.89	
S 125 Trihalomethanes, Total	1				0			19.8	
S 126 1,2-Dichloroethene, Total	1				0			9.72	
S 127 Trimethylbenzene, Total	1				0			9.89	
S 128 1,3-Dichloropropene, Total	1				0			9.94	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOW8260ACR_00316	Amount Added: 5.00	Units: uL
LO8260/624STD_00531	Amount Added: 5.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL
8260 LOWSS1_00193	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD050514.D

Injection Date: 14-May-2022 11:08:23

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD05

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

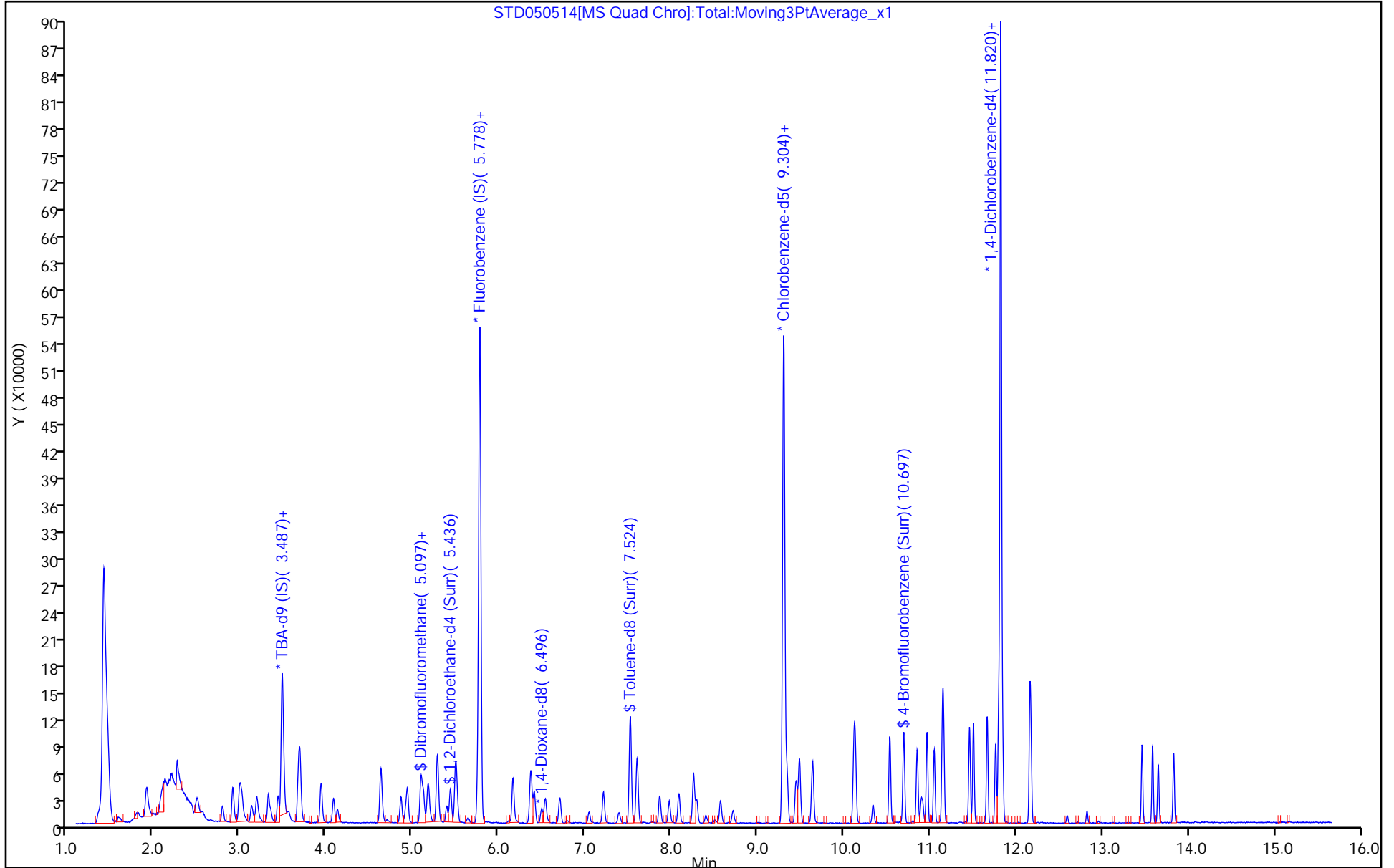
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

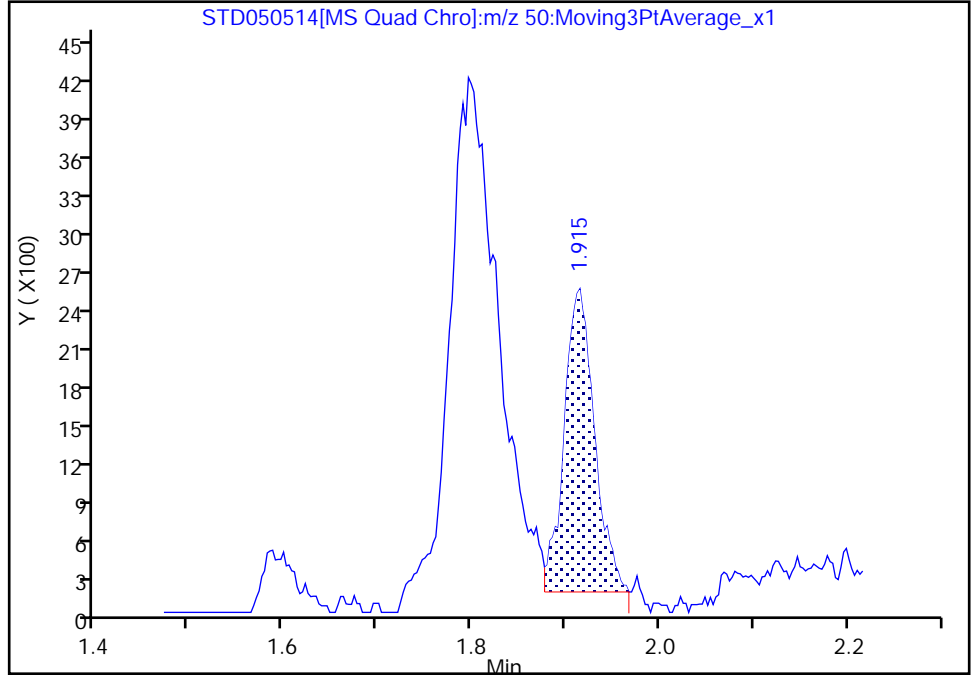
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

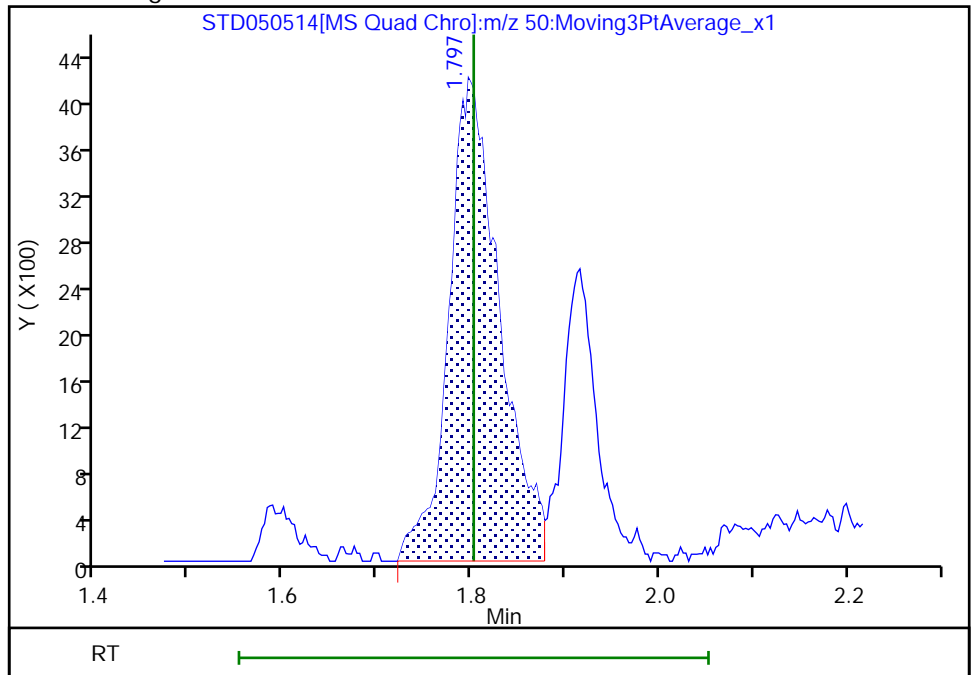
RT: 1.92
Area: 5225
Amount: 1.886179
Amount Units: ug/l

Processing Integration Results



RT: 1.80
Area: 15416
Amount: 4.977312
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:10:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

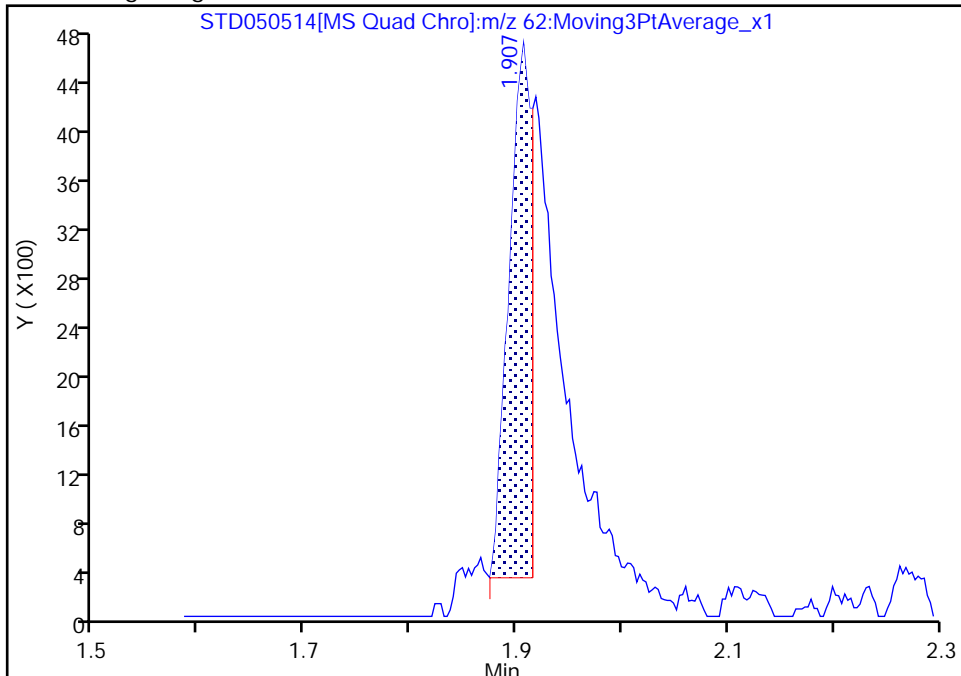
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

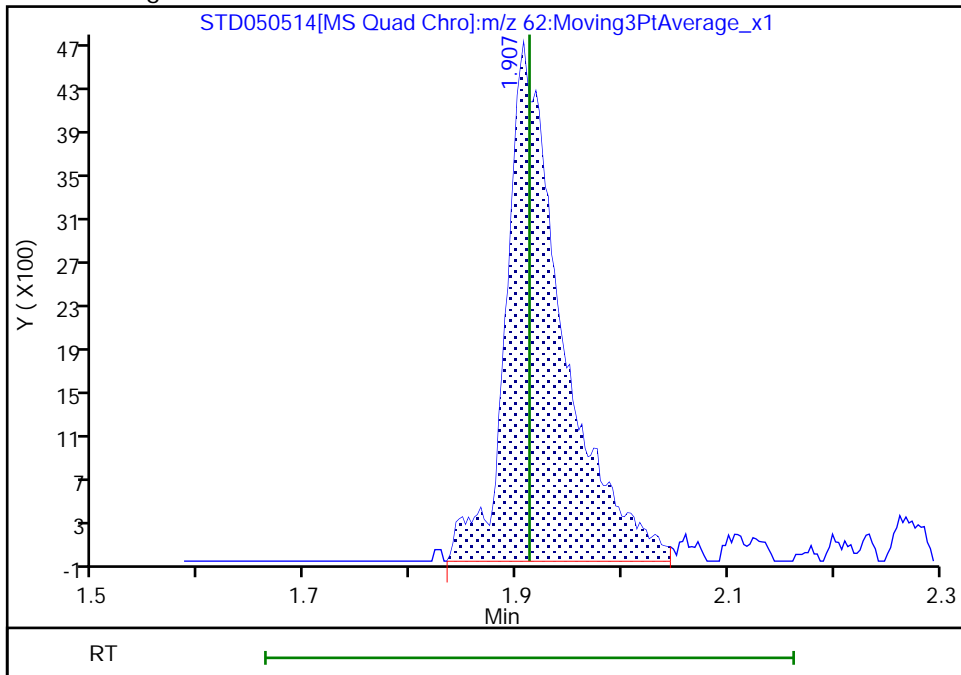
RT: 1.91
Area: 6425
Amount: 2.458520
Amount Units: ug/l

Processing Integration Results



RT: 1.91
Area: 17174
Amount: 5.078241
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 14-May-2022 12:23:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

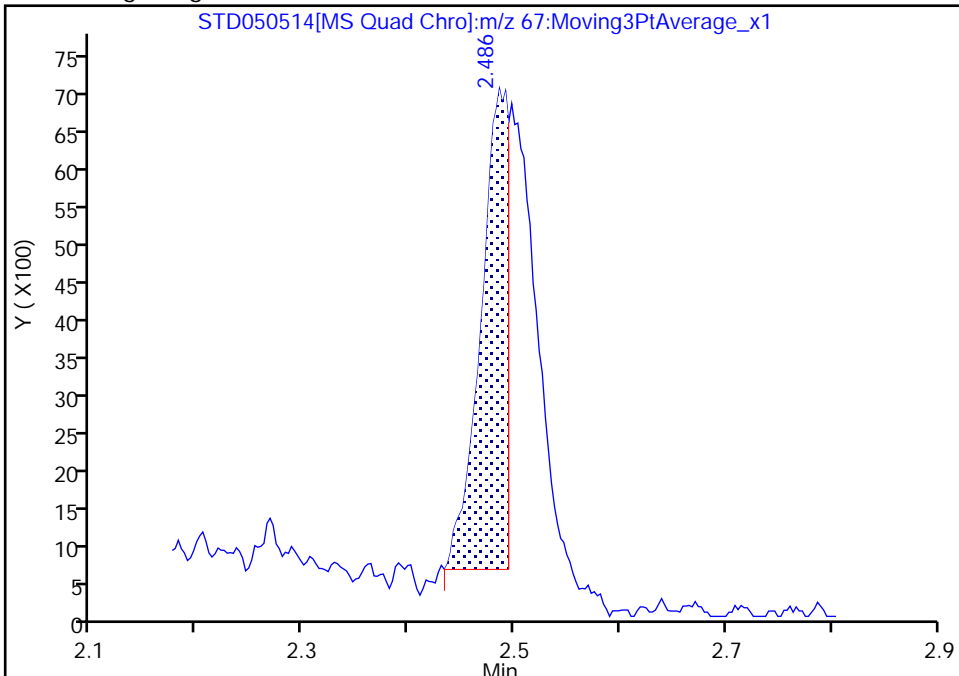
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

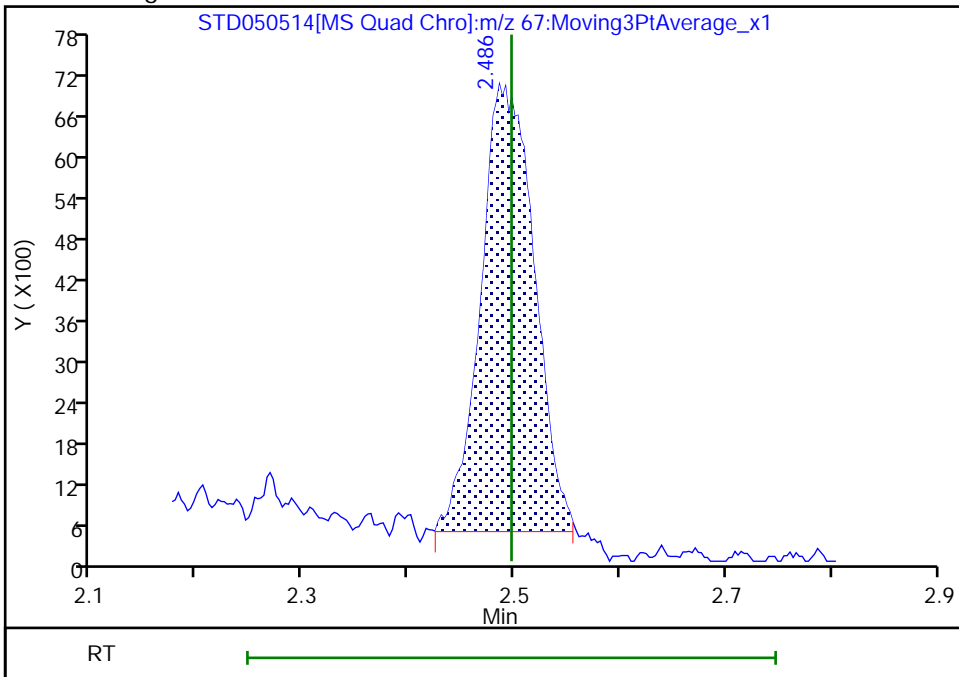
RT: 2.49
Area: 11531
Amount: 3.237164
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 23203
Amount: 5.022850
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:10:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

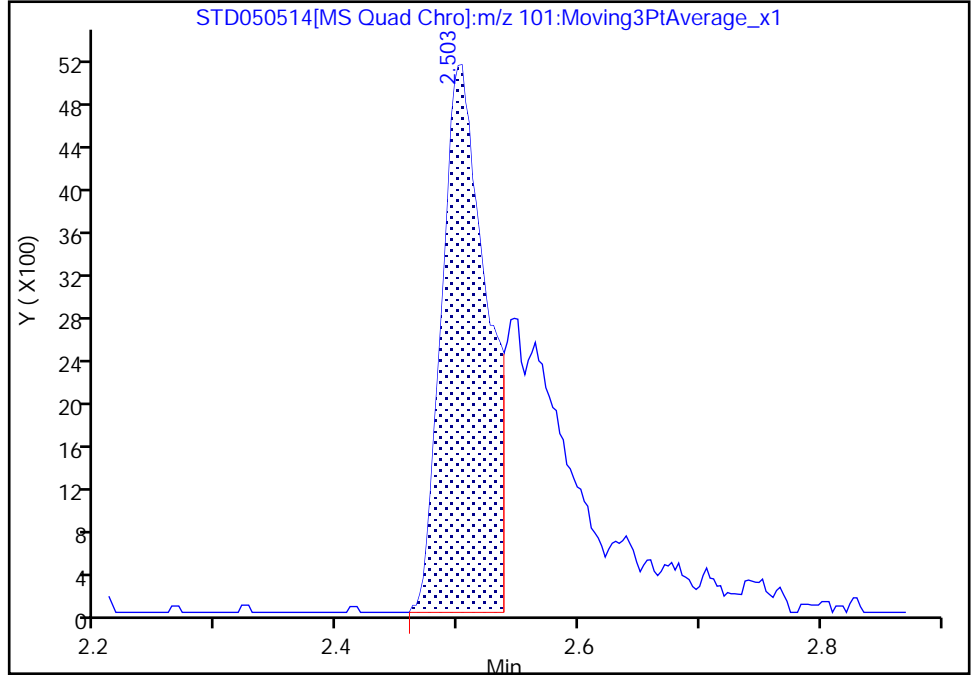
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

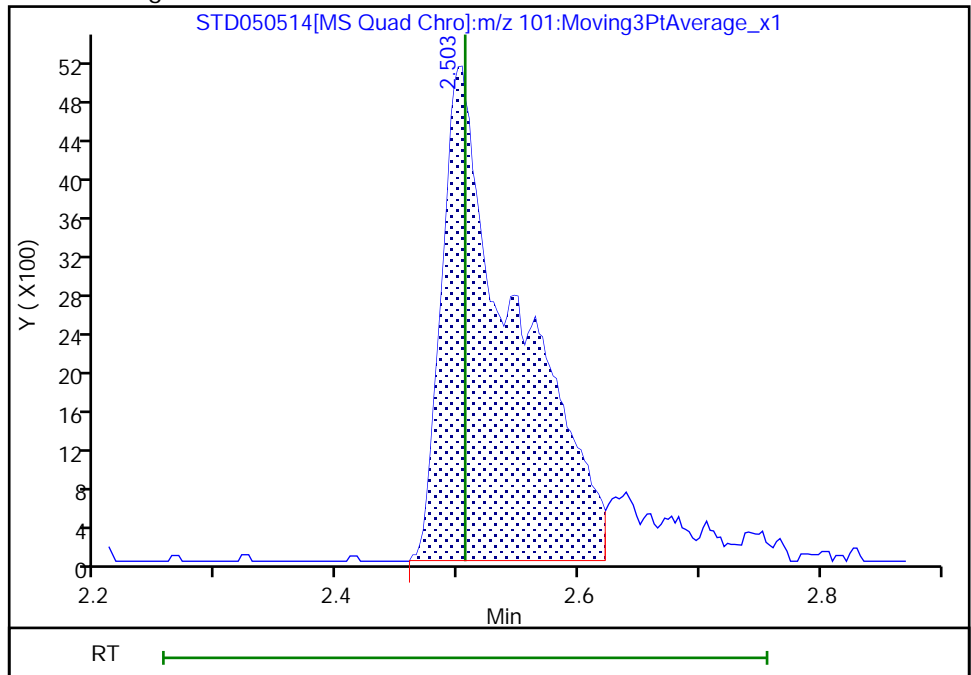
RT: 2.50
Area: 13060
Amount: 4.124927
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 21654
Amount: 4.735621
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:11:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

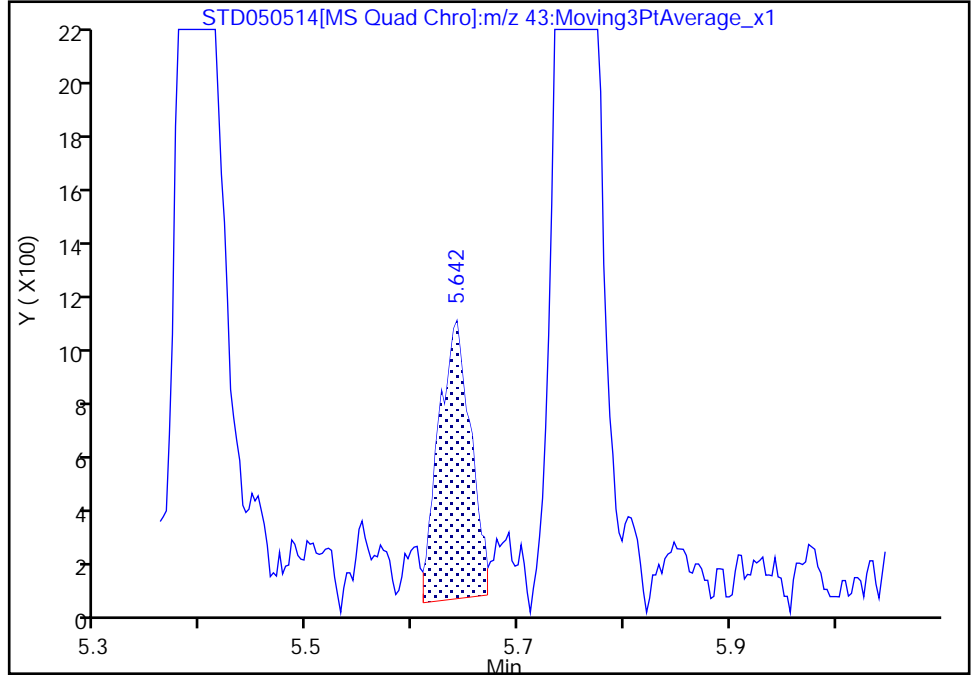
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

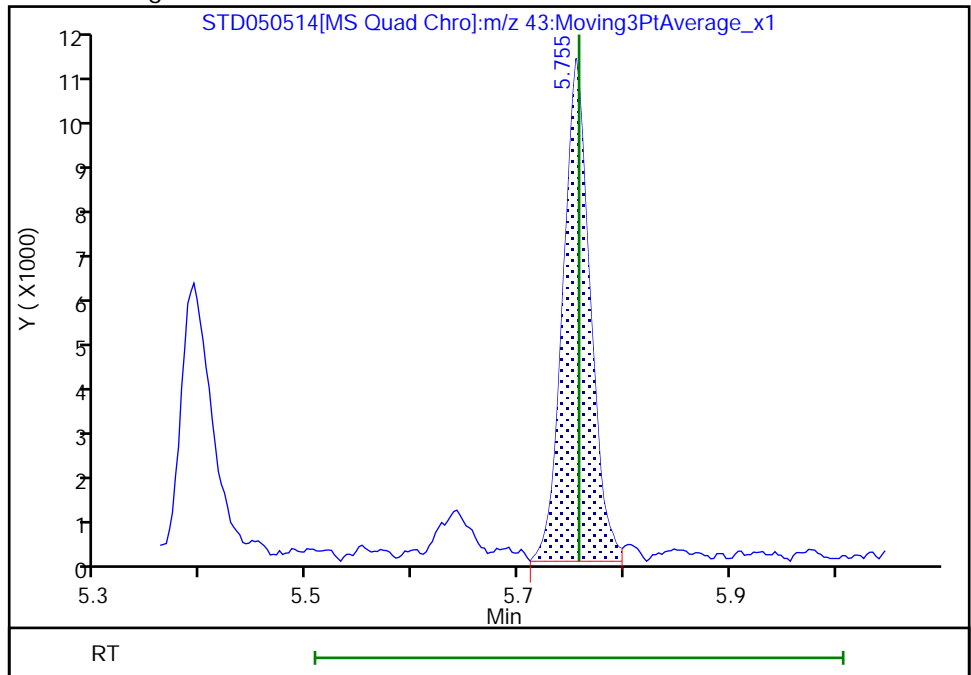
RT: 5.64
Area: 2177
Amount: 0.644586
Amount Units: ug/l

Processing Integration Results



RT: 5.75
Area: 19112
Amount: 5.028499
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:11:22
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

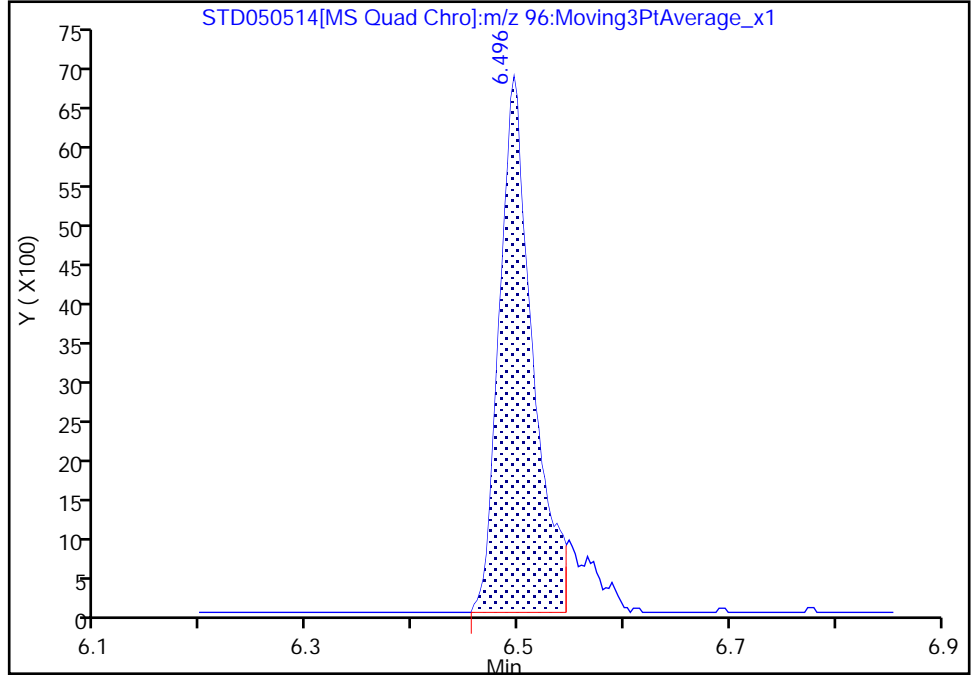
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD050514.D
Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

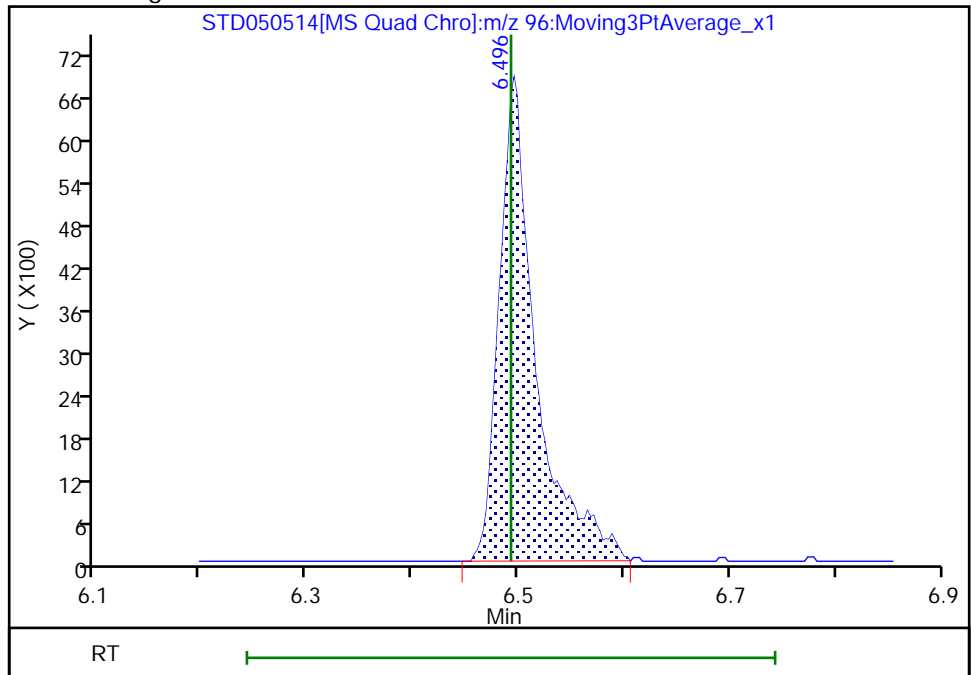
RT: 6.50
Area: 14840
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 16412
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:22:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

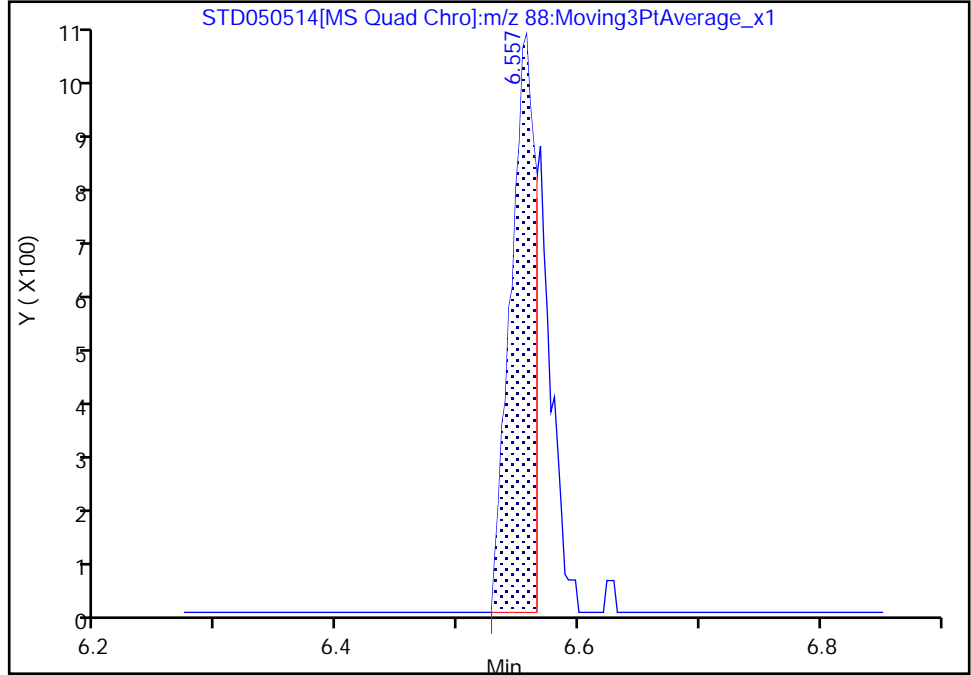
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

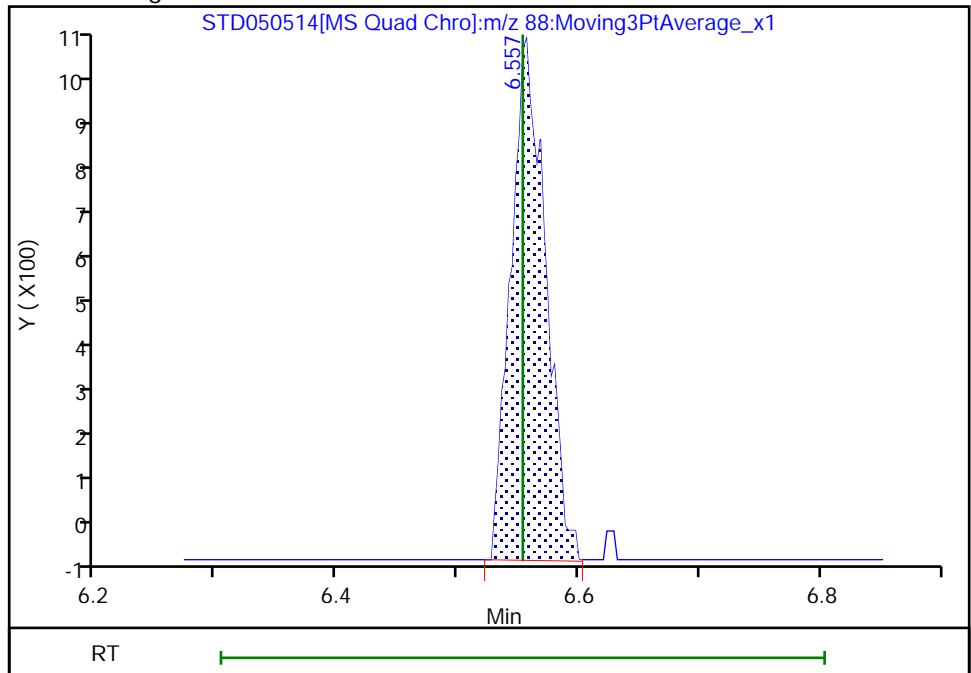
RT: 6.56
Area: 1396
Amount: 74.374485
Amount Units: ug/l

Processing Integration Results



RT: 6.56
Area: 1987
Amount: 108.0391
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

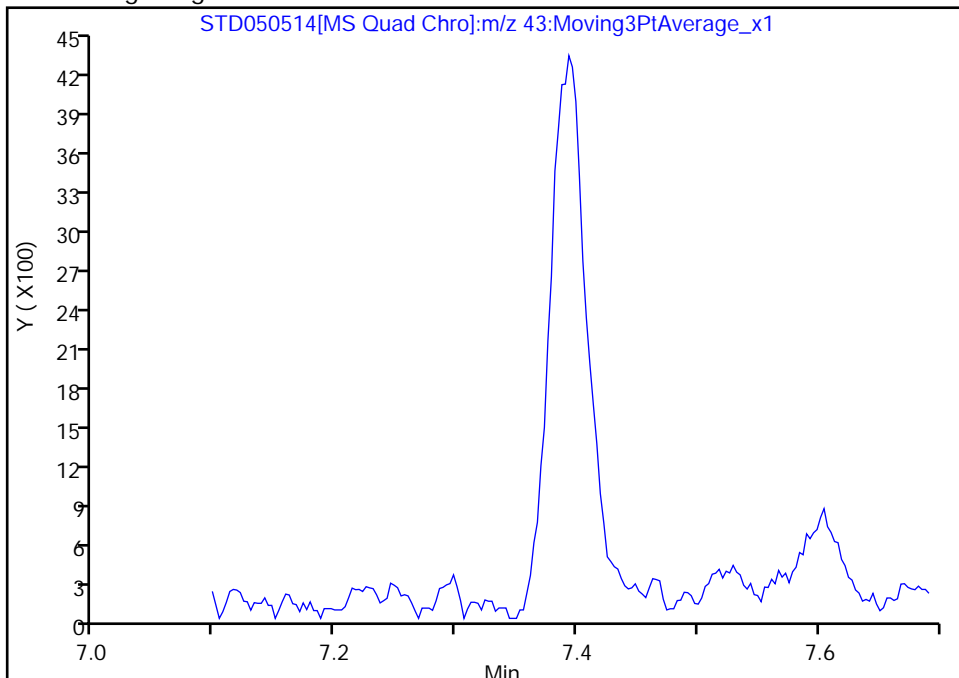
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD050514.D
Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

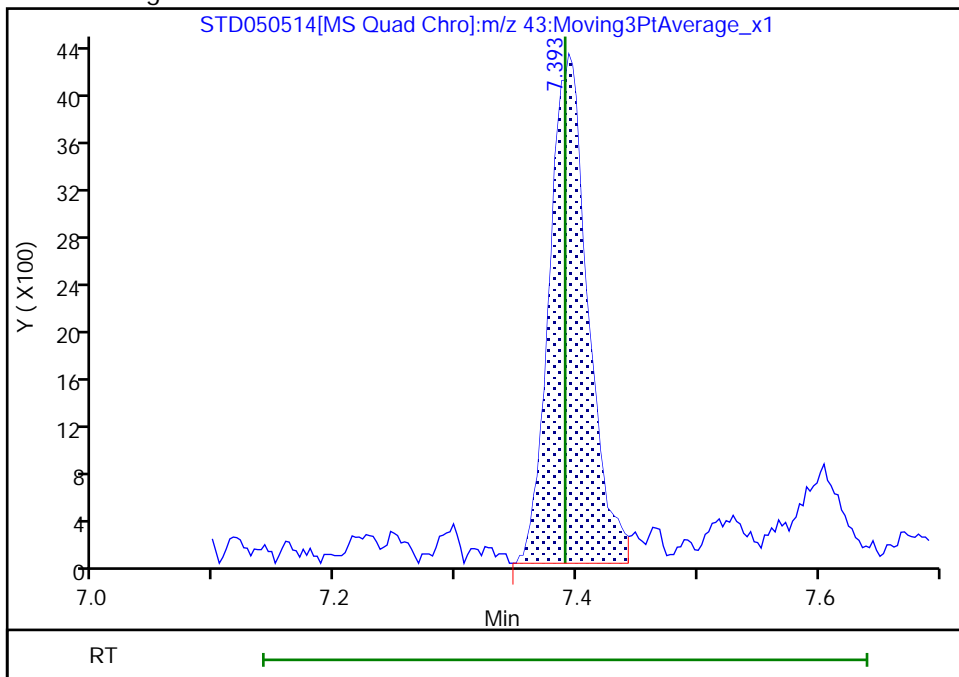
Not Detected
Expected RT: 7.39

Processing Integration Results



RT: 7.39
Area: 9555
Amount: 5.380670
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:12:02
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

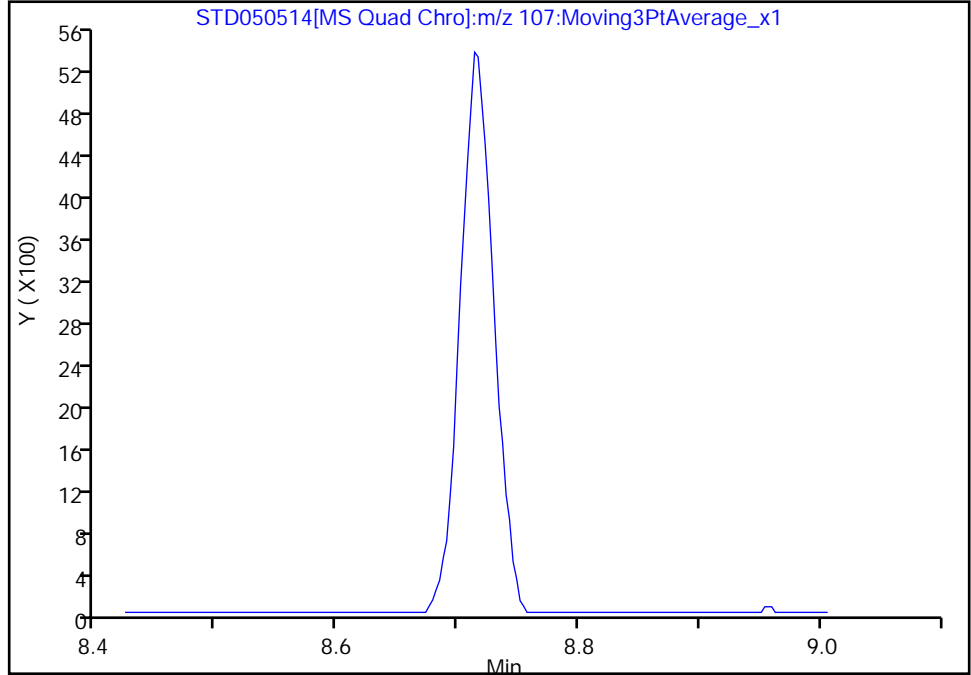
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Injection Date: 14-May-2022 11:08:23 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

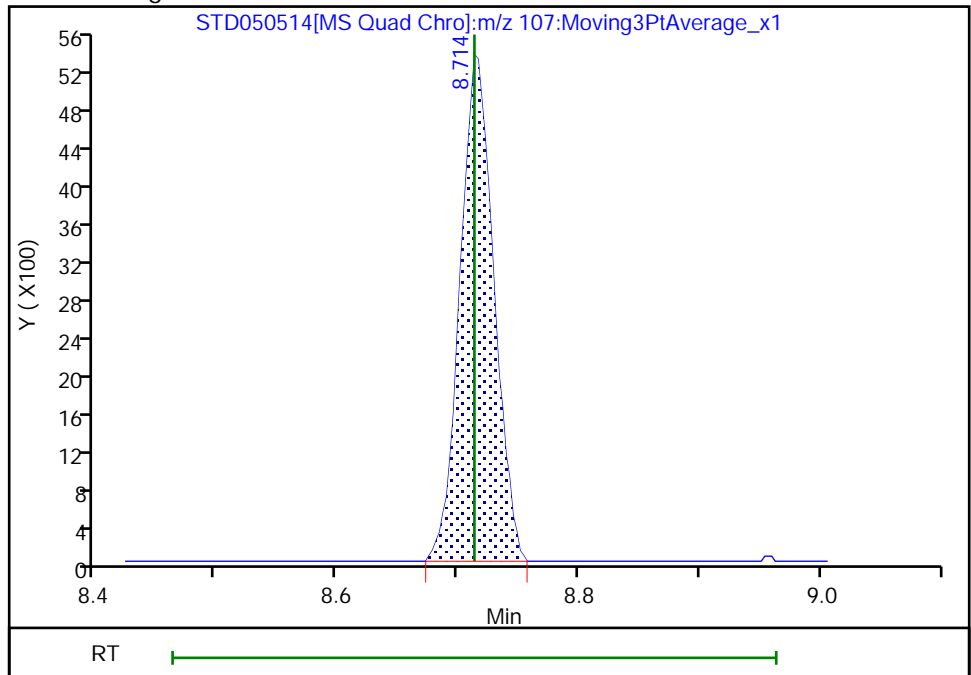
Not Detected
Expected RT: 8.71

Processing Integration Results



RT: 8.71
Area: 10226
Amount: 4.818198
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:12:09
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD060514.D
 Lims ID: STD06
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-May-2022 11:32:01 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD06
 Misc. Info.: 500-0085710-008
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:26 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date: 17-May-2022 08:21:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.585	1.594	-0.009	86	44565	20.0	17.6	
2 Chloromethane	50	1.796	1.802	-0.006	88	56643	20.0	19.5	
3 Vinyl chloride	62	1.906	1.912	-0.006	66	63504	20.0	18.8	Ma
4 Butadiene	39	1.909	1.918	-0.009	98	55741	20.0	18.9	
6 Bromomethane	94	2.196	2.210	-0.014	91	44826	20.0	18.7	
7 Chloroethane	64	2.262	2.280	-0.018	94	44412	20.0	18.3	
8 Dichlorofluoromethane	67	2.488	2.497	-0.009	78	98823	20.0	21.4	a
9 Trichlorofluoromethane	101	2.494	2.506	-0.012	68	90159	20.0	19.7	M
11 Ethyl ether	59	2.786	2.795	-0.009	89	38403	20.0	21.0	
12 Acrolein	56	2.908	2.914	-0.006	95	144000	800.0	820.2	
13 1,1-Dichloroethene	96	2.986	2.995	-0.009	89	54969	20.0	19.8	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.009	3.021	-0.012	81	59905	20.0	20.1	
15 Acetone	43	3.059	3.059	0.000	92	10638	20.0	20.6	
16 Iodomethane	142	3.128	3.134	-0.006	97	114953	20.0	20.2	
17 Carbon disulfide	76	3.186	3.195	-0.009	100	179270	20.0	20.1	
20 3-Chloro-1-propene	76	3.319	3.328	-0.009	90	34994	20.0	20.8	
21 Methyl acetate	43	3.345	3.351	-0.006	96	52776	40.0	40.8	
22 Methylene Chloride	84	3.435	3.438	-0.003	86	56540	20.0	21.1	
* 23 TBA-d9 (IS)	65	3.484	3.482	0.002	0	222777	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.557	3.560	-0.003	98	50451	200.0	199.7	
25 Acrylonitrile	53	3.667	3.670	-0.003	99	135855	200.0	204.8	
26 trans-1,2-Dichloroethene	96	3.684	3.690	-0.006	79	60869	20.0	18.8	
27 Methyl tert-butyl ether	73	3.690	3.696	-0.006	89	135887	20.0	19.4	
28 Hexane	57	3.933	3.939	-0.006	91	82245	20.0	18.6	
29 1,1-Dichloroethane	63	4.078	4.084	-0.006	85	93114	20.0	20.1	
30 Vinyl acetate	43	4.124	4.127	-0.003	99	85488	20.0	19.7	
35 cis-1,2-Dichloroethene	96	4.628	4.631	-0.003	84	62700	20.0	19.9	
34 2,2-Dichloropropane	77	4.628	4.631	-0.003	66	65086	20.0	20.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.648	4.648	0.000	68	15417	20.0	20.1	
40 Chlorobromomethane	128	4.859	4.863	-0.004	84	34571	20.0	20.6	
41 Tetrahydrofuran	42	4.912	4.912	0.000	87	23716	40.0	43.9	
42 Chloroform	83	4.935	4.938	-0.003	81	99540	20.0	22.5	
\$ 43 Dibromofluoromethane	113	5.094	5.097	-0.003	78	58071	20.0	20.8	
44 1,1,1-Trichloroethane	97	5.120	5.126	-0.006	90	87428	20.0	20.4	
45 Cyclohexane	56	5.178	5.181	-0.003	89	85913	20.0	19.9	
47 1,1-Dichloropropene	75	5.282	5.285	-0.003	92	76769	20.0	20.1	
46 Carbon tetrachloride	117	5.285	5.288	-0.003	84	85377	20.0	19.7	
48 Isobutyl alcohol	43	5.389	5.392	-0.003	91	49397	500.0	502.9	M
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.439	-0.006	73	46806	20.0	20.6	
50 Benzene	78	5.496	5.500	-0.004	95	209296	20.0	19.2	
51 1,2-Dichloroethane	62	5.514	5.514	0.000	87	61305	20.0	20.1	
54 n-Heptane	43	5.754	5.757	-0.003	86	75863	20.0	20.0	
* 55 Fluorobenzene (IS)	96	5.777	5.778	-0.001	99	492155	50.0	50.0	
57 Trichloroethene	130	6.162	6.163	-0.001	85	72912	20.0	20.4	
59 Methylcyclohexane	83	6.368	6.371	-0.003	90	100866	20.0	20.4	
60 1,2-Dichloropropane	63	6.408	6.409	-0.001	93	50853	20.0	20.6	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	17641	1000.0	1000.0	M
63 Dibromomethane	93	6.536	6.536	0.000	87	33006	20.0	20.9	
65 1,4-Dioxane	88	6.550	6.553	-0.003	40	8767	400.0	443.5	M
66 Dichlorobromomethane	83	6.704	6.707	-0.003	90	70332	20.0	19.8	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	88	22892	20.0	19.6	
69 cis-1,3-Dichloropropene	75	7.210	7.214	-0.004	89	80453	20.0	20.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	91	34853	20.0	19.7	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	183234	20.0	18.8	
72 Toluene	92	7.601	7.602	-0.001	93	128060	20.0	18.6	
73 trans-1,3-Dichloropropene	75	7.862	7.865	-0.003	88	70166	20.0	19.9	
74 Ethyl methacrylate	69	7.975	7.975	0.000	91	54995	20.0	20.0	
75 1,1,2-Trichloroethane	97	8.088	8.088	0.000	83	38960	20.0	19.6	
76 Tetrachloroethene	166	8.259	8.259	0.000	88	69075	20.0	19.5	
77 1,3-Dichloropropane	76	8.290	8.291	-0.001	89	65445	20.0	20.1	
78 2-Hexanone	43	8.398	8.398	0.000	92	24795	20.0	20.4	
79 Chlorodibromomethane	129	8.568	8.572	-0.004	84	59608	20.0	20.1	
81 Ethylene Dibromide	107	8.716	8.713	0.003	98	40925	20.0	19.3	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	368045	50.0	50.0	
84 Chlorobenzene	112	9.339	9.342	-0.003	91	154748	20.0	19.5	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.449	-0.003	90	63620	20.0	19.7	
86 Ethylbenzene	91	9.483	9.486	-0.003	98	235977	20.0	18.3	
87 m-Xylene & p-Xylene	91	9.637	9.640	-0.003	98	178656	20.0	17.8	
88 o-Xylene	91	10.117	10.118	-0.001	93	189738	20.0	18.0	
89 Styrene	104	10.135	10.135	0.000	96	160082	20.0	17.9	
90 Bromoform	173	10.340	10.341	-0.001	93	37884	20.0	20.1	
91 Isopropylbenzene	105	10.534	10.535	-0.001	97	260206	20.0	20.8	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.697	-0.003	95	58366	20.0	22.2	
95 Bromobenzene	156	10.850	10.850	0.000	83	69667	20.0	20.7	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.856	0.000	86	51886	20.0	20.2	
97 1,2,3-Trichloropropane	110	10.896	10.896	0.000	87	15377	20.0	24.0	
98 trans-1,4-Dichloro-2-butene	53	10.916	10.917	-0.001	88	13373	20.0	23.3	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	292540	20.0	20.8	
100 2-Chlorotoluene	91	11.050	11.050	0.000	95	157638	20.0	20.3	
101 1,3,5-Trimethylbenzene	105	11.145	11.145	0.000	92	216700	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	96	186745	20.0	19.7	
104 tert-Butylbenzene	119	11.458	11.458	0.000	84	207430	20.0	20.3	
106 1,2,4-Trimethylbenzene	105	11.504	11.505	0.000	92	216206	20.0	19.8	
107 sec-Butylbenzene	105	11.663	11.664	-0.001	92	295726	20.0	20.2	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	138834	20.0	19.9	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	97	267748	20.0	20.0	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	92	222945	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	97	142509	20.0	19.6	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	232822	20.0	20.5	
114 1,2-Dichlorobenzene	146	12.170	12.170	0.000	97	132882	20.0	19.5	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	56	8565	20.0	22.5	
118 1,2,4-Trichlorobenzene	180	13.459	13.462	-0.003	93	94537	20.0	20.7	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	95	48917	20.0	20.5	
120 Naphthalene	128	13.650	13.650	0.000	99	185652	20.0	23.8	
121 1,2,3-Trichlorobenzene	180	13.826	13.829	-0.003	93	82245	20.0	23.9	
S 124 Xylenes, Total	1				0			35.8	
S 125 Trihalomethanes, Total	1				0			82.5	
S 126 1,2-Dichloroethene, Total	1				0			38.7	
S 127 Trimethylbenzene, Total	1				0			39.9	
S 128 1,3-Dichloropropene, Total	1				0			40.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00193	Amount Added: 2.00	Units: uL
LOW8260ACR_00316	Amount Added: 20.00	Units: uL
LO8260/624STD_00531	Amount Added: 20.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD060514.D

Injection Date: 14-May-2022 11:32:01

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD06

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

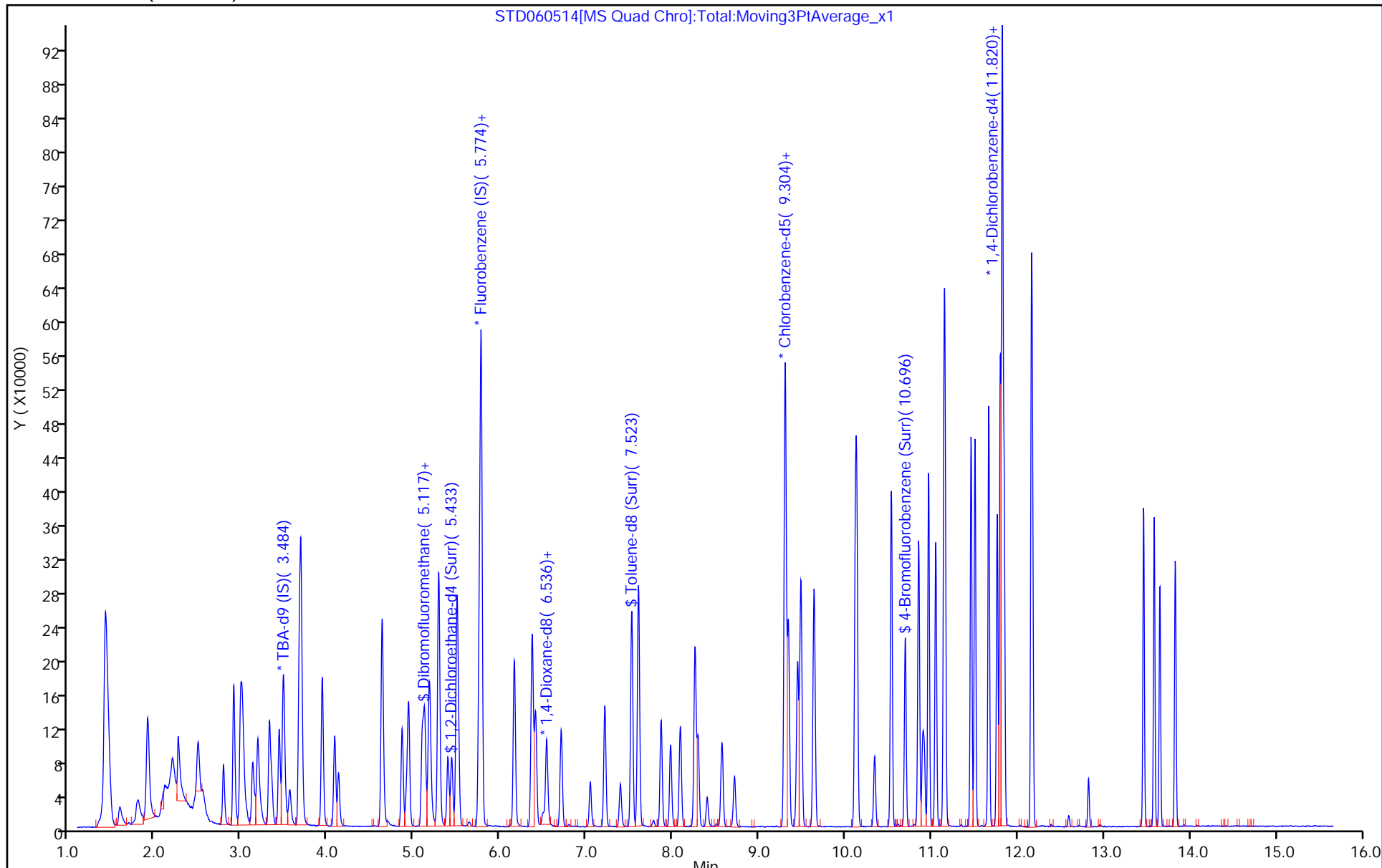
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

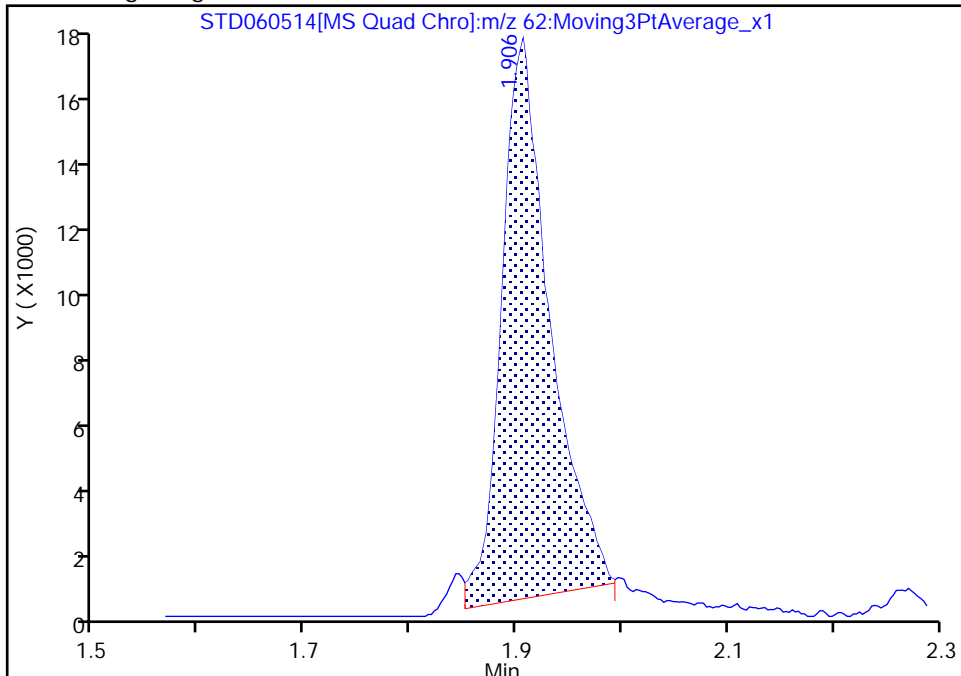
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Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

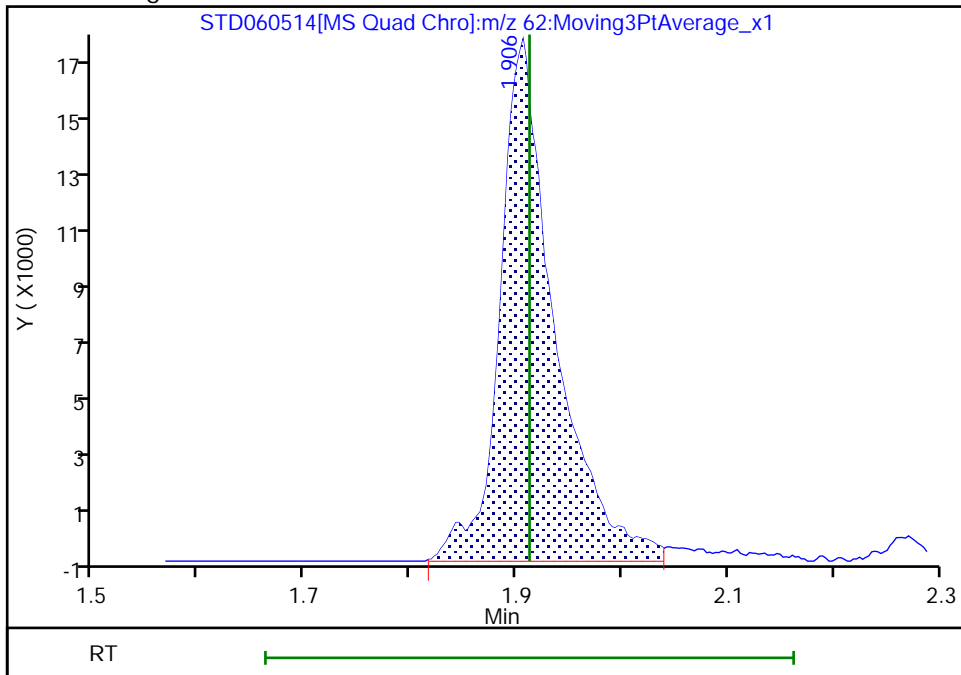
RT: 1.91
Area: 54456
Amount: 17.597022
Amount Units: ug/l

Processing Integration Results



RT: 1.91
Area: 63504
Amount: 18.781385
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:14:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

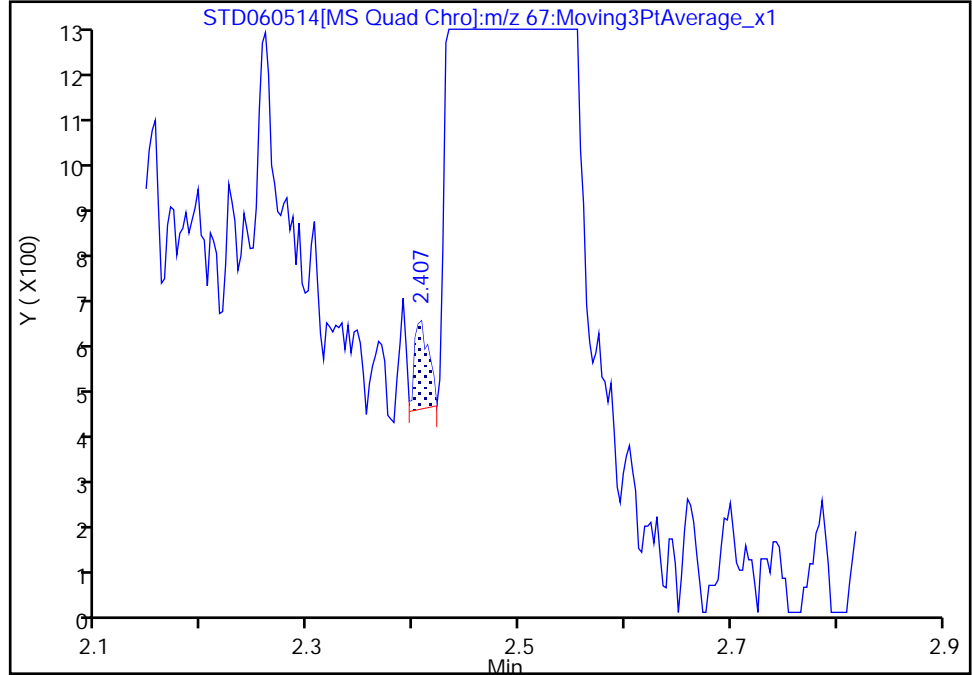
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Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

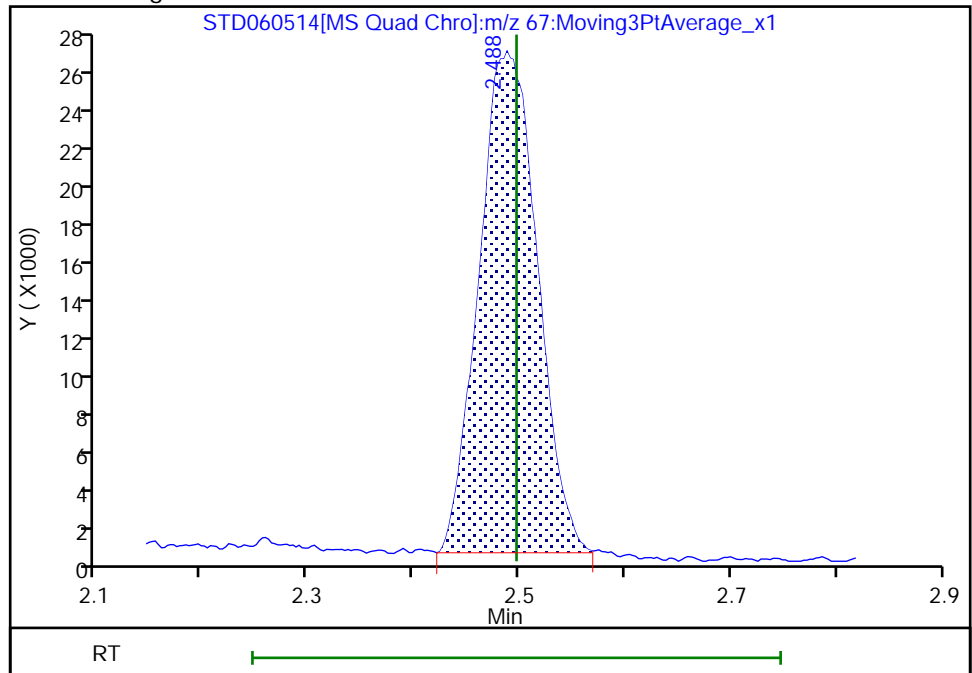
RT: 2.41
Area: 170
Amount: 0.044120
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 98823
Amount: 21.396799
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:13:37

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

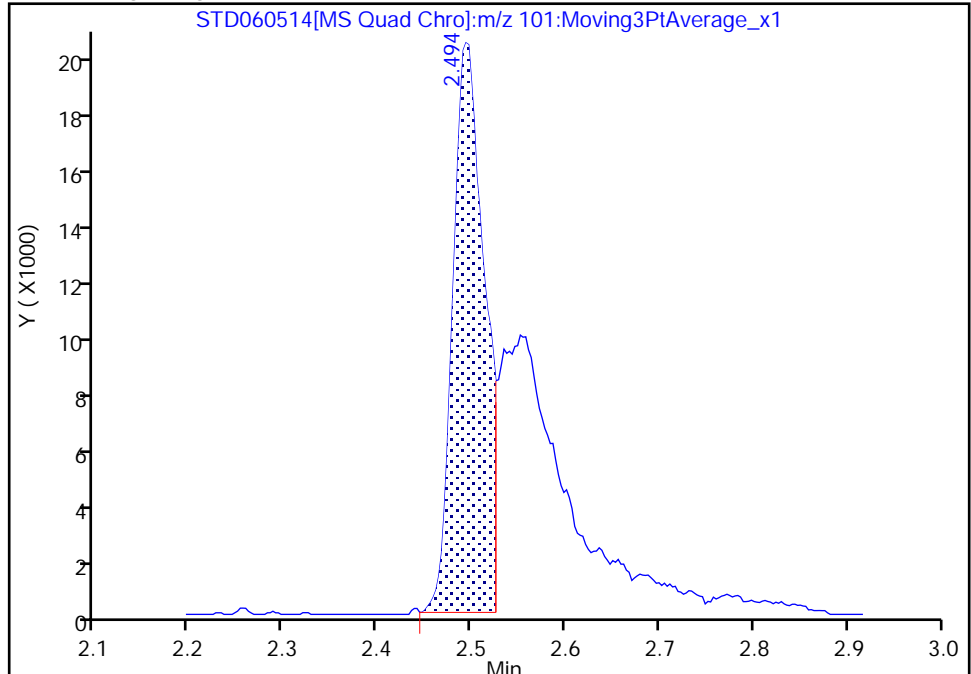
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Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

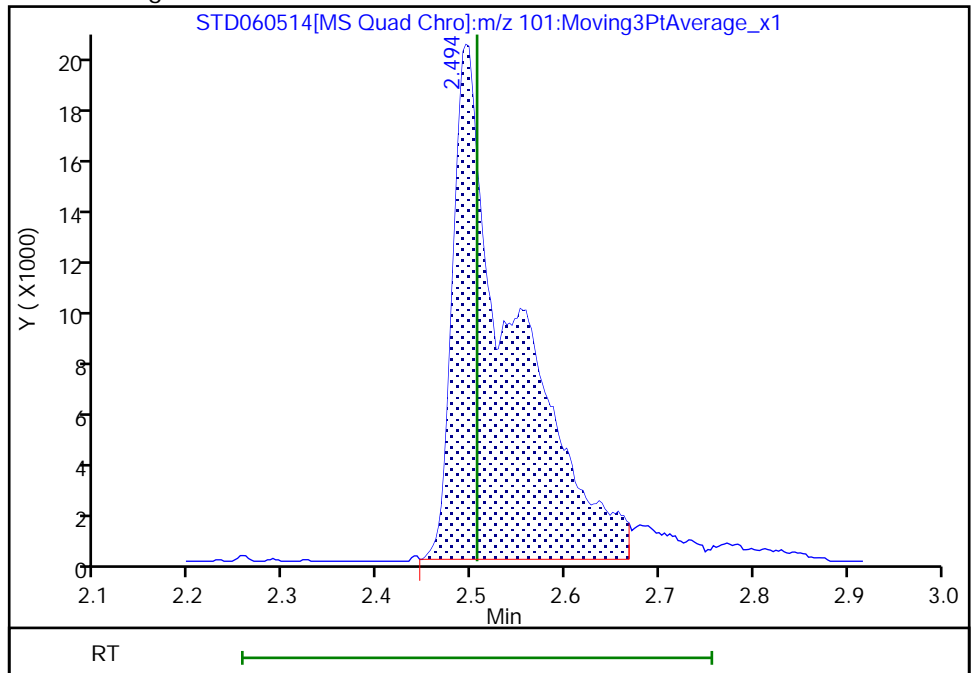
RT: 2.49
Area: 46792
Amount: 13.842528
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 90159
Amount: 19.721166
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:13:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

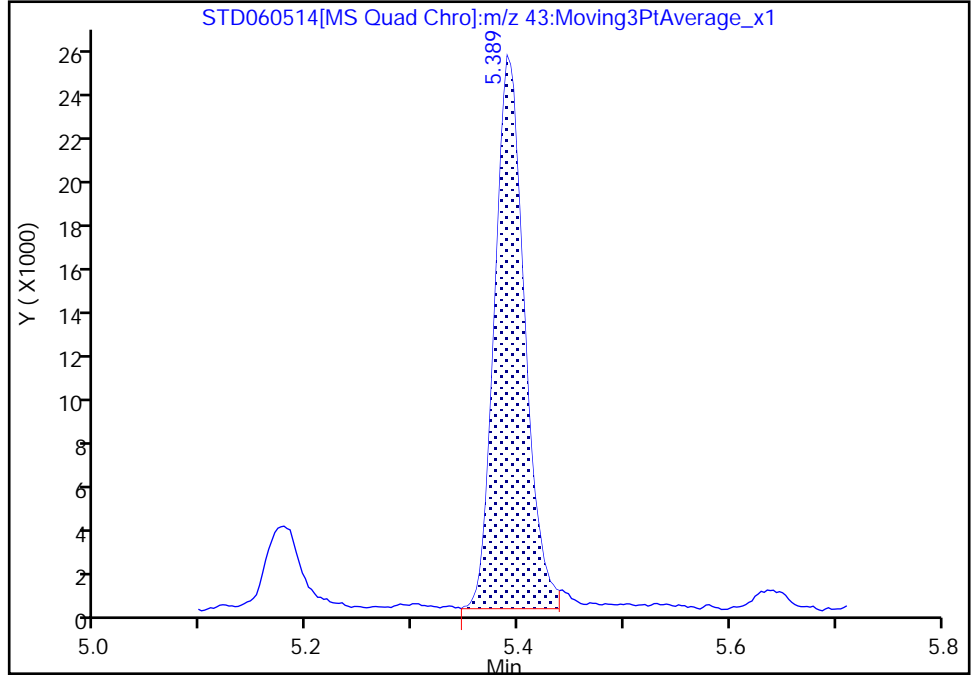
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Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

48 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

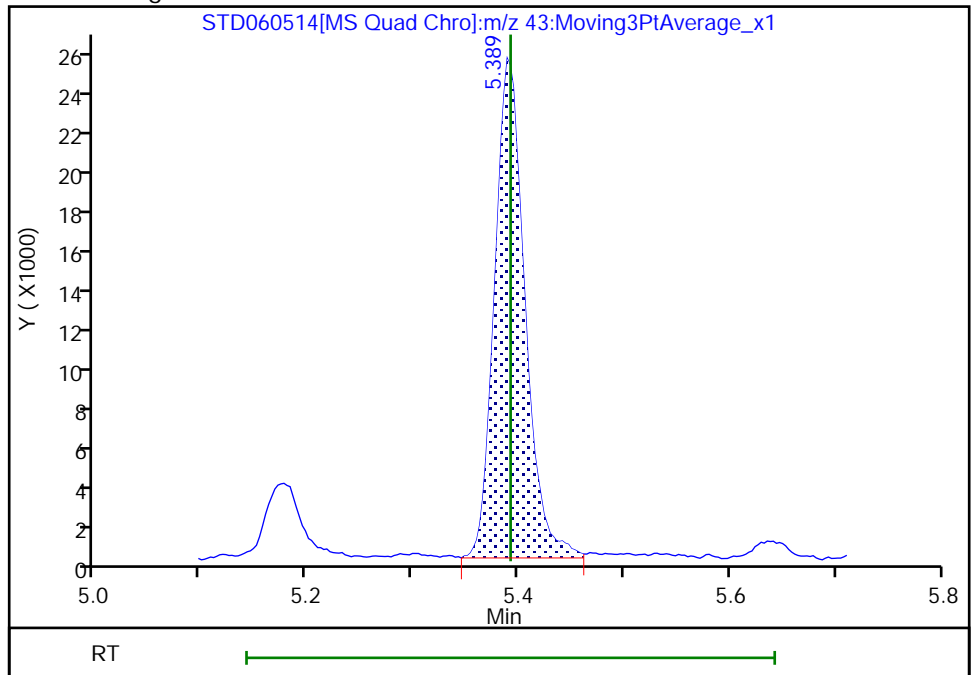
RT: 5.39
Area: 48724
Amount: 496.8769
Amount Units: ug/l

Processing Integration Results



RT: 5.39
Area: 49397
Amount: 502.8772
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:21:58

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

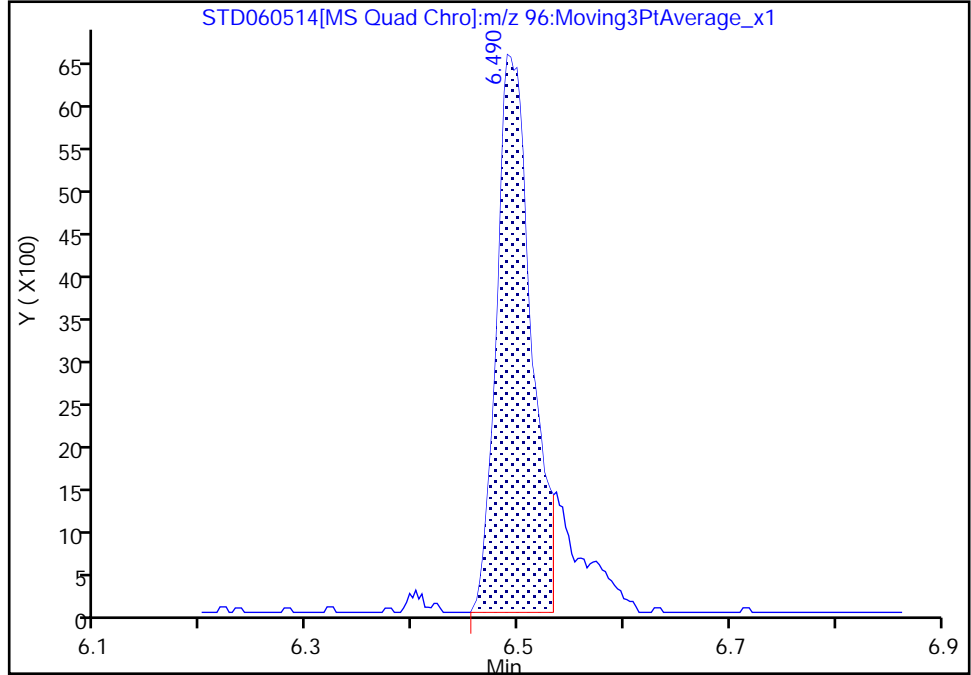
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD060514.D
Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

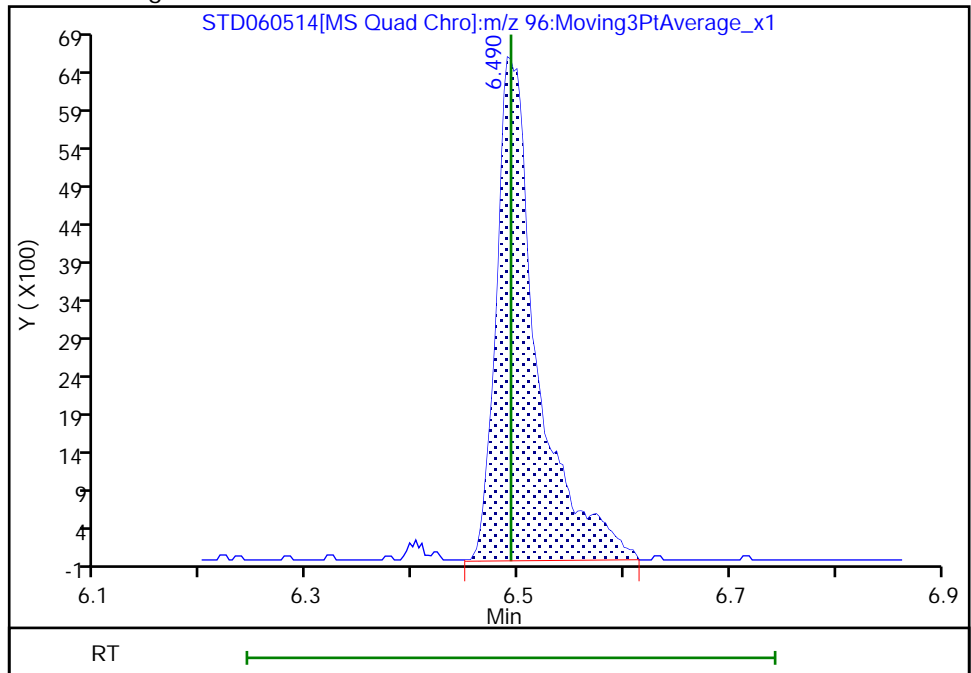
RT: 6.49
Area: 14940
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 17641
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:21:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

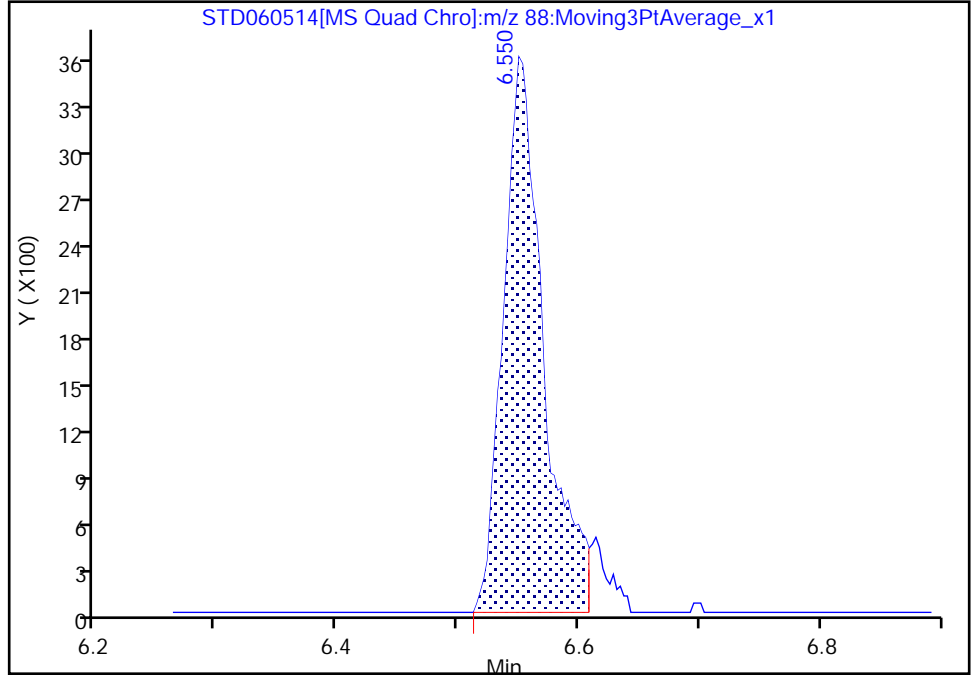
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD060514.D
Injection Date: 14-May-2022 11:32:01 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

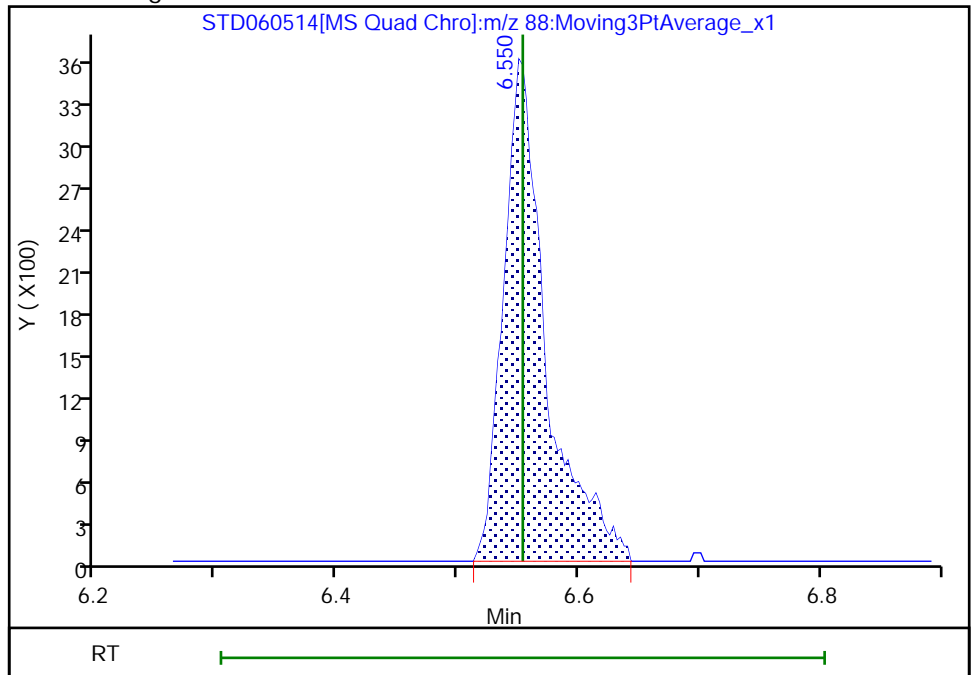
RT: 6.55
Area: 8281
Amount: 387.1168
Amount Units: ug/l

Processing Integration Results



RT: 6.55
Area: 8767
Amount: 443.4784
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:22:09
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD070514.D
 Lims ID: STD07
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 14-May-2022 11:55:26 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD07
 Misc. Info.: 500-0085710-009
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:34 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date: 17-May-2022 07:52:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.594	1.594	0.000	86	126106	50.0	52.9	
2 Chloromethane	50	1.802	1.802	0.000	87	148561	50.0	55.2	
3 Vinyl chloride	62	1.912	1.912	0.000	64	169870	50.0	53.5	
4 Butadiene	39	1.918	1.918	0.000	90	147193	50.0	53.0	
6 Bromomethane	94	2.210	2.210	0.000	91	126949	50.0	56.3	M
7 Chloroethane	64	2.280	2.280	0.000	94	122186	50.0	53.5	
8 Dichlorofluoromethane	67	2.497	2.497	0.000	81	240395	50.0	55.4	
9 Trichlorofluoromethane	101	2.506	2.506	0.000	64	220046	50.0	51.2	M
11 Ethyl ether	59	2.795	2.795	0.000	90	89893	50.0	52.3	
12 Acrolein	56	2.914	2.914	0.000	96	334443	2000.0	2026.8	
13 1,1-Dichloroethene	96	2.995	2.995	0.000	89	132688	50.0	50.9	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.021	3.021	0.000	83	146443	50.0	52.3	
15 Acetone	43	3.059	3.059	0.000	95	24217	50.0	54.1	
16 Iodomethane	142	3.134	3.134	0.000	98	282801	50.0	52.9	
17 Carbon disulfide	76	3.195	3.195	0.000	100	438982	50.0	52.5	
20 3-Chloro-1-propene	76	3.328	3.328	0.000	90	82050	50.0	51.8	
21 Methyl acetate	43	3.351	3.351	0.000	96	126593	100.0	104.1	
22 Methylene Chloride	84	3.438	3.438	0.000	86	133988	50.0	53.2	
* 23 TBA-d9 (IS)	65	3.484	3.484	0.000	0	203519	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.560	0.000	99	117227	500.0	508.0	
25 Acrylonitrile	53	3.670	3.670	0.000	97	324642	500.0	520.7	
26 trans-1,2-Dichloroethene	96	3.690	3.690	0.000	80	152411	50.0	50.0	
27 Methyl tert-butyl ether	73	3.696	3.696	0.000	89	339849	50.0	51.7	
28 Hexane	57	3.939	3.939	0.000	91	206802	50.0	49.7	
29 1,1-Dichloroethane	63	4.084	4.084	0.000	84	228188	50.0	52.4	
30 Vinyl acetate	43	4.127	4.127	0.000	99	211764	50.0	52.0	
35 cis-1,2-Dichloroethene	96	4.631	4.631	0.000	86	152115	50.0	51.4	
34 2,2-Dichloropropane	77	4.631	4.631	0.000	62	151785	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.648	4.648	0.000	62	37338	50.0	51.8	
40 Chlorobromomethane	128	4.863	4.863	0.000	83	82508	50.0	52.2	
41 Tetrahydrofuran	42	4.912	4.912	0.000	82	53259	100.0	115.1	
42 Chloroform	83	4.938	4.938	0.000	81	232374	50.0	57.5	
\$ 43 Dibromofluoromethane	113	5.097	5.097	0.000	66	146672	50.0	55.9	
44 1,1,1-Trichloroethane	97	5.126	5.126	0.000	90	209047	50.0	51.8	
45 Cyclohexane	56	5.181	5.181	0.000	89	208789	50.0	51.4	
47 1,1-Dichloropropene	75	5.285	5.285	0.000	91	185733	50.0	51.8	
46 Carbon tetrachloride	117	5.288	5.288	0.000	84	211995	50.0	52.1	
48 Isobutyl alcohol	43	5.392	5.392	0.000	97	113195	1250.0	1261.4	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.439	5.439	0.000	75	119545	50.0	55.9	
50 Benzene	78	5.500	5.500	0.000	95	511312	50.0	50.0	
51 1,2-Dichloroethane	62	5.514	5.514	0.000	70	148215	50.0	51.6	
54 n-Heptane	43	5.757	5.757	0.000	87	185456	50.0	51.9	
* 55 Fluorobenzene (IS)	96	5.780	5.780	0.000	99	462536	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	84	177044	50.0	52.8	
59 Methylcyclohexane	83	6.371	6.371	0.000	90	238294	50.0	51.4	
60 1,2-Dichloropropane	63	6.409	6.409	0.000	93	121967	50.0	52.5	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	15804	1000.0	1000.0	M
63 Dibromomethane	93	6.536	6.536	0.000	86	77038	50.0	51.9	
65 1,4-Dioxane	88	6.553	6.553	0.000	47	17518	1000.0	989.1	
66 Dichlorobromomethane	83	6.707	6.707	0.000	93	172105	50.0	51.5	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	89	59587	50.0	53.9	
69 cis-1,3-Dichloropropene	75	7.214	7.214	0.000	92	196619	50.0	51.9	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	95	86408	50.0	51.6	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	475279	50.0	51.7	
72 Toluene	92	7.602	7.602	0.000	93	315576	50.0	48.5	
73 trans-1,3-Dichloropropene	75	7.865	7.865	0.000	89	168268	50.0	50.4	
74 Ethyl methacrylate	69	7.975	7.975	0.000	93	127519	50.0	48.9	
75 1,1,2-Trichloroethane	97	8.088	8.088	0.000	86	94405	50.0	50.2	
76 Tetrachloroethene	166	8.259	8.259	0.000	91	169725	50.0	50.7	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	89	158108	50.0	51.4	
78 2-Hexanone	43	8.398	8.398	0.000	95	59574	50.0	51.7	
79 Chlorodibromomethane	129	8.572	8.572	0.000	86	142763	50.0	50.9	
81 Ethylene Dibromide	107	8.713	8.713	0.000	98	100673	50.0	50.3	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	82	348032	50.0	50.0	
84 Chlorobenzene	112	9.342	9.342	0.000	93	374836	50.0	49.9	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	91	154343	50.0	50.4	
86 Ethylbenzene	91	9.486	9.486	0.000	98	580016	50.0	47.6	
87 m-Xylene & p-Xylene	91	9.640	9.640	0.000	99	442764	50.0	46.6	
88 o-Xylene	91	10.118	10.118	0.000	93	466907	50.0	47.0	
89 Styrene	104	10.135	10.135	0.000	95	408990	50.0	48.4	
90 Bromoform	173	10.341	10.341	0.000	97	89498	50.0	50.2	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	650341	50.0	51.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.697	0.000	95	144867	50.0	54.9	
95 Bromobenzene	156	10.850	10.850	0.000	83	170948	50.0	50.7	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.856	0.000	84	122185	50.0	47.5	
97 1,2,3-Trichloropropane	110	10.896	10.896	0.000	85	36822	50.0	58.6	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	91	30074	50.0	55.2	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	719233	50.0	50.9	
100 2-Chlorotoluene	91	11.050	11.050	0.000	96	392990	50.0	50.5	
101 1,3,5-Trimethylbenzene	105	11.145	11.145	0.000	93	567069	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	97	490397	50.0	51.5	
104 tert-Butylbenzene	119	11.458	11.458	0.000	90	524639	50.0	51.2	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	96	557251	50.0	50.8	
107 sec-Butylbenzene	105	11.664	11.664	0.000	93	753081	50.0	51.2	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	348355	50.0	49.8	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	97	708370	50.0	52.8	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	93	223711	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	97	367193	50.0	50.4	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	595070	50.0	52.3	
114 1,2-Dichlorobenzene	146	12.170	12.170	0.000	97	352807	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	75	12.819	12.819	0.000	59	20910	50.0	57.5	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	93	225781	50.0	49.3	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	95	120136	50.0	50.1	
120 Naphthalene	128	13.650	13.650	0.000	99	448413	50.0	58.3	
121 1,2,3-Trichlorobenzene	180	13.829	13.829	0.000	94	199360	50.0	58.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 LOWSS1_00193	Amount Added: 5.00	Units: uL
8260/624ACRWK_00666	Amount Added: 2.50	Units: uL
8260VA/2CEVE_00591	Amount Added: 2.50	Units: uL
8260/624GASWK_01433	Amount Added: 2.50	Units: uL
8260/624KETWK_00617	Amount Added: 2.50	Units: uL
8260/624MEGWK_01363	Amount Added: 2.50	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD070514.D

Injection Date: 14-May-2022 11:55:26

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD07

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

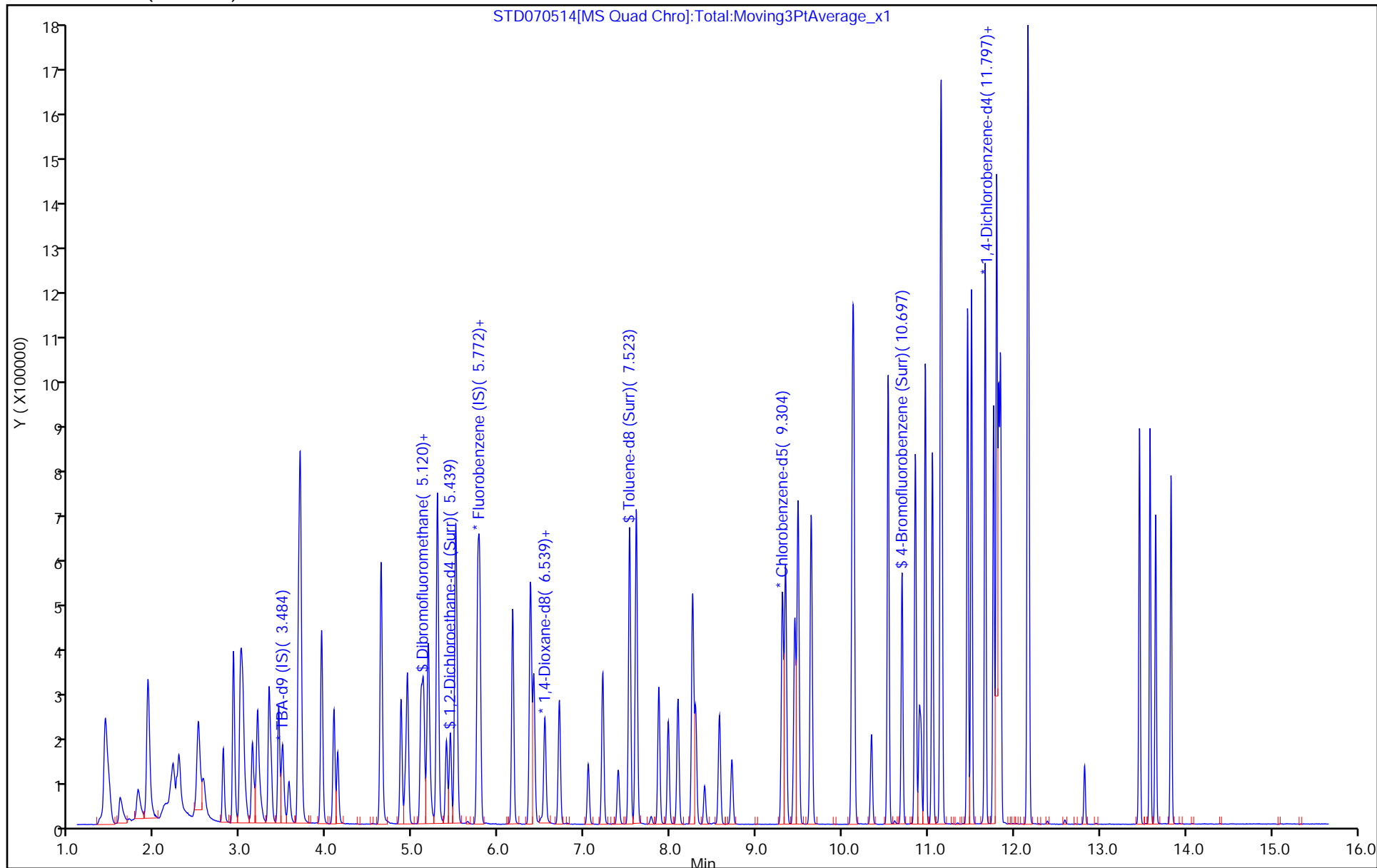
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

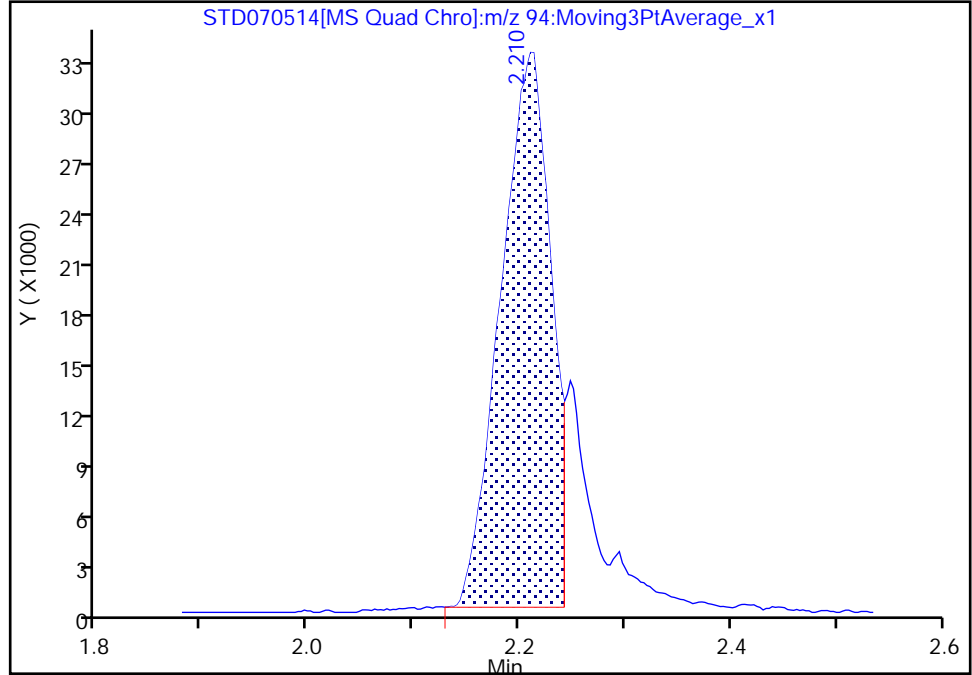
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD070514.D
Injection Date: 14-May-2022 11:55:26 Instrument ID: CMS29
Lims ID: STD07
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

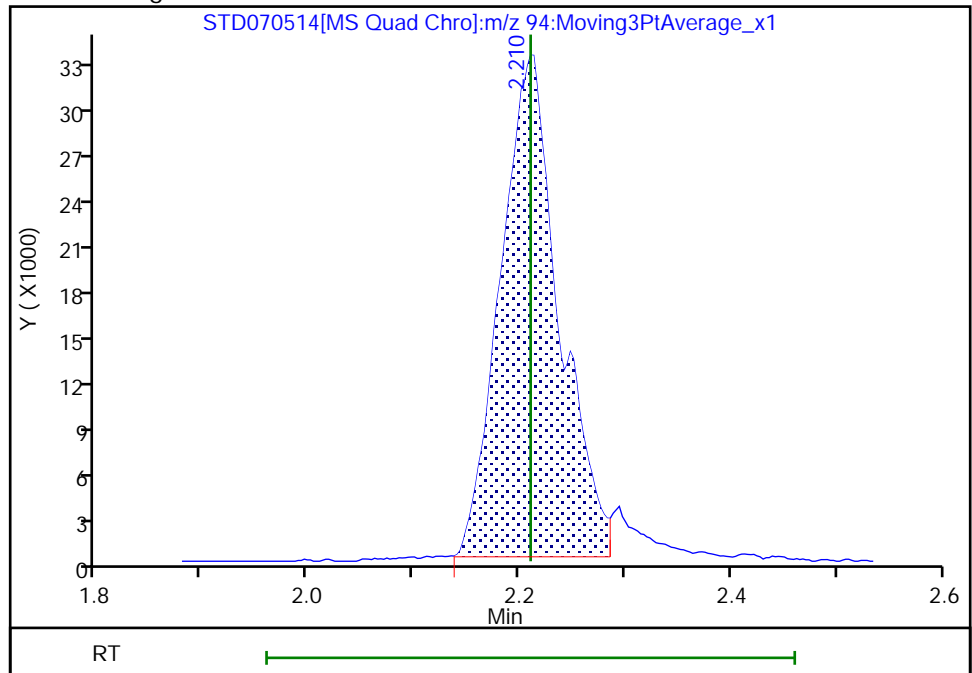
RT: 2.21
Area: 108323
Amount: 53.206518
Amount Units: ug/l

Processing Integration Results



RT: 2.21
Area: 126949
Amount: 56.257874
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:15:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

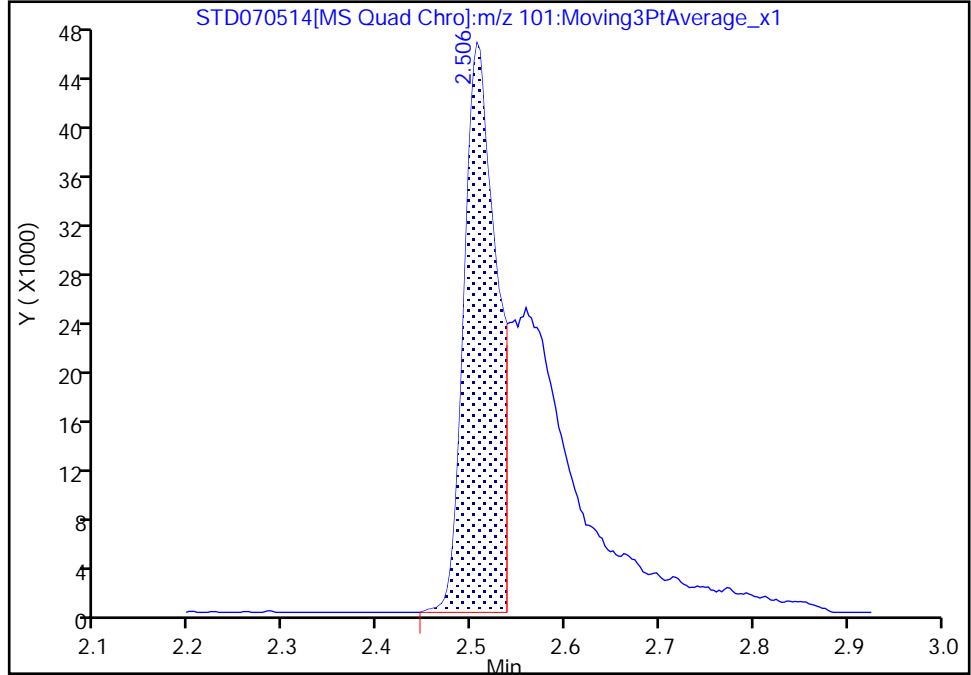
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD070514.D
Injection Date: 14-May-2022 11:55:26 Instrument ID: CMS29
Lims ID: STD07
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

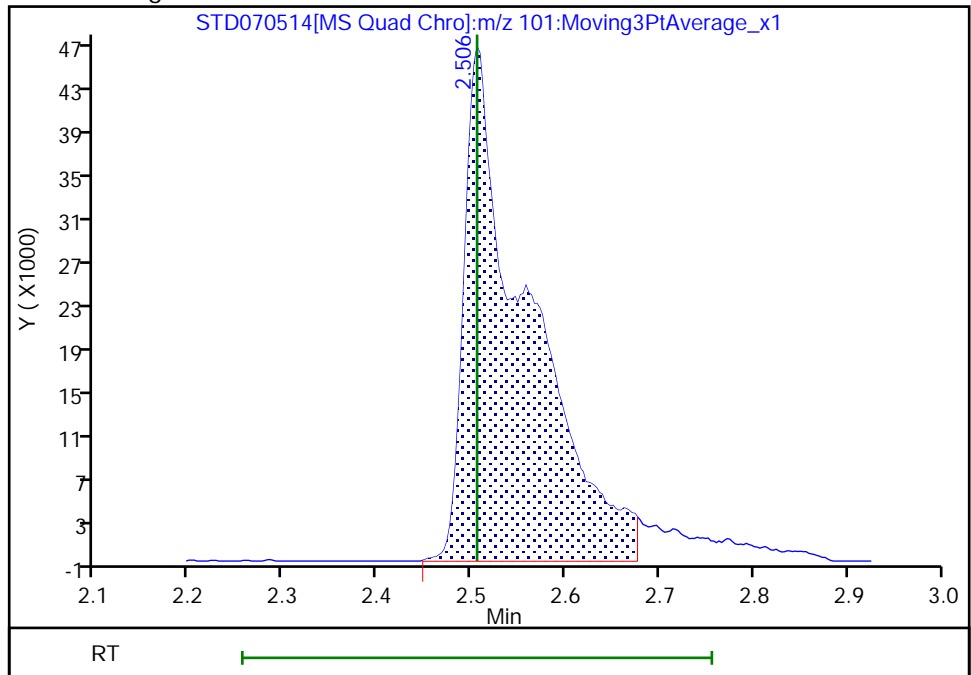
RT: 2.51
Area: 111108
Amount: 35.217910
Amount Units: ug/l

Processing Integration Results



RT: 2.51
Area: 220046
Amount: 51.214549
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:15:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

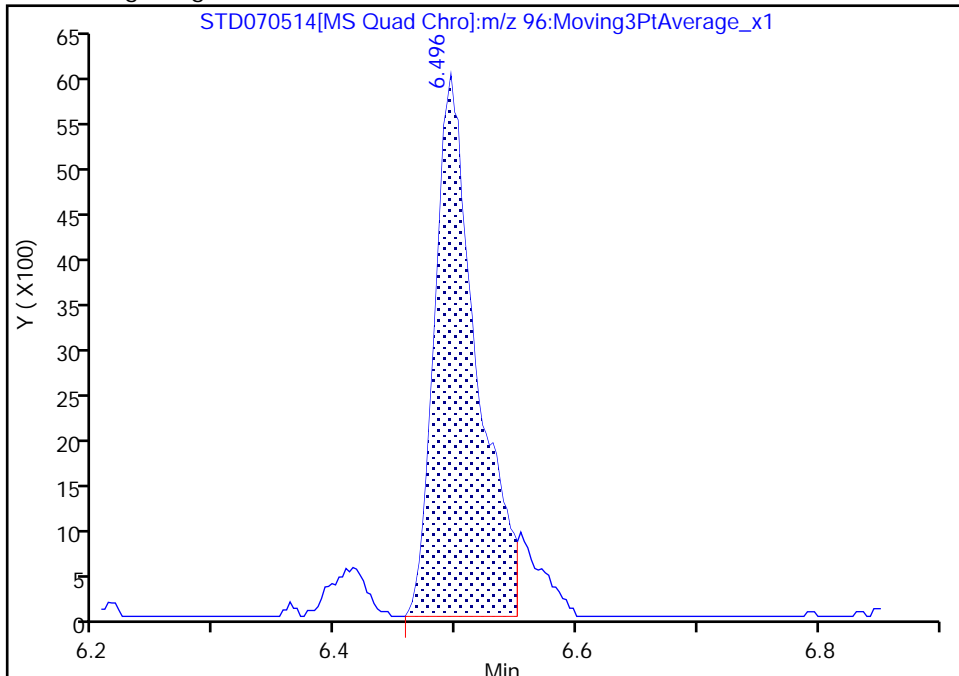
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD070514.D
Injection Date: 14-May-2022 11:55:26 Instrument ID: CMS29
Lims ID: STD07
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

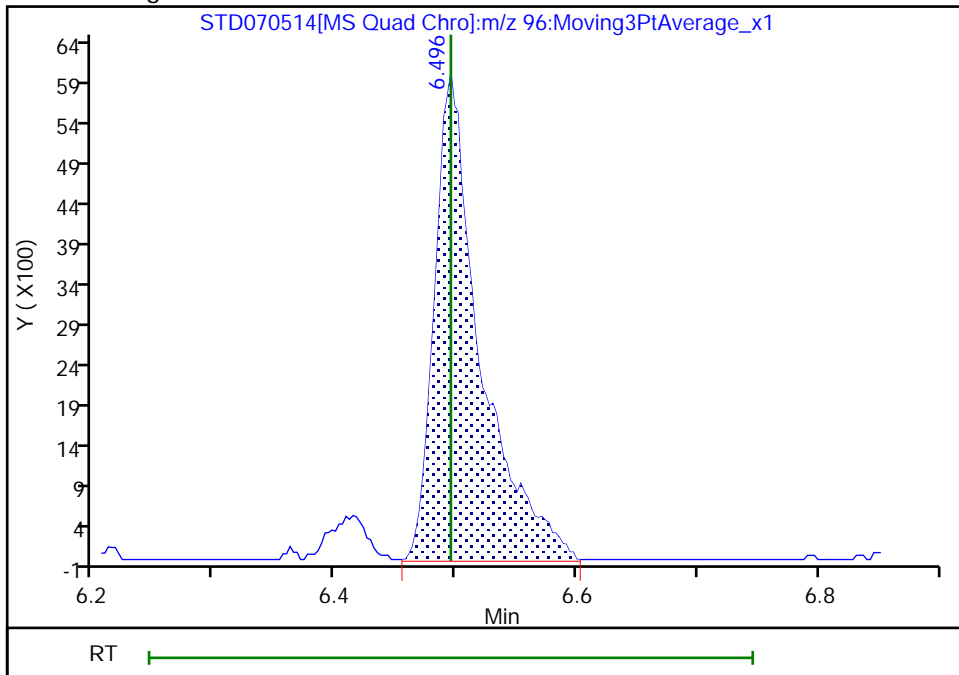
RT: 6.50
Area: 14375
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 15804
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:19:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD080514.D
 Lims ID: STD08
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-May-2022 12:19:04 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD08
 Misc. Info.: 500-0085710-010
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:41 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date: 15-May-2022 13:18:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.582	1.594	-0.012	88	227123	100.0	87.8	
2 Chloromethane	50	1.788	1.802	-0.014	89	277331	100.0	95.3	
3 Vinyl chloride	62	1.901	1.912	-0.011	74	315954	100.0	91.6	
4 Butadiene	39	1.906	1.918	-0.012	92	268600	100.0	89.2	
6 Bromomethane	94	2.199	2.210	-0.011	94	229019	100.0	93.5	
7 Chloroethane	64	2.263	2.280	-0.017	95	228853	100.0	92.3	
8 Dichlorofluoromethane	67	2.491	2.497	-0.006	80	442489	100.0	93.9	
9 Trichlorofluoromethane	101	2.497	2.506	-0.009	67	424149	100.0	91.0	M
11 Ethyl ether	59	2.787	2.795	-0.008	89	170748	100.0	91.6	
12 Acrolein	56	2.905	2.914	-0.009	96	723727	4000.0	4041.3	
13 1,1-Dichloroethene	96	2.989	2.995	-0.006	88	259412	100.0	91.6	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.010	3.021	-0.011	84	283220	100.0	93.2	
15 Acetone	43	3.050	3.059	-0.009	96	52986	100.0	112.0	
16 Iodomethane	142	3.128	3.134	-0.006	99	537510	100.0	92.6	
17 Carbon disulfide	76	3.189	3.195	-0.006	100	833350	100.0	91.8	
20 3-Chloro-1-propene	76	3.322	3.328	-0.006	91	157626	100.0	91.8	
21 Methyl acetate	43	3.345	3.351	-0.006	96	249208	200.0	188.9	
22 Methylene Chloride	84	3.432	3.438	-0.006	87	261405	100.0	95.6	
* 23 TBA-d9 (IS)	65	3.479	3.484	-0.005	0	212581	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.554	3.560	-0.006	100	228667	1000.0	948.6	
25 Acrylonitrile	53	3.664	3.670	-0.006	98	655598	1000.0	969.0	
26 trans-1,2-Dichloroethene	96	3.684	3.690	-0.006	78	340976	100.0	103.1	
27 Methyl tert-butyl ether	73	3.690	3.696	-0.006	88	735342	100.0	103.1	
28 Hexane	57	3.933	3.939	-0.006	92	393166	100.0	87.0	
29 1,1-Dichloroethane	63	4.078	4.084	-0.006	85	431302	100.0	91.3	
30 Vinyl acetate	43	4.121	4.127	-0.006	99	405290	100.0	91.7	
35 cis-1,2-Dichloroethene	96	4.628	4.631	-0.003	86	294853	100.0	91.8	
34 2,2-Dichloropropane	77	4.628	4.631	-0.003	61	290724	100.0	90.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.643	4.648	-0.005	60	78833	100.0	100.7	
40 Chlorobromomethane	128	4.860	4.863	-0.003	82	163336	100.0	95.2	
41 Tetrahydrofuran	42	4.909	4.912	-0.003	85	103615	200.0	212.0	
42 Chloroform	83	4.935	4.938	-0.003	82	444143	100.0	102.1	
\$ 43 Dibromofluoromethane	113	5.091	5.097	-0.006	77	280484	100.0	98.5	
44 1,1,1-Trichloroethane	97	5.120	5.126	-0.006	90	403850	100.0	92.3	
45 Cyclohexane	56	5.175	5.181	-0.006	90	396016	100.0	89.9	
47 1,1-Dichloropropene	75	5.282	5.285	-0.003	91	356921	100.0	91.6	
46 Carbon tetrachloride	117	5.285	5.288	-0.003	85	415794	100.0	94.2	
48 Isobutyl alcohol	43	5.390	5.392	-0.002	93	220232	2500.0	2349.6	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.439	-0.006	75	231739	100.0	99.8	
50 Benzene	78	5.497	5.500	-0.003	95	1006159	100.0	90.6	
51 1,2-Dichloroethane	62	5.511	5.514	-0.003	73	297281	100.0	95.3	
54 n-Heptane	43	5.754	5.757	-0.003	89	355242	100.0	91.7	
* 55 Fluorobenzene (IS)	96	5.778	5.780	-0.002	98	501985	50.0	50.0	
57 Trichloroethene	130	6.160	6.163	-0.003	85	343777	100.0	94.4	
59 Methylcyclohexane	83	6.368	6.371	-0.003	90	460579	100.0	91.5	
60 1,2-Dichloropropane	63	6.409	6.409	0.000	92	229967	100.0	91.3	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	15665	1000.0	1000.0	M
63 Dibromomethane	93	6.533	6.536	-0.003	89	150918	100.0	93.7	
65 1,4-Dioxane	88	6.551	6.553	-0.002	44	35571	2000.0	2026.3	
66 Dichlorobromomethane	83	6.704	6.707	-0.003	92	327871	100.0	90.4	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	91	119016	100.0	102.1	
69 cis-1,3-Dichloropropene	75	7.211	7.214	-0.003	92	383278	100.0	96.0	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	97	177321	100.0	100.4	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.523	0.000	93	944560	100.0	97.4	
72 Toluene	92	7.602	7.602	0.000	92	648828	100.0	94.6	
73 trans-1,3-Dichloropropene	75	7.862	7.865	-0.003	89	334108	100.0	94.9	
74 Ethyl methacrylate	69	7.972	7.975	-0.003	93	252278	100.0	91.8	
75 1,1,2-Trichloroethane	97	8.085	8.088	-0.003	86	187291	100.0	94.4	
76 Tetrachloroethene	166	8.259	8.259	0.000	91	335776	100.0	95.2	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	308800	100.0	95.2	
78 2-Hexanone	43	8.395	8.398	-0.003	97	123340	100.0	101.5	
79 Chlorodibromomethane	129	8.572	8.572	0.000	86	284223	100.0	96.0	
81 Ethylene Dibromide	107	8.713	8.713	0.000	99	199977	100.0	94.7	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	82	366962	50.0	50.0	
84 Chlorobenzene	112	9.339	9.342	-0.003	93	744450	100.0	94.1	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	91	301887	100.0	93.6	
86 Ethylbenzene	91	9.486	9.486	0.000	98	1160712	100.0	90.4	
87 m-Xylene & p-Xylene	91	9.637	9.640	-0.003	98	903107	100.0	90.2	
88 o-Xylene	91	10.121	10.118	0.003	92	987815	100.0	94.2	
89 Styrene	104	10.135	10.135	0.000	95	937263	100.0	105.1	
90 Bromoform	173	10.341	10.341	0.000	97	182979	100.0	97.3	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	1364870	100.0	82.2	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.697	0.000	95	293634	100.0	84.0	
95 Bromobenzene	156	10.850	10.850	0.000	82	360260	100.0	80.6	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.856	0.000	85	253767	100.0	74.4	
97 1,2,3-Trichloropropane	110	10.899	10.896	0.003	86	74110	100.0	89.5	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	89	60184	100.0	87.2	
99 N-Propylbenzene	91	10.969	10.966	0.003	97	1575352	100.0	84.1	
100 2-Chlorotoluene	91	11.050	11.050	0.000	95	867593	100.0	84.2	
101 1,3,5-Trimethylbenzene	105	11.145	11.145	0.000	93	1322523	100.0	92.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	97	1165875	100.0	92.4	
104 tert-Butylbenzene	119	11.461	11.458	0.003	84	1202567	100.0	88.7	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	95	1338303	100.0	92.1	
107 sec-Butylbenzene	105	11.664	11.664	0.000	93	1761988	100.0	90.5	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	819409	100.0	88.5	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	1693006	100.0	95.2	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	91	296305	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	97	895523	100.0	92.8	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	1331288	100.0	88.3	
114 1,2-Dichlorobenzene	146	12.170	12.170	0.000	98	862793	100.0	95.1	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	64	40759	100.0	87.7	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	93	465755	100.0	76.8	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	95	235807	100.0	74.3	
120 Naphthalene	128	13.650	13.650	0.000	99	939584	100.0	92.7	
121 1,2,3-Trichlorobenzene	180	13.829	13.829	0.000	93	416532	100.0	92.9	
S 124 Xylenes, Total	1				0			184.4	
S 125 Trihalomethanes, Total	1				0			385.9	
S 126 1,2-Dichloroethene, Total	1				0			194.8	
S 127 Trimethylbenzene, Total	1				0			184.4	
S 128 1,3-Dichloropropene, Total	1				0			190.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 LOWSS1_00193	Amount Added: 10.00	Units: uL
8260/624ACRWK_00666	Amount Added: 5.00	Units: uL
8260VA/2CEVE_00591	Amount Added: 5.00	Units: uL
8260/624GASWK_01433	Amount Added: 5.00	Units: uL
8260/624KETWK_00617	Amount Added: 5.00	Units: uL
8260/624MEGWK_01363	Amount Added: 5.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD080514.D

Injection Date: 14-May-2022 12:19:04

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD08

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

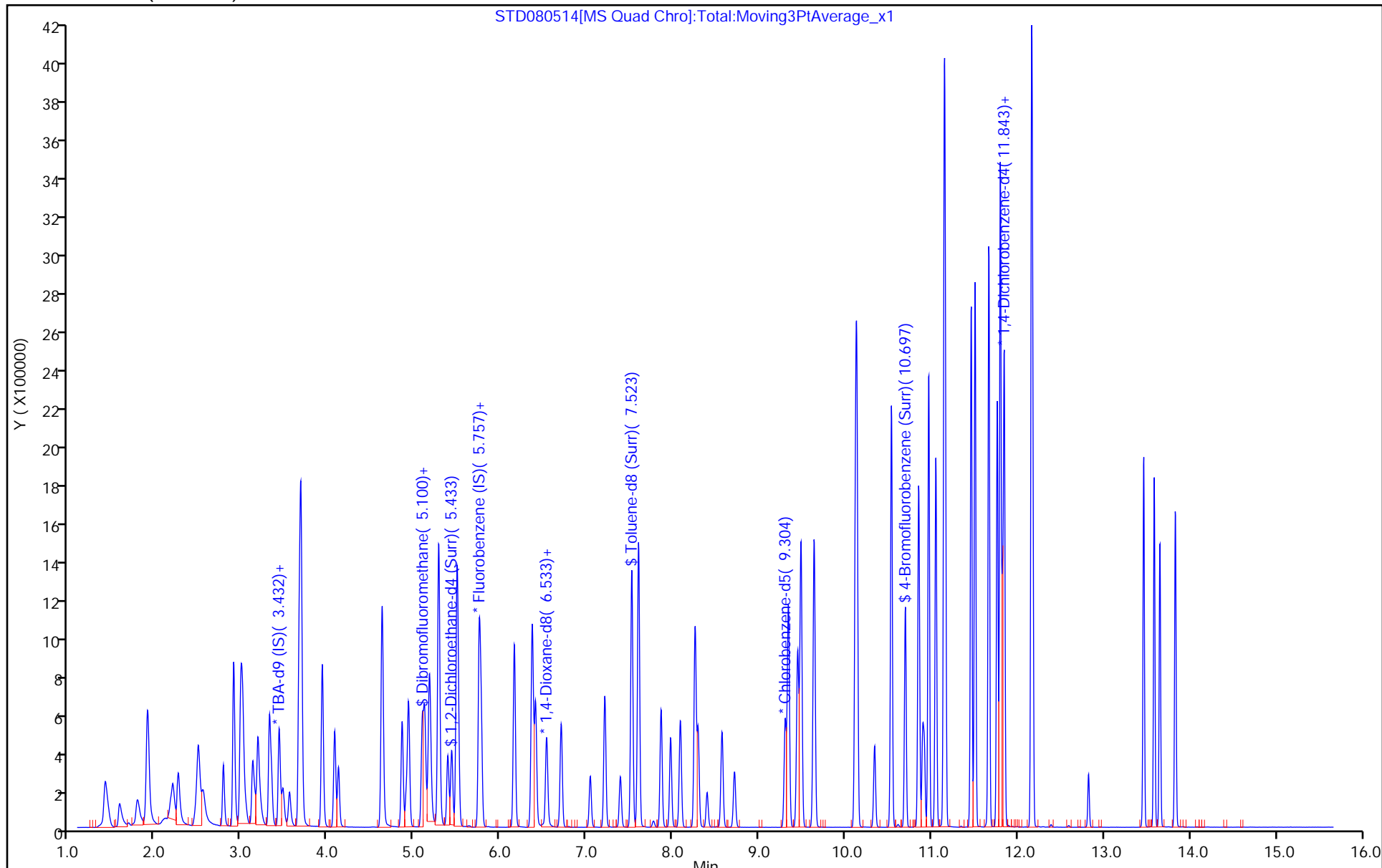
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

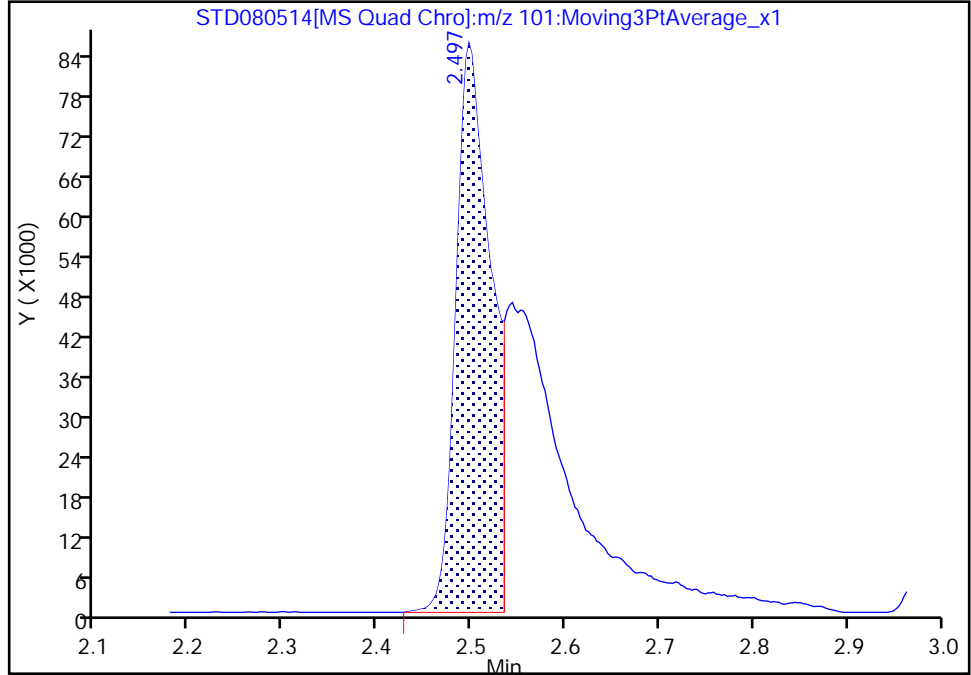
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Injection Date: 14-May-2022 12:19:04 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

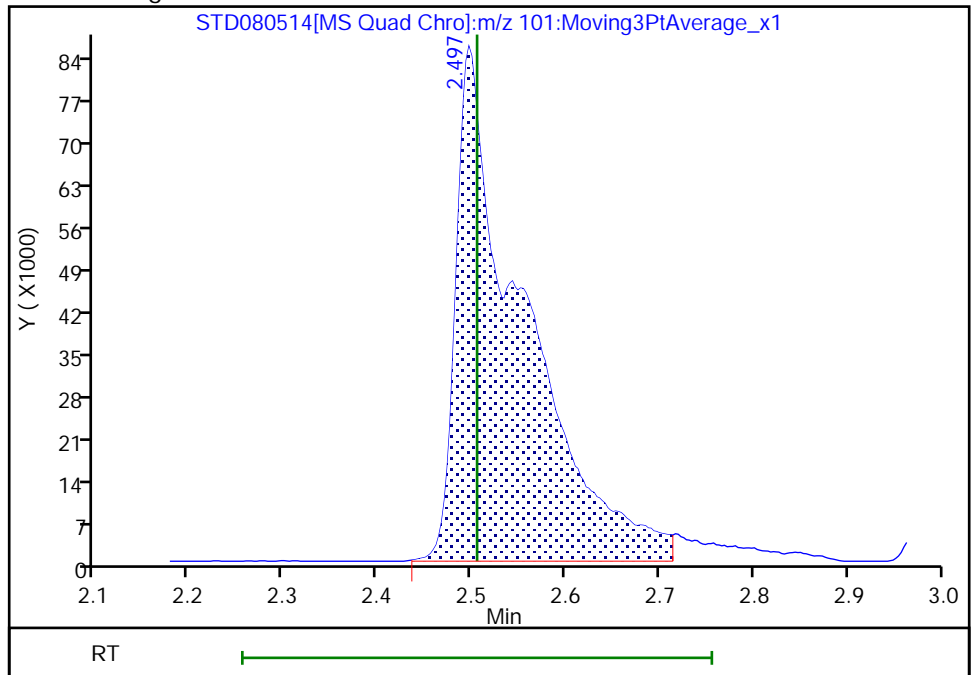
RT: 2.50
Area: 221948
Amount: 52.822317
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 424149
Amount: 90.960559
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:45:57
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

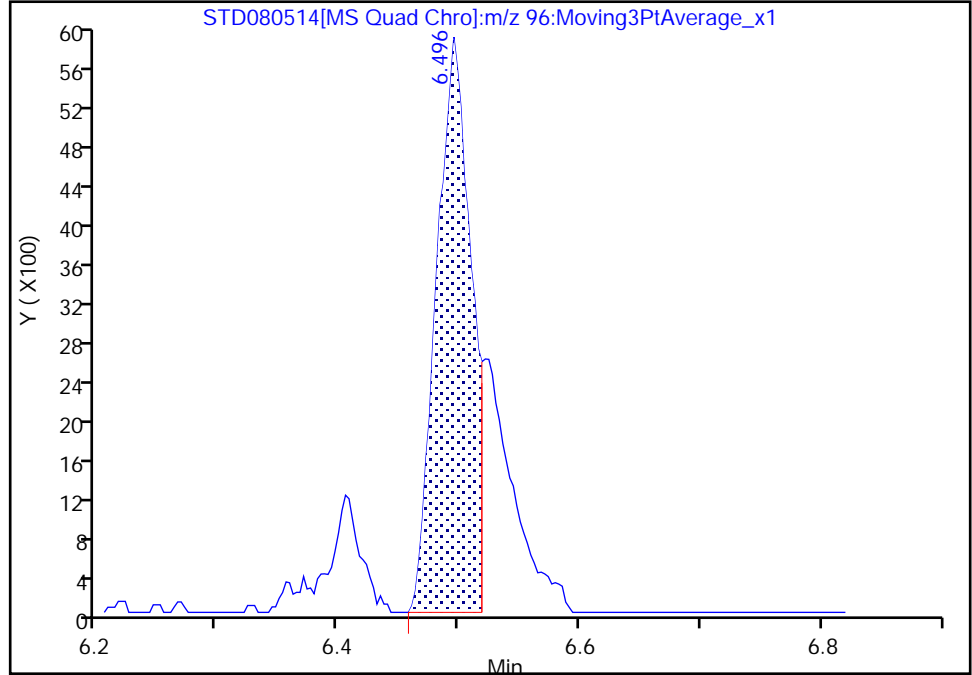
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD080514.D
Injection Date: 14-May-2022 12:19:04 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

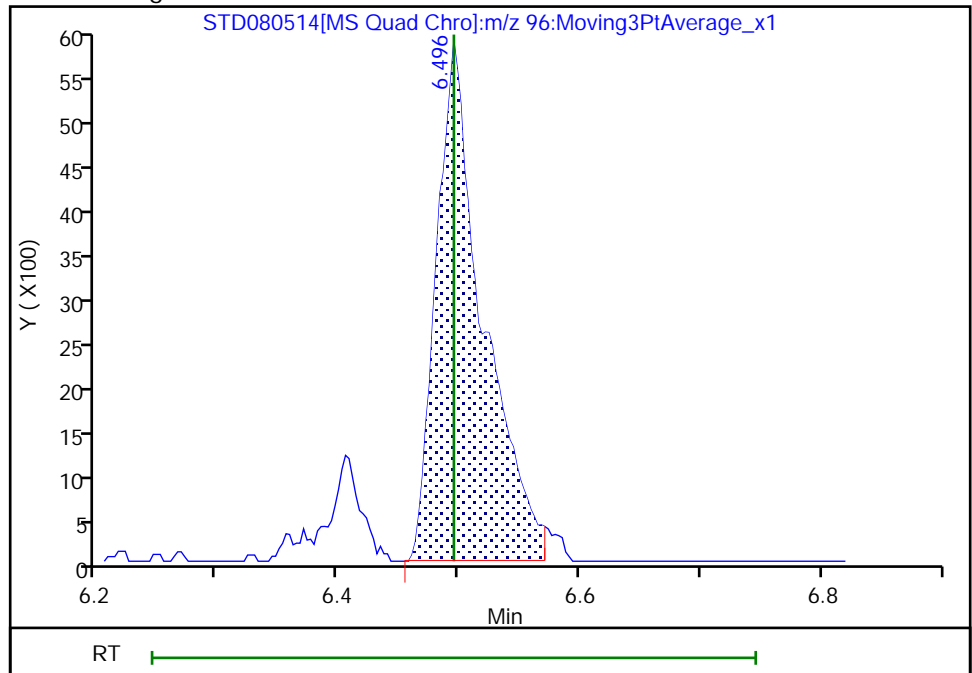
RT: 6.50
Area: 11666
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 15665
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:18:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

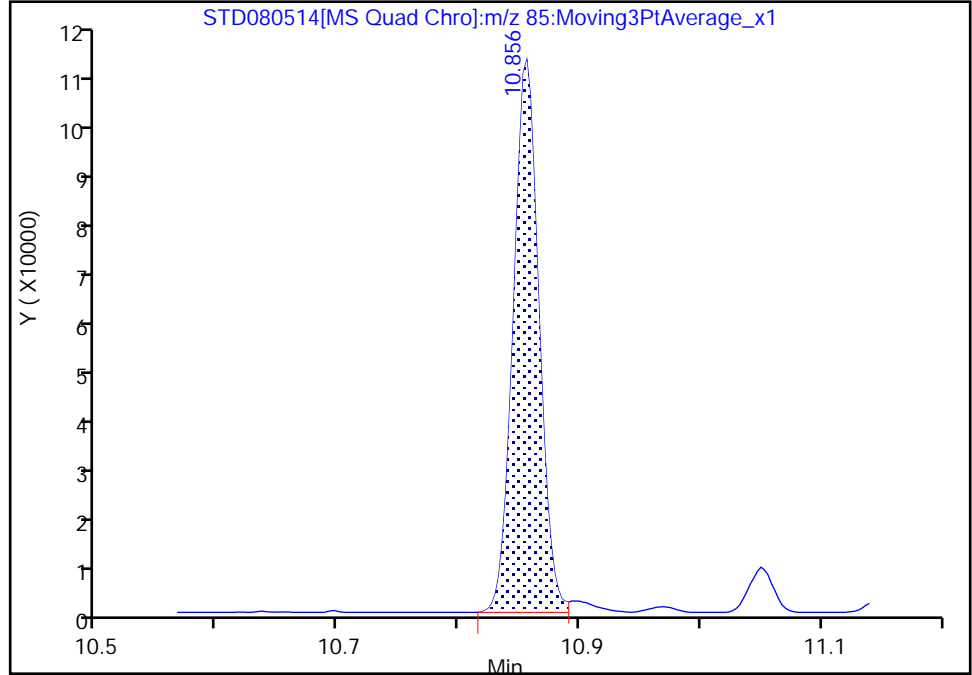
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Injection Date: 14-May-2022 12:19:04 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 2

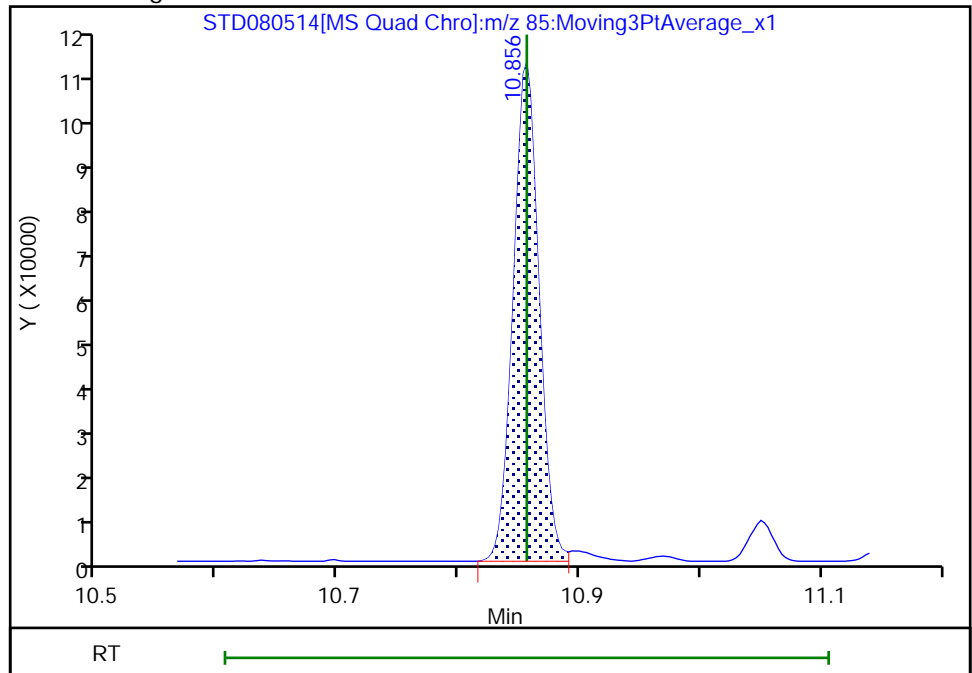
RT: 10.86
Area: 164741
Amount: 93.307494
Amount Units: ug/l

Processing Integration Results



RT: 10.86
Area: 164741
Amount: 74.411878
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:38:00
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

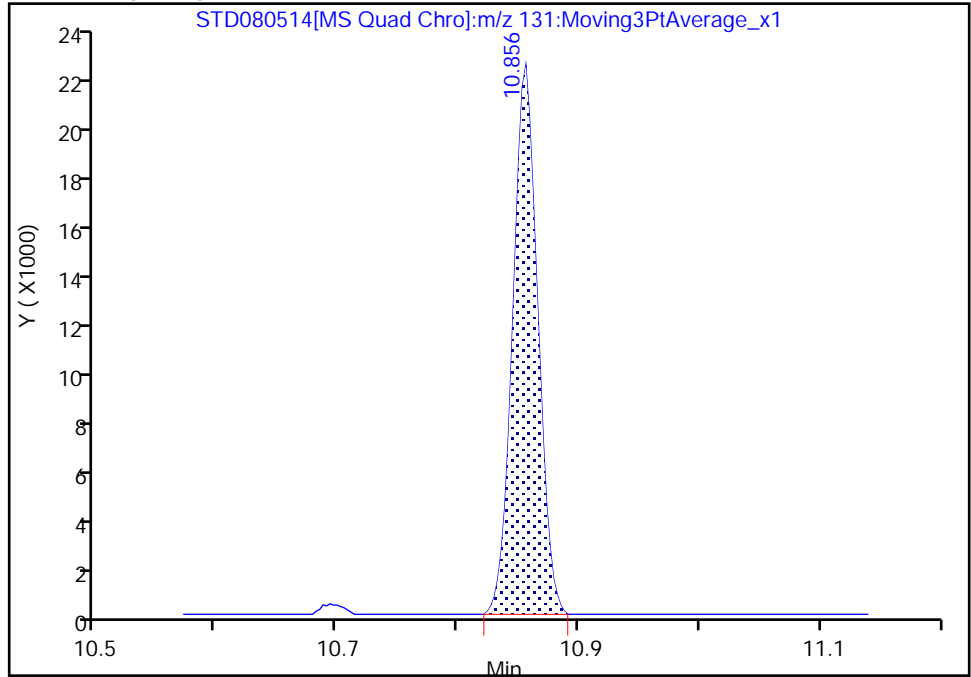
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD080514.D
Injection Date: 14-May-2022 12:19:04 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 3

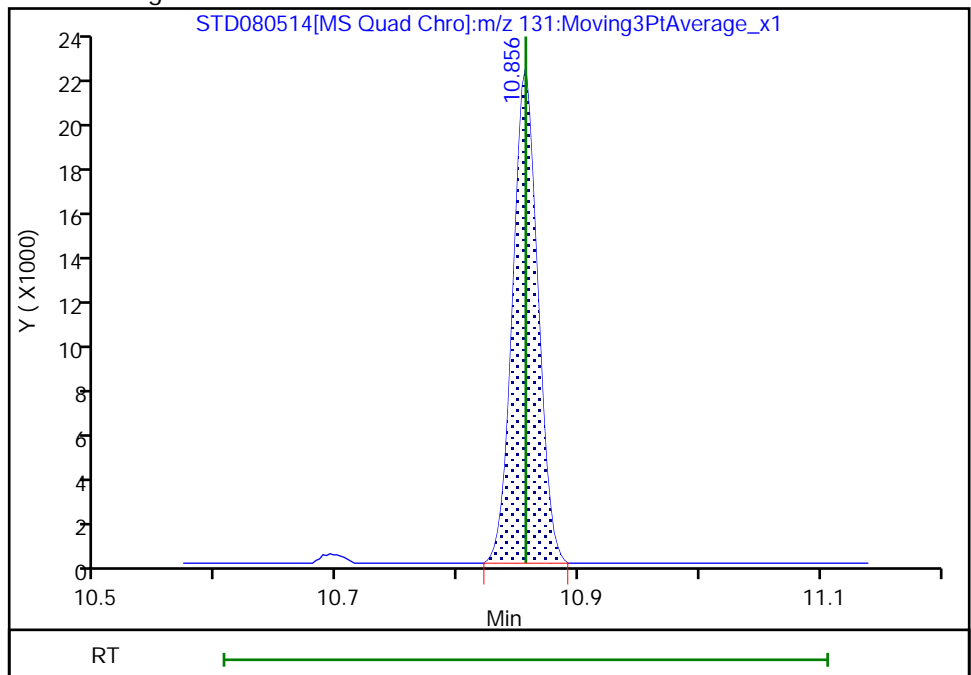
RT: 10.86
Area: 32083
Amount: 93.307494
Amount Units: ug/l

Processing Integration Results



RT: 10.86
Area: 32083
Amount: 74.411878
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Lims ID: STD09
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-May-2022 12:42:38 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD09
 Misc. Info.: 500-0085710-011
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:48 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date:

15-May-2022 13:19:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
11 Ethyl ether	59	2.795	2.795	0.000	89	277676	150.0	123.3	
12 Acrolein	56	2.914	2.914	0.000	96	1209475	6000.0	5593.8	
13 1,1-Dichloroethene	96	2.995	2.995	0.000	87	493508	150.0	144.4	
14 1,1,2-Trichloro-1,2,2-trifluoro	101	3.015	3.021	-0.006	84	529191	150.0	144.3	
15 Acetone	43	3.059	3.059	0.000	96	79789	150.0	140.4	
16 Iodomethane	142	3.134	3.134	0.000	98	956641	150.0	136.5	
17 Carbon disulfide	76	3.195	3.195	0.000	100	1440307	150.0	131.4	
20 3-Chloro-1-propene	76	3.328	3.328	0.000	90	278221	150.0	134.2	
21 Methyl acetate	43	3.351	3.351	0.000	96	411186	300.0	258.1	
22 Methylene Chloride	84	3.438	3.438	0.000	85	457404	150.0	138.5	
* 23 TBA-d9 (IS)	65	3.490	3.484	0.006	0	245644	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.563	3.560	0.003	99	388237	1500.0	1393.8	
25 Acrylonitrile	53	3.670	3.670	0.000	99	1063241	1500.0	1301.6	
26 trans-1,2-Dichloroethene	96	3.690	3.690	0.000	80	601845	150.0	150.7	
27 Methyl tert-butyl ether	73	3.696	3.696	0.000	88	1238375	150.0	143.8	
28 Hexane	57	3.939	3.939	0.000	90	688943	150.0	126.3	
29 1,1-Dichloroethane	63	4.081	4.084	-0.003	85	736107	150.0	129.0	
30 Vinyl acetate	43	4.127	4.127	0.000	99	716329	150.0	134.3	
35 cis-1,2-Dichloroethene	96	4.631	4.631	0.000	86	514731	150.0	132.7	
34 2,2-Dichloropropane	77	4.631	4.631	0.000	61	484853	150.0	125.0	
36 2-Butanone (MEK)	43	4.645	4.648	-0.003	54	128392	150.0	135.9	
40 Chlorobromomethane	128	4.866	4.863	0.003	81	273428	150.0	132.0	
41 Tetrahydrofuran	42	4.912	4.912	0.000	85	165181	300.0	282.2	
42 Chloroform	83	4.938	4.938	0.000	82	753952	150.0	144.0	
\$ 43 Dibromofluoromethane	113	5.094	5.097	-0.003	82	481419	150.0	140.1	
44 1,1,1-Trichloroethane	97	5.123	5.126	-0.003	90	709678	150.0	134.3	
45 Cyclohexane	56	5.181	5.181	0.000	89	699197	150.0	131.4	
47 1,1-Dichloropropene	75	5.285	5.285	0.000	90	636205	150.0	135.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Carbon tetrachloride	117	5.288	5.288	0.000	86	758111	150.0	142.3	
48 Isobutyl alcohol	43	5.395	5.392	0.003	95	379689	3750.0	3505.5	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.439	5.439	0.000	75	393033	150.0	140.1	
50 Benzene	78	5.500	5.500	0.000	95	1827883	150.0	136.3	
51 1,2-Dichloroethane	62	5.514	5.514	0.000	72	538083	150.0	142.9	
54 n-Heptane	43	5.757	5.757	0.000	86	633030	150.0	135.3	
* 55 Fluorobenzene (IS)	96	5.778	5.780	-0.002	97	606080	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	85	581614	150.0	132.3	
59 Methylcyclohexane	83	6.371	6.371	0.000	91	799417	150.0	131.5	
60 1,2-Dichloropropane	63	6.409	6.409	0.000	93	393476	150.0	129.3	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	21137	1000.0	1000.0	M
63 Dibromomethane	93	6.536	6.536	0.000	91	251090	150.0	129.1	
65 1,4-Dioxane	88	6.554	6.553	0.001	45	61644	3000.0	2602.5	
66 Dichlorobromomethane	83	6.707	6.707	0.000	92	557826	150.0	127.4	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	91	190694	150.0	141.5	
69 cis-1,3-Dichloropropene	75	7.211	7.214	-0.003	92	651901	150.0	141.2	
70 4-Methyl-2-pentanone (MIBK)	43	7.393	7.390	0.003	97	286205	150.0	140.1	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.523	0.003	93	1789550	150.0	159.6	
72 Toluene	92	7.605	7.602	0.002	93	1262584	150.0	159.3	
73 trans-1,3-Dichloropropene	75	7.865	7.865	0.000	89	569689	150.0	140.0	
74 Ethyl methacrylate	69	7.975	7.975	0.000	94	431795	150.0	135.9	
75 1,1,2-Trichloroethane	97	8.088	8.088	0.000	86	322183	150.0	140.4	
76 Tetrachloroethene	166	8.259	8.259	0.000	90	589467	150.0	144.6	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	518757	150.0	138.4	
78 2-Hexanone	43	8.398	8.398	0.000	96	193902	150.0	138.1	
79 Chlorodibromomethane	129	8.572	8.572	0.000	87	486770	150.0	142.2	
81 Ethylene Dibromide	107	8.716	8.713	0.003	99	336717	150.0	137.9	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	82	424263	50.0	50.0	
84 Chlorobenzene	112	9.342	9.342	0.000	92	1352987	150.0	147.9	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	90	528509	150.0	141.7	
86 Ethylbenzene	91	9.486	9.486	0.000	98	2187757	150.0	147.4	
87 m-Xylene & p-Xylene	91	9.640	9.640	0.000	98	1756642	150.0	151.8	
88 o-Xylene	91	10.121	10.118	0.003	92	1856619	150.0	153.2	
89 Styrene	104	10.135	10.135	0.000	94	1750530	150.0	169.8	
90 Bromoform	173	10.341	10.341	0.000	98	325933	150.0	149.9	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	2673426	150.0	133.3	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.697	0.000	96	585238	150.0	138.6	
95 Bromobenzene	156	10.850	10.850	0.000	79	717682	150.0	132.9	
97 1,2,3-Trichloropropane	110	10.899	10.896	0.003	84	141162	150.0	141.7	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	91	109015	150.0	140.5	
99 N-Propylbenzene	91	10.969	10.966	0.003	97	2918630	150.0	129.0	
100 2-Chlorotoluene	91	11.050	11.050	0.000	95	1647795	150.0	132.4	
101 1,3,5-Trimethylbenzene	105	11.146	11.145	0.001	93	2443545	150.0	141.1	
102 4-Chlorotoluene	91	11.160	11.157	0.003	97	2083080	150.0	136.6	
104 tert-Butylbenzene	119	11.461	11.458	0.003	89	2297098	150.0	140.2	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.001	95	2472028	150.0	140.8	
107 sec-Butylbenzene	105	11.667	11.664	0.003	93	3256989	150.0	138.4	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	96	1548308	150.0	138.3	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	3118551	150.0	145.2	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	92	357984	50.0	50.0	a
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	97	1628062	150.0	139.7	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	2381487	150.0	130.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
114 1,2-Dichlorobenzene	146	12.170	12.170	0.000	98	1558823	150.0	142.3	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	67	72467	150.0	137.1	
120 Naphthalene	128	13.650	13.650	0.000	99	1718543	150.0	140.7	
121 1,2,3-Trichlorobenzene	180	13.830	13.829	0.001	95	773166	150.0	143.0	
S 124 Xylenes, Total	1				0			305.0	
S 125 Trihalomethanes, Total	1				0			563.6	
S 126 1,2-Dichloroethene, Total	1				0			283.4	
S 127 Trimethylbenzene, Total	1				0			281.9	
S 128 1,3-Dichloropropene, Total	1				0			281.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00193	Amount Added: 15.00	Units: uL
8260/624ACRWK_00666	Amount Added: 7.50	Units: uL
8260VA/2CEVE_00591	Amount Added: 7.50	Units: uL
8260/624GASWK_01433	Amount Added: 7.50	Units: uL
8260/624KETWK_00617	Amount Added: 7.50	Units: uL
8260/624MEGWK_01363	Amount Added: 7.50	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD09

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

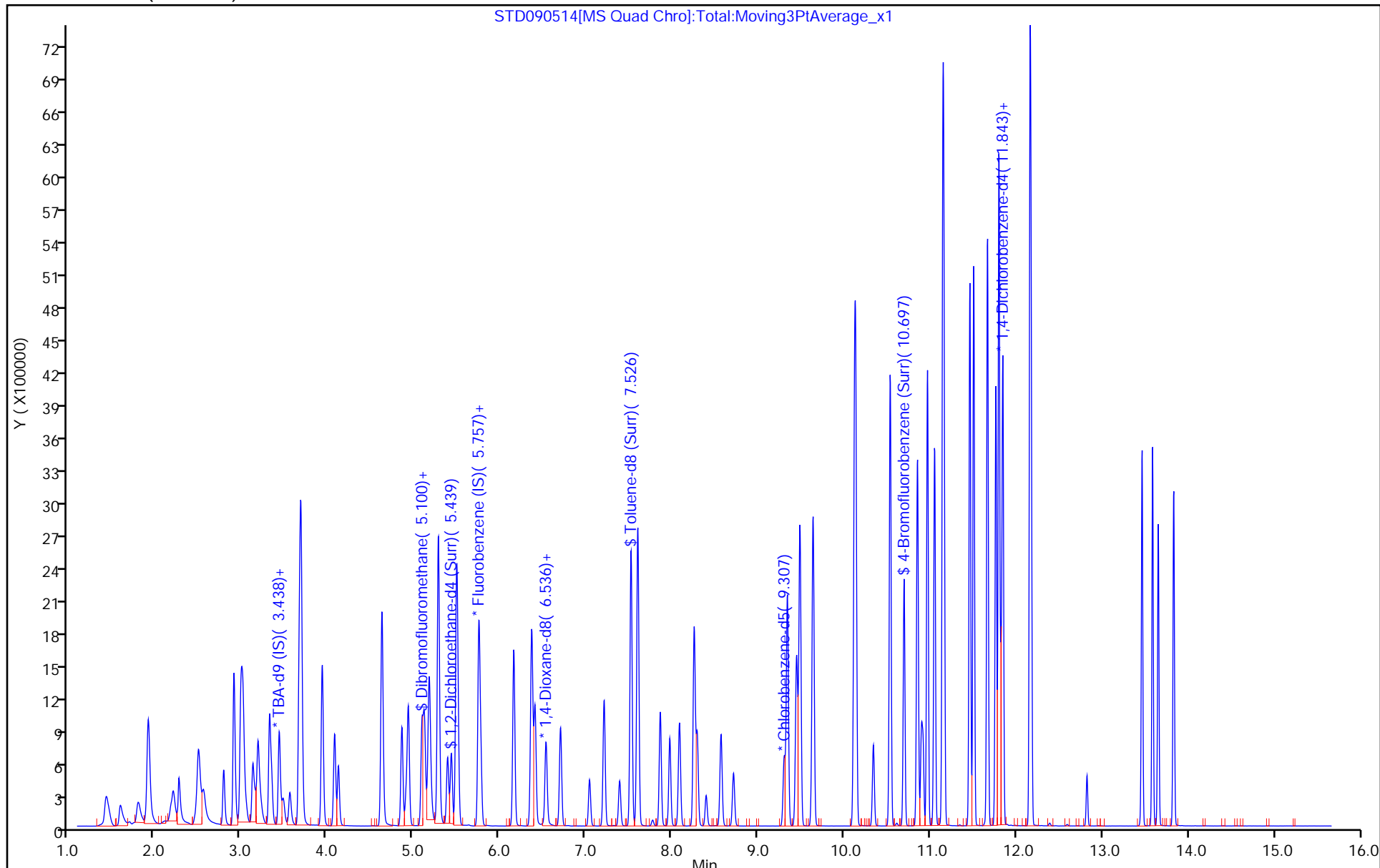
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

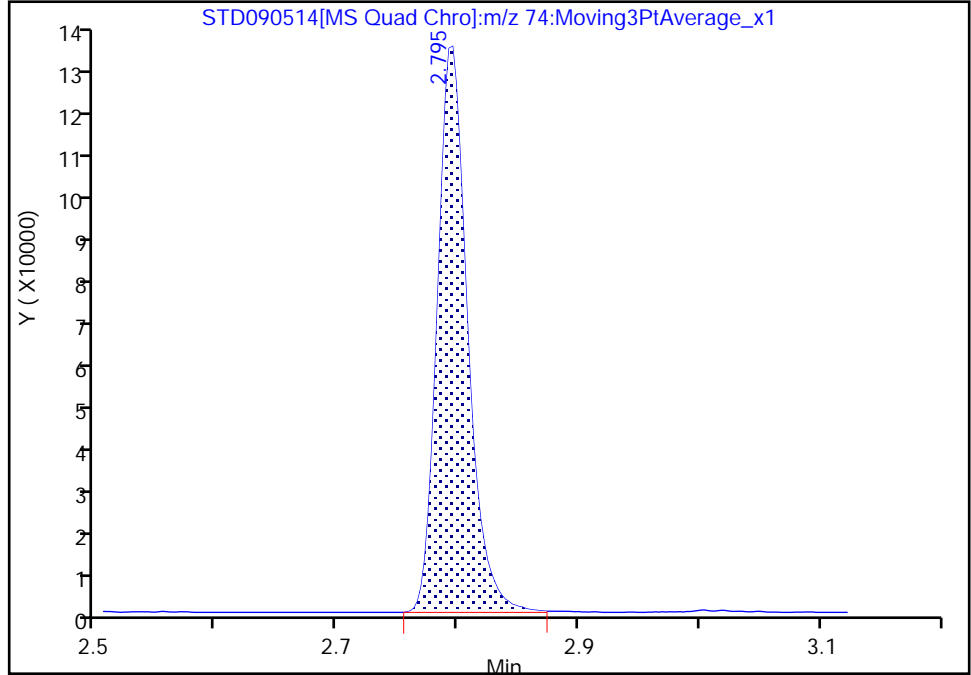
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

11 Ethyl ether, CAS: 60-29-7

Signal: 2

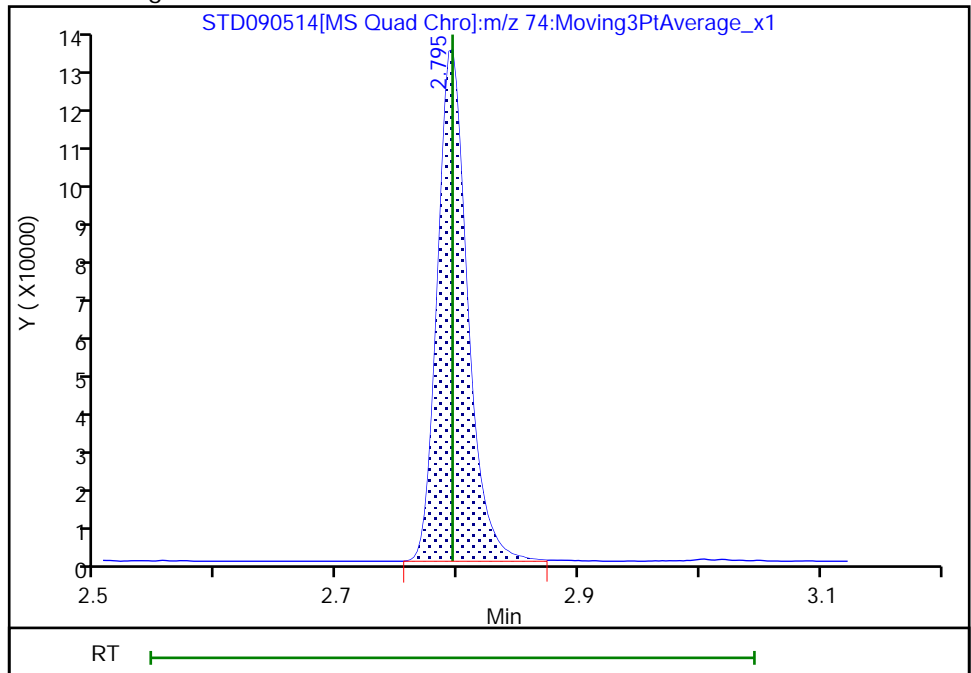
RT: 2.80
Area: 220642
Amount: 123.3256
Amount Units: ug/l

Processing Integration Results



RT: 2.80
Area: 220642
Amount: 123.3256
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

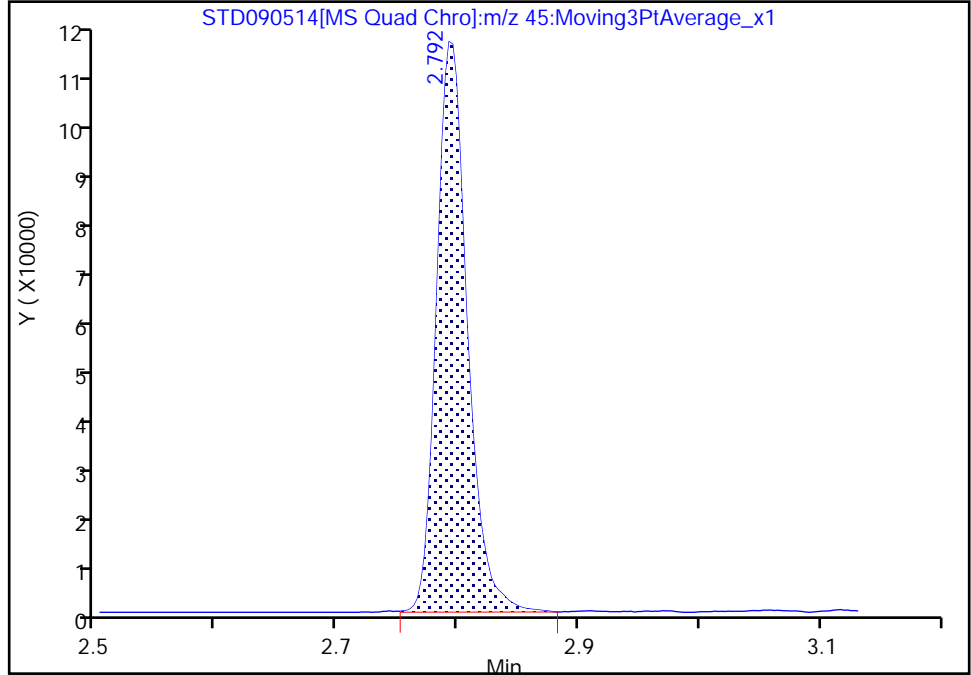
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

11 Ethyl ether, CAS: 60-29-7

Signal: 3

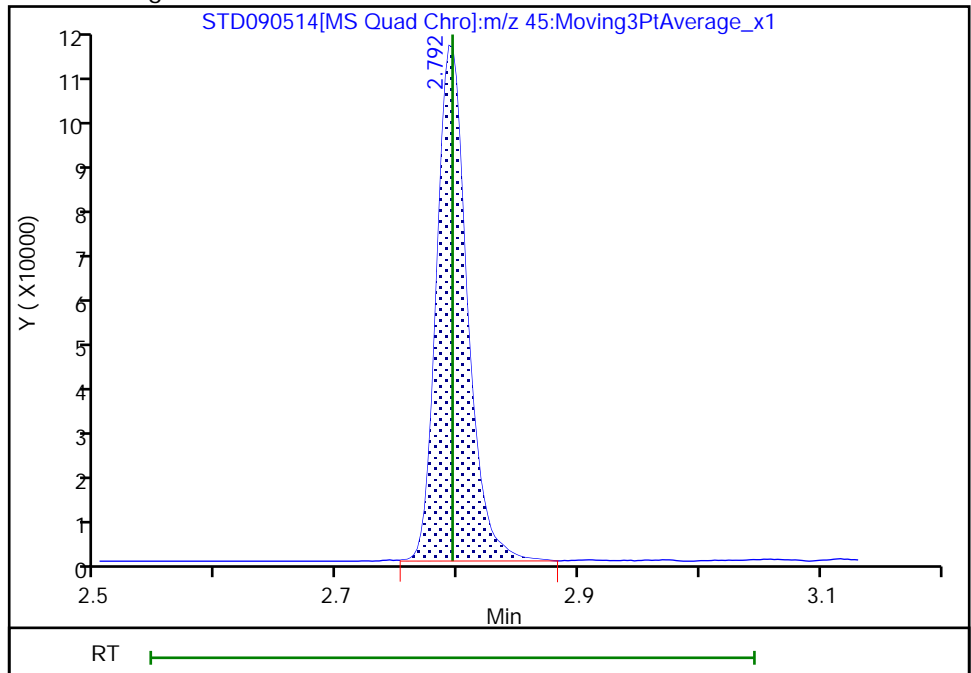
Processing Integration Results

RT: 2.79
Area: 189912
Amount: 123.3256
Amount Units: ug/l



Manual Integration Results

RT: 2.79
Area: 189912
Amount: 123.3256
Amount Units: ug/l



Eurofins Chicago

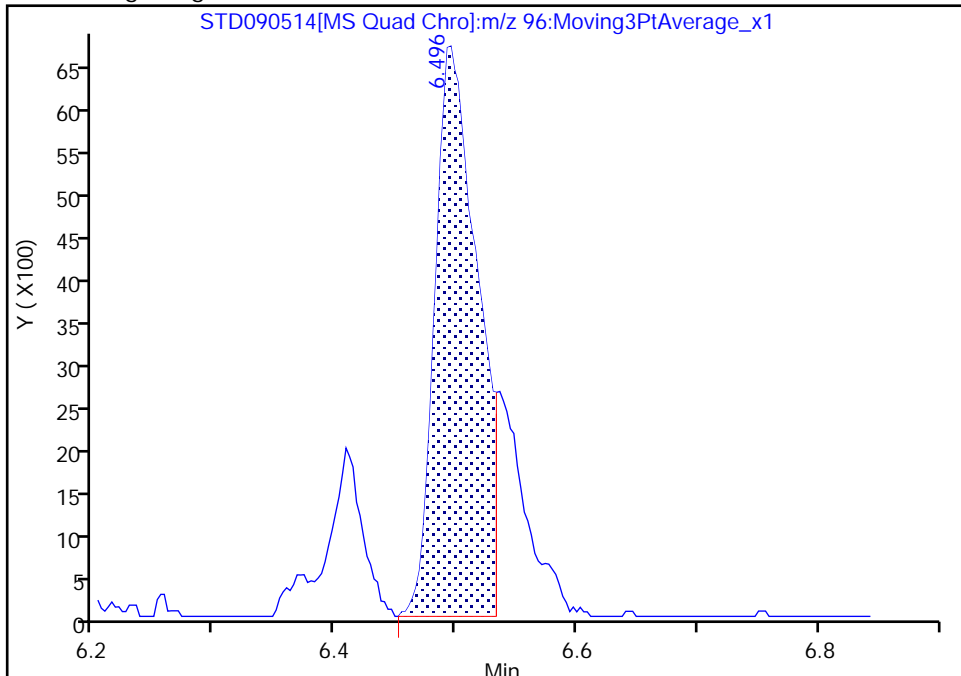
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

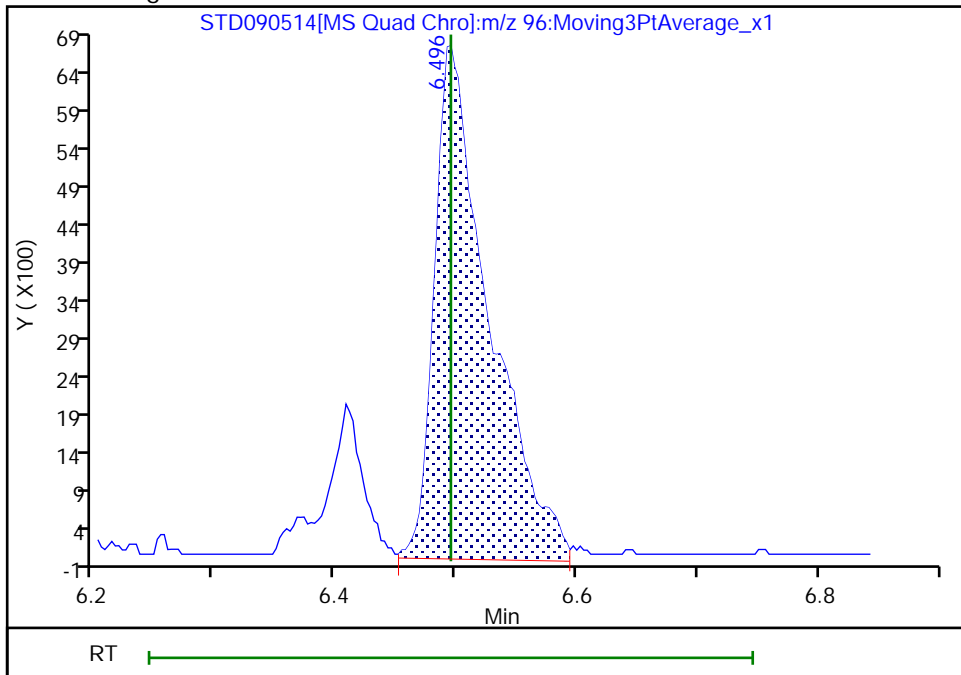
RT: 6.50
Area: 16439
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 21137
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:46:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

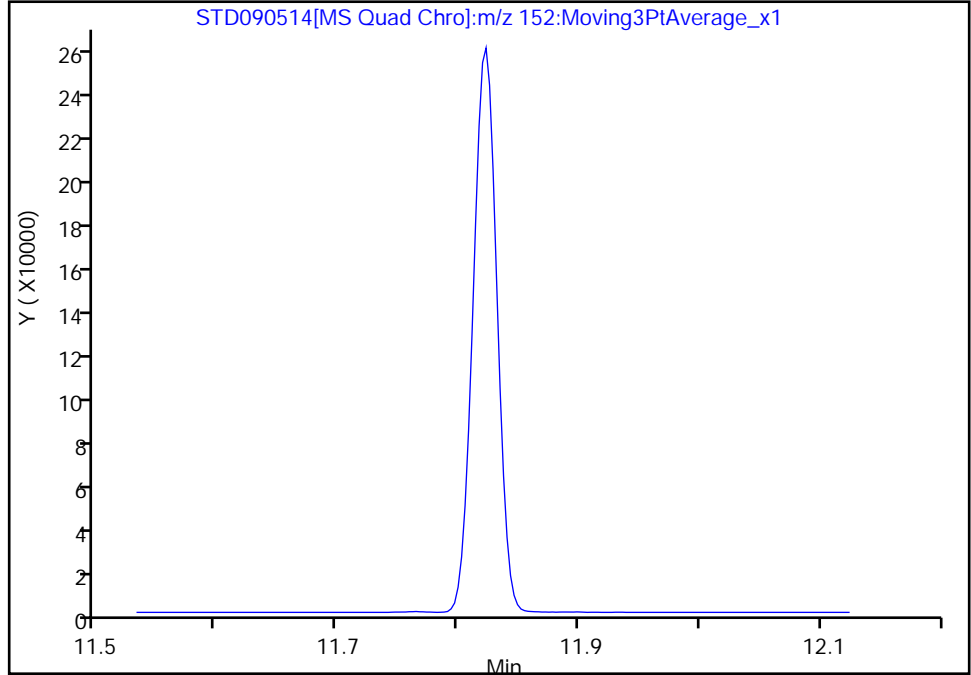
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

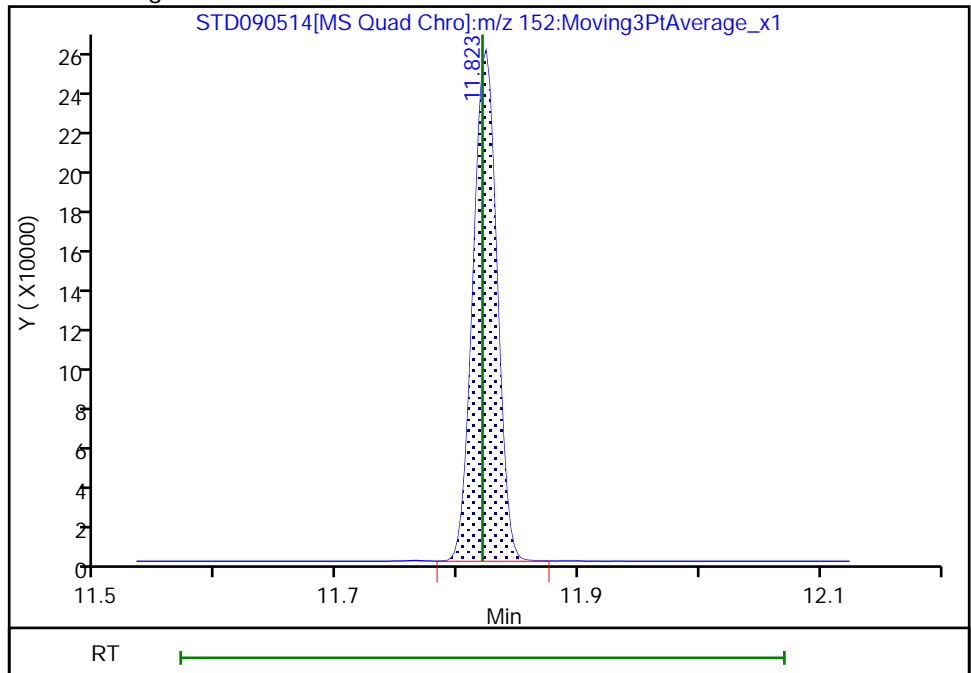
* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

Not Detected
Expected RT: 11.82

Processing Integration Results



Manual Integration Results



RT: 11.82
Area: 357984
Amount: 50.000000
Amount Units: ug/l

Eurofins Chicago

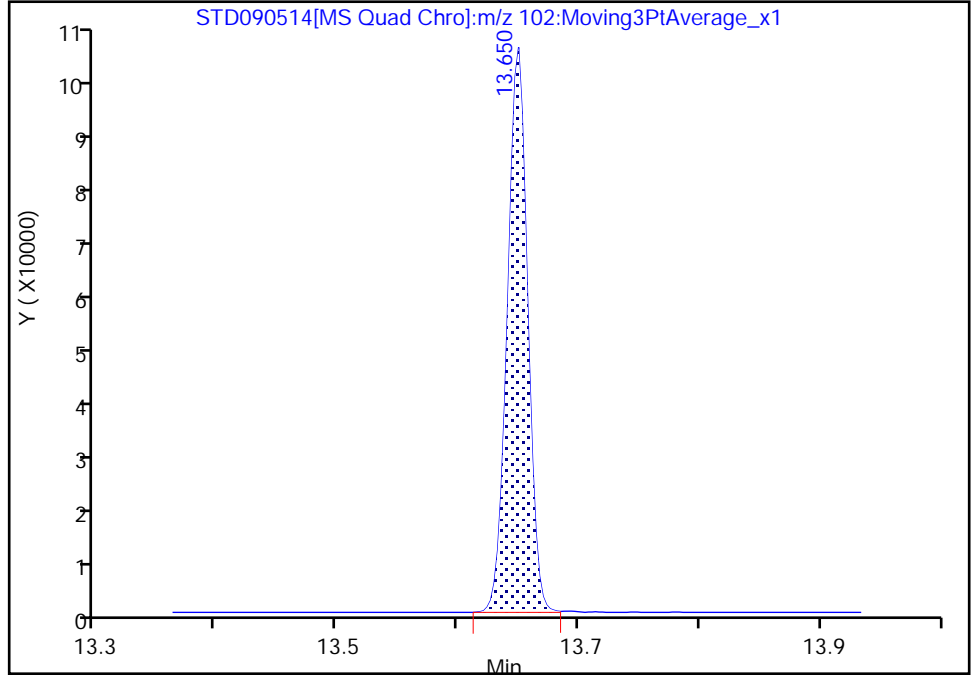
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 2

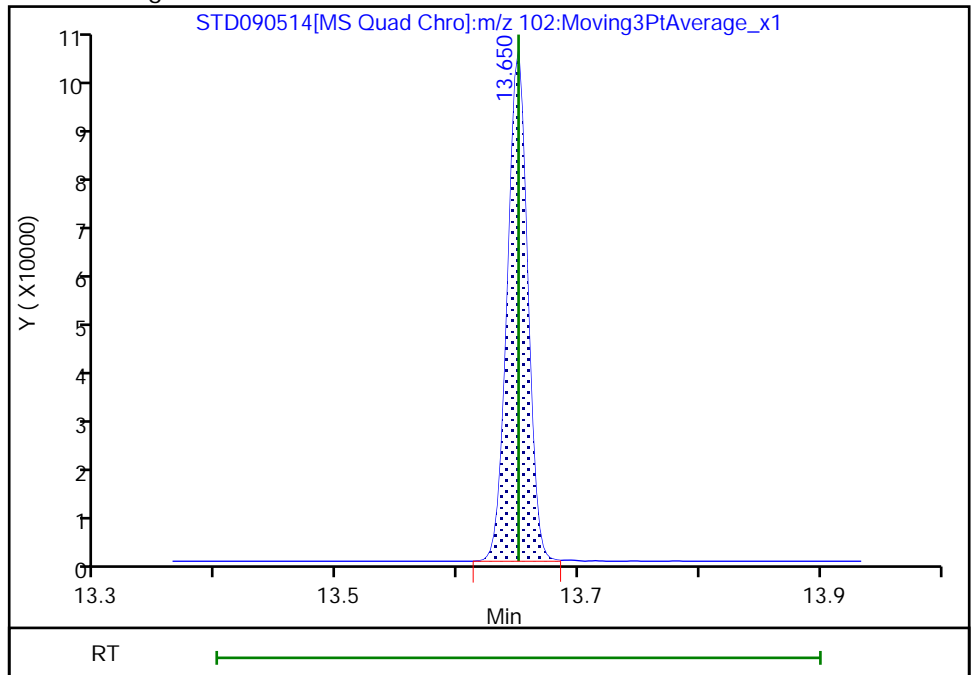
RT: 13.65
Area: 122979
Amount: 156.8328
Amount Units: ug/l

Processing Integration Results



RT: 13.65
Area: 122979
Amount: 140.7153
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

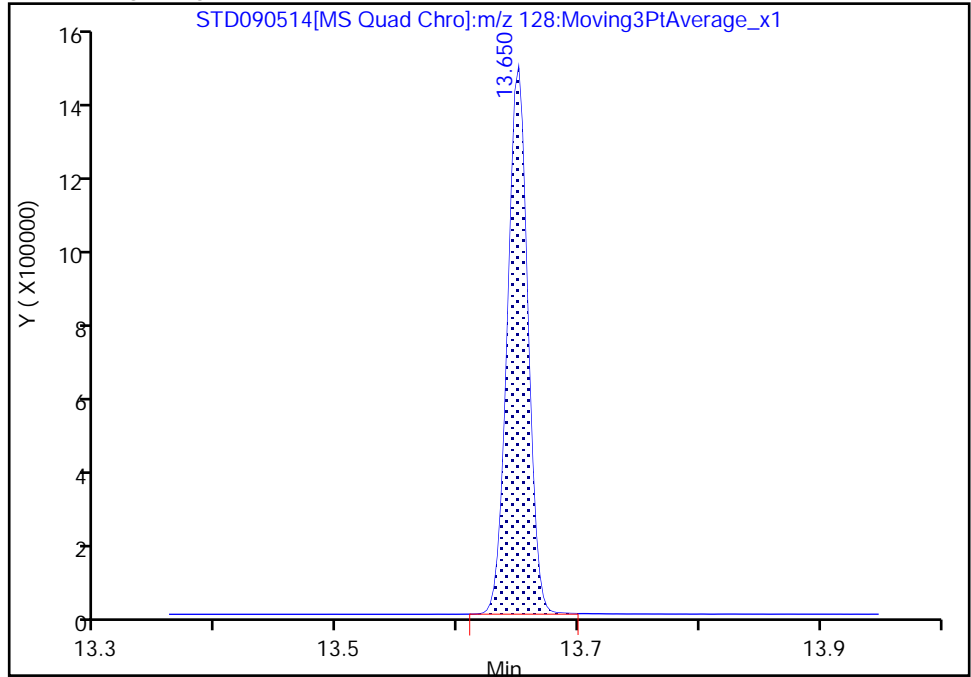
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 3

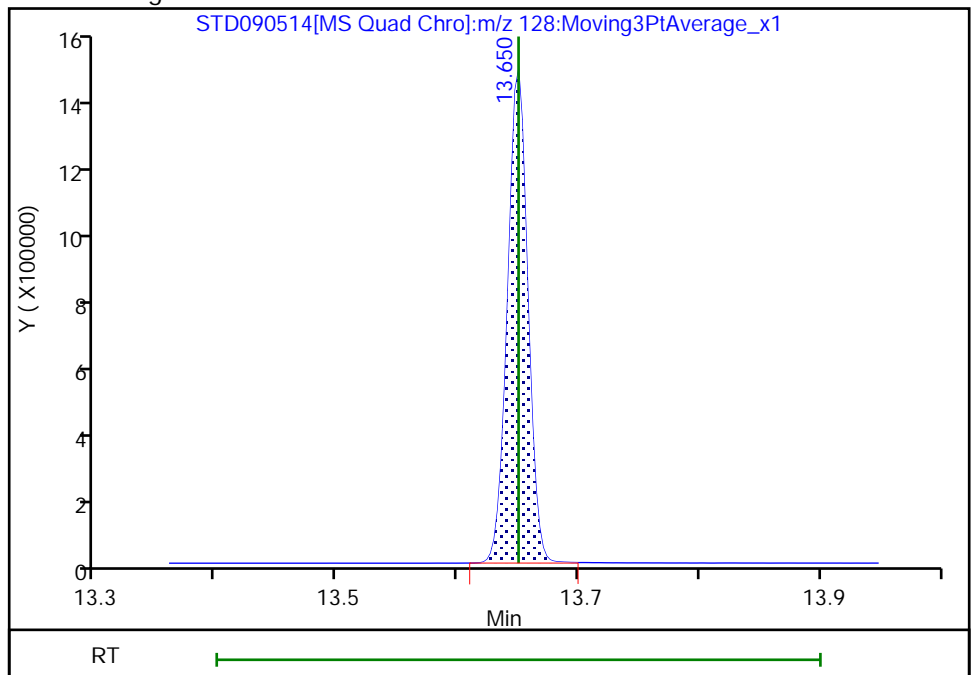
RT: 13.65
Area: 1718543
Amount: 156.8328
Amount Units: ug/l

Processing Integration Results



RT: 13.65
Area: 1718543
Amount: 140.7153
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

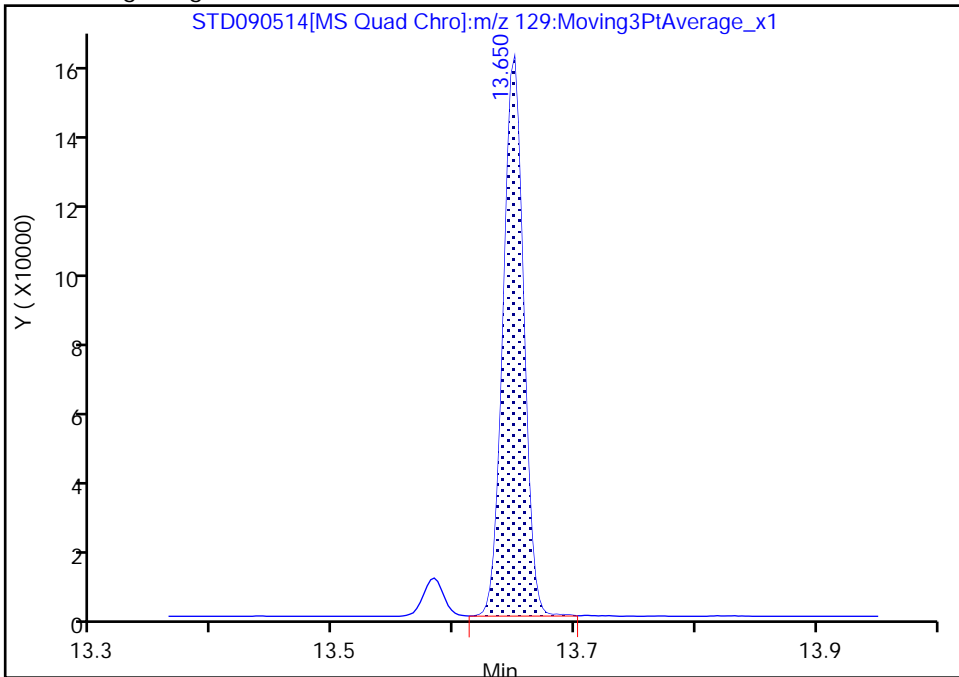
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 4

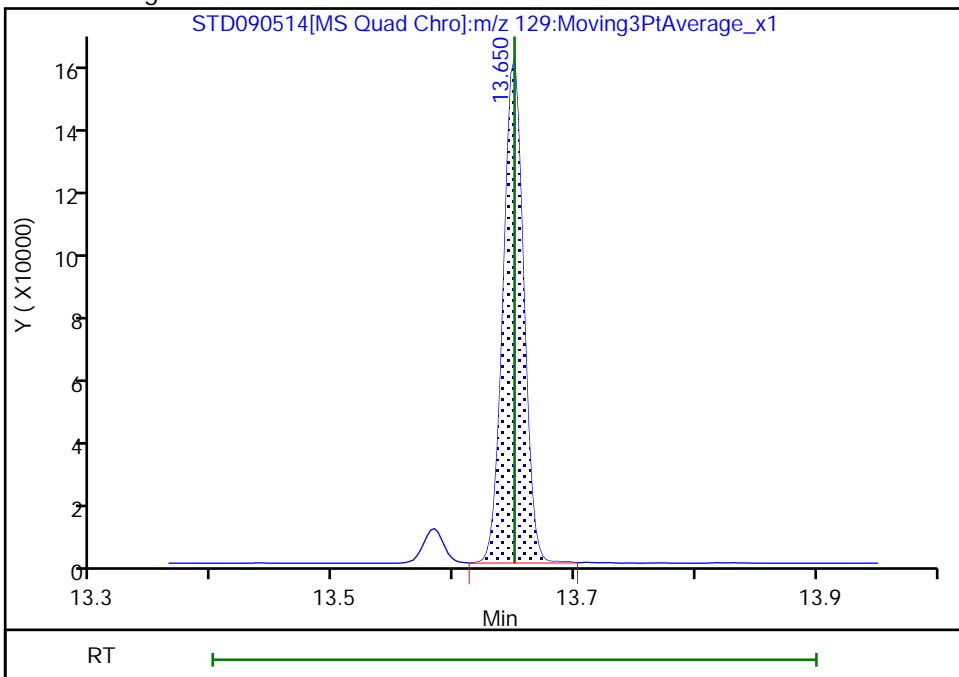
Processing Integration Results

RT: 13.65
Area: 189519
Amount: 156.8328
Amount Units: ug/l



Manual Integration Results

RT: 13.65
Area: 189519
Amount: 140.7153
Amount Units: ug/l

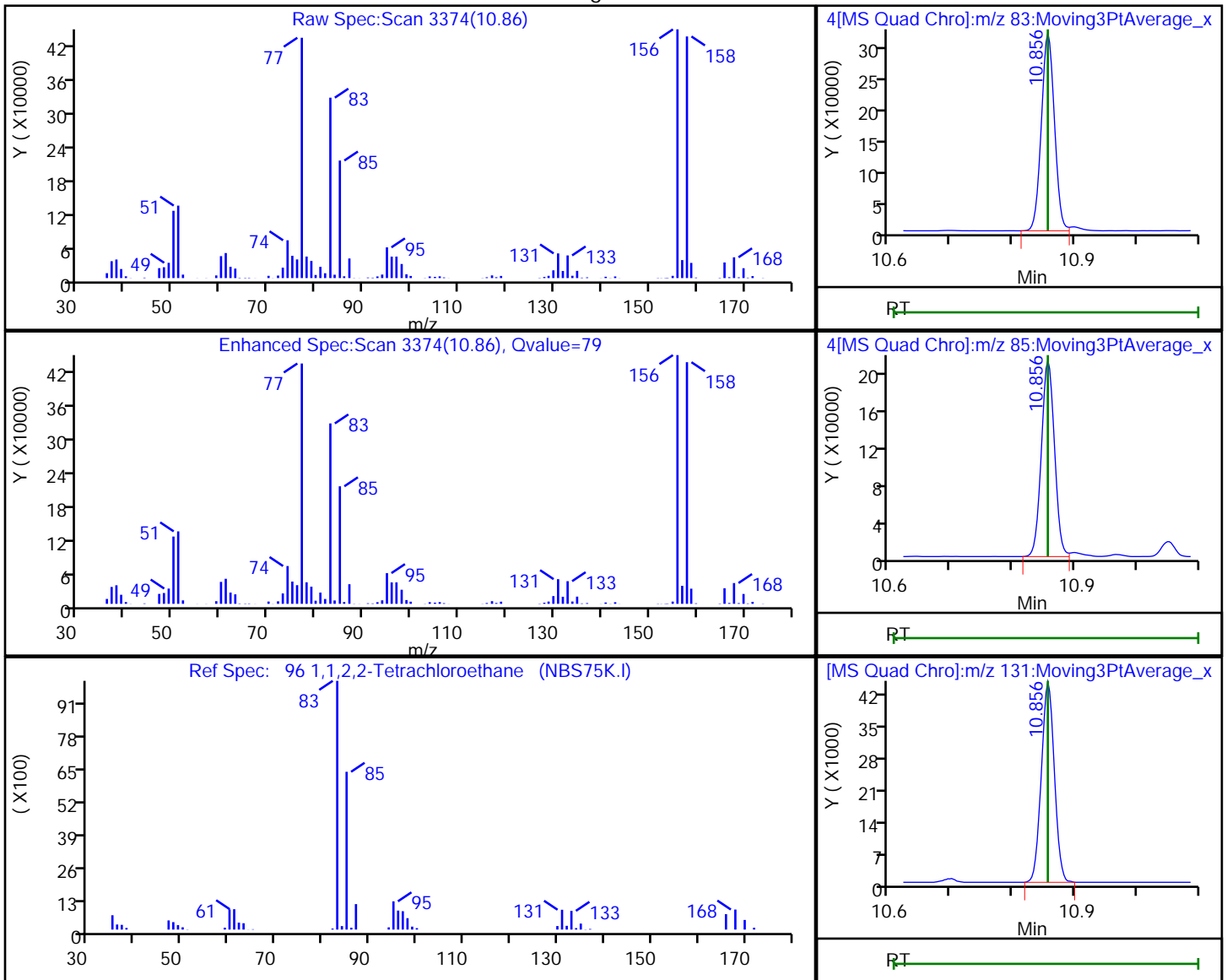


Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
10.86	83.00	467469	158.4762
10.86	85.00	303453	
10.86	131.00	64995	

Reviewer: ficarellp, 17-May-2022 07:58:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

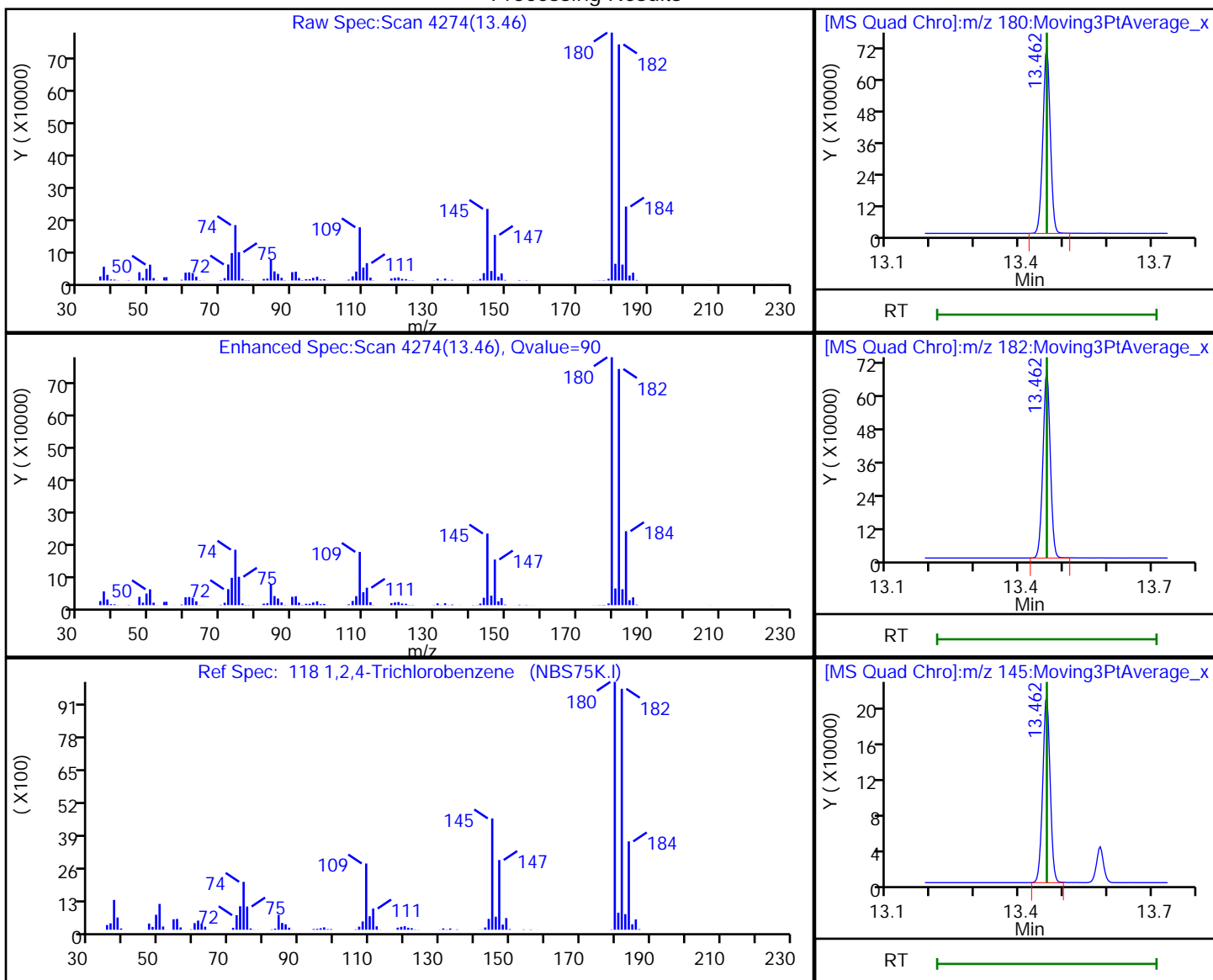
Column: DB624 (0.20 mm)

Detector

MS SCAN

118 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.46	180.00	838131	158.1563
13.46	182.00	799123	
13.46	145.00	242651	

Reviewer: ficarello, 17-May-2022 08:17:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

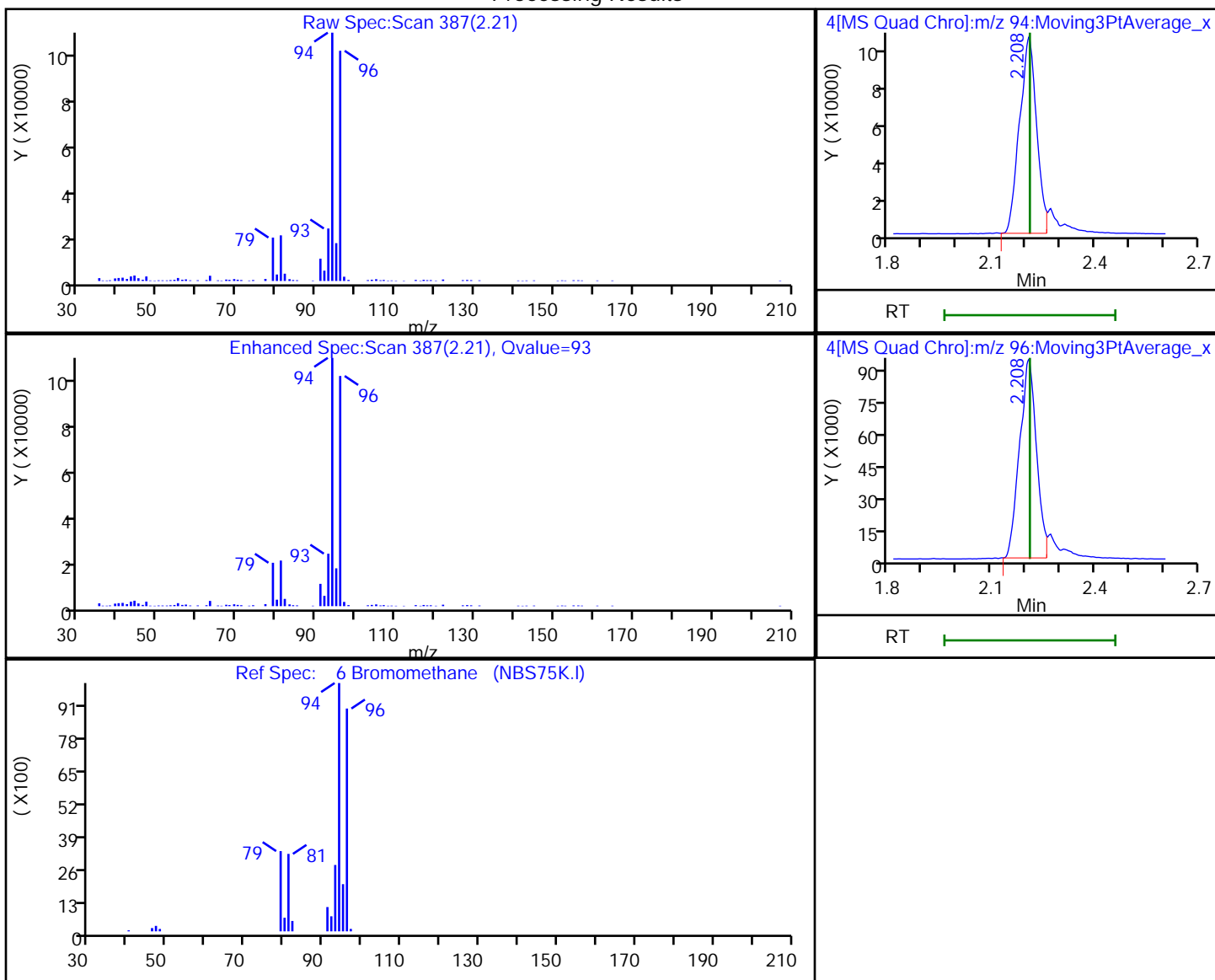
Column: DB624 (0.20 mm)

Detector

MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.21	94.00	346364	121.5783
2.21	96.00	324463	

Reviewer: ficarello, 17-May-2022 07:53:02

Audit Action: Marked Compound Undetected

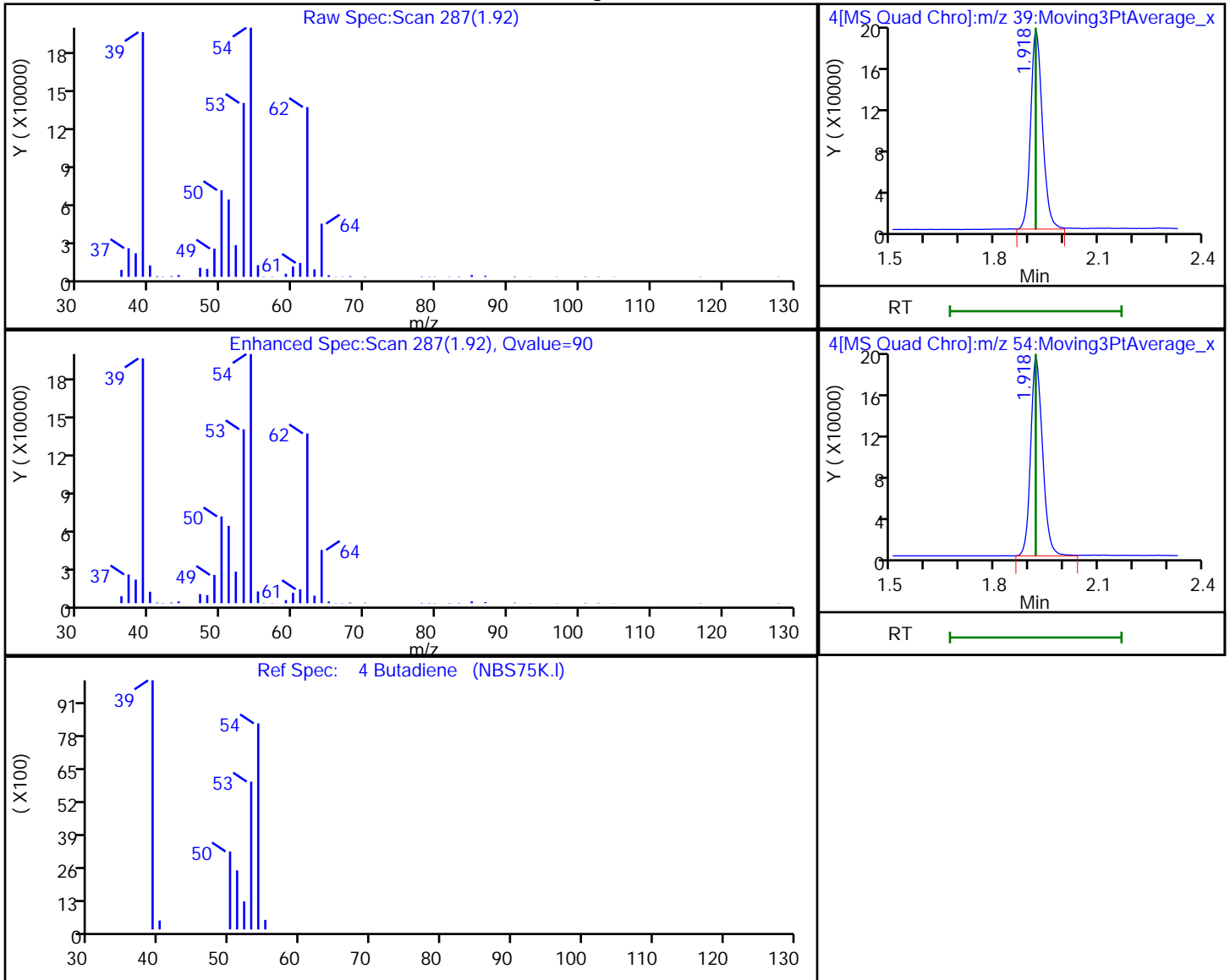
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

4 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
1.92	39.00	451770	127.3398
1.92	54.00	463215	

Reviewer: ficarello, 17-May-2022 07:53:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

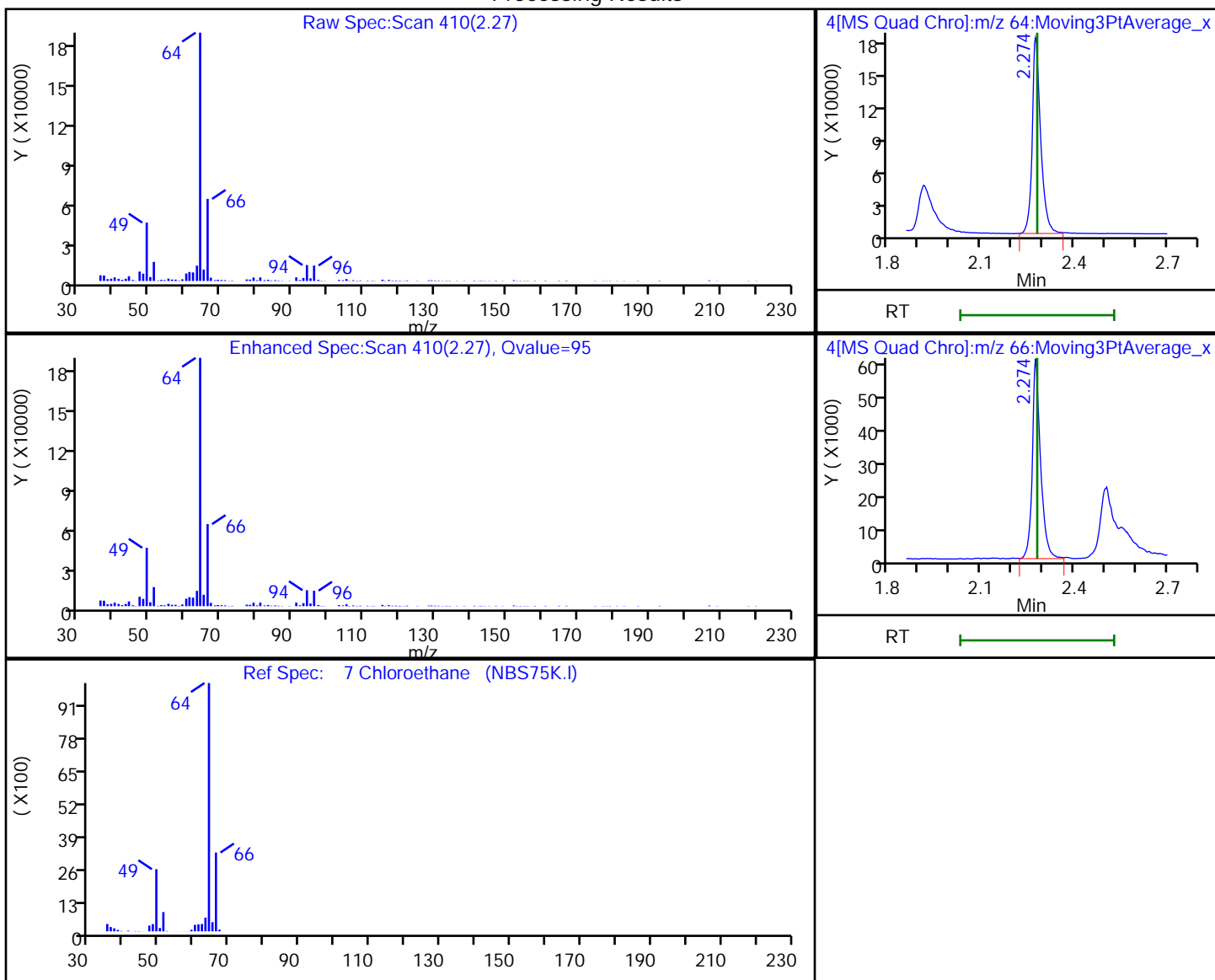
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.27	64.00	347823	145.1312
2.27	66.00	115154	

Reviewer: ficarello, 17-May-2022 07:53:00

Audit Action: Marked Compound Undetected

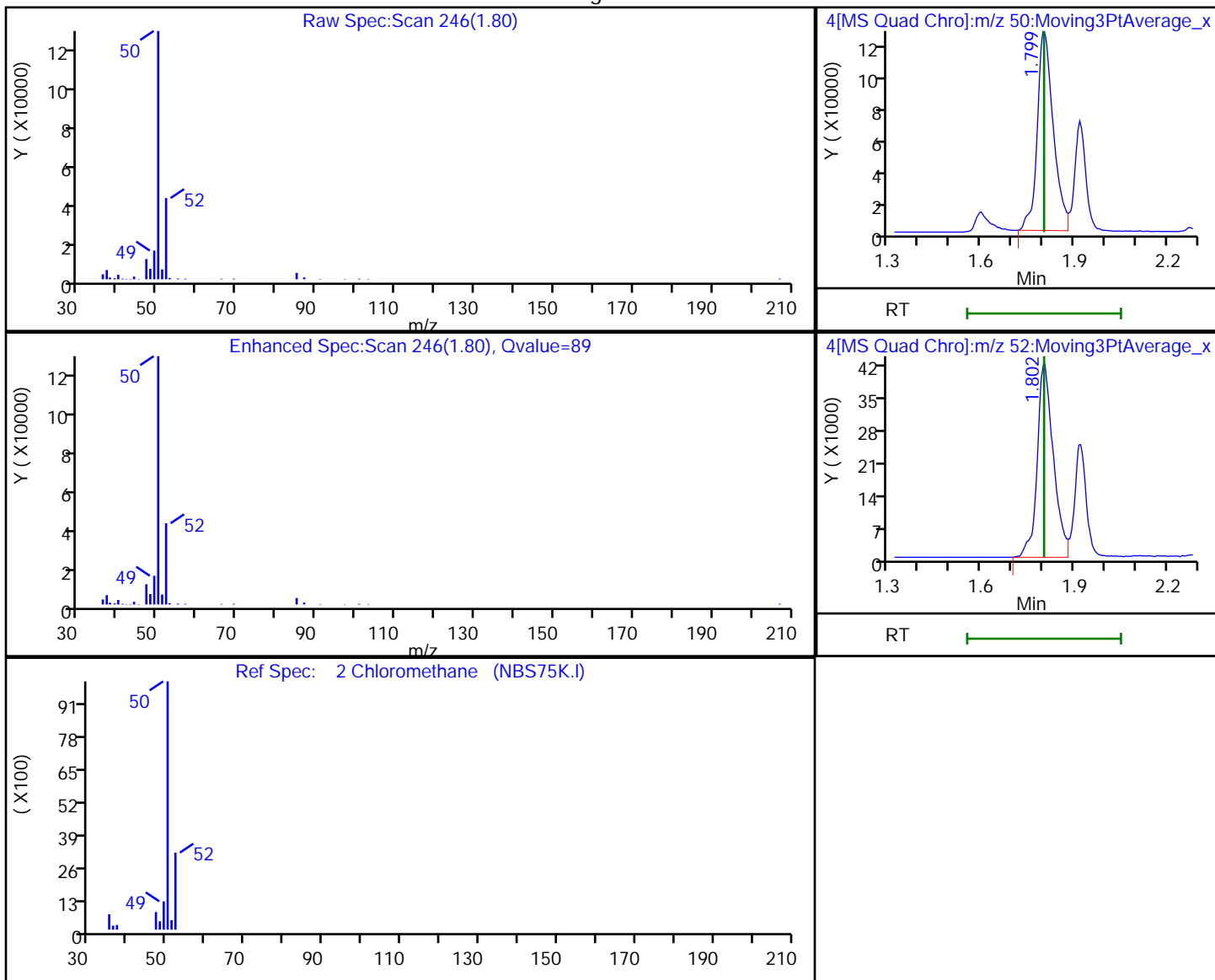
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.80	50.00	453421	138.3715
1.80	52.00	153767	

Reviewer: ficarello, 17-May-2022 07:53:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

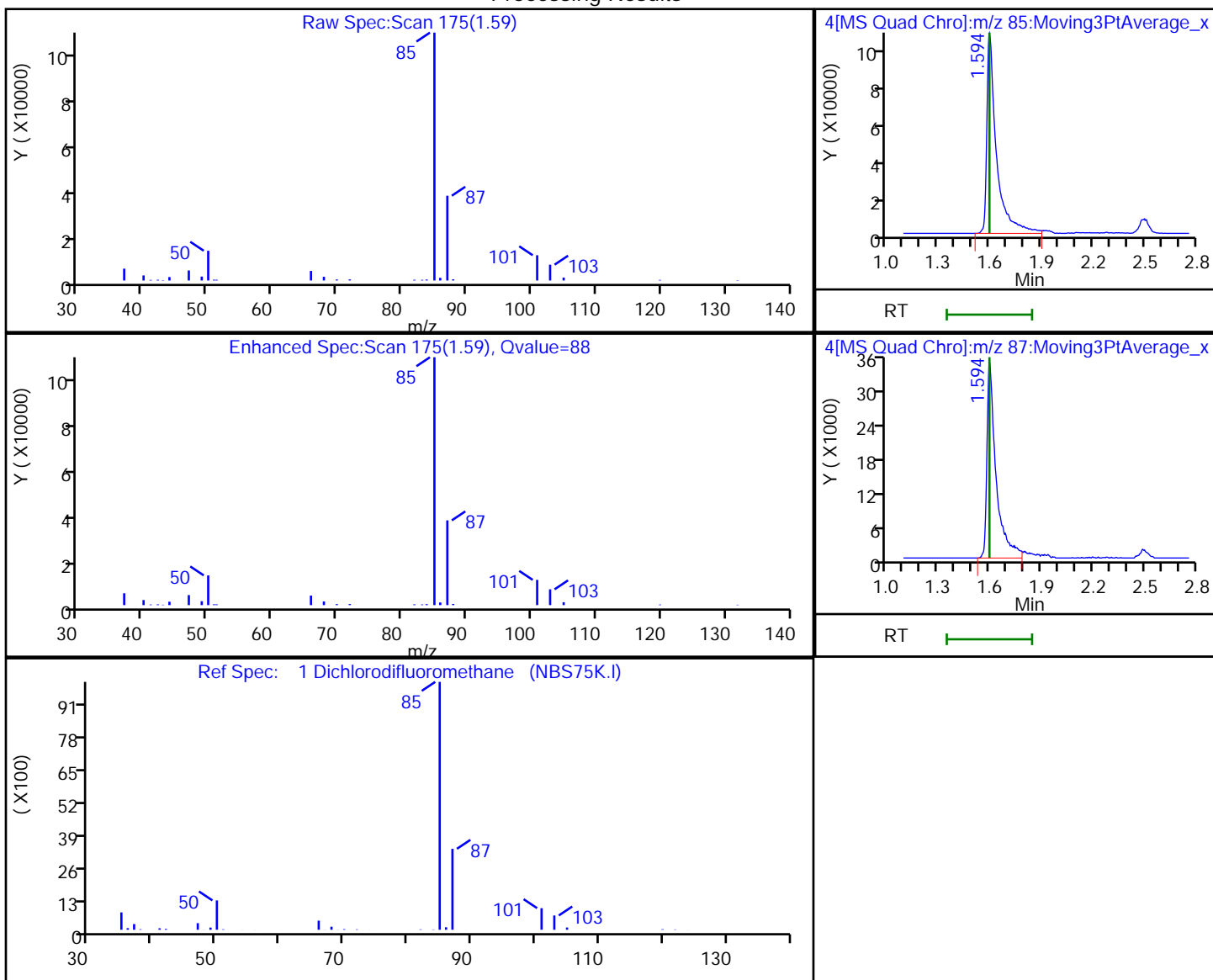
Column: DB624 (0.20 mm)

Detector

MS SCAN

1 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.59	85.00	407318	137.1031
1.59	87.00	129264	

Reviewer: ficarello, 17-May-2022 07:53:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

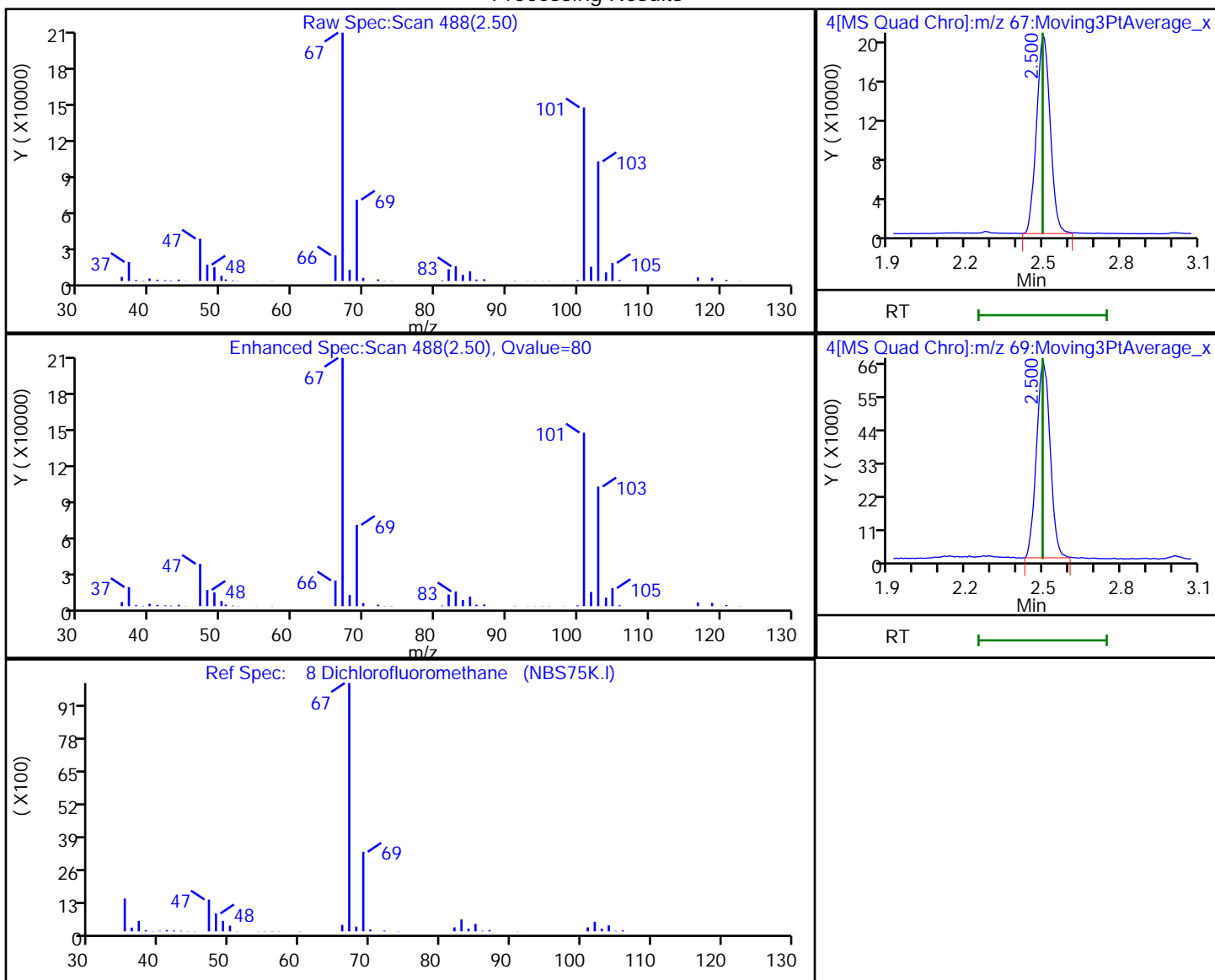
Column: DB624 (0.20 mm)

Detector

MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.50	67.00	748035	133.8743
2.50	69.00	242636	

Reviewer: ficarello, 17-May-2022 07:52:58

Audit Action: Marked Compound Undetected

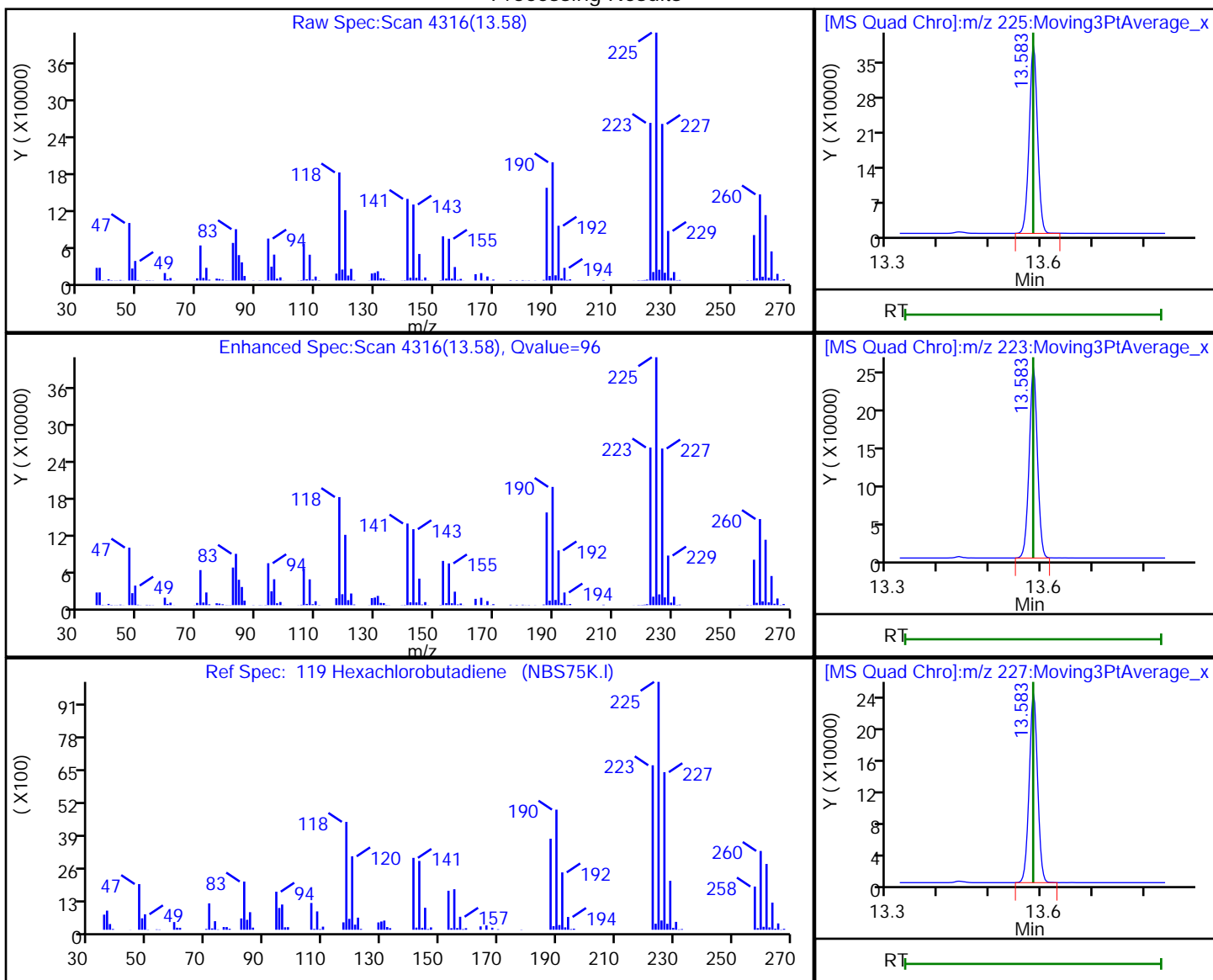
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.58	225.00	436008	160.8473
13.58	223.00	277646	
13.58	227.00	278301	

Reviewer: ficarellp, 17-May-2022 08:05:40
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D

Injection Date: 14-May-2022 12:42:38

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

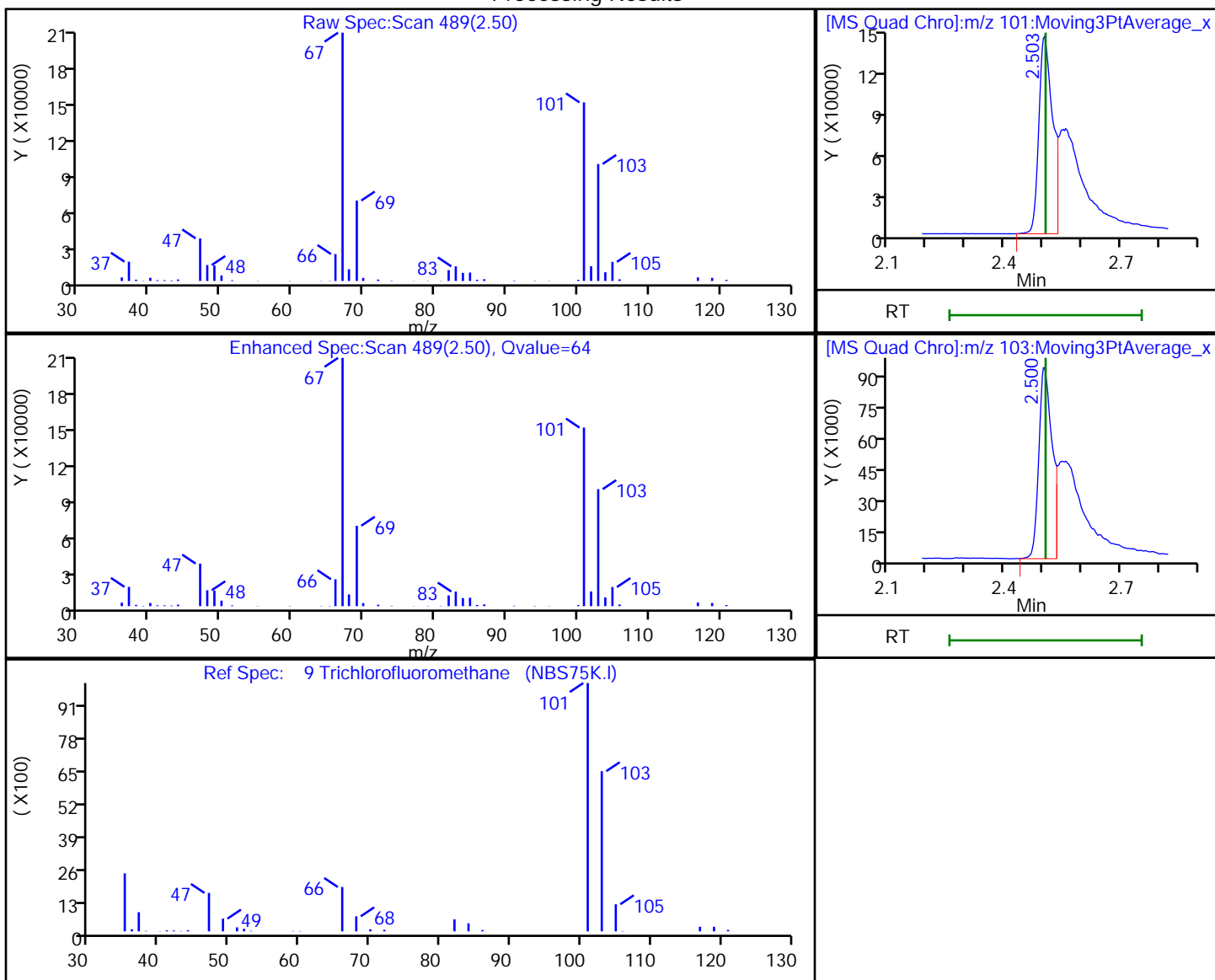
Column: DB624 (0.20 mm)

Detector

MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
2.50	101.00	355972	79.266525
2.50	103.00	226231	

Reviewer: ficarello, 17-May-2022 07:52:56

Audit Action: Marked Compound Undetected

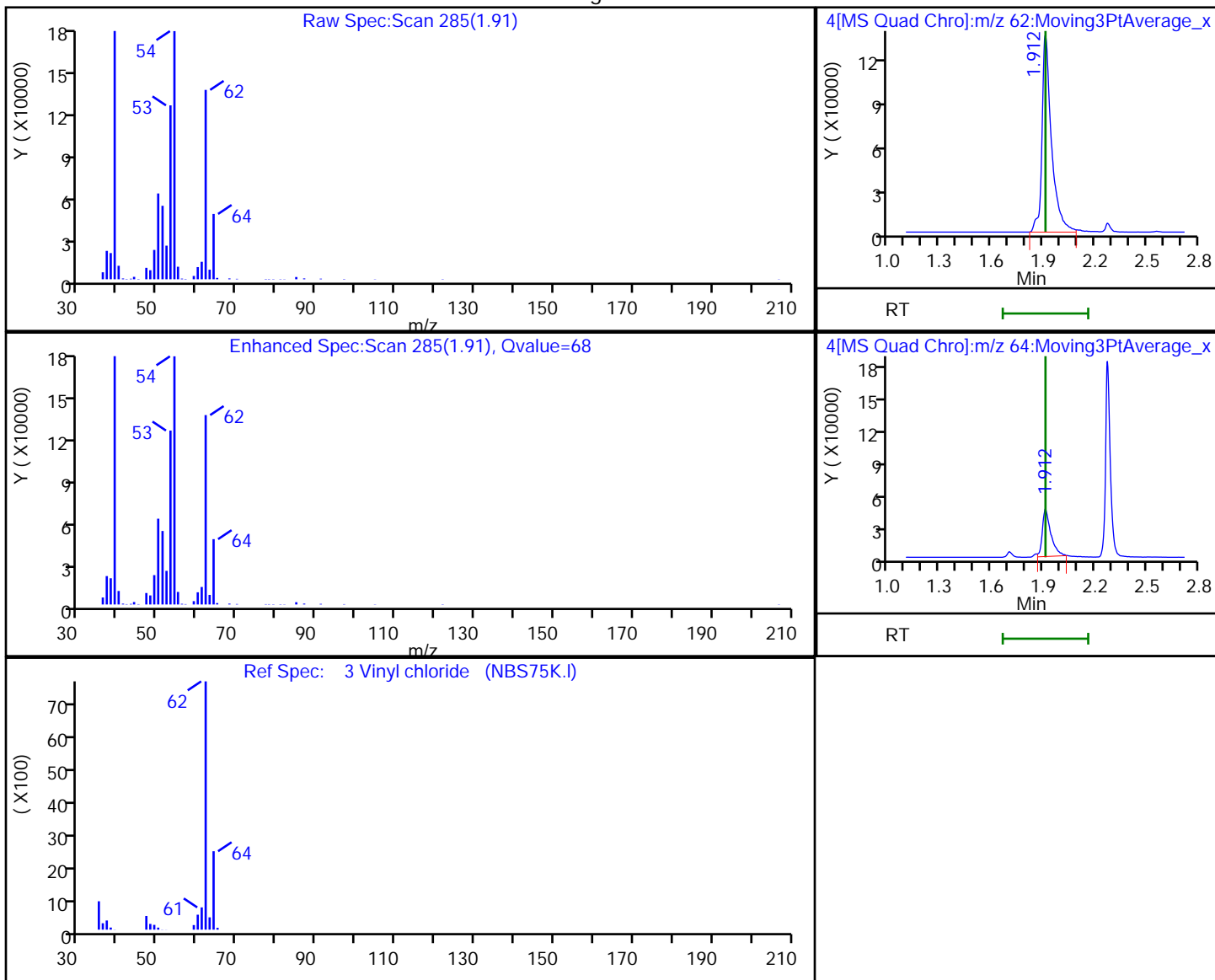
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD090514.D
 Injection Date: 14-May-2022 12:42:38 Instrument ID: CMS29
 Lims ID: STD09
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.91	62.00	528398	129.7541
1.91	64.00	151210	

Reviewer: ficarello, 17-May-2022 07:53:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Lims ID: STD010
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 14-May-2022 13:06:16 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD010
 Misc. Info.: 500-0085710-012
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:33:59 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
11 Ethyl ether	59	2.787	2.795	-0.008	90	347529	200.0	162.2	
12 Acrolein	56	2.906	2.914	-0.008	96	1556960	8000.0	7567.4	
13 1,1-Dichloroethene	96	2.990	2.995	-0.005	87	625105	200.0	192.2	
14 1,1,2-Trichloro-1,2,2-trifluoro	101	3.007	3.021	-0.014	83	692383	200.0	198.4	
15 Acetone	43	3.050	3.059	-0.009	98	104112	200.0	193.6	
16 Iodomethane	142	3.129	3.134	-0.006	99	1241749	200.0	186.2	
17 Carbon disulfide	76	3.189	3.195	-0.006	100	1811911	200.0	173.7	
20 3-Chloro-1-propene	76	3.323	3.328	-0.006	89	351604	200.0	178.2	
21 Methyl acetate	43	3.346	3.351	-0.005	96	532641	400.0	351.4	
22 Methylene Chloride	84	3.433	3.438	-0.005	85	582598	200.0	185.4	
* 23 TBA-d9 (IS)	65	3.479	3.484	-0.005	0	237554	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.554	3.560	-0.006	99	512248	2000.0	1901.6	
25 Acrylonitrile	53	3.664	3.670	-0.006	98	1356087	2000.0	1744.5	
26 trans-1,2-Dichloroethene	96	3.684	3.690	-0.006	78	750692	200.0	197.5	
27 Methyl tert-butyl ether	73	3.690	3.696	-0.006	88	1568057	200.0	191.4	
29 1,1-Dichloroethane	63	4.078	4.084	-0.006	85	934756	200.0	172.2	
30 Vinyl acetate	43	4.122	4.127	-0.005	99	901076	200.0	177.5	
35 cis-1,2-Dichloroethene	96	4.625	4.631	-0.006	85	668122	200.0	181.0	
34 2,2-Dichloropropane	77	4.628	4.631	-0.003	61	644106	200.0	174.5	
36 2-Butanone (MEK)	43	4.640	4.648	-0.008	52	167823	200.0	186.6	
40 Chlorobromomethane	128	4.860	4.863	-0.003	81	354517	200.0	179.9	
41 Tetrahydrofuran	42	4.906	4.912	-0.006	85	215201	400.0	389.0	
42 Chloroform	83	4.935	4.938	-0.003	82	964095	200.0	193.9	
\$ 43 Dibromofluoromethane	113	5.092	5.097	-0.005	87	615914	200.0	188.3	
44 1,1,1-Trichloroethane	97	5.121	5.126	-0.006	90	903847	200.0	179.8	
45 Cyclohexane	56	5.178	5.181	-0.003	88	873207	200.0	172.4	
47 1,1-Dichloropropene	75	5.283	5.285	-0.002	90	810419	200.0	181.1	
46 Carbon tetrachloride	117	5.286	5.288	-0.002	86	989180	200.0	195.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Isobutyl alcohol	43	5.390	5.392	-0.002	96	486193	5000.0	4641.7	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.439	-0.003	74	510782	200.0	191.4	
50 Benzene	78	5.497	5.500	-0.003	95	2277301	200.0	178.5	
51 1,2-Dichloroethane	62	5.511	5.514	-0.003	73	683474	200.0	190.8	
54 n-Heptane	43	5.755	5.757	-0.002	87	783587	200.0	176.0	
* 55 Fluorobenzene (IS)	96	5.775	5.780	-0.005	96	576723	50.0	50.0	
57 Trichloroethene	130	6.160	6.163	-0.003	85	739592	200.0	176.8	
59 Methylcyclohexane	83	6.371	6.371	0.000	90	1021337	200.0	176.5	
60 1,2-Dichloropropane	63	6.409	6.409	0.000	93	497811	200.0	172.0	
* 62 1,4-Dioxane-d8	96	6.499	6.496	0.003	0	17261	1000.0	1000.0	M
63 Dibromomethane	93	6.533	6.536	-0.003	89	324376	200.0	175.3	
65 1,4-Dioxane	88	6.551	6.553	-0.002	44	72814	4000.0	3764.4	
66 Dichlorobromomethane	83	6.704	6.707	-0.003	92	705470	200.0	169.4	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	91	249242	200.0	199.0	
69 cis-1,3-Dichloropropene	75	7.211	7.214	-0.003	92	832888	200.0	194.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	97	368751	200.0	194.2	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.523	0.001	93	2316307	200.0	222.3	
72 Toluene	92	7.602	7.602	0.000	93	1613114	200.0	218.9	
73 trans-1,3-Dichloropropene	75	7.862	7.865	-0.003	89	747315	200.0	197.6	
74 Ethyl methacrylate	69	7.975	7.975	0.000	93	569582	200.0	192.9	
75 1,1,2-Trichloroethane	97	8.085	8.088	-0.003	86	429108	200.0	201.3	
76 Tetrachloroethene	166	8.259	8.259	0.000	91	774530	200.0	204.4	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	671645	200.0	192.7	
78 2-Hexanone	43	8.398	8.398	0.000	96	251752	200.0	192.9	
79 Chlorodibromomethane	129	8.569	8.572	-0.003	87	638753	200.0	200.8	
81 Ethylene Dibromide	107	8.714	8.713	0.001	98	446775	200.0	196.9	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	394311	50.0	50.0	
84 Chlorobenzene	112	9.342	9.342	0.000	92	1805326	200.0	212.3	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.449	0.000	91	685534	200.0	197.8	
86 Ethylbenzene	91	9.487	9.486	0.001	98	2813281	200.0	204.0	
87 m-Xylene & p-Xylene	91	9.640	9.640	0.000	98	2254857	200.0	209.7	
88 o-Xylene	91	10.121	10.118	0.003	91	2395113	200.0	212.6	
89 Styrene	104	10.135	10.135	0.000	94	2239666	200.0	233.8	
90 Bromoform	173	10.341	10.341	0.000	97	454607	200.0	225.0	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	3422139	200.0	182.3	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.697	0.000	96	777897	200.0	196.9	
95 Bromobenzene	156	10.850	10.850	0.000	79	940315	200.0	186.0	
97 1,2,3-Trichloropropane	110	10.900	10.896	0.004	84	191490	200.0	205.8	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	91	140672	200.0	215.8	
99 N-Propylbenzene	91	10.969	10.966	0.003	97	3649253	200.0	172.3	
100 2-Chlorotoluene	91	11.050	11.050	0.000	94	2085613	200.0	179.0	
101 1,3,5-Trimethylbenzene	105	11.146	11.145	0.001	93	3085921	200.0	190.4	
102 4-Chlorotoluene	91	11.160	11.157	0.003	98	2594742	200.0	181.8	
104 tert-Butylbenzene	119	11.461	11.458	0.003	88	2950194	200.0	192.3	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.001	95	3122619	200.0	190.1	
107 sec-Butylbenzene	105	11.667	11.664	0.003	93	4088852	200.0	185.6	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	1964836	200.0	187.6	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	3911589	200.0	194.5	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	91	335091	50.0	50.0	a
111 1,4-Dichlorobenzene	146	11.844	11.843	0.001	96	2039348	200.0	186.9	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	2962371	200.0	173.8	
114 1,2-Dichlorobenzene	146	12.174	12.170	0.004	98	1984357	200.0	193.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	67	96901	200.0	217.4	
120 Naphthalene	128	13.650	13.650	0.000	99	2334446	200.0	204.5	
121 1,2,3-Trichlorobenzene	180	13.830	13.829	0.001	93	1019719	200.0	201.8	
S 124 Xylenes, Total	1				0			422.3	
S 125 Trihalomethanes, Total	1				0			789.1	
S 126 1,2-Dichloroethene, Total	1				0			378.5	
S 127 Trimethylbenzene, Total	1				0			380.4	
S 128 1,3-Dichloropropene, Total	1				0			391.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00193	Amount Added: 20.00	Units: uL
8260/624ACRWK_00666	Amount Added: 10.00	Units: uL
8260VA/2CEVE_00591	Amount Added: 10.00	Units: uL
8260/624GASWK_01433	Amount Added: 10.00	Units: uL
8260/624KETWK_00617	Amount Added: 10.00	Units: uL
8260/624MEGWK_01363	Amount Added: 10.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD010

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

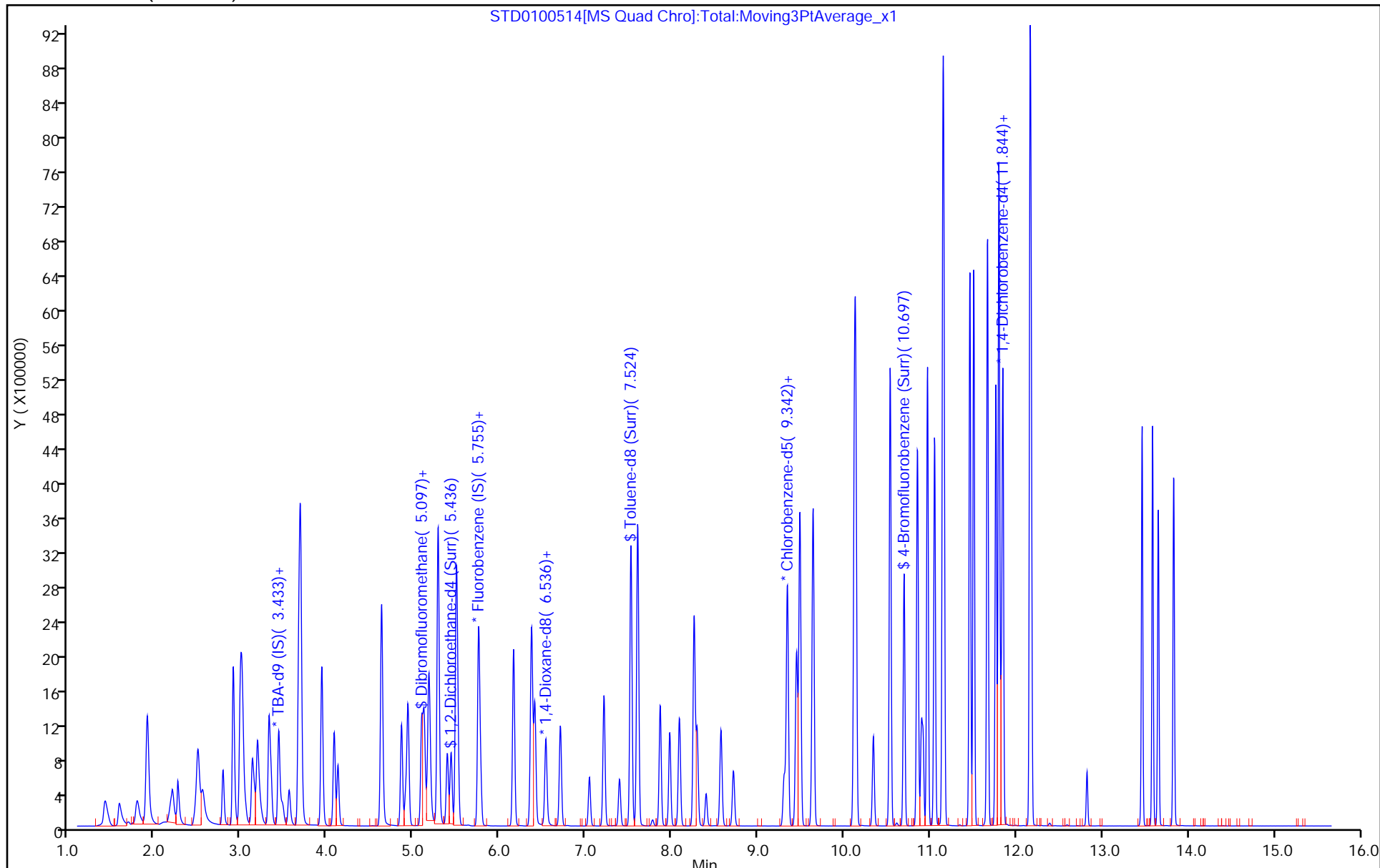
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

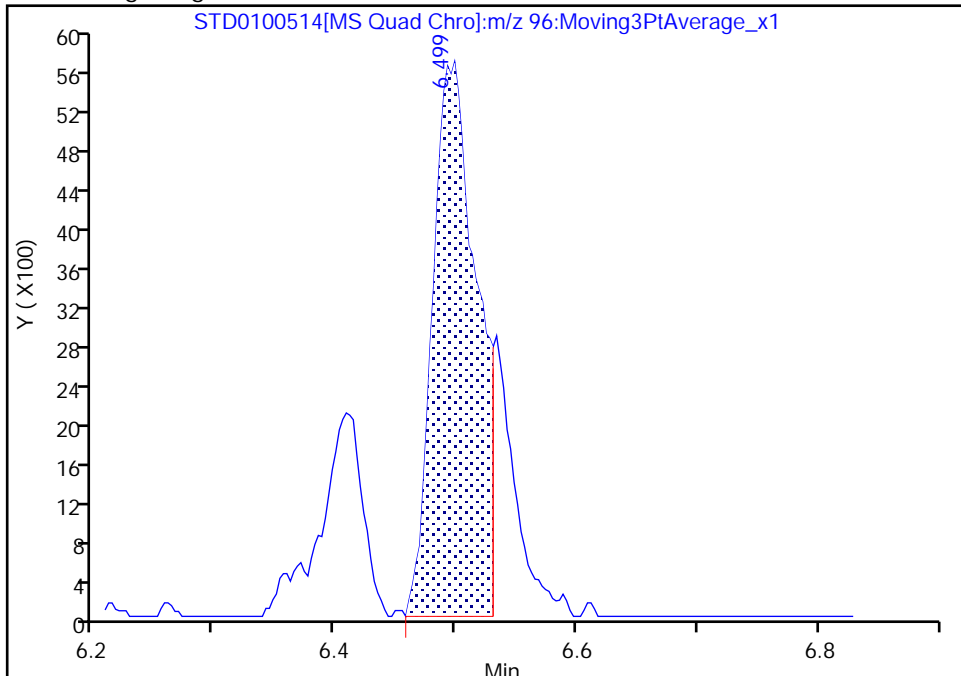
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Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

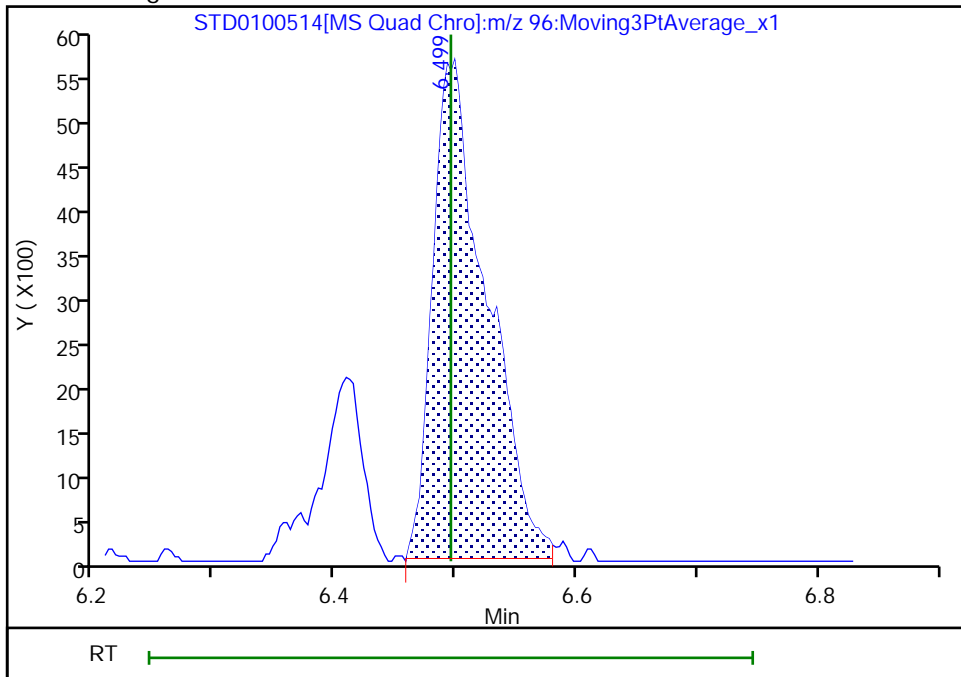
RT: 6.50
Area: 14341
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 17261
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 17:49:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

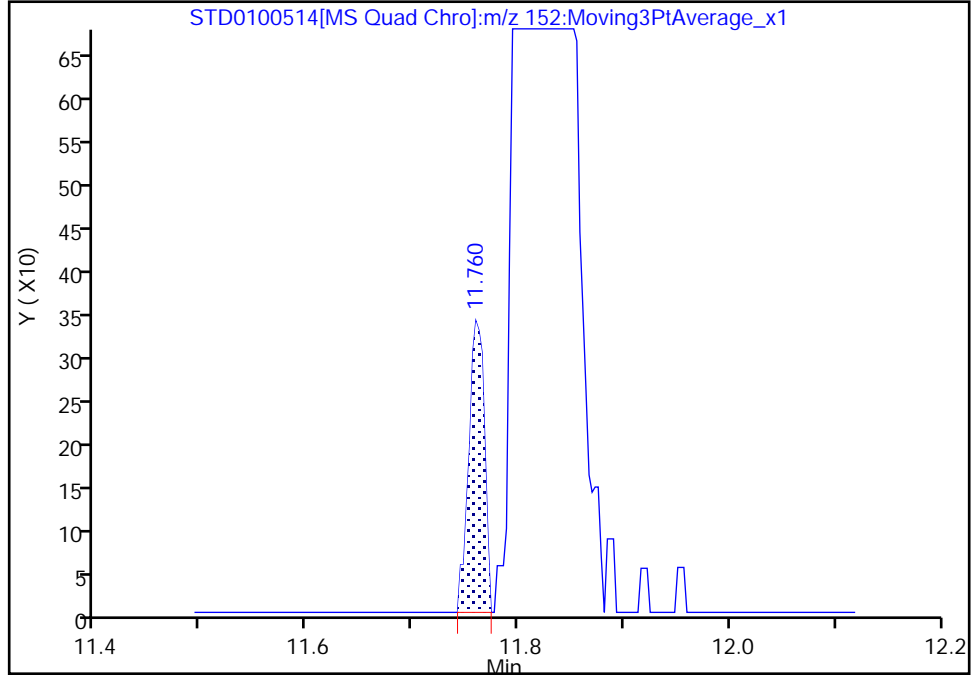
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

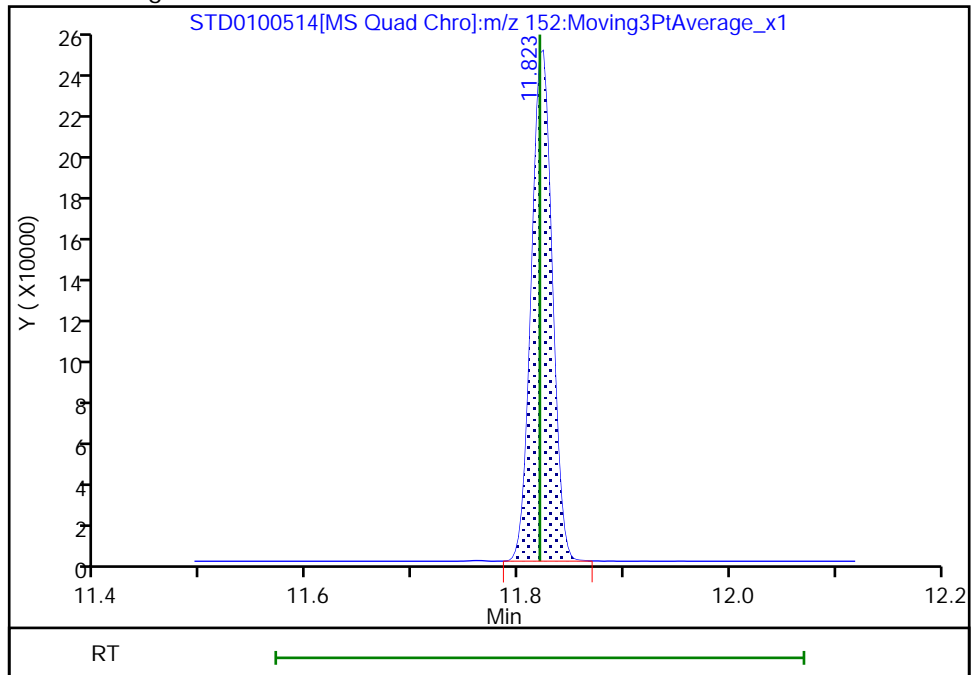
RT: 11.76
Area: 342
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 11.82
Area: 335091
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

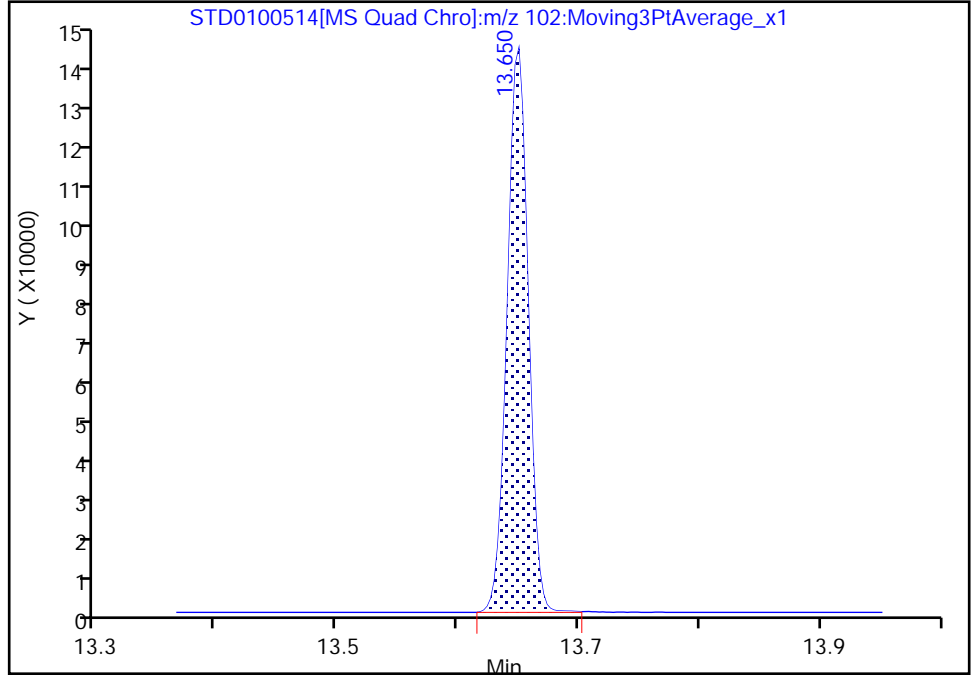
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Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 2

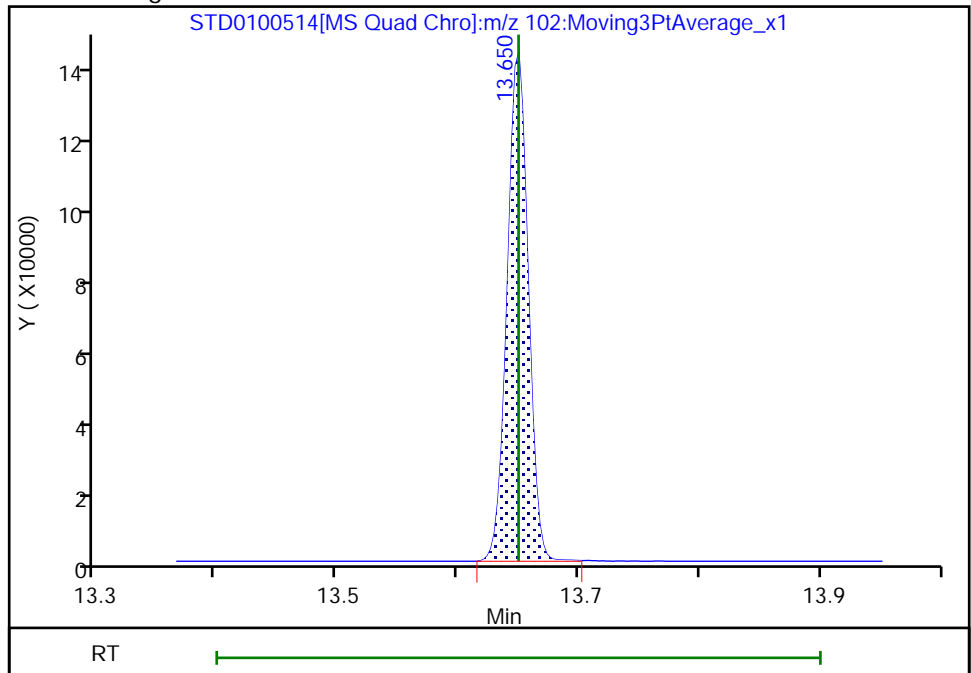
RT: 13.65
Area: 171139
Amount: 204.5195
Amount Units: ug/l

Processing Integration Results



RT: 13.65
Area: 171139
Amount: 204.5195
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarellop, 17-May-2022 08:07:51
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

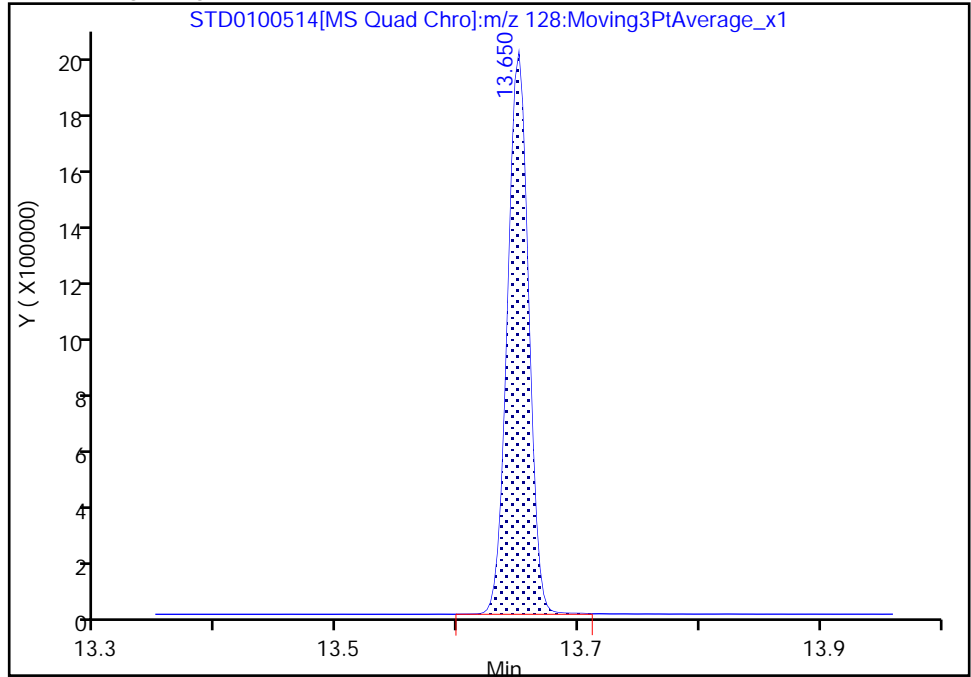
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Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 3

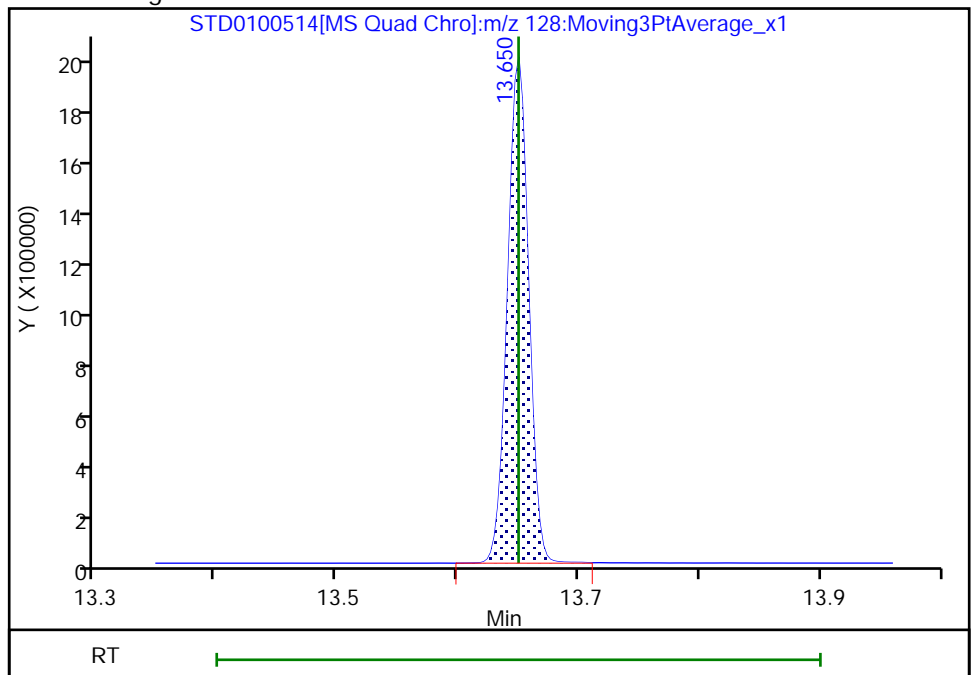
RT: 13.65
Area: 2334446
Amount: 204.5195
Amount Units: ug/l

Processing Integration Results



RT: 13.65
Area: 2334446
Amount: 204.5195
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

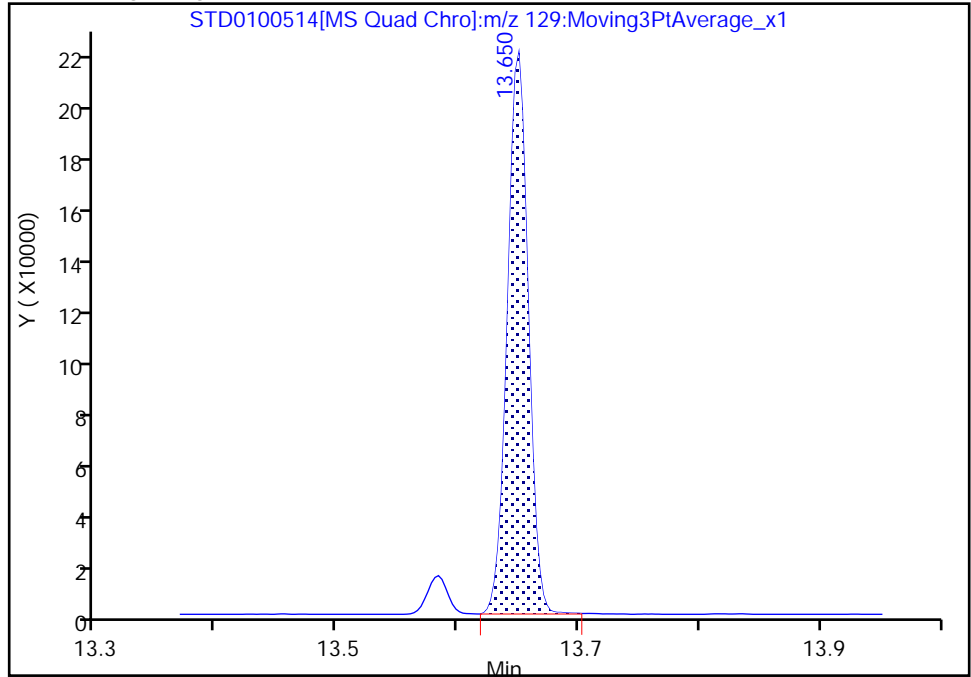
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Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 4

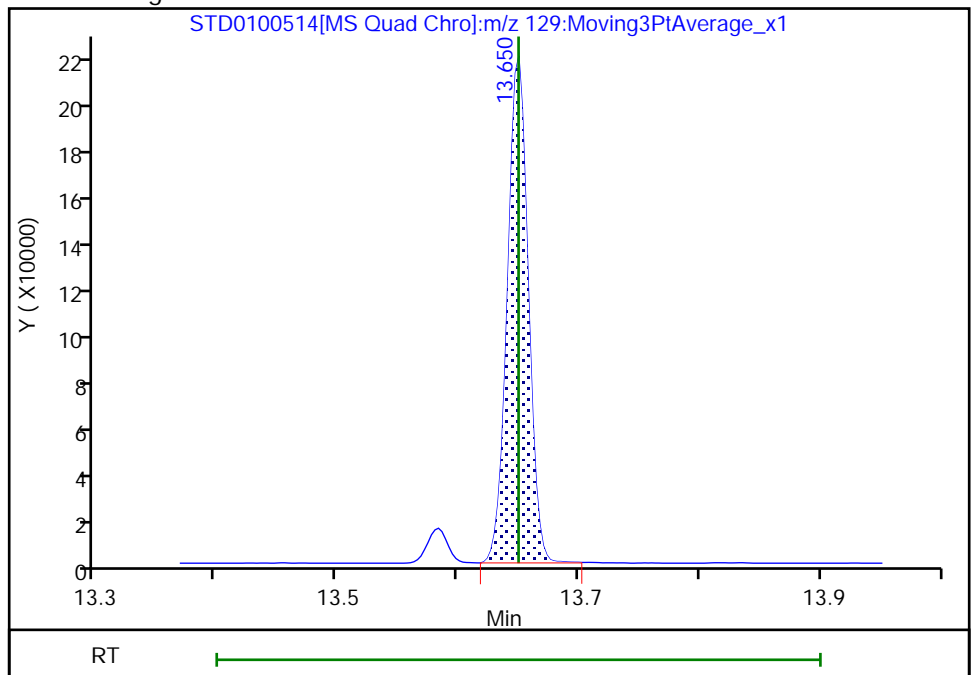
RT: 13.65
Area: 260047
Amount: 204.5195
Amount Units: ug/l

Processing Integration Results



RT: 13.65
Area: 260047
Amount: 204.5195
Amount Units: ug/l

Manual Integration Results

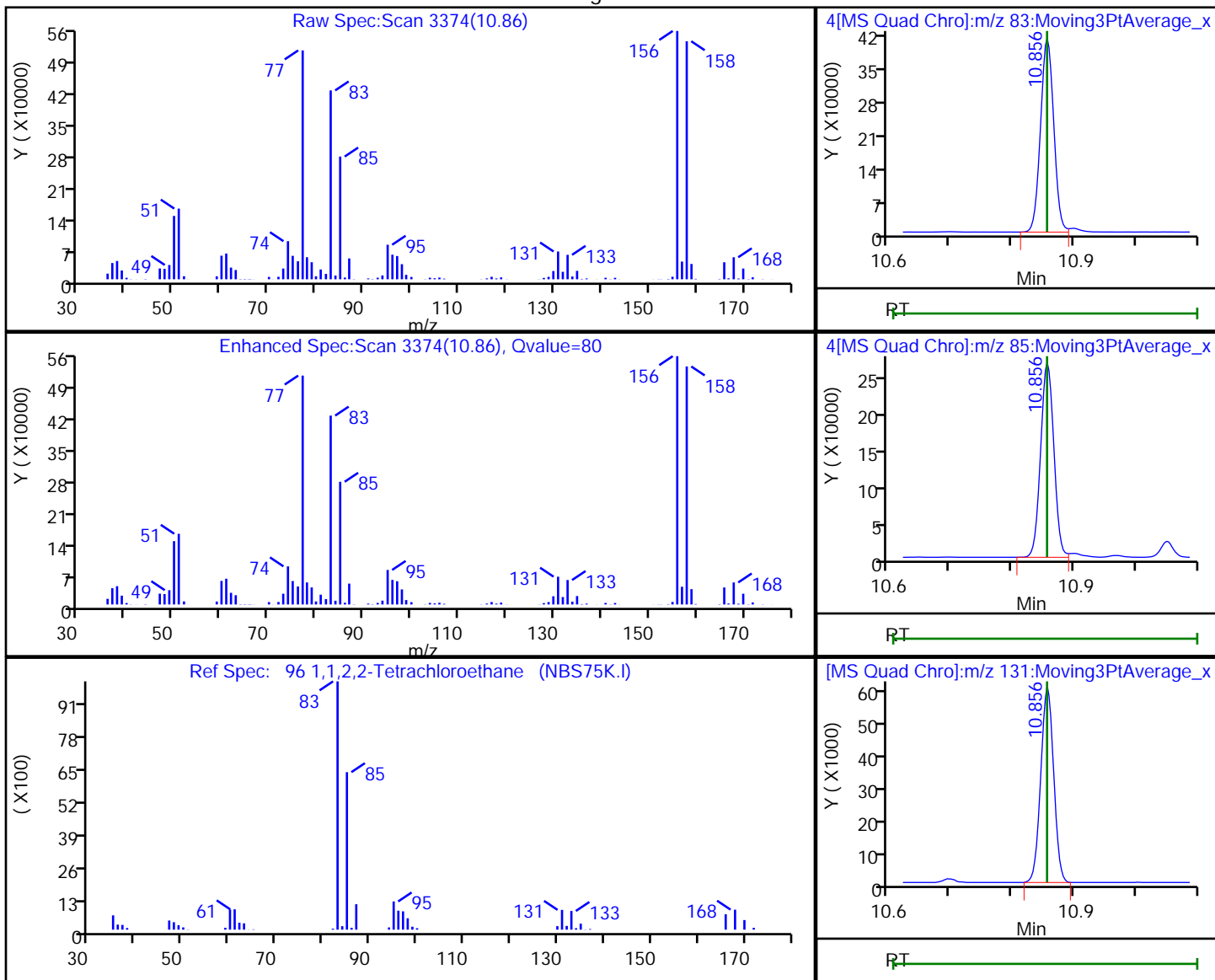


Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
10.86	83.00	611606	199.8330
10.86	85.00	400222	
10.86	131.00	88778	

Reviewer: ficarellp, 17-May-2022 07:58:36
 Audit Action: Marked Compound Undetected

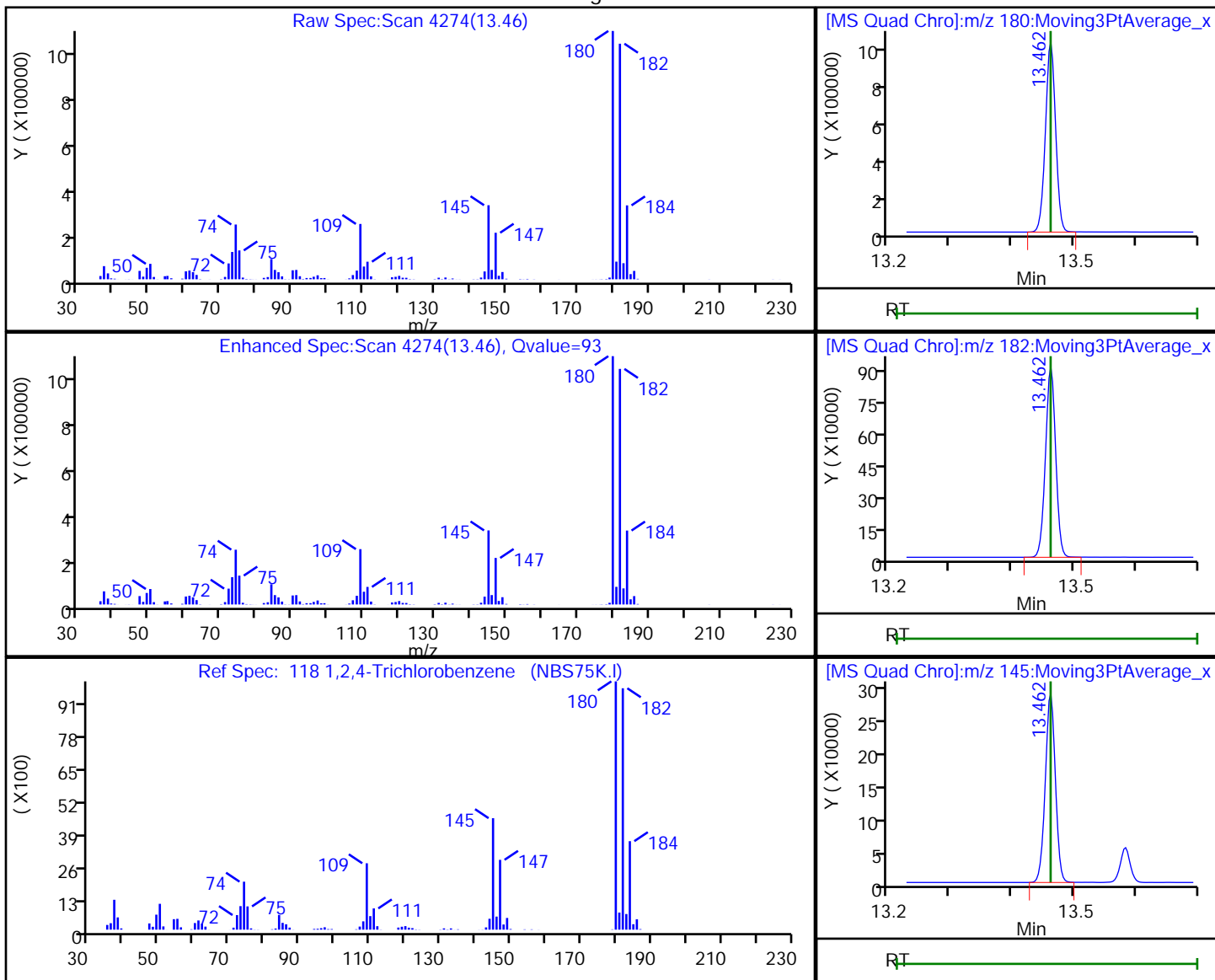
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector MS SCAN

118 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.46	180.00	1099922	198.5403
13.46	182.00	1049599	
13.46	145.00	324151	

Reviewer: ficarello, 17-May-2022 08:17:20
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

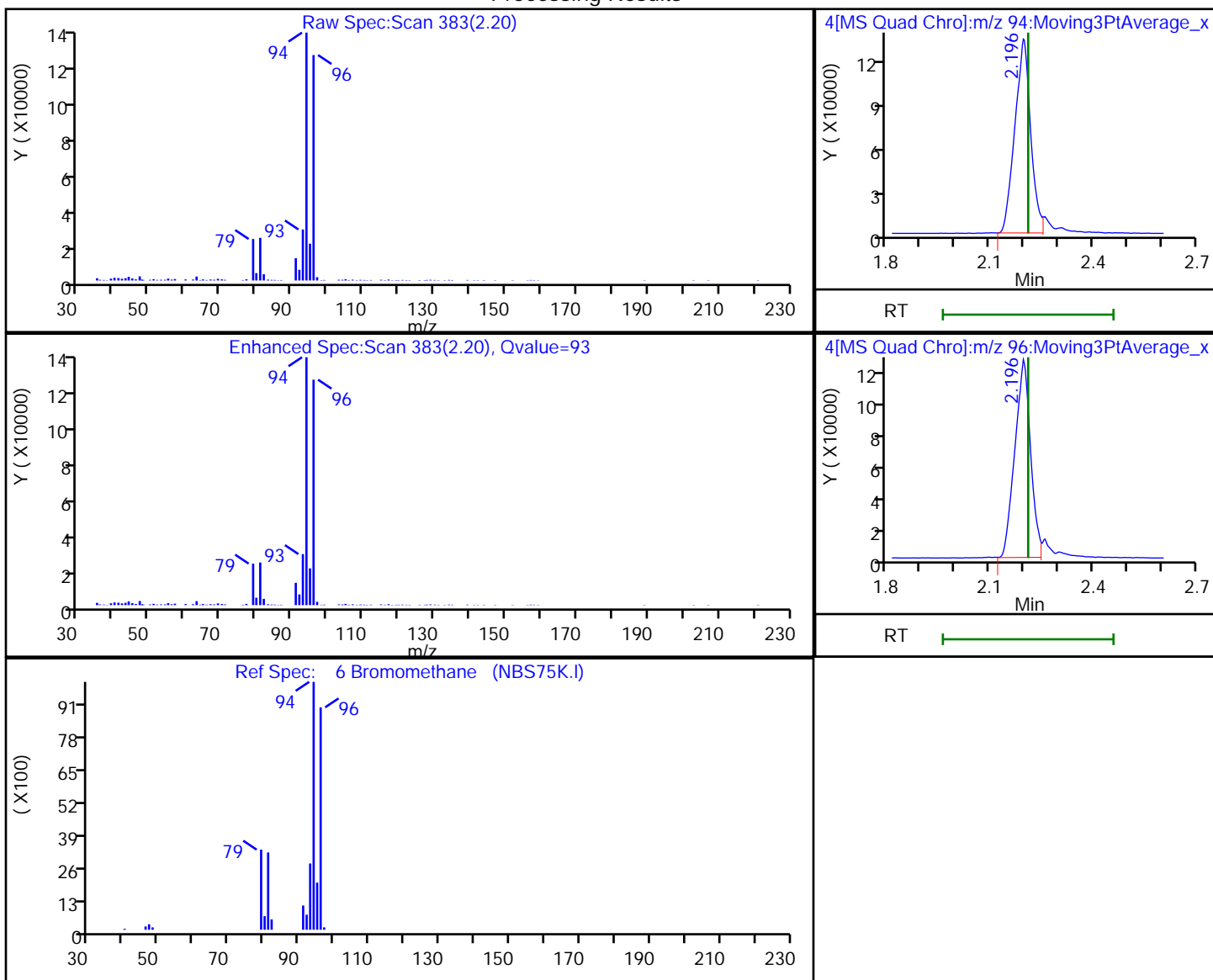
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.20	94.00	432251	164.2053
2.20	96.00	407256	

Reviewer: ficarello, 17-May-2022 07:52:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

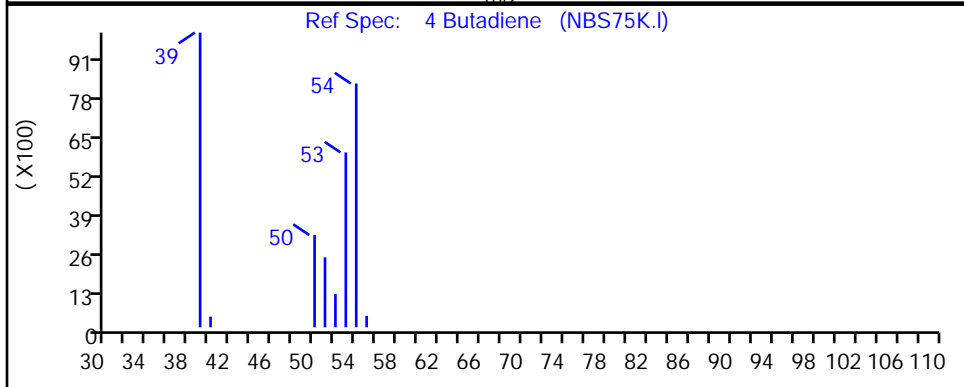
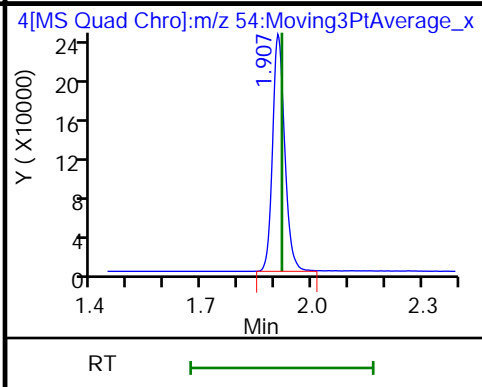
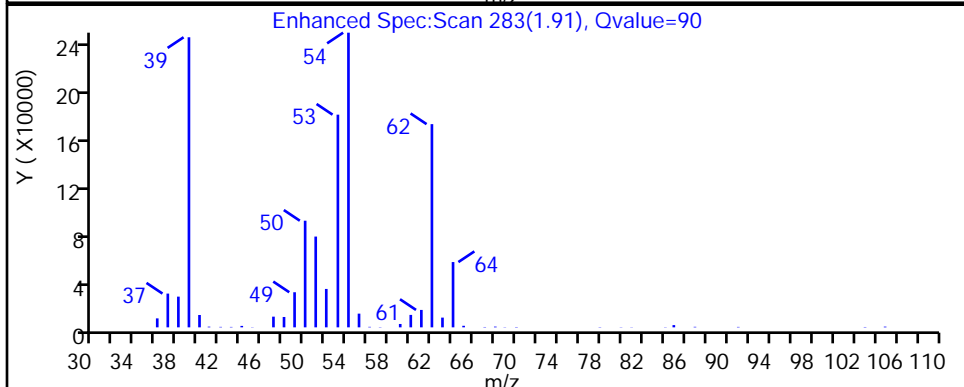
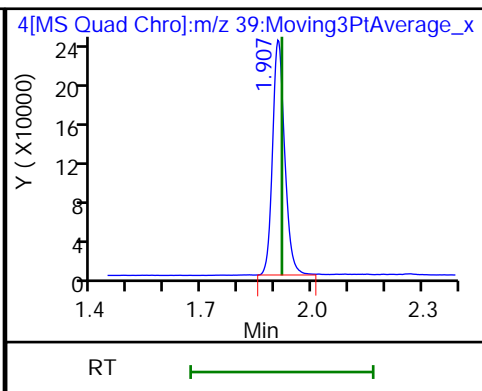
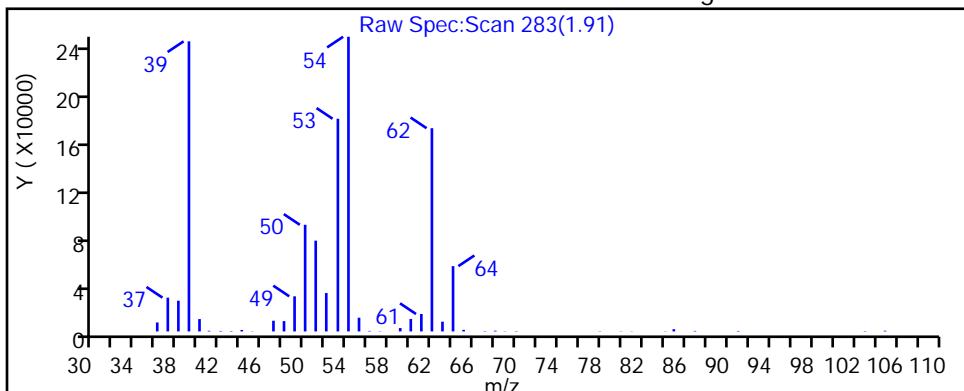
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

4 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
1.91	39.00	558097	168.9805
1.91	54.00	570464	

Reviewer: ficarello, 17-May-2022 07:52:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

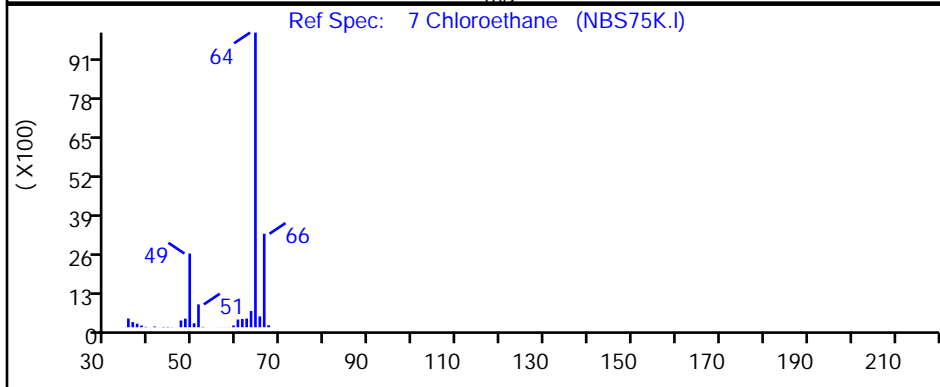
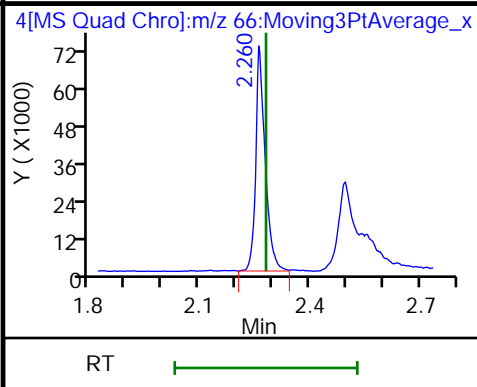
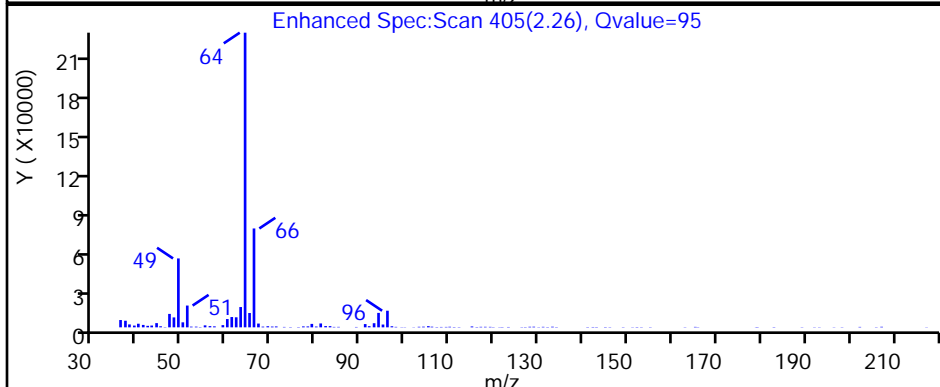
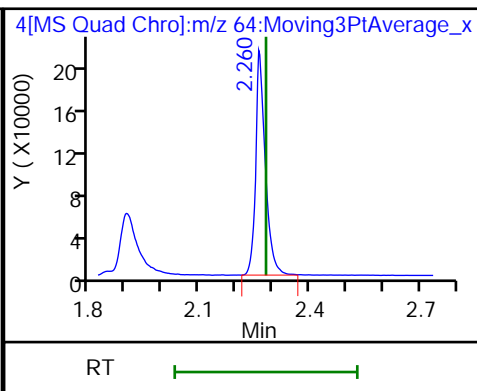
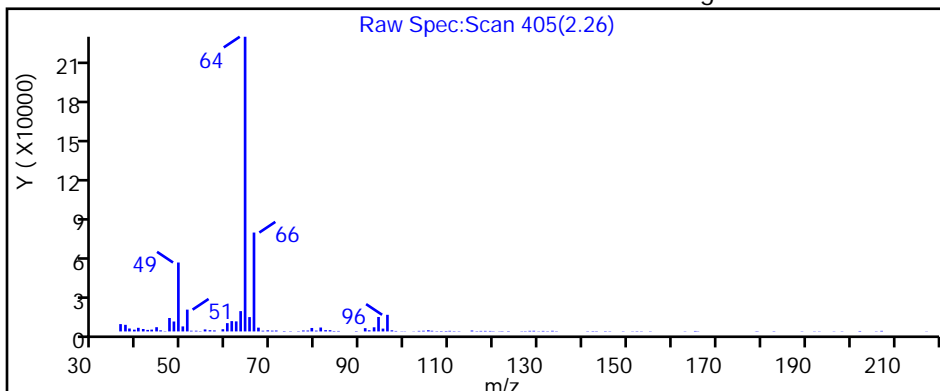
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.26	64.00	396398	202.3037
2.26	66.00	130701	

Reviewer: ficarello, 17-May-2022 07:52:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

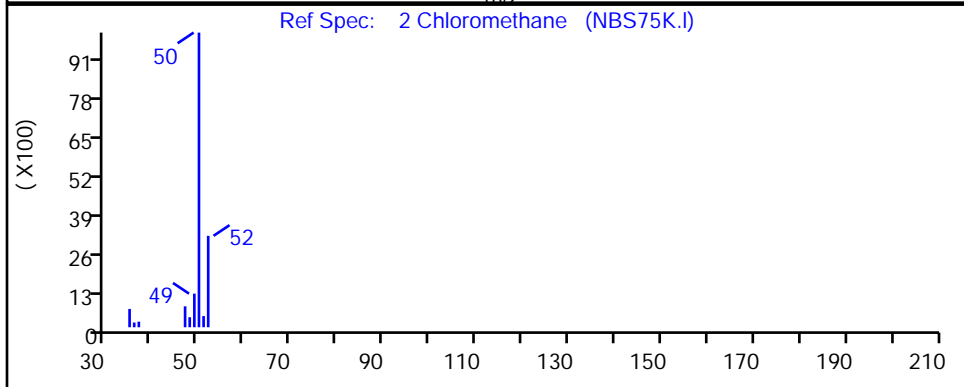
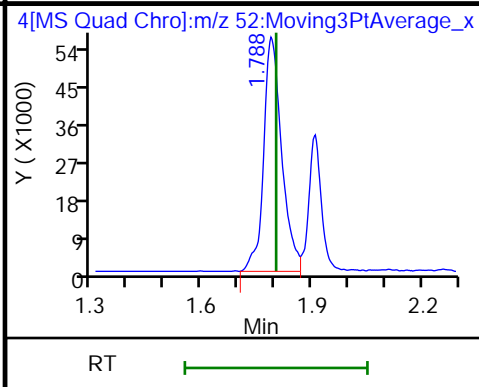
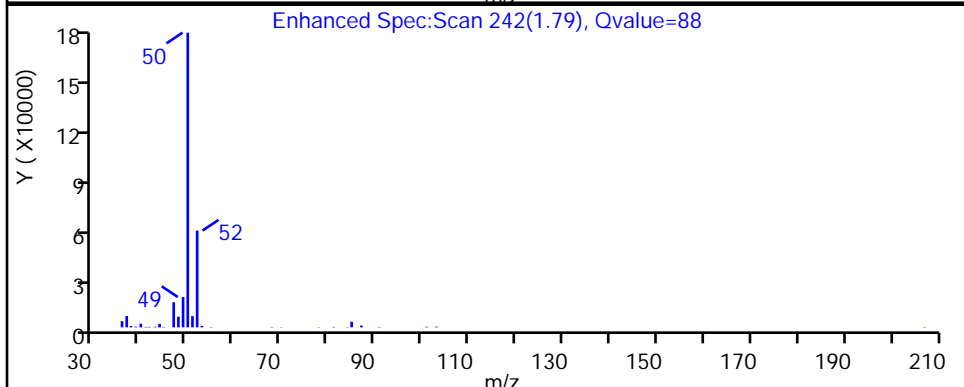
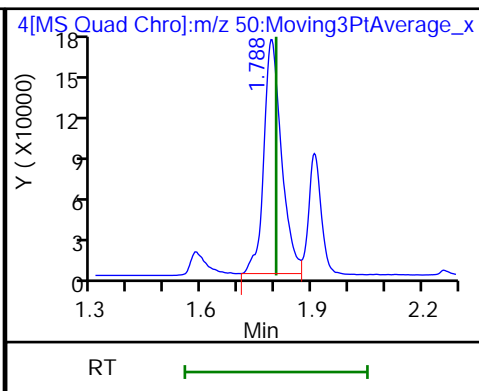
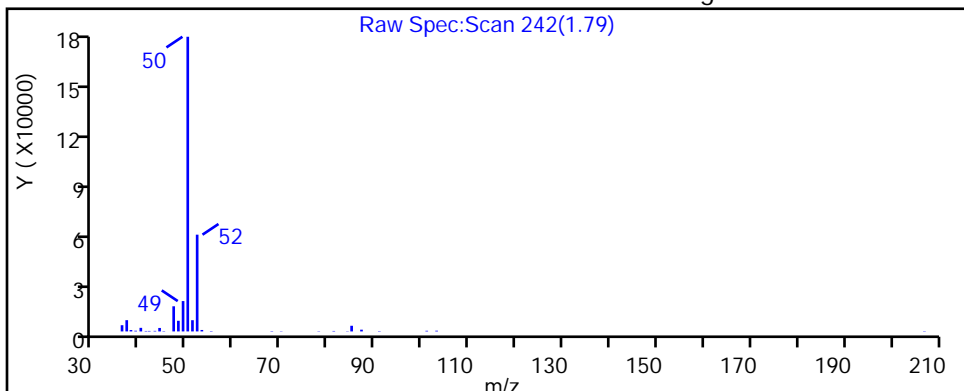
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.79	50.00	567666	188.8109
1.79	52.00	192319	

Reviewer: ficarello, 17-May-2022 07:52:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

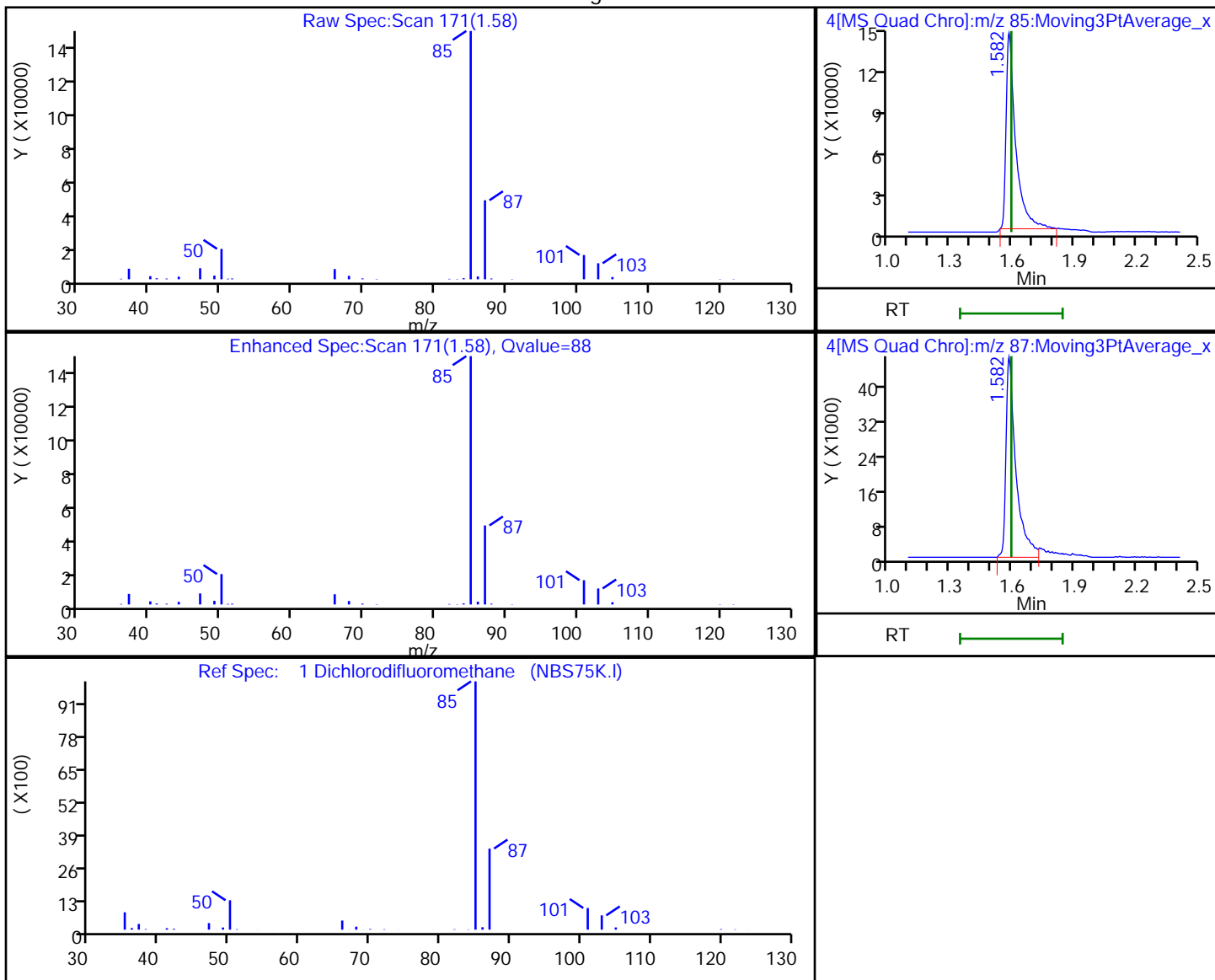
Column: DB624 (0.20 mm)

Detector

MS SCAN

1 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.58	85.00	461296	167.5838
1.58	87.00	155938	

Reviewer: ficarello, 17-May-2022 07:52:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

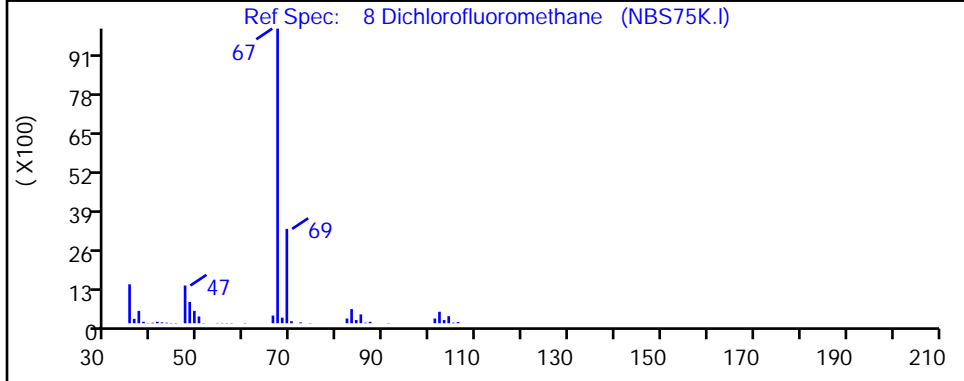
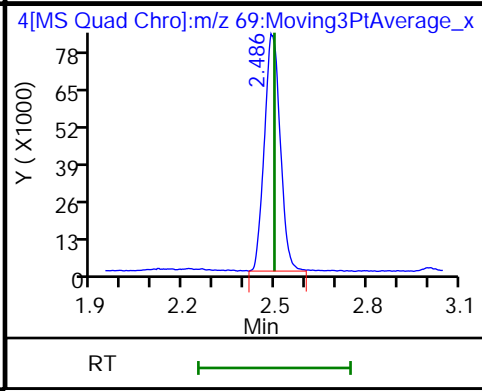
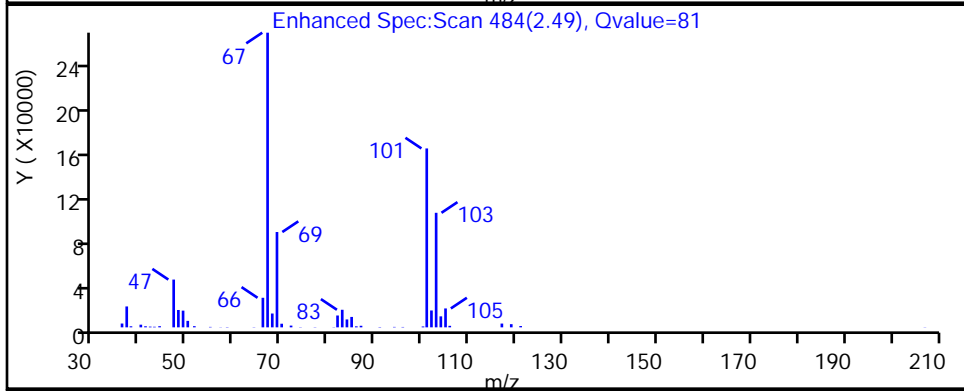
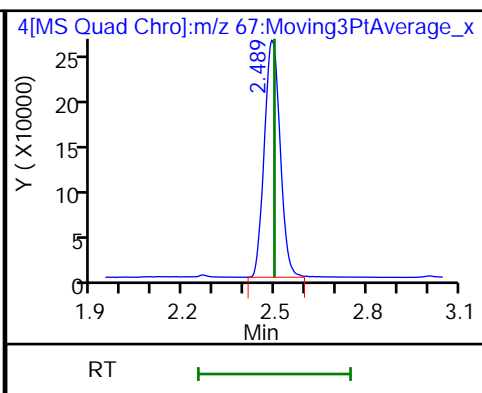
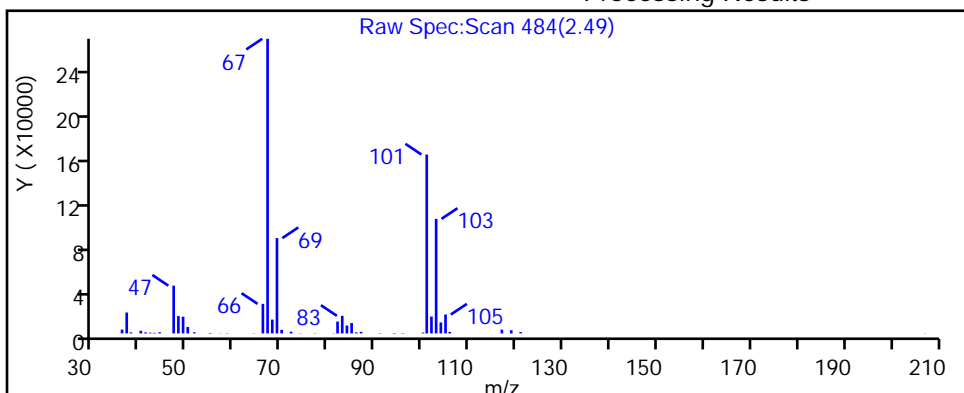
Column: DB624 (0.20 mm)

Detector

MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.49	67.00	936657	178.8286
2.49	69.00	304190	

Reviewer: ficarello, 17-May-2022 07:52:36

Audit Action: Marked Compound Undetected

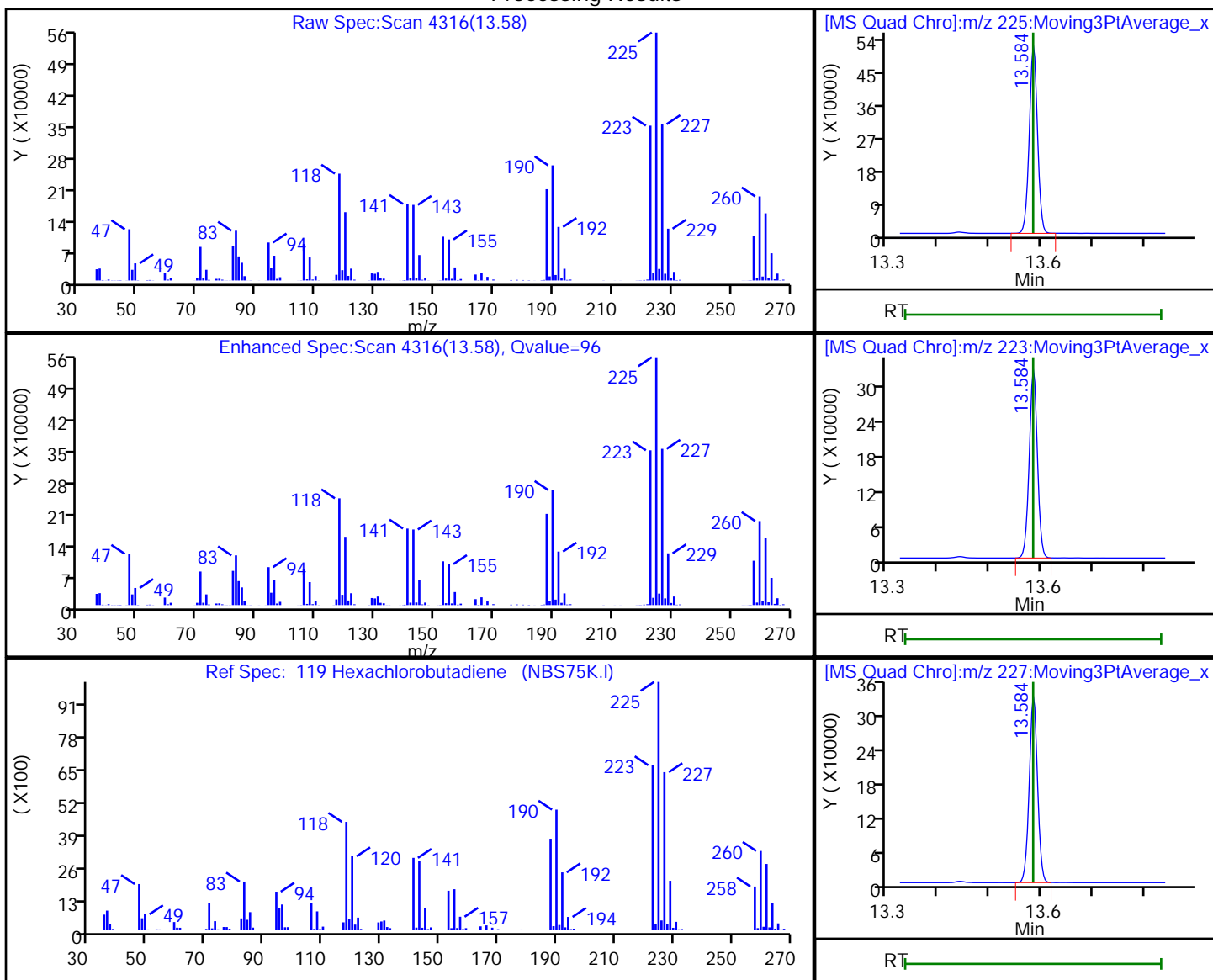
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.58	225.00	577938	213.4342
13.58	223.00	361219	
13.58	227.00	365113	

Reviewer: ficarellp, 17-May-2022 08:05:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D

Injection Date: 14-May-2022 13:06:16

Instrument ID: CMS29

Lims ID: STD010

Client ID:

Operator ID: EA

ALS Bottle#: 0

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

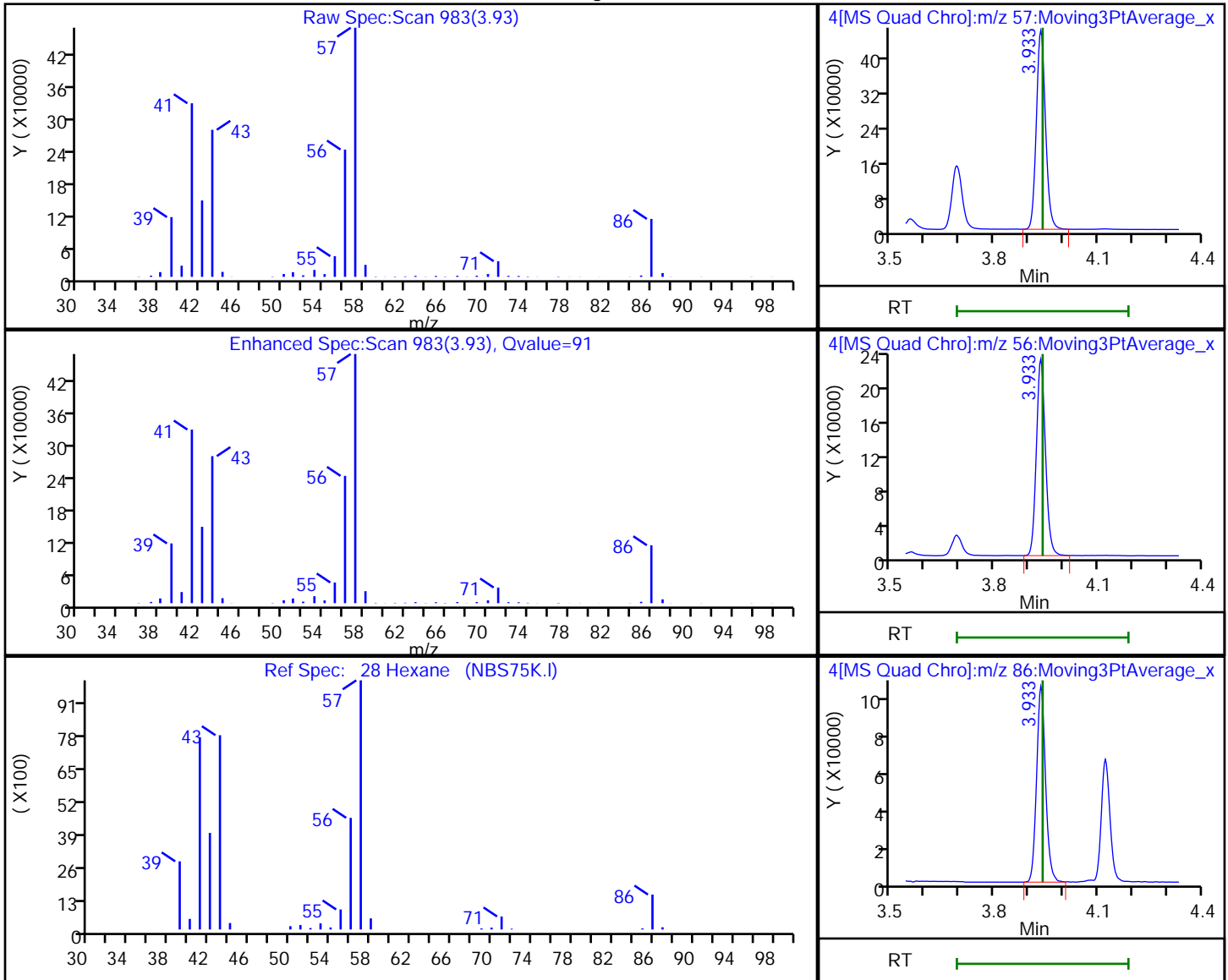
Column: DB624 (0.20 mm)

Detector

MS SCAN

28 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
3.93	57.00	855205	192.5282
3.93	56.00	428009	
3.93	86.00	191490	

Reviewer: ficarellp, 17-May-2022 08:02:18

Audit Action: Marked Compound Undetected

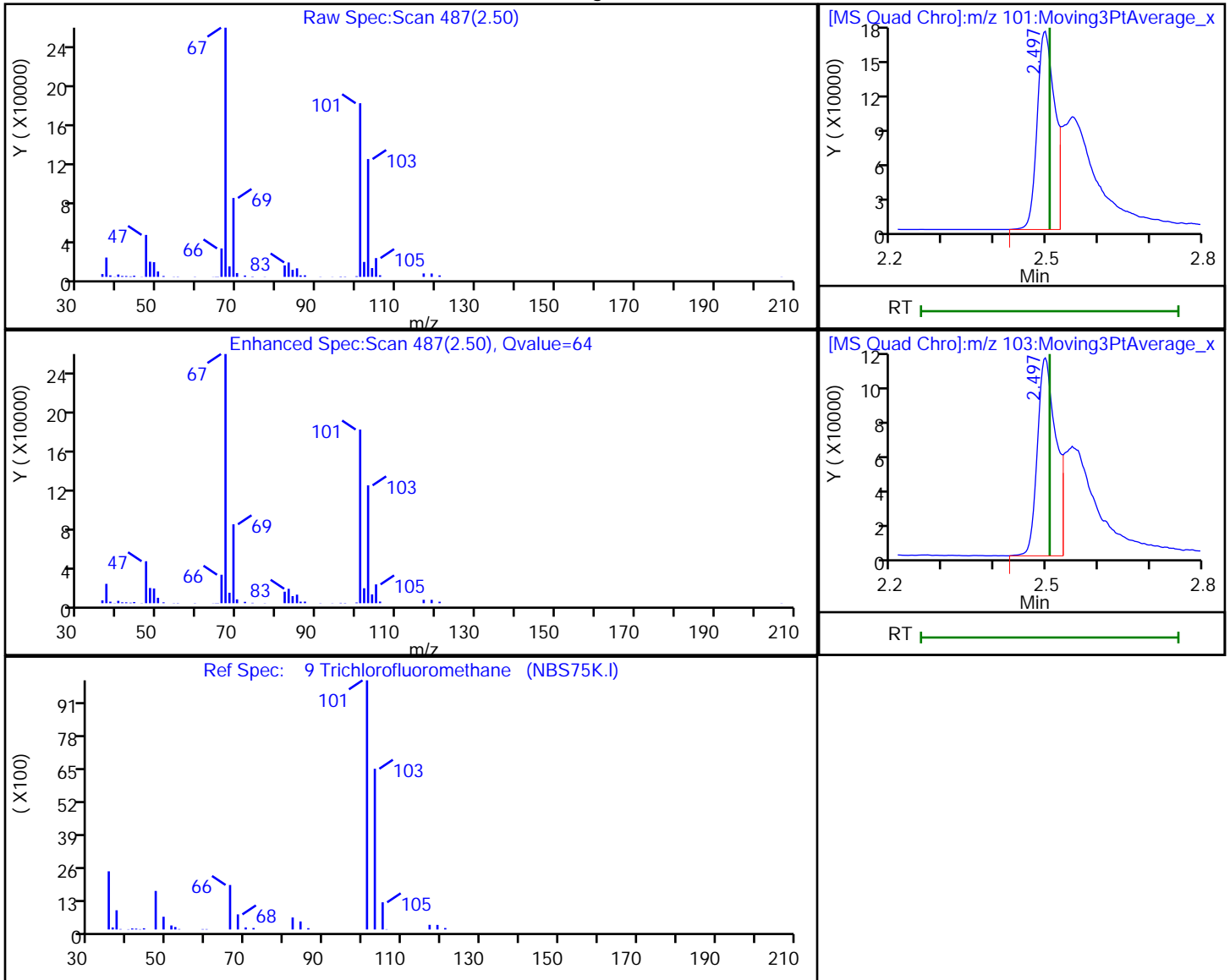
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
2.50	101.00	421552	92.653917
2.50	103.00	297276	

Reviewer: ficarello, 17-May-2022 07:52:38

Audit Action: Marked Compound Undetected

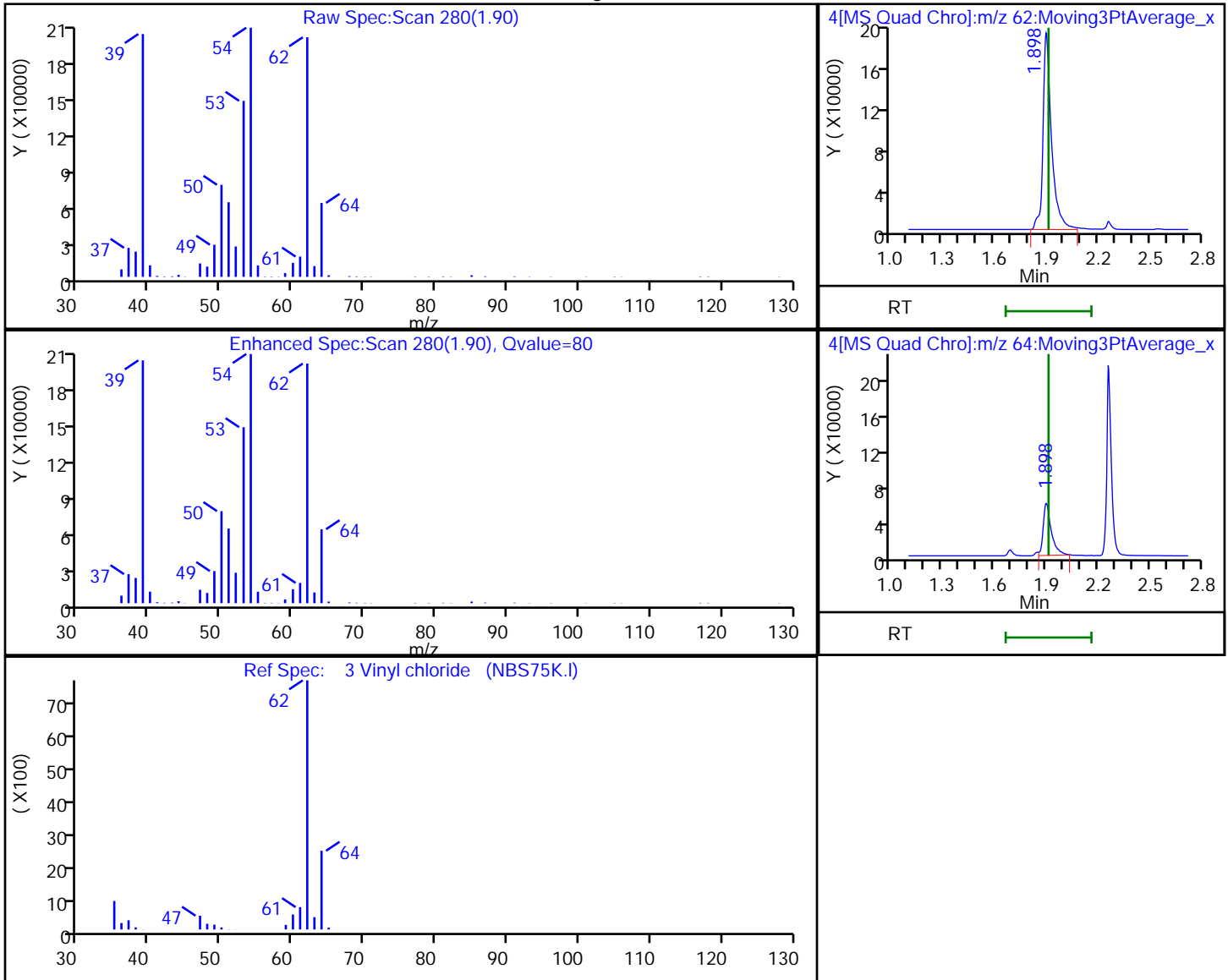
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220514-85710.b\STD0100514.D
 Injection Date: 14-May-2022 13:06:16 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.90	62.00	653621	172.0425
1.90	64.00	196266	

Reviewer: ficarello, 17-May-2022 07:52:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Calibration

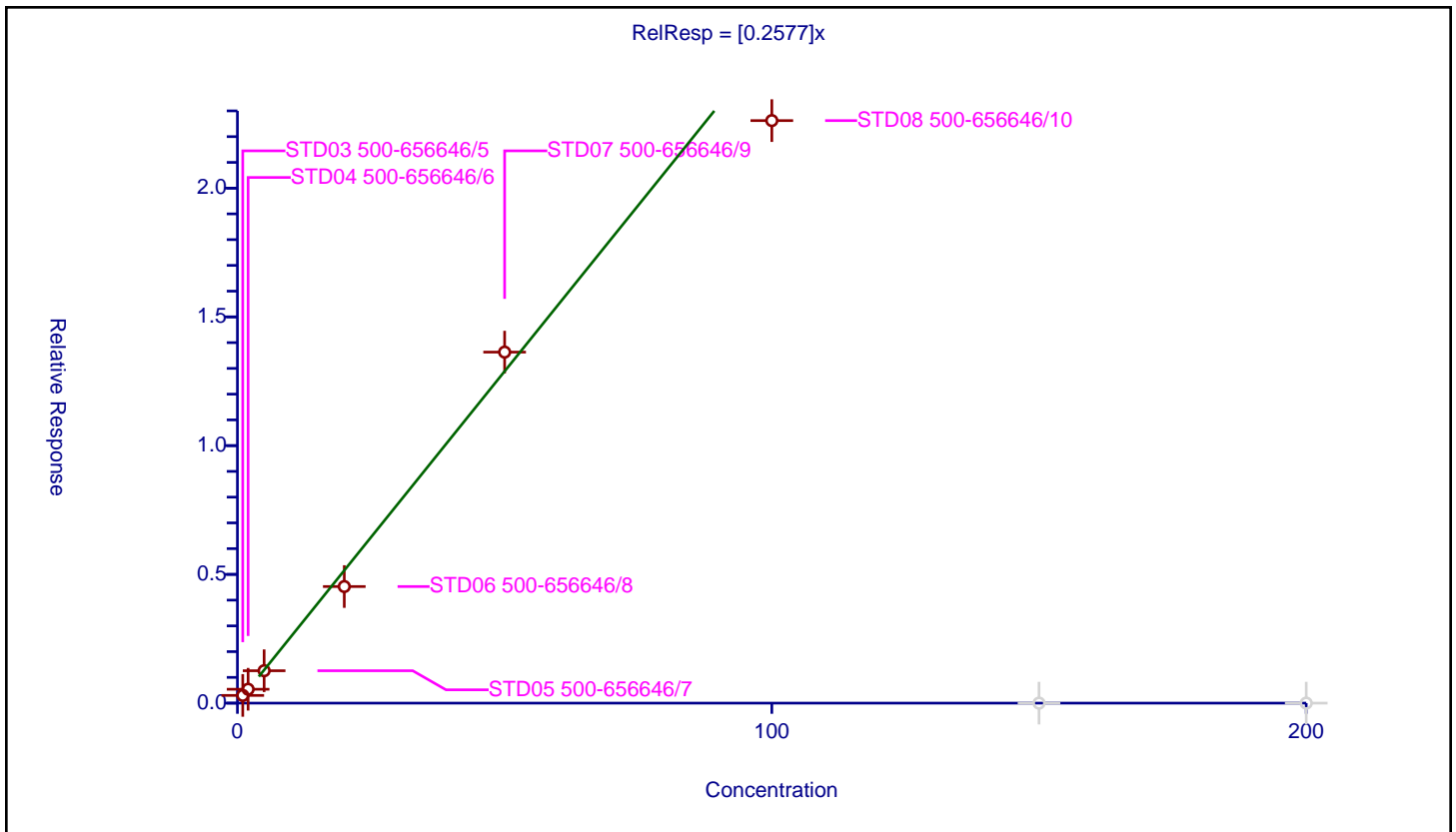
/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2577

Error Coefficients	
Standard Error:	118000
Relative Standard Error:	11.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.299879	50.0	505538.0	0.299879	Y
2	STD04 500-656646/6	2.0	0.539367	50.0	488072.0	0.269684	Y
3	STD05 500-656646/7	5.0	1.257996	50.0	492251.0	0.251599	Y
4	STD06 500-656646/8	20.0	4.527537	50.0	492155.0	0.226377	Y
5	STD07 500-656646/9	50.0	13.63202	50.0	462536.0	0.27264	Y
6	STD08 500-656646/10	100.0	22.622489	50.0	501985.0	0.226225	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

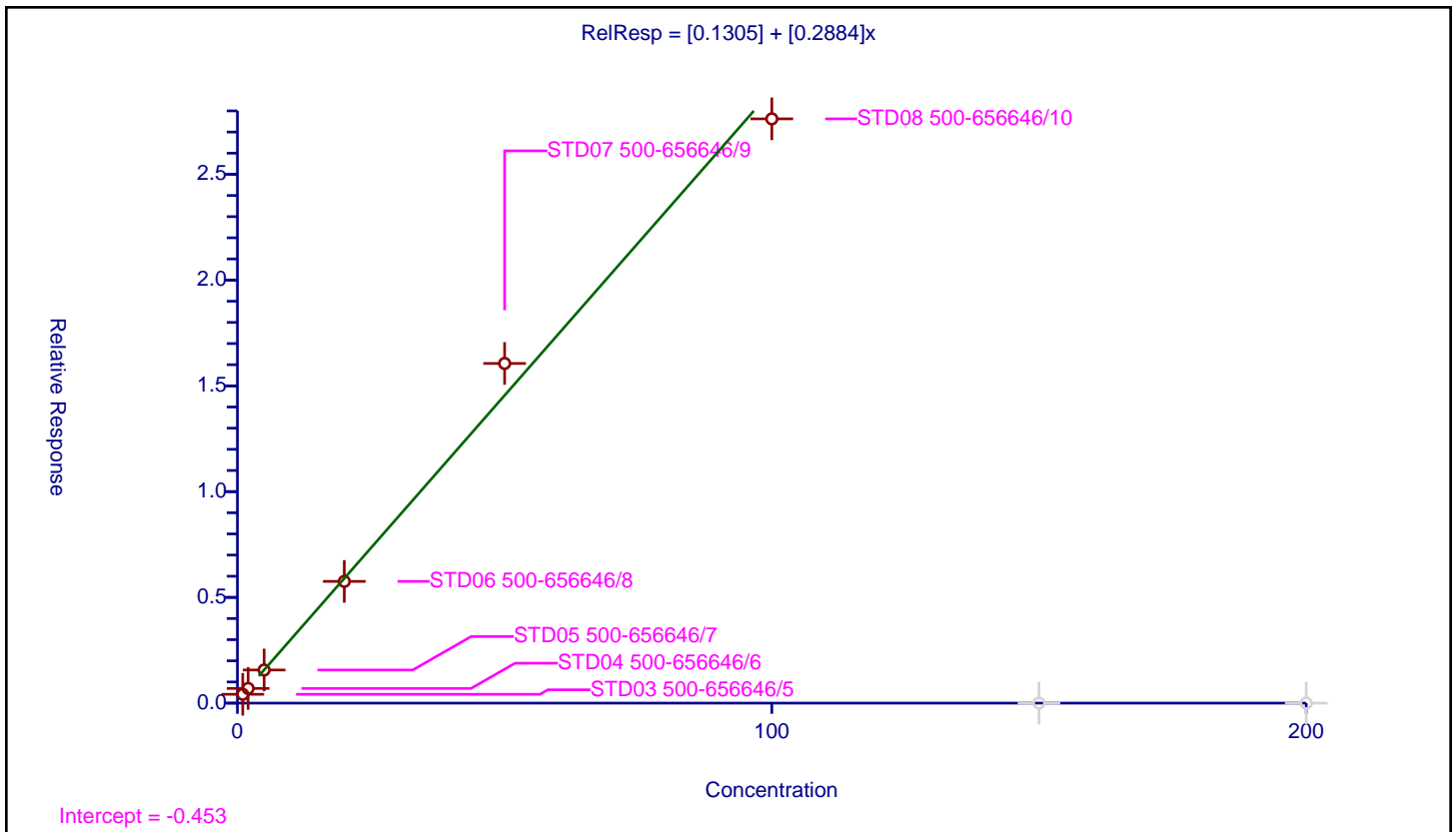
/ Chloromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1305
Slope:	0.2884

Error Coefficients	
Standard Error:	160000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.41708	50.0	505538.0	0.41708	Y
2	STD04 500-656646/6	2.0	0.694365	50.0	488072.0	0.347182	Y
3	STD05 500-656646/7	5.0	1.565868	50.0	492251.0	0.313174	Y
4	STD06 500-656646/8	20.0	5.75459	50.0	492155.0	0.287729	Y
5	STD07 500-656646/9	50.0	16.059399	50.0	462536.0	0.321188	Y
6	STD08 500-656646/10	100.0	27.623435	50.0	501985.0	0.276234	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

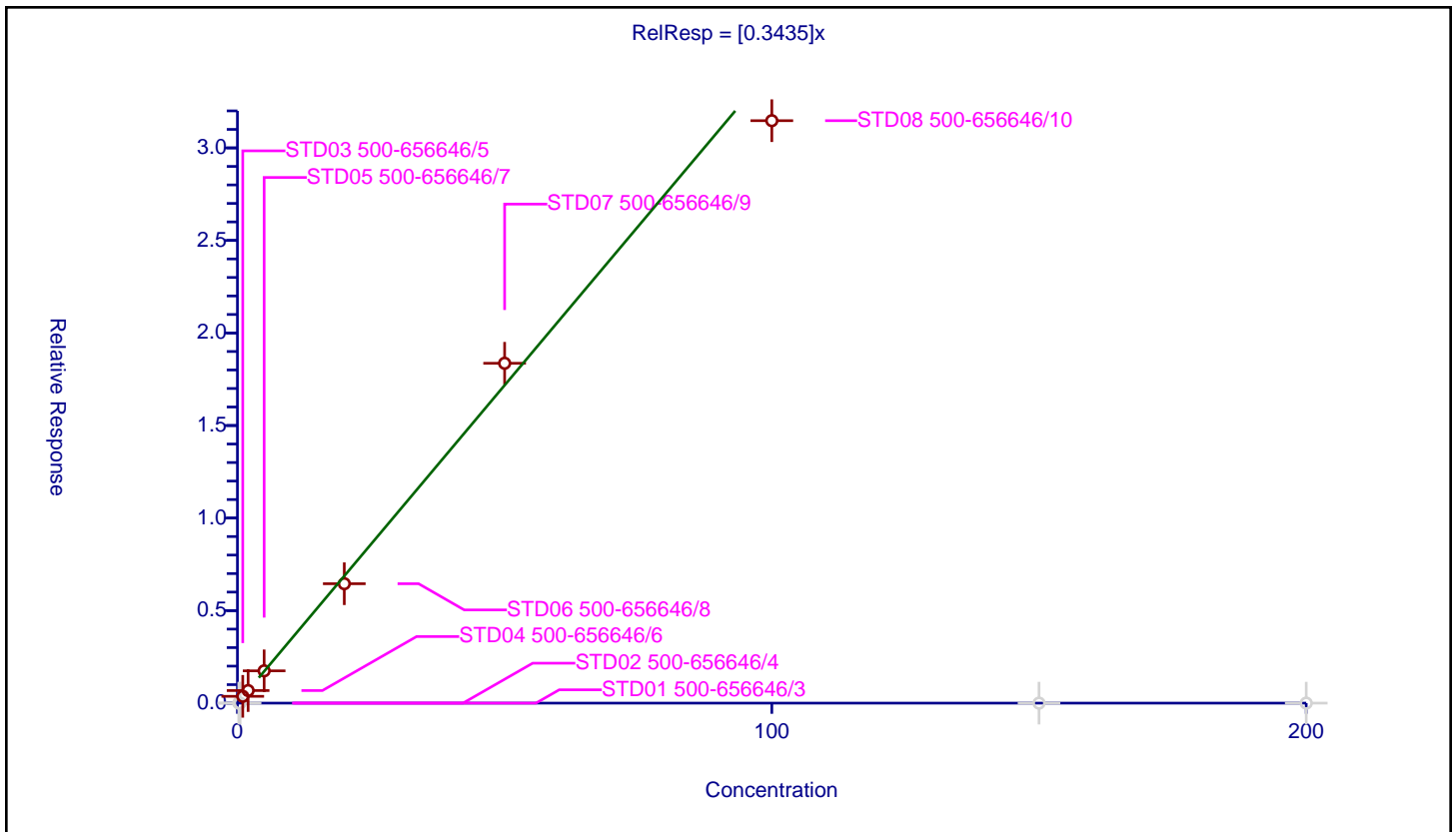
/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3435

Error Coefficients	
Standard Error:	163000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.0	50.0	490394.0	0.0	N
2	STD02 500-656646/4	0.5	0.0	50.0	479201.0	0.0	N
3	STD03 500-656646/5	1.0	0.367628	50.0	505538.0	0.367628	Y
4	STD04 500-656646/6	2.0	0.680023	50.0	488072.0	0.340011	Y
5	STD05 500-656646/7	5.0	1.744435	50.0	492251.0	0.348887	Y
6	STD06 500-656646/8	20.0	6.451626	50.0	492155.0	0.322581	Y
7	STD07 500-656646/9	50.0	18.362895	50.0	462536.0	0.367258	Y
8	STD08 500-656646/10	100.0	31.470462	50.0	501985.0	0.314705	Y
9	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
10	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

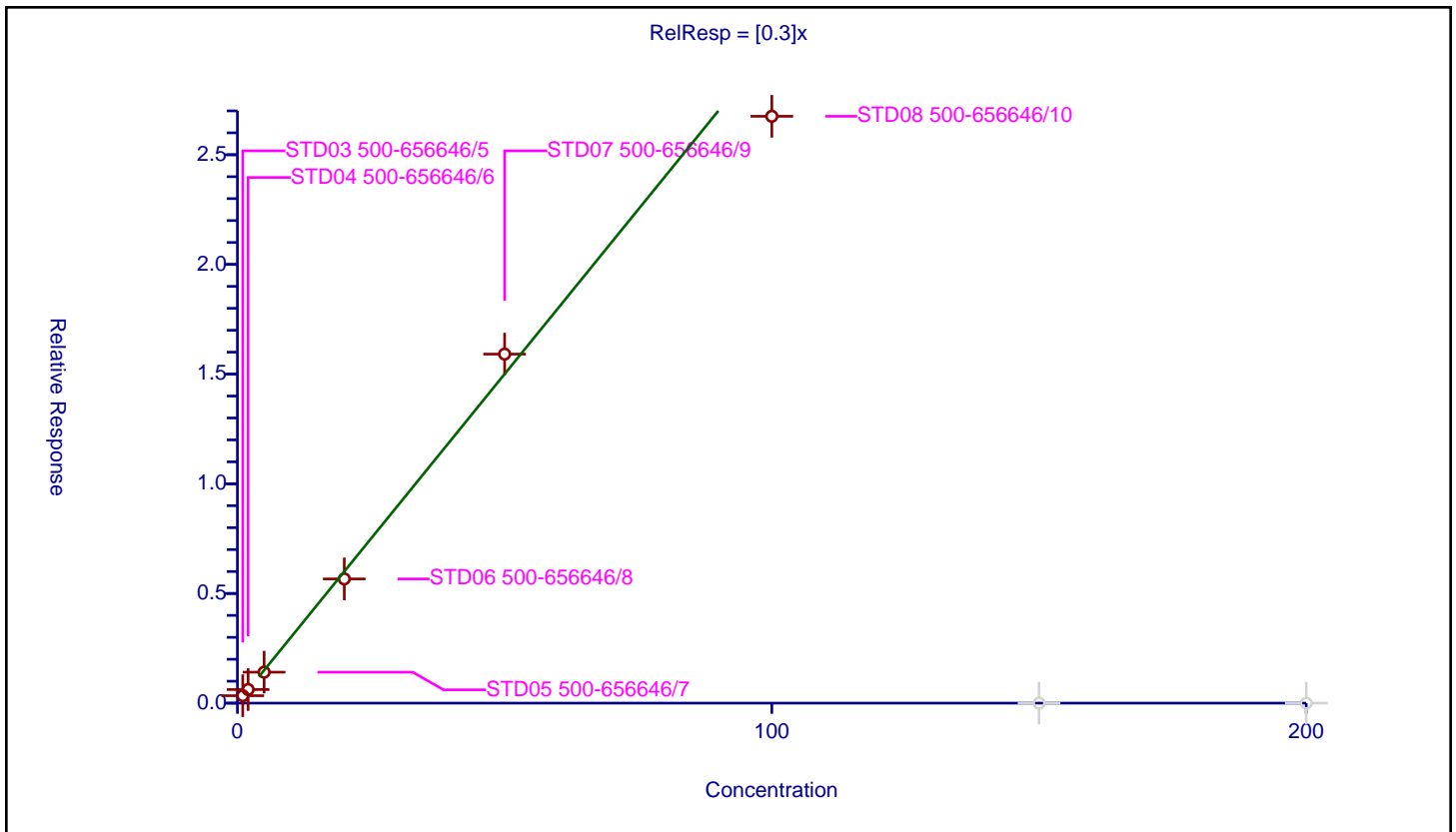
/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3

Error Coefficients	
Standard Error:	139000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.339243	50.0	505538.0	0.339243	Y
2	STD04 500-656646/6	2.0	0.619888	50.0	488072.0	0.309944	Y
3	STD05 500-656646/7	5.0	1.410967	50.0	492251.0	0.282193	Y
4	STD06 500-656646/8	20.0	5.662952	50.0	492155.0	0.283148	Y
5	STD07 500-656646/9	50.0	15.911518	50.0	462536.0	0.31823	Y
6	STD08 500-656646/10	100.0	26.753787	50.0	501985.0	0.267538	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

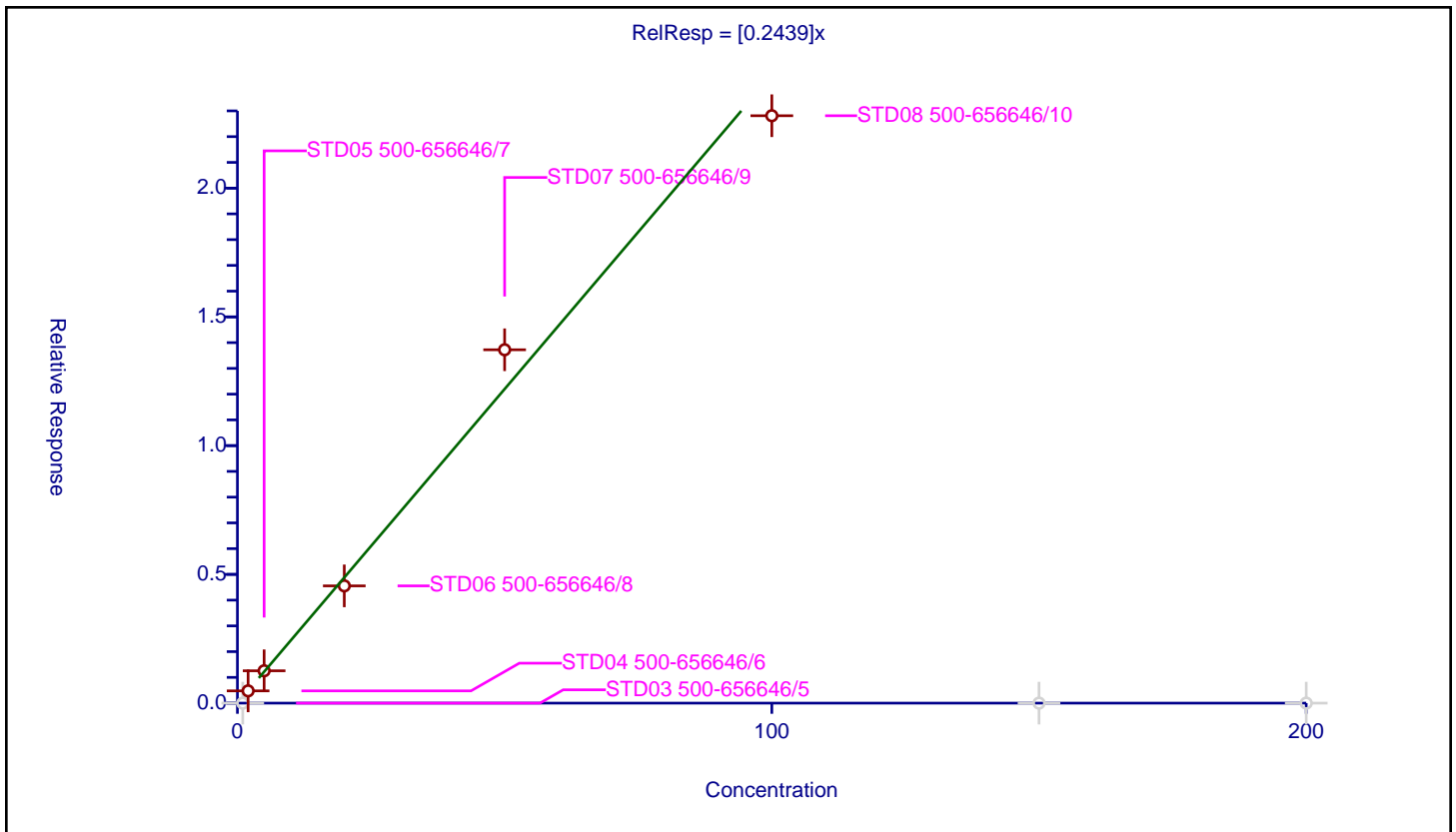
/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2439

Error Coefficients	
Standard Error:	133000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	505538.0	0.0	N
2	STD04 500-656646/6	2.0	0.476467	50.0	488072.0	0.238233	Y
3	STD05 500-656646/7	5.0	1.255762	50.0	492251.0	0.251152	Y
4	STD06 500-656646/8	20.0	4.554053	50.0	492155.0	0.227703	Y
5	STD07 500-656646/9	50.0	13.723148	50.0	462536.0	0.274463	Y
6	STD08 500-656646/10	100.0	22.811339	50.0	501985.0	0.228113	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

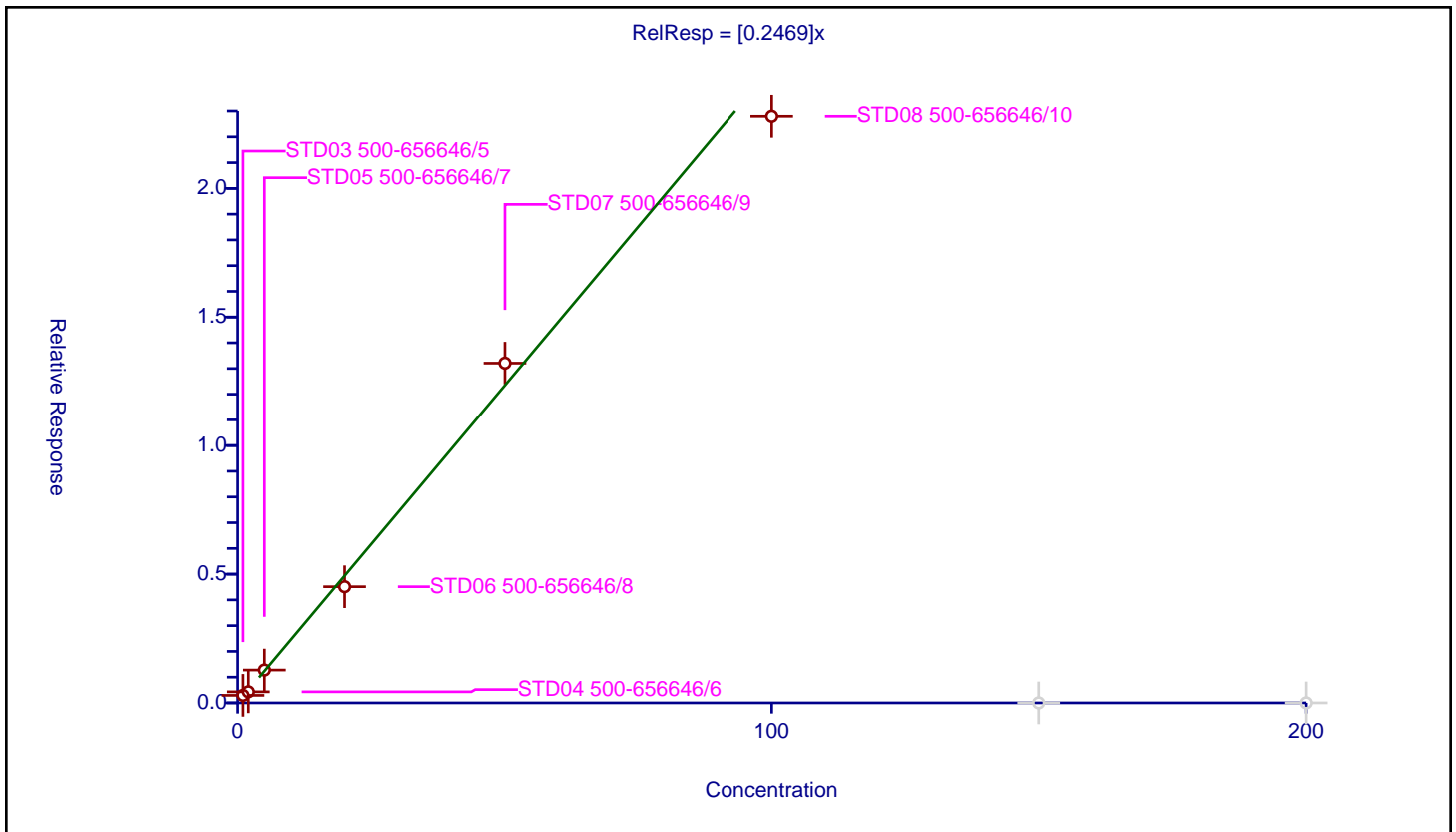
/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2469

Error Coefficients	
Standard Error:	118000
Relative Standard Error:	11.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.293153	50.0	505538.0	0.293153	Y
2	STD04 500-656646/6	2.0	0.430572	50.0	488072.0	0.215286	Y
3	STD05 500-656646/7	5.0	1.27628	50.0	492251.0	0.255256	Y
4	STD06 500-656646/8	20.0	4.511993	50.0	492155.0	0.2256	Y
5	STD07 500-656646/9	50.0	13.208269	50.0	462536.0	0.264165	Y
6	STD08 500-656646/10	100.0	22.794805	50.0	501985.0	0.227948	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

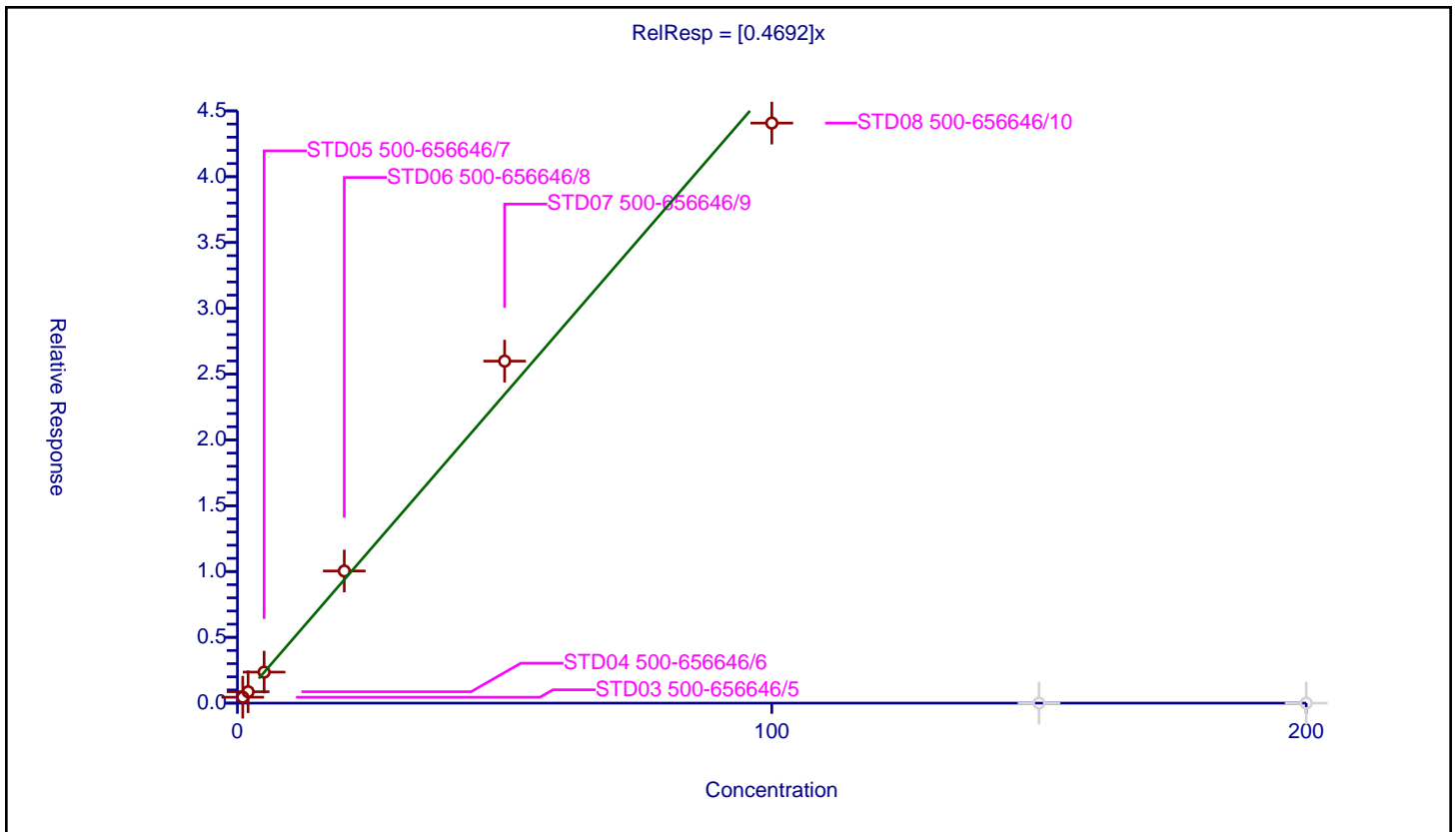
/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4692

Error Coefficients	
Standard Error:	230000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.448928	50.0	505538.0	0.448928	Y
2	STD04 500-656646/6	2.0	0.865139	50.0	488072.0	0.432569	Y
3	STD05 500-656646/7	5.0	2.356826	50.0	492251.0	0.471365	Y
4	STD06 500-656646/8	20.0	10.039825	50.0	492155.0	0.501991	Y
5	STD07 500-656646/9	50.0	25.986626	50.0	462536.0	0.519733	Y
6	STD08 500-656646/10	100.0	44.073927	50.0	501985.0	0.440739	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

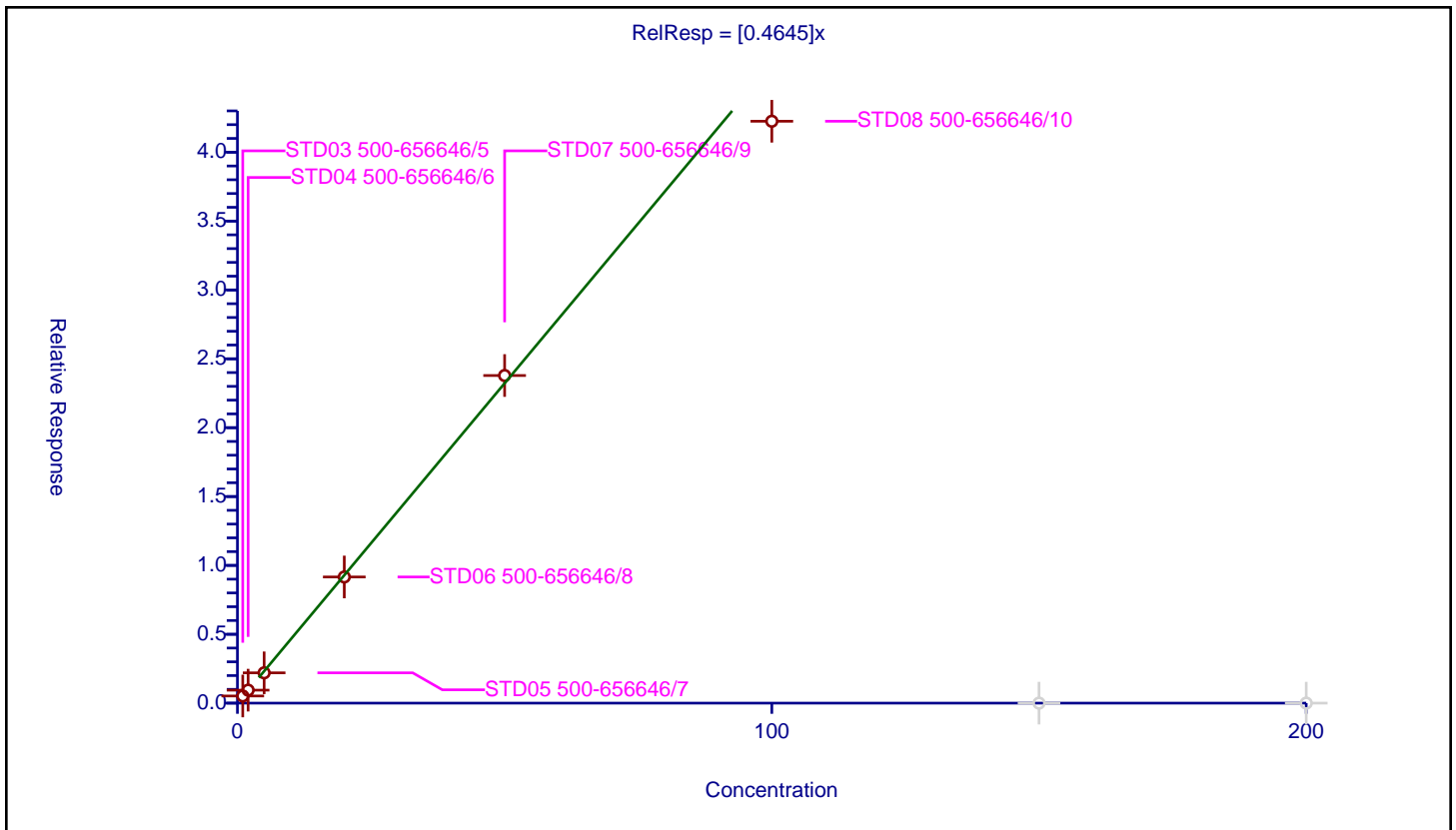
/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4645

Error Coefficients	
Standard Error:	218000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.51915	50.0	505538.0	0.51915	Y
2	STD04 500-656646/6	2.0	0.942996	50.0	488072.0	0.471498	Y
3	STD05 500-656646/7	5.0	2.199488	50.0	492251.0	0.439898	Y
4	STD06 500-656646/8	20.0	9.159614	50.0	492155.0	0.457981	Y
5	STD07 500-656646/9	50.0	23.786905	50.0	462536.0	0.475738	Y
6	STD08 500-656646/10	100.0	42.247179	50.0	501985.0	0.422472	Y
7	STD09 500-656646/11	150.0	0.0	50.0	606080.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

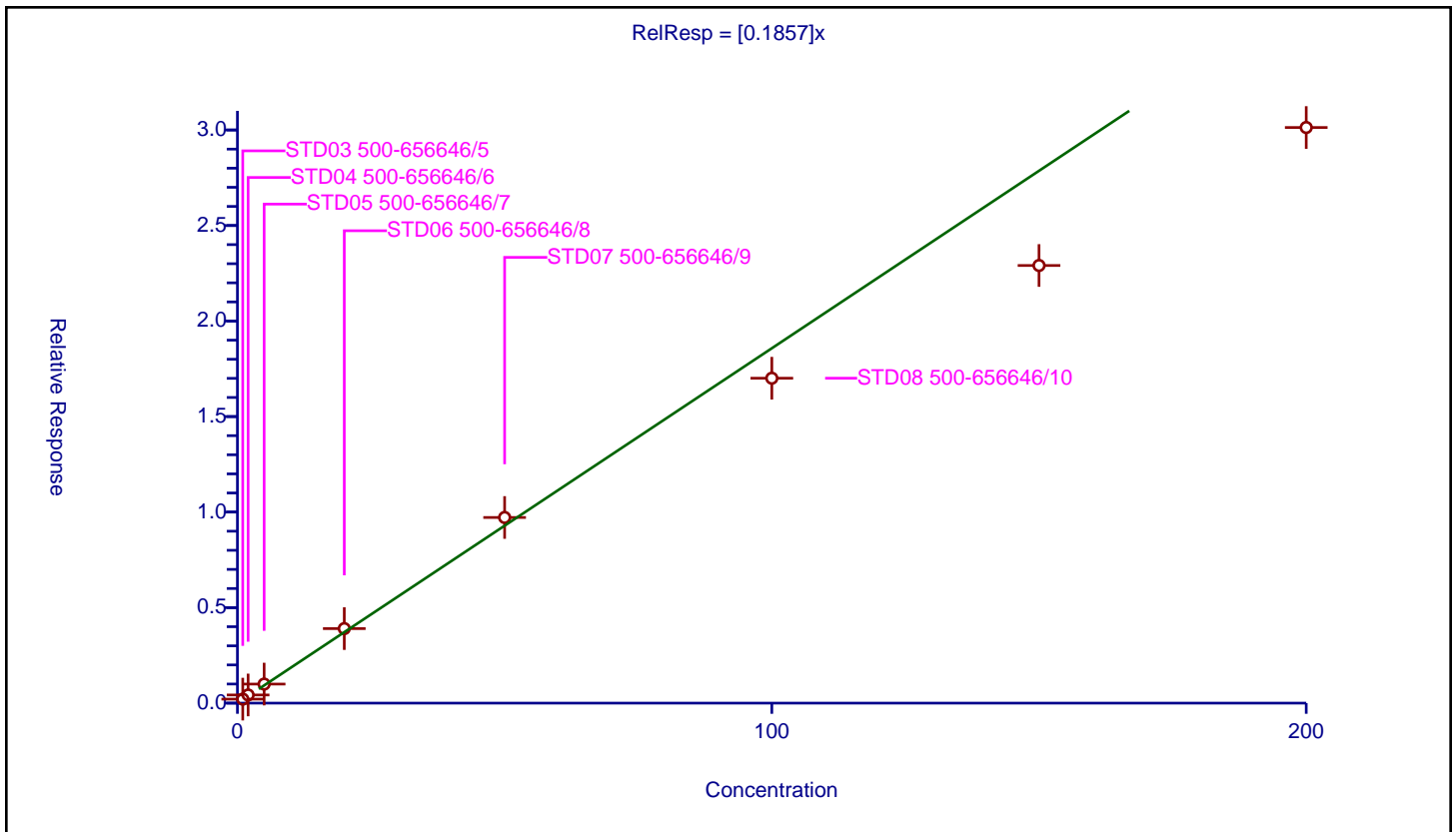
/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1857

Error Coefficients	
Standard Error:	184000
Relative Standard Error:	13.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.209875	50.0	505538.0	0.209875	Y
2	STD04 500-656646/6	2.0	0.427396	50.0	488072.0	0.213698	Y
3	STD05 500-656646/7	5.0	0.997763	50.0	492251.0	0.199553	Y
4	STD06 500-656646/8	20.0	3.901515	50.0	492155.0	0.195076	Y
5	STD07 500-656646/9	50.0	9.717406	50.0	462536.0	0.194348	Y
6	STD08 500-656646/10	100.0	17.007281	50.0	501985.0	0.170073	Y
7	STD09 500-656646/11	150.0	22.907537	50.0	606080.0	0.152717	Y
8	STD010 500-656646/12	200.0	30.129629	50.0	576723.0	0.150648	Y



Calibration

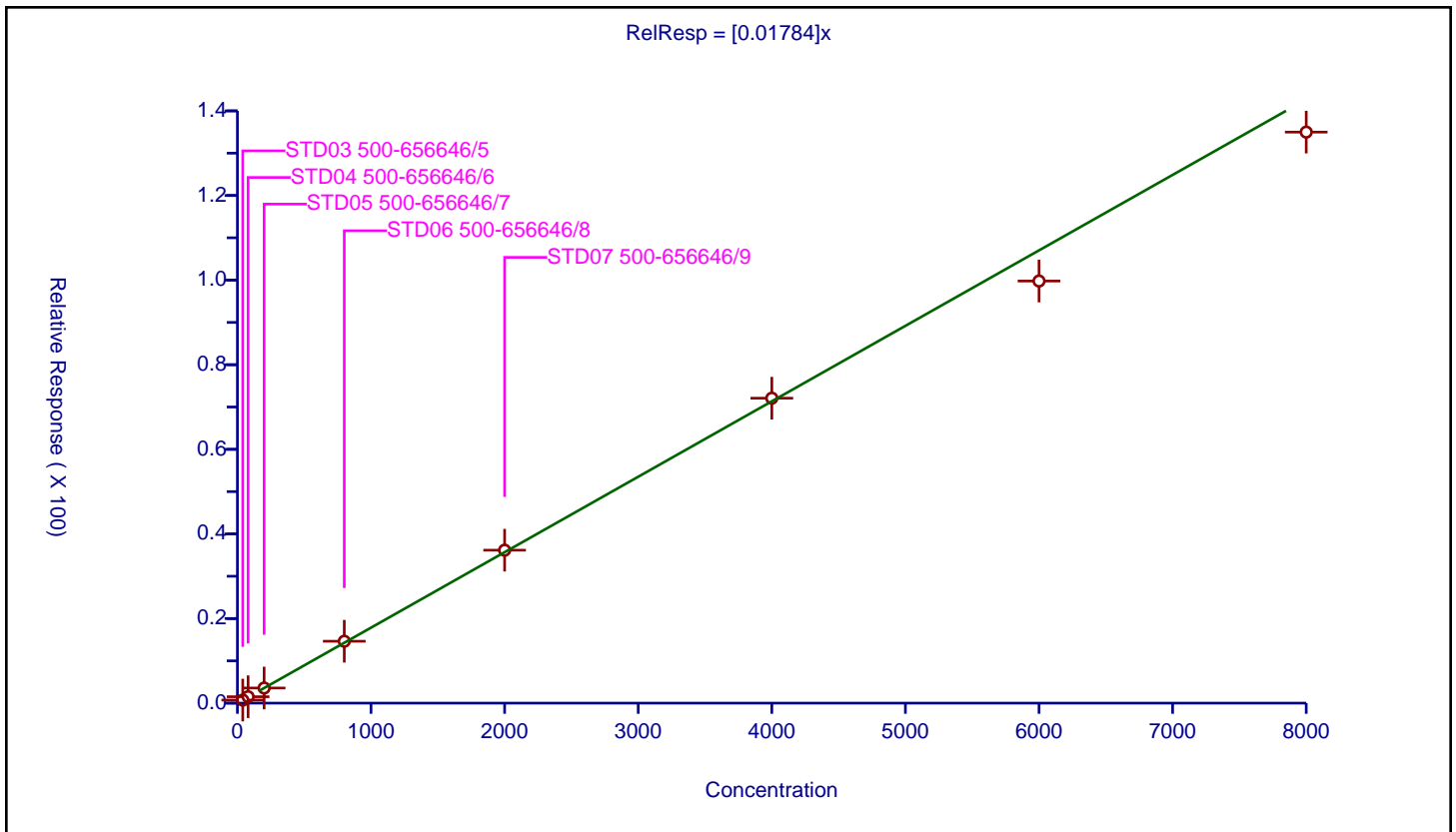
/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01784

Error Coefficients	
Standard Error:	806000
Relative Standard Error:	4.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	40.0	0.719827	50.0	505538.0	0.017996	Y
2	STD04 500-656646/6	80.0	1.516272	50.0	488072.0	0.018953	Y
3	STD05 500-656646/7	200.0	3.572568	50.0	492251.0	0.017863	Y
4	STD06 500-656646/8	800.0	14.629537	50.0	492155.0	0.018287	Y
5	STD07 500-656646/9	2000.0	36.153186	50.0	462536.0	0.018077	Y
6	STD08 500-656646/10	4000.0	72.086517	50.0	501985.0	0.018022	Y
7	STD09 500-656646/11	6000.0	99.778495	50.0	606080.0	0.01663	Y
8	STD10 500-656646/12	8000.0	134.983346	50.0	576723.0	0.016873	Y



Calibration

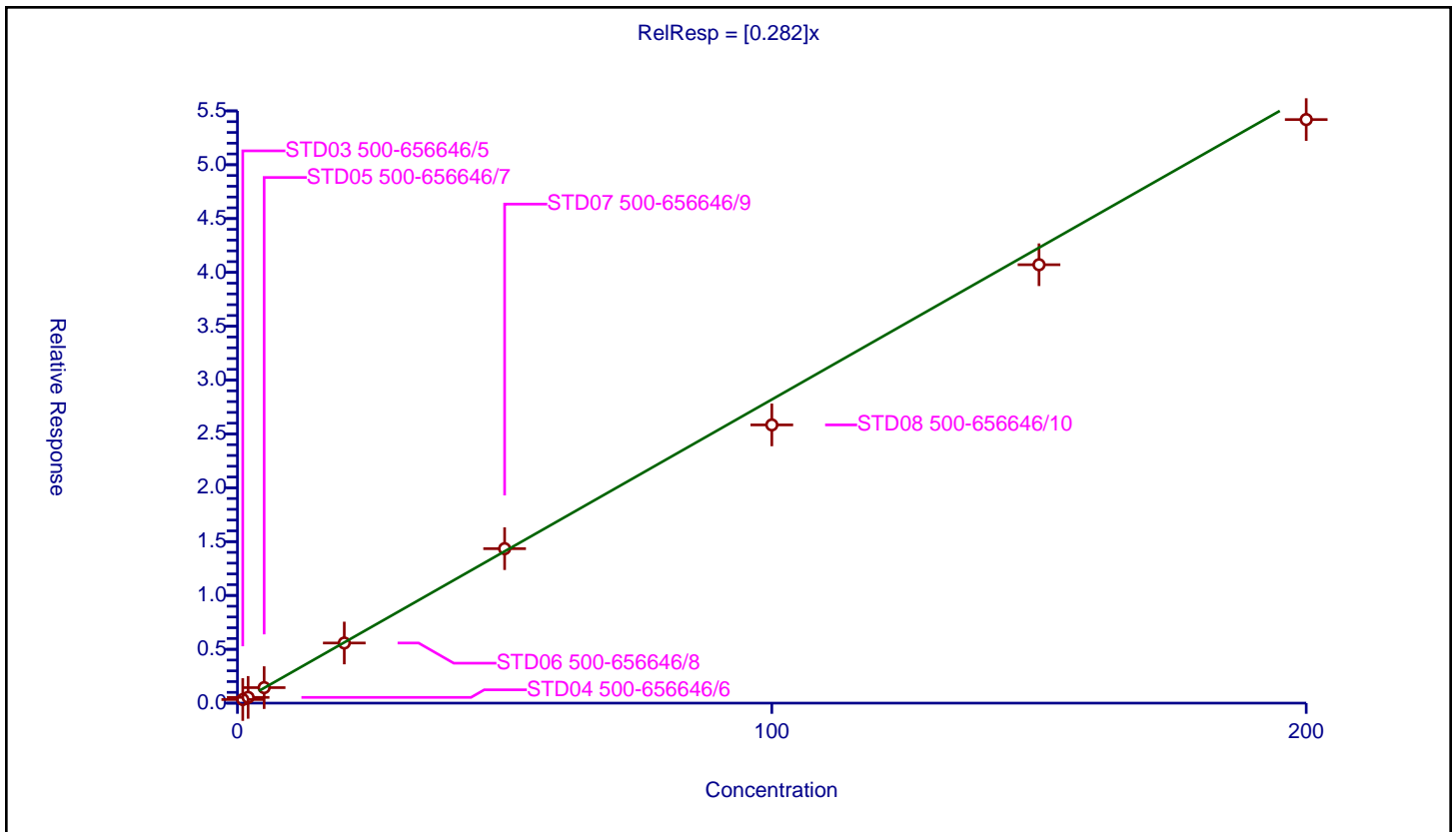
/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.282

Error Coefficients	
Standard Error:	321000
Relative Standard Error:	8.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.334198	50.0	505538.0	0.334198	Y
2	STD04 500-656646/6	2.0	0.533323	50.0	488072.0	0.266661	Y
3	STD05 500-656646/7	5.0	1.439916	50.0	492251.0	0.287983	Y
4	STD06 500-656646/8	20.0	5.584521	50.0	492155.0	0.279226	Y
5	STD07 500-656646/9	50.0	14.343532	50.0	462536.0	0.286871	Y
6	STD08 500-656646/10	100.0	25.838621	50.0	501985.0	0.258386	Y
7	STD09 500-656646/11	150.0	40.713107	50.0	606080.0	0.271421	Y
8	STD010 500-656646/12	200.0	54.194561	50.0	576723.0	0.270973	Y



Calibration

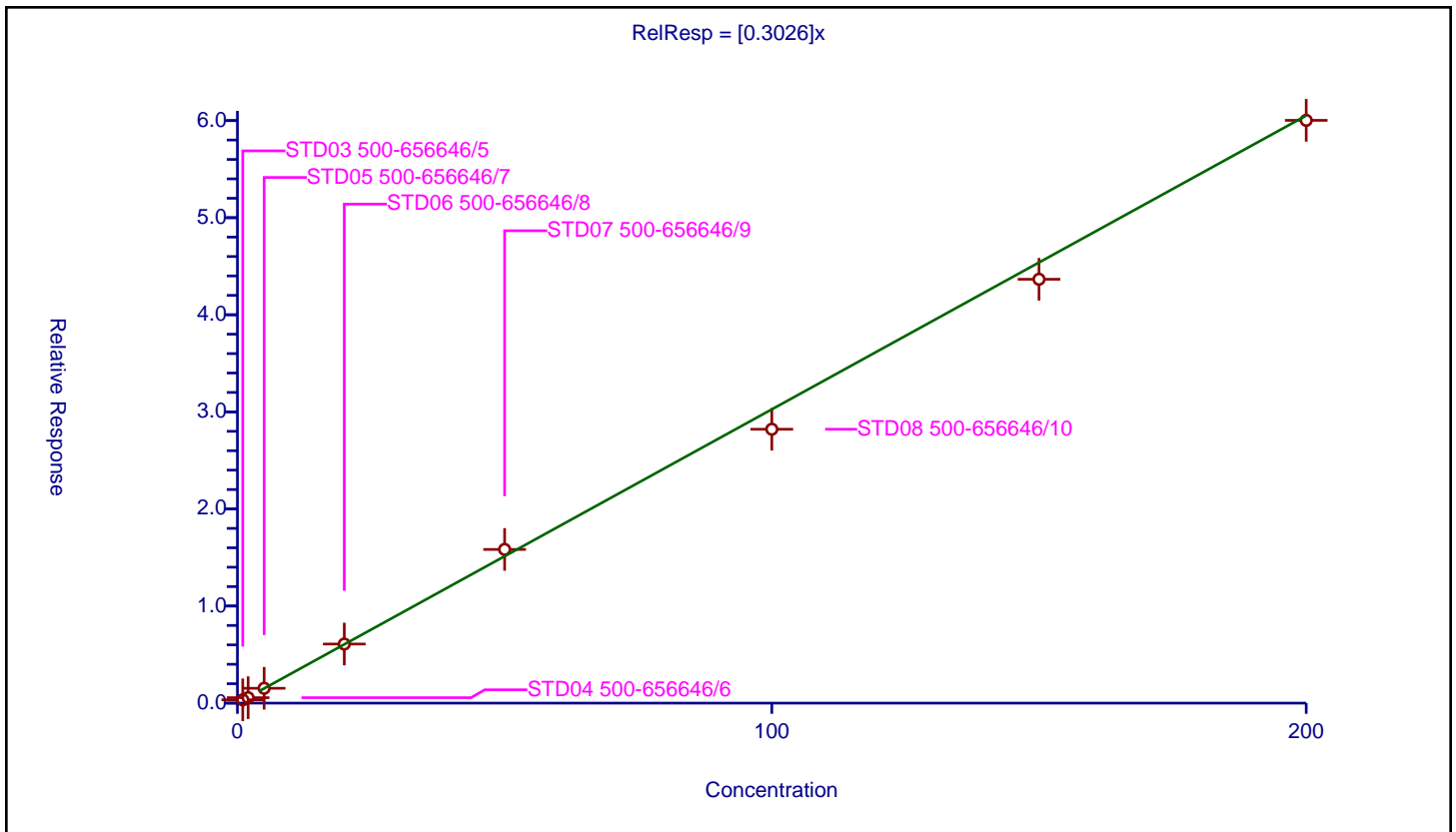
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3026

Error Coefficients	
Standard Error:	351000
Relative Standard Error:	6.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.340034	50.0	505538.0	0.340034	Y
2	STD04 500-656646/6	2.0	0.560675	50.0	488072.0	0.280338	Y
3	STD05 500-656646/7	5.0	1.530418	50.0	492251.0	0.306084	Y
4	STD06 500-656646/8	20.0	6.085989	50.0	492155.0	0.304299	Y
5	STD07 500-656646/9	50.0	15.830443	50.0	462536.0	0.316609	Y
6	STD08 500-656646/10	100.0	28.210006	50.0	501985.0	0.2821	Y
7	STD09 500-656646/11	150.0	43.65686	50.0	606080.0	0.291046	Y
8	STD10 500-656646/12	200.0	60.027344	50.0	576723.0	0.300137	Y



Calibration

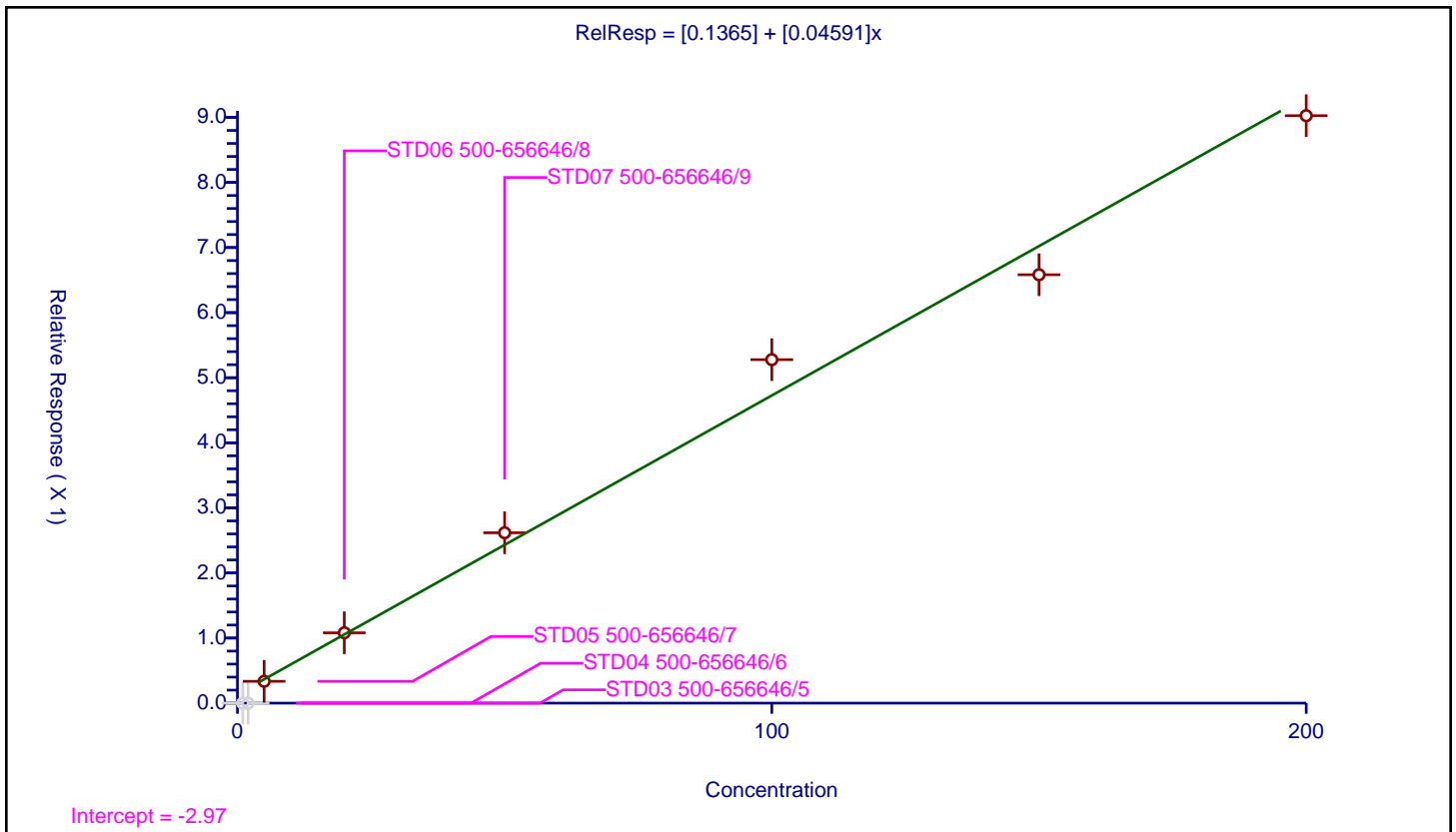
/ Acetone

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1365
Slope:	0.04591

Error Coefficients	
Standard Error:	72000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	505538.0	0.0	N
2	STD04 500-656646/6	2.0	0.0	50.0	488072.0	0.0	N
3	STD05 500-656646/7	5.0	0.335296	50.0	492251.0	0.067059	Y
4	STD06 500-656646/8	20.0	1.080757	50.0	492155.0	0.054038	Y
5	STD07 500-656646/9	50.0	2.61785	50.0	462536.0	0.052357	Y
6	STD08 500-656646/10	100.0	5.277648	50.0	501985.0	0.052776	Y
7	STD09 500-656646/11	150.0	6.582382	50.0	606080.0	0.043883	Y
8	STD010 500-656646/12	200.0	9.02617	50.0	576723.0	0.045131	Y



Calibration

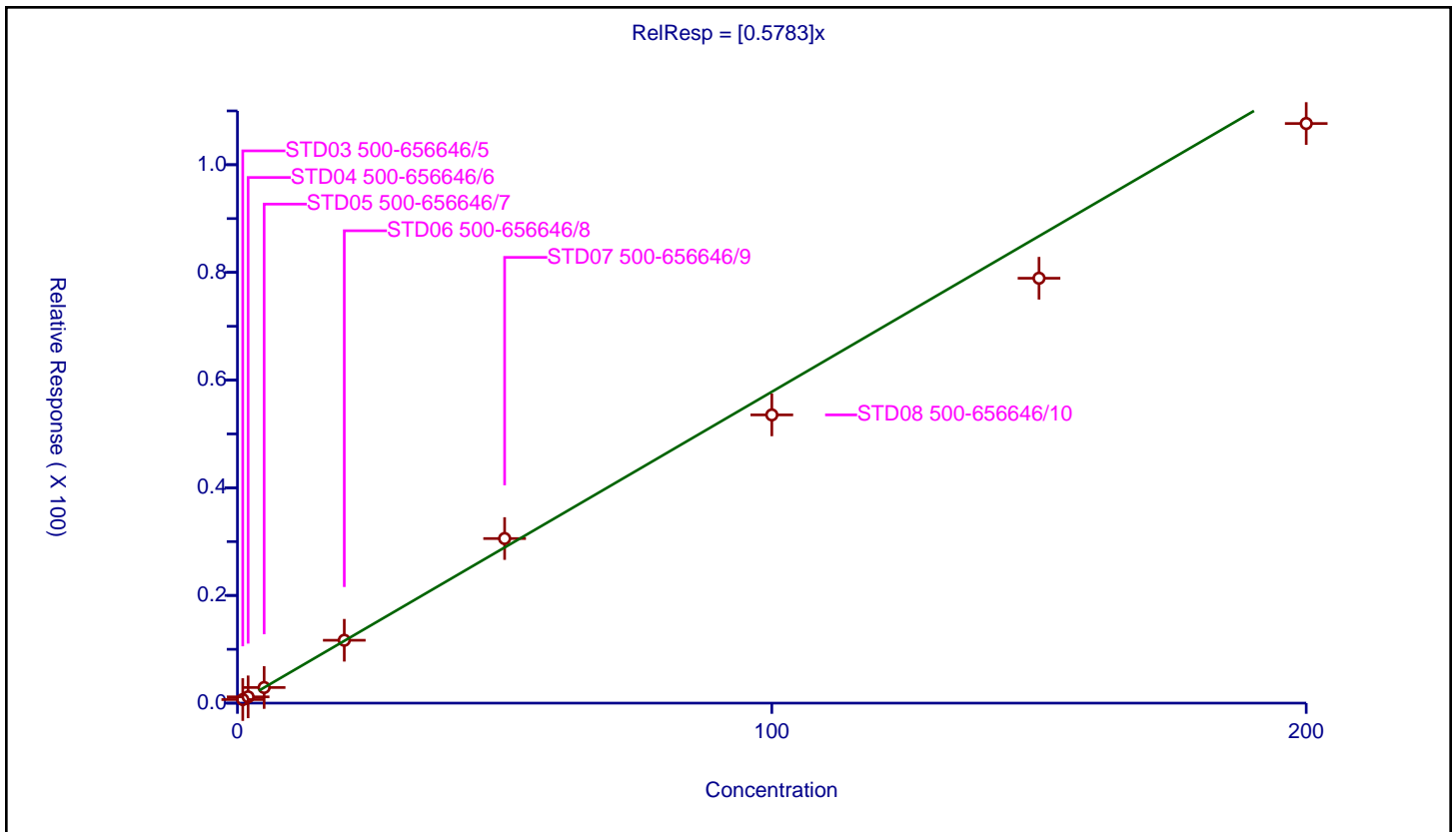
/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5783

Error Coefficients	
Standard Error:	637000
Relative Standard Error:	8.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.667408	50.0	505538.0	0.667408	Y
2	STD04 500-656646/6	2.0	1.167348	50.0	488072.0	0.583674	Y
3	STD05 500-656646/7	5.0	2.899131	50.0	492251.0	0.579826	Y
4	STD06 500-656646/8	20.0	11.678536	50.0	492155.0	0.583927	Y
5	STD07 500-656646/9	50.0	30.570702	50.0	462536.0	0.611414	Y
6	STD08 500-656646/10	100.0	53.538452	50.0	501985.0	0.535385	Y
7	STD09 500-656646/11	150.0	78.920357	50.0	606080.0	0.526136	Y
8	STD010 500-656646/12	200.0	107.655582	50.0	576723.0	0.538278	Y



Calibration

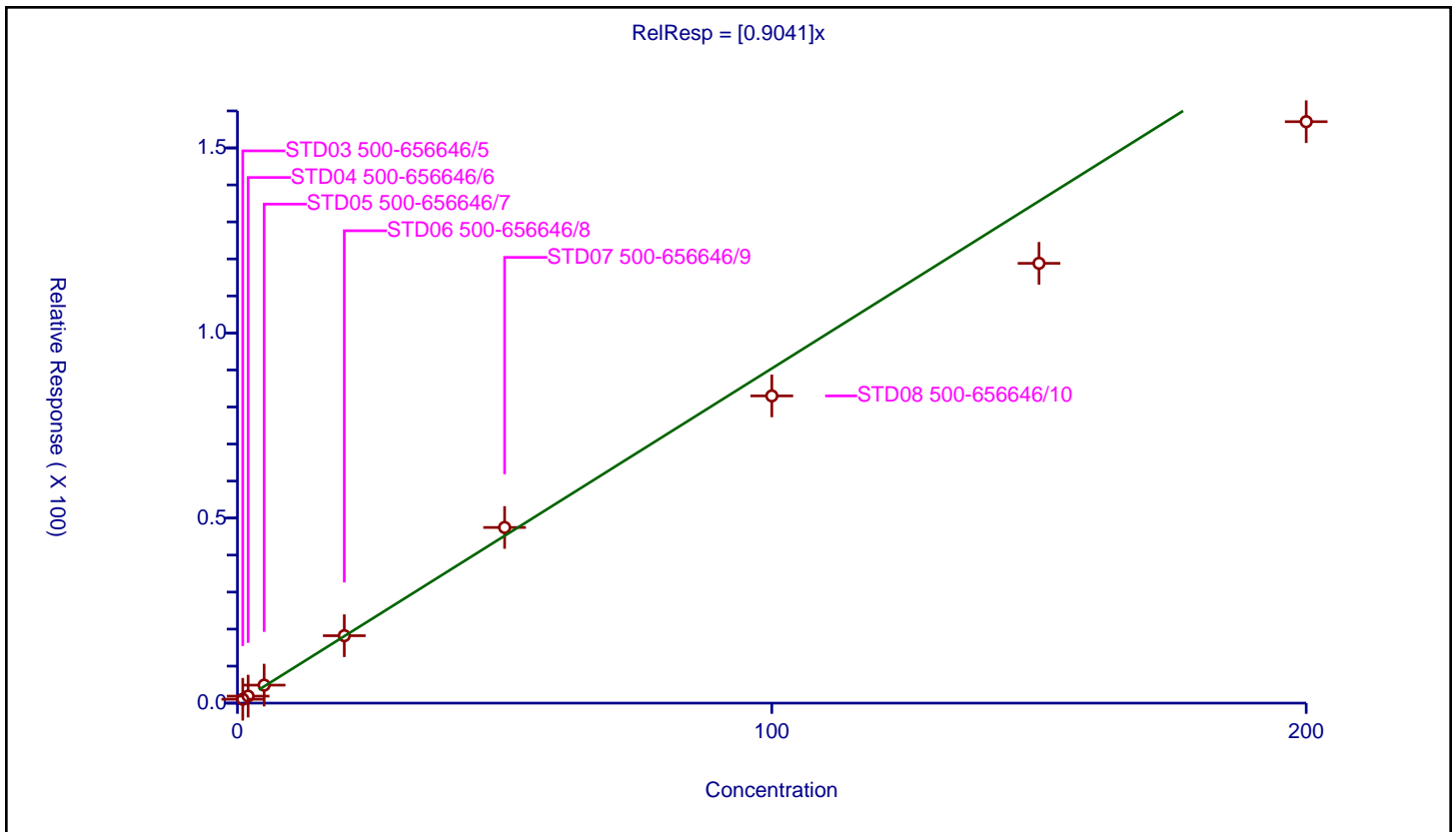
/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9041

Error Coefficients	
Standard Error:	947000
Relative Standard Error:	10.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.048388	50.0	505538.0	1.048388	Y
2	STD04 500-656646/6	2.0	1.890192	50.0	488072.0	0.945096	Y
3	STD05 500-656646/7	5.0	4.86063	50.0	492251.0	0.972126	Y
4	STD06 500-656646/8	20.0	18.212758	50.0	492155.0	0.910638	Y
5	STD07 500-656646/9	50.0	47.45382	50.0	462536.0	0.949076	Y
6	STD08 500-656646/10	100.0	83.005468	50.0	501985.0	0.830055	Y
7	STD09 500-656646/11	150.0	118.821525	50.0	606080.0	0.792144	Y
8	STD010 500-656646/12	200.0	157.086764	50.0	576723.0	0.785434	Y



Calibration

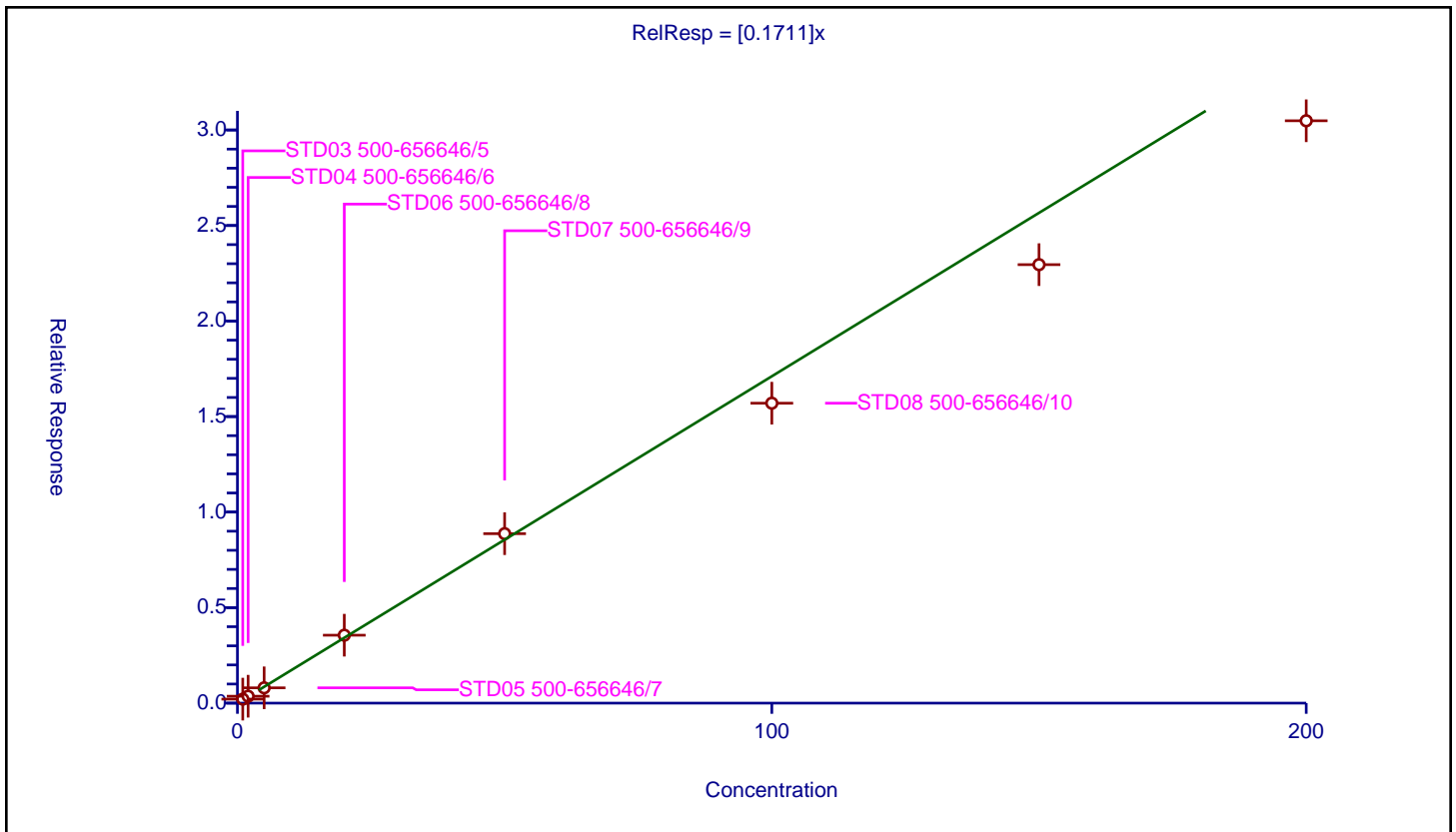
/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1711

Error Coefficients	
Standard Error:	183000
Relative Standard Error:	11.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.209875	50.0	505538.0	0.209875	Y
2	STD04 500-656646/6	2.0	0.361832	50.0	488072.0	0.180916	Y
3	STD05 500-656646/7	5.0	0.801319	50.0	492251.0	0.160264	Y
4	STD06 500-656646/8	20.0	3.555181	50.0	492155.0	0.177759	Y
5	STD07 500-656646/9	50.0	8.86958	50.0	462536.0	0.177392	Y
6	STD08 500-656646/10	100.0	15.70027	50.0	501985.0	0.157003	Y
7	STD09 500-656646/11	150.0	22.952498	50.0	606080.0	0.153017	Y
8	STD10 500-656646/12	200.0	30.482918	50.0	576723.0	0.152415	Y



Calibration

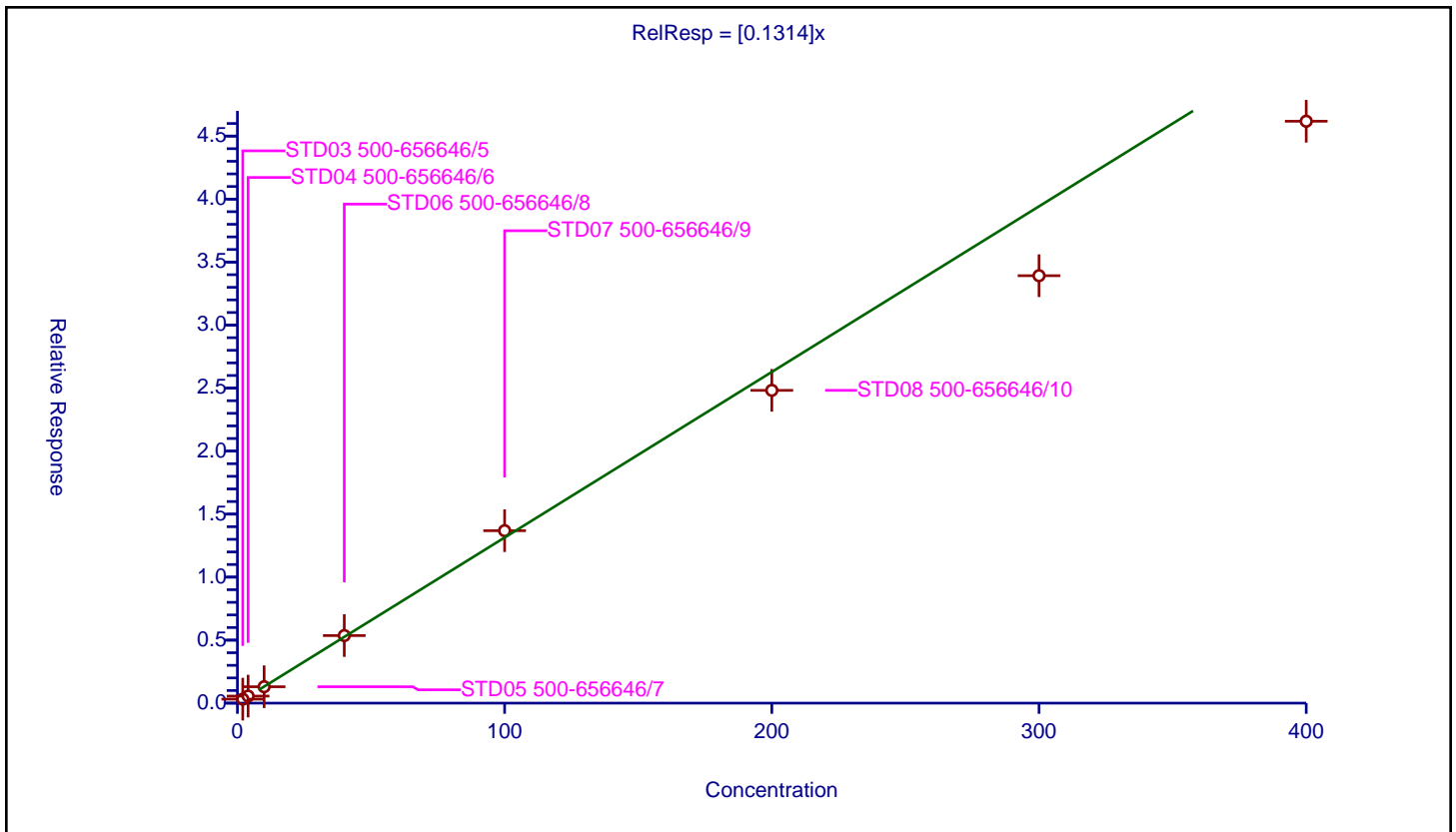
/ Methyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1314

Error Coefficients	
Standard Error:	276000
Relative Standard Error:	10.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	2.0	0.315407	50.0	505538.0	0.157703	Y
2	STD04 500-656646/6	4.0	0.559856	50.0	488072.0	0.139964	Y
3	STD05 500-656646/7	10.0	1.301064	50.0	492251.0	0.130106	Y
4	STD06 500-656646/8	40.0	5.361725	50.0	492155.0	0.134043	Y
5	STD07 500-656646/9	100.0	13.684665	50.0	462536.0	0.136847	Y
6	STD08 500-656646/10	200.0	24.822256	50.0	501985.0	0.124111	Y
7	STD09 500-656646/11	300.0	33.92176	50.0	606080.0	0.113073	Y
8	STD010 500-656646/12	400.0	46.178235	50.0	576723.0	0.115446	Y



Calibration

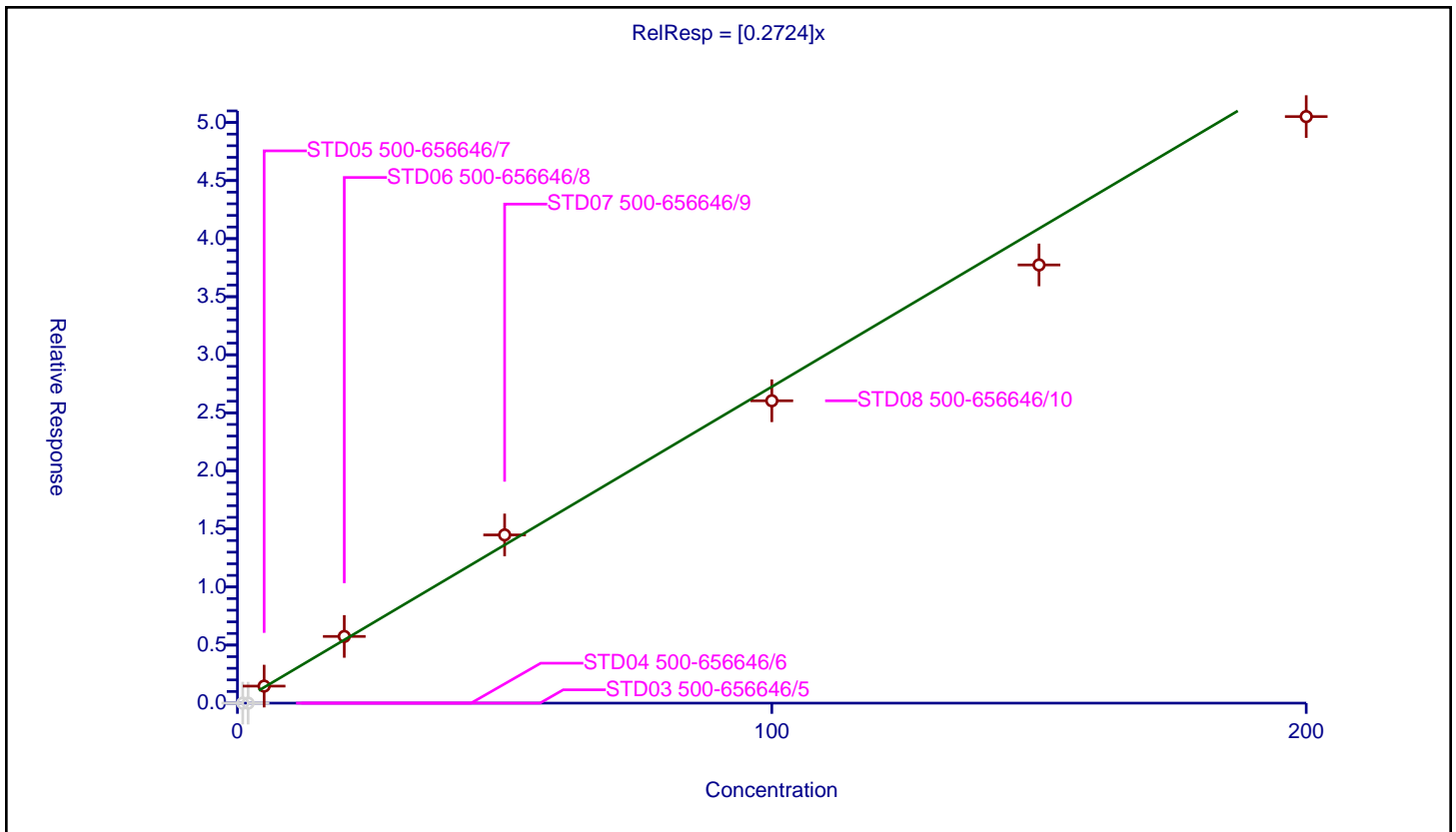
/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2724

Error Coefficients	
Standard Error:	357000
Relative Standard Error:	7.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	505538.0	0.0	N
2	STD04 500-656646/6	2.0	0.0	50.0	488072.0	0.0	N
3	STD05 500-656646/7	5.0	1.466427	50.0	492251.0	0.293285	Y
4	STD06 500-656646/8	20.0	5.744125	50.0	492155.0	0.287206	Y
5	STD07 500-656646/9	50.0	14.484062	50.0	462536.0	0.289681	Y
6	STD08 500-656646/10	100.0	26.037133	50.0	501985.0	0.260371	Y
7	STD09 500-656646/11	150.0	37.734622	50.0	606080.0	0.251564	Y
8	STD010 500-656646/12	200.0	50.509343	50.0	576723.0	0.252547	Y



Calibration

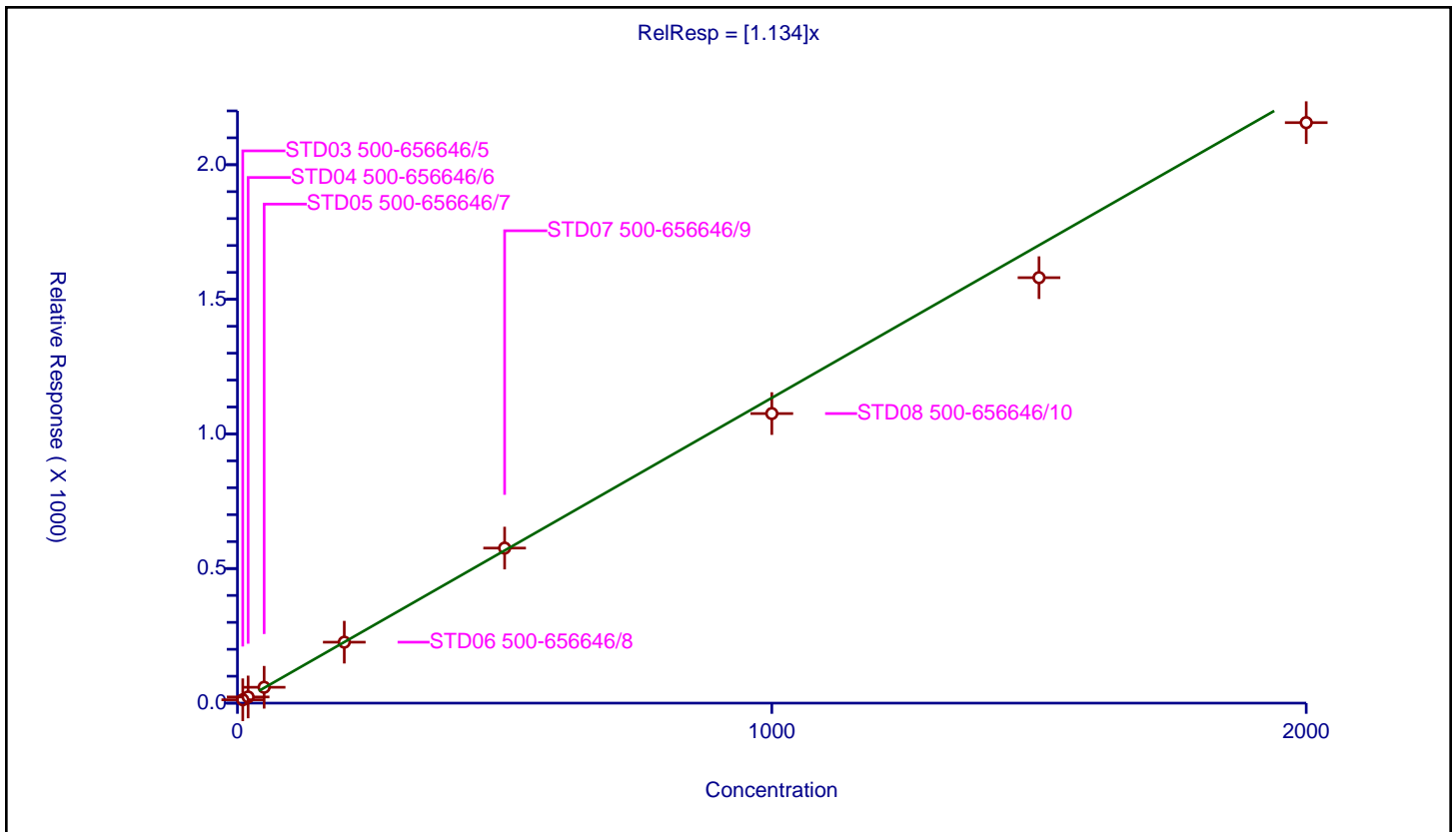
/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.134

Error Coefficients	
Standard Error:	261000
Relative Standard Error:	5.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	10.0	12.551374	1000.0	216550.0	1.255137	Y
2	STD04 500-656646/6	20.0	22.909187	1000.0	203892.0	1.145459	Y
3	STD05 500-656646/7	50.0	58.957209	1000.0	216496.0	1.179144	Y
4	STD06 500-656646/8	200.0	226.464132	1000.0	222777.0	1.132321	Y
5	STD07 500-656646/9	500.0	576.000275	1000.0	203519.0	1.152001	Y
6	STD08 500-656646/10	1000.0	1075.66998	1000.0	212581.0	1.07567	Y
7	STD09 500-656646/11	1500.0	1580.486395	1000.0	245644.0	1.053658	Y
8	STD010 500-656646/12	2000.0	2156.3434	1000.0	237554.0	1.078172	Y



Calibration

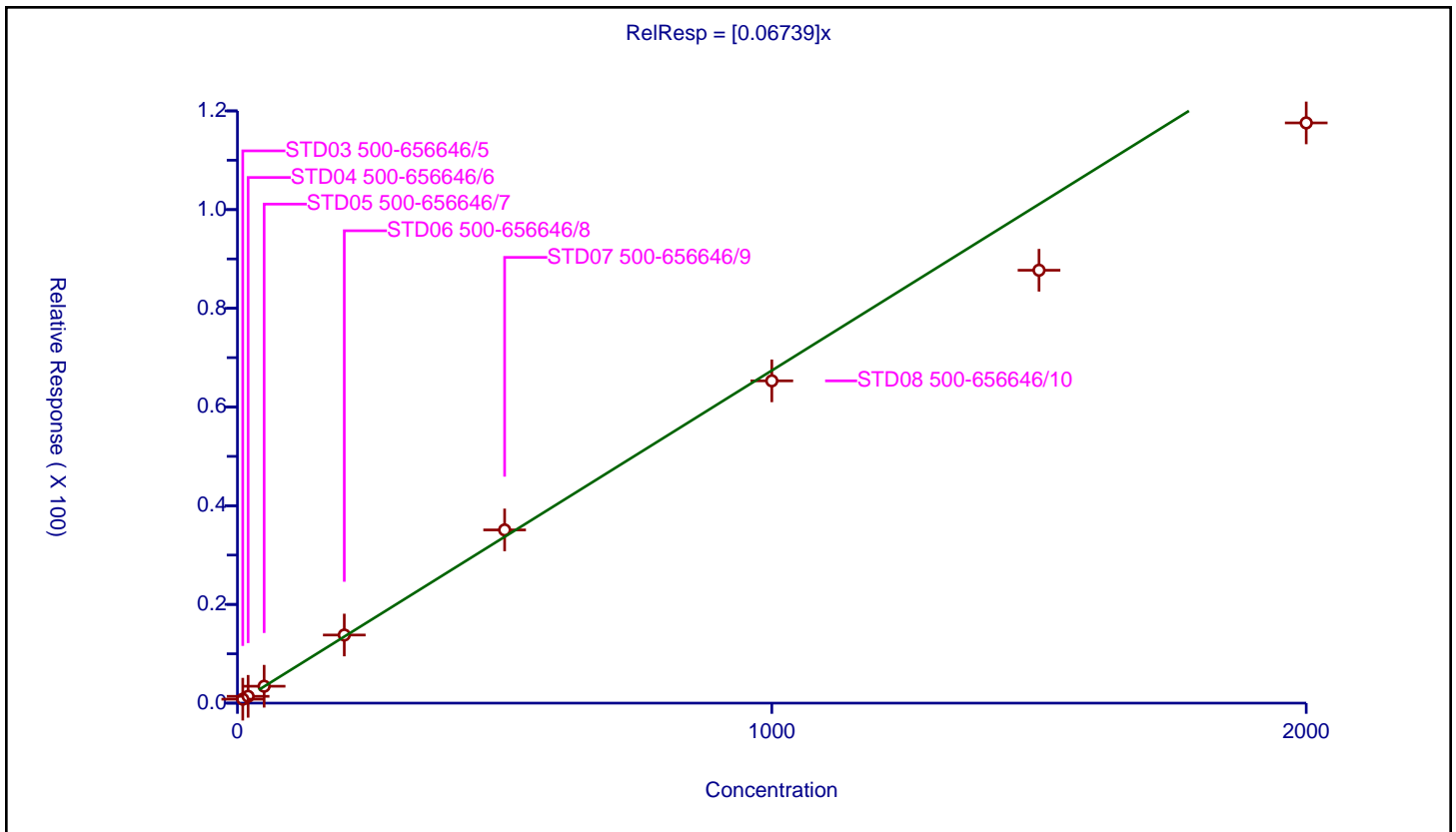
/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06739

Error Coefficients	
Standard Error:	710000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	10.0	0.801325	50.0	505538.0	0.080132	Y
2	STD04 500-656646/6	20.0	1.376334	50.0	488072.0	0.068817	Y
3	STD05 500-656646/7	50.0	3.421527	50.0	492251.0	0.068431	Y
4	STD06 500-656646/8	200.0	13.802054	50.0	492155.0	0.06901	Y
5	STD07 500-656646/9	500.0	35.093701	50.0	462536.0	0.070187	Y
6	STD08 500-656646/10	1000.0	65.300557	50.0	501985.0	0.065301	Y
7	STD09 500-656646/11	1500.0	87.714576	50.0	606080.0	0.058476	Y
8	STD010 500-656646/12	2000.0	117.568313	50.0	576723.0	0.058784	Y



Calibration

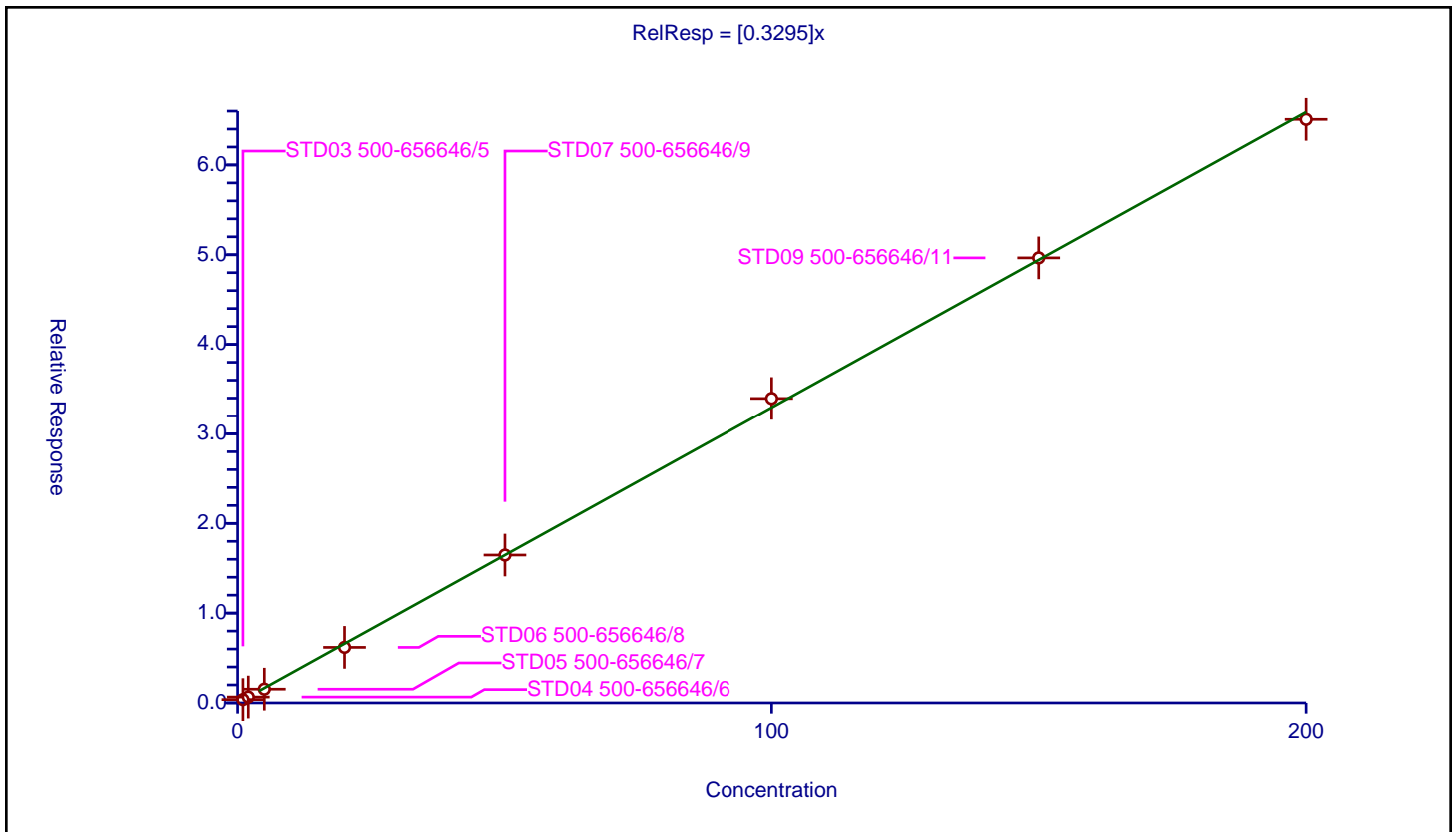
/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3295

Error Coefficients	
Standard Error:	391000
Relative Standard Error:	5.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.368419	50.0	505538.0	0.368419	Y
2	STD04 500-656646/6	2.0	0.653797	50.0	488072.0	0.326898	Y
3	STD05 500-656646/7	5.0	1.529707	50.0	492251.0	0.305941	Y
4	STD06 500-656646/8	20.0	6.183926	50.0	492155.0	0.309196	Y
5	STD07 500-656646/9	50.0	16.475582	50.0	462536.0	0.329512	Y
6	STD08 500-656646/10	100.0	33.962768	50.0	501985.0	0.339628	Y
7	STD09 500-656646/11	150.0	49.650624	50.0	606080.0	0.331004	Y
8	STD010 500-656646/12	200.0	65.082544	50.0	576723.0	0.325413	Y



Calibration

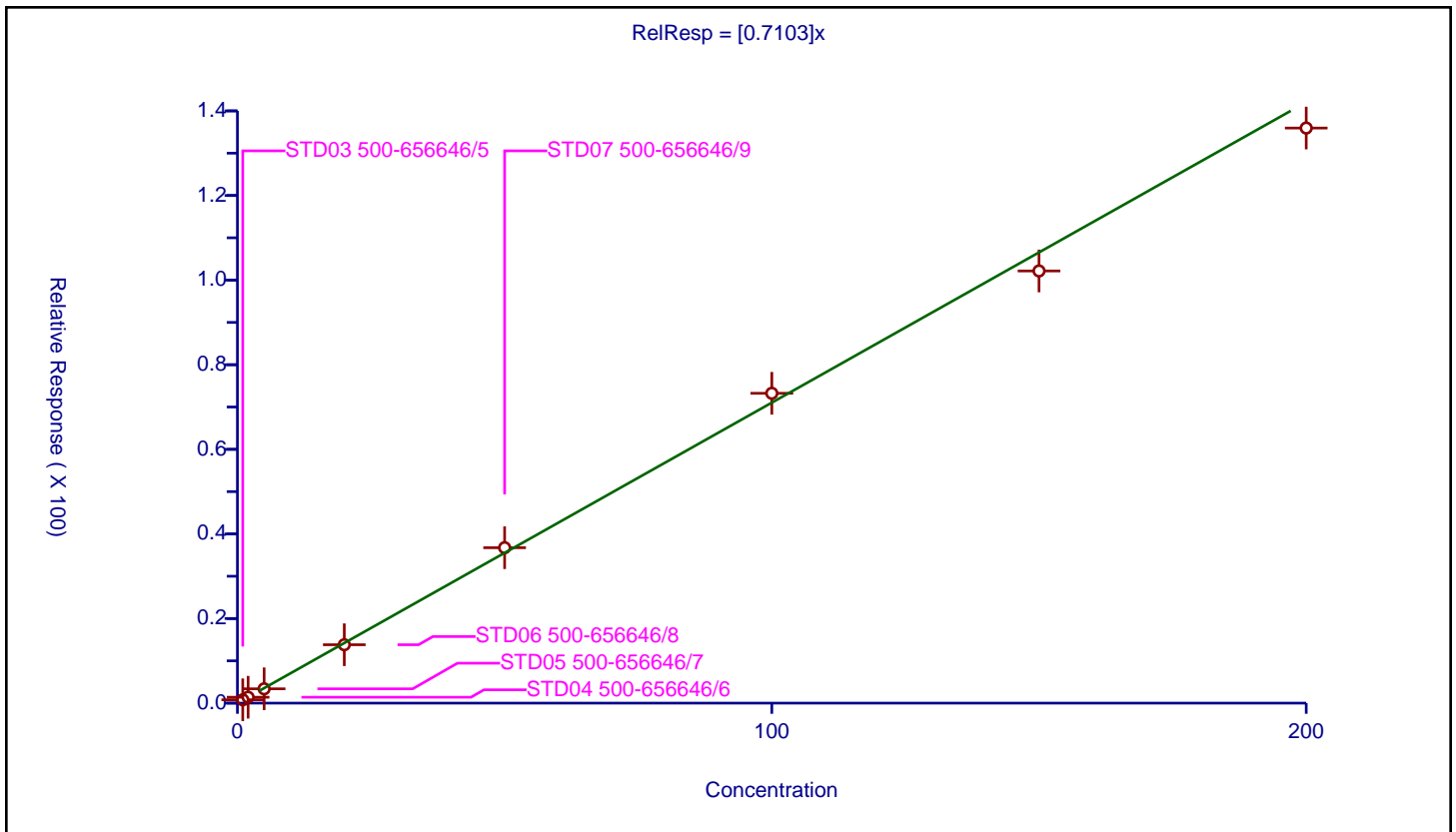
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7103

Error Coefficients	
Standard Error:	817000
Relative Standard Error:	5.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.789555	50.0	505538.0	0.789555	Y
2	STD04 500-656646/6	2.0	1.394979	50.0	488072.0	0.697489	Y
3	STD05 500-656646/7	5.0	3.385976	50.0	492251.0	0.677195	Y
4	STD06 500-656646/8	20.0	13.805305	50.0	492155.0	0.690265	Y
5	STD07 500-656646/9	50.0	36.737573	50.0	462536.0	0.734751	Y
6	STD08 500-656646/10	100.0	73.243424	50.0	501985.0	0.732434	Y
7	STD09 500-656646/11	150.0	102.162668	50.0	606080.0	0.681084	Y
8	STD010 500-656646/12	200.0	135.945419	50.0	576723.0	0.679727	Y



Calibration

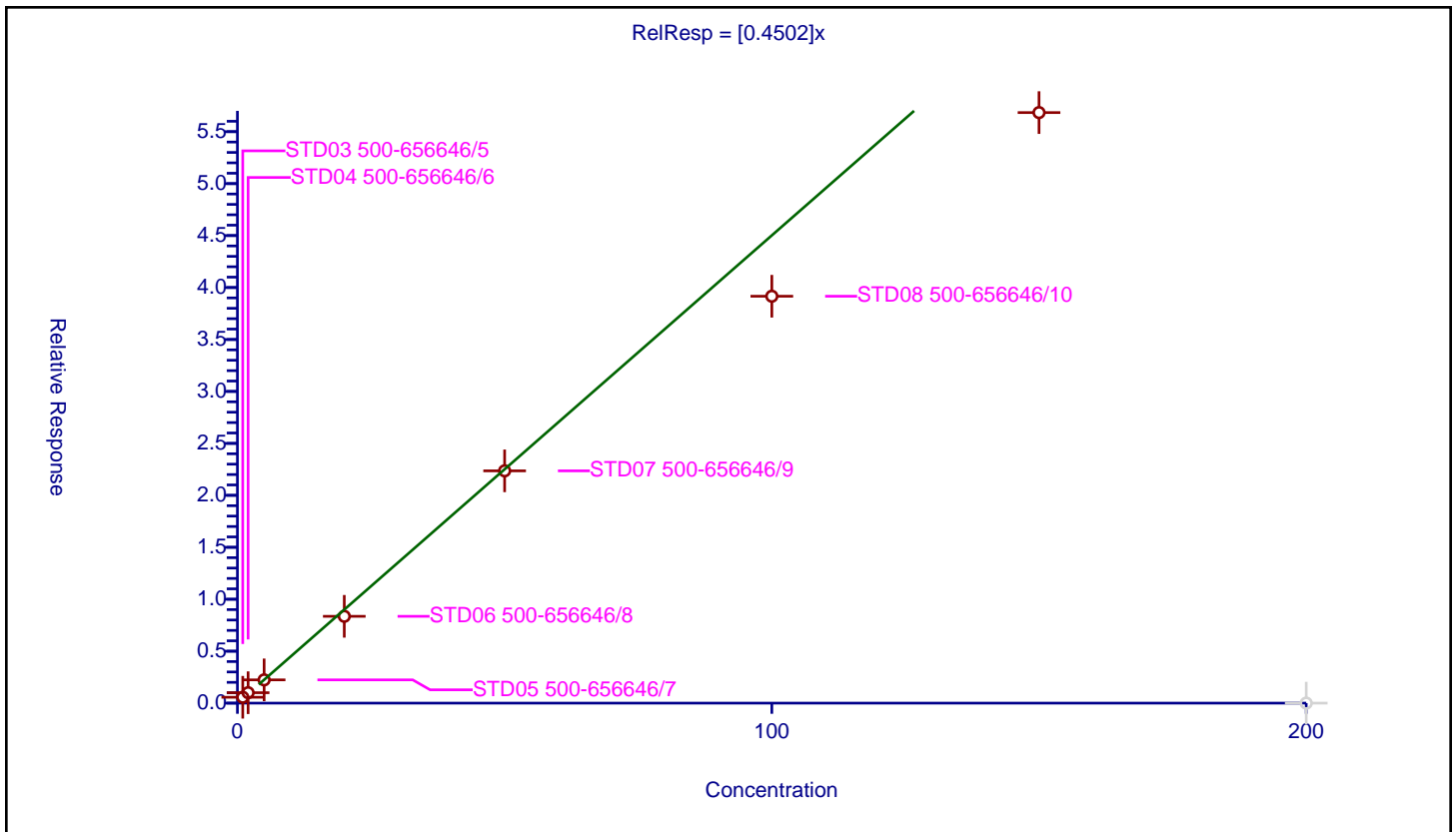
/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4502

Error Coefficients	
Standard Error:	336000
Relative Standard Error:	14.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.566031	50.0	505538.0	0.566031	Y
2	STD04 500-656646/6	2.0	1.003848	50.0	488072.0	0.501924	Y
3	STD05 500-656646/7	5.0	2.238492	50.0	492251.0	0.447698	Y
4	STD06 500-656646/8	20.0	8.355599	50.0	492155.0	0.41778	Y
5	STD07 500-656646/9	50.0	22.355233	50.0	462536.0	0.447105	Y
6	STD08 500-656646/10	100.0	39.16113	50.0	501985.0	0.391611	Y
7	STD09 500-656646/11	150.0	56.835979	50.0	606080.0	0.378907	Y
8	STD010 500-656646/12	200.0	0.0	50.0	576723.0	0.0	N



Calibration

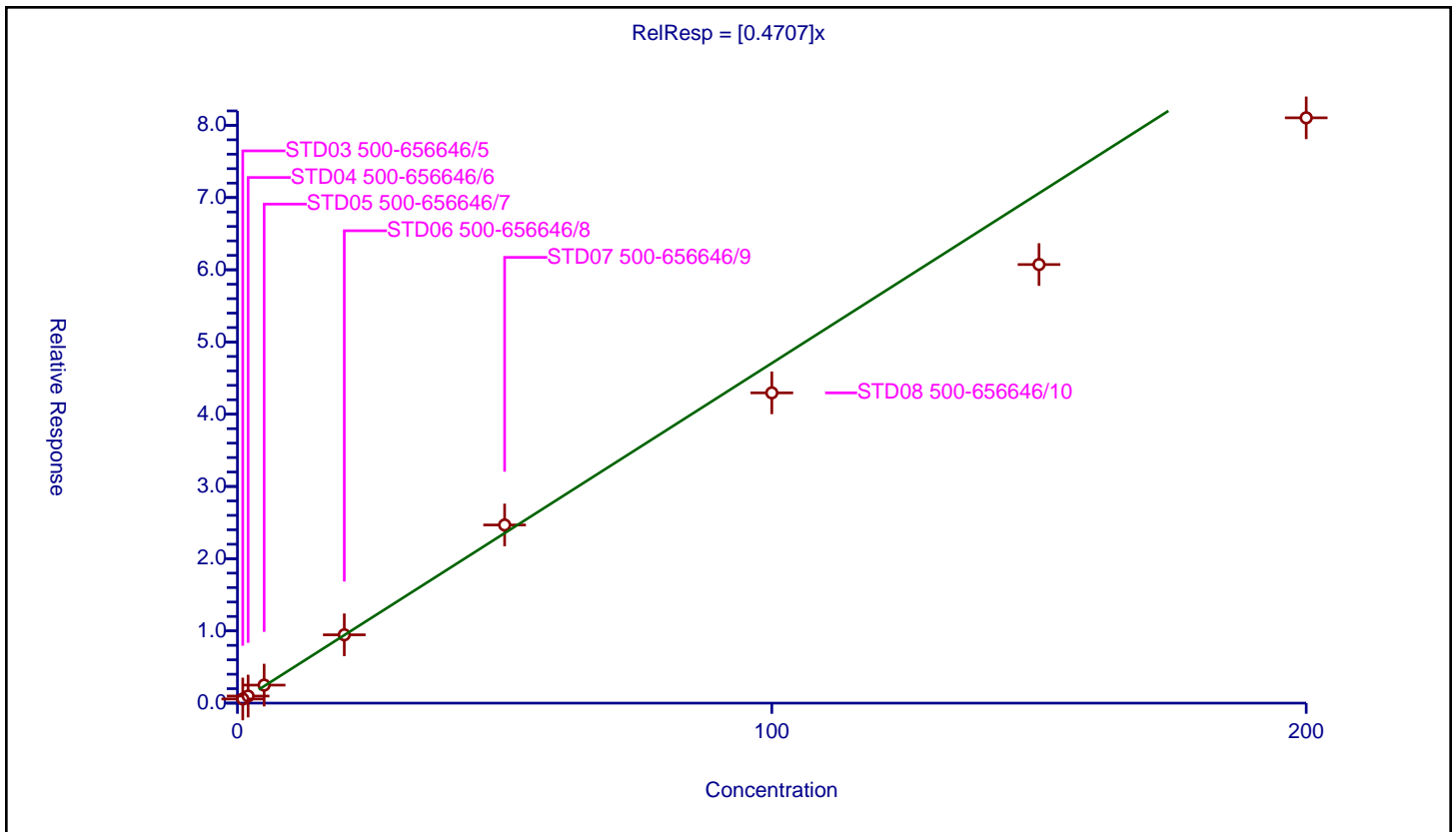
/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4707

Error Coefficients	
Standard Error:	487000
Relative Standard Error:	12.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.571668	50.0	505538.0	0.571668	Y
2	STD04 500-656646/6	2.0	0.977827	50.0	488072.0	0.488914	Y
3	STD05 500-656646/7	5.0	2.494154	50.0	492251.0	0.498831	Y
4	STD06 500-656646/8	20.0	9.459825	50.0	492155.0	0.472991	Y
5	STD07 500-656646/9	50.0	24.667053	50.0	462536.0	0.493341	Y
6	STD08 500-656646/10	100.0	42.95965	50.0	501985.0	0.429597	Y
7	STD09 500-656646/11	150.0	60.726884	50.0	606080.0	0.404846	Y
8	STD010 500-656646/12	200.0	81.040291	50.0	576723.0	0.405201	Y



Calibration

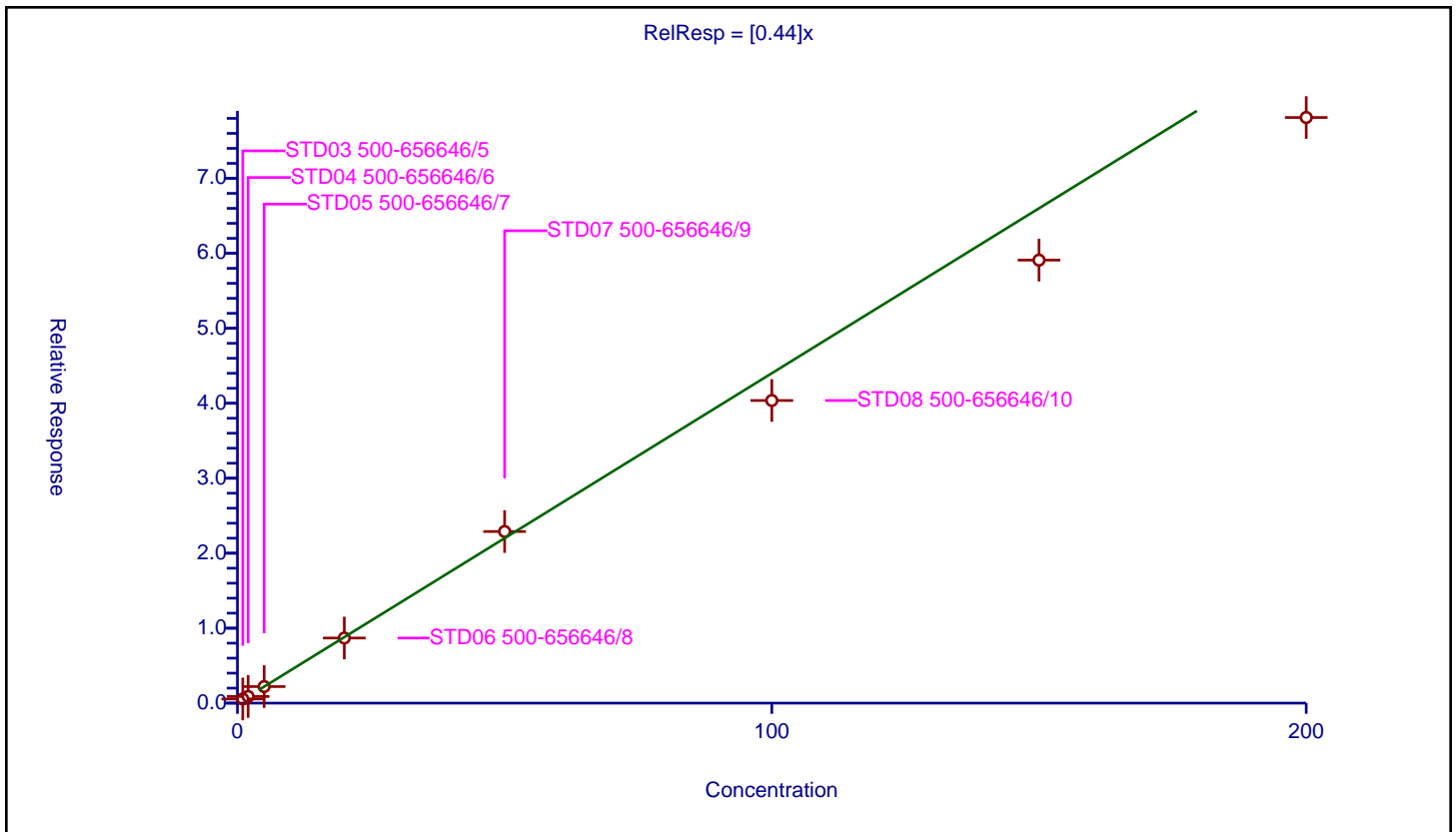
/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.44

Error Coefficients	
Standard Error:	469000
Relative Standard Error:	11.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.554162	50.0	505538.0	0.554162	Y
2	STD04 500-656646/6	2.0	0.887574	50.0	488072.0	0.443787	Y
3	STD05 500-656646/7	5.0	2.20934	50.0	492251.0	0.441868	Y
4	STD06 500-656646/8	20.0	8.685069	50.0	492155.0	0.434253	Y
5	STD07 500-656646/9	50.0	22.891624	50.0	462536.0	0.457832	Y
6	STD08 500-656646/10	100.0	40.368736	50.0	501985.0	0.403687	Y
7	STD09 500-656646/11	150.0	59.095251	50.0	606080.0	0.393968	Y
8	STD010 500-656646/12	200.0	78.120345	50.0	576723.0	0.390602	Y



Calibration

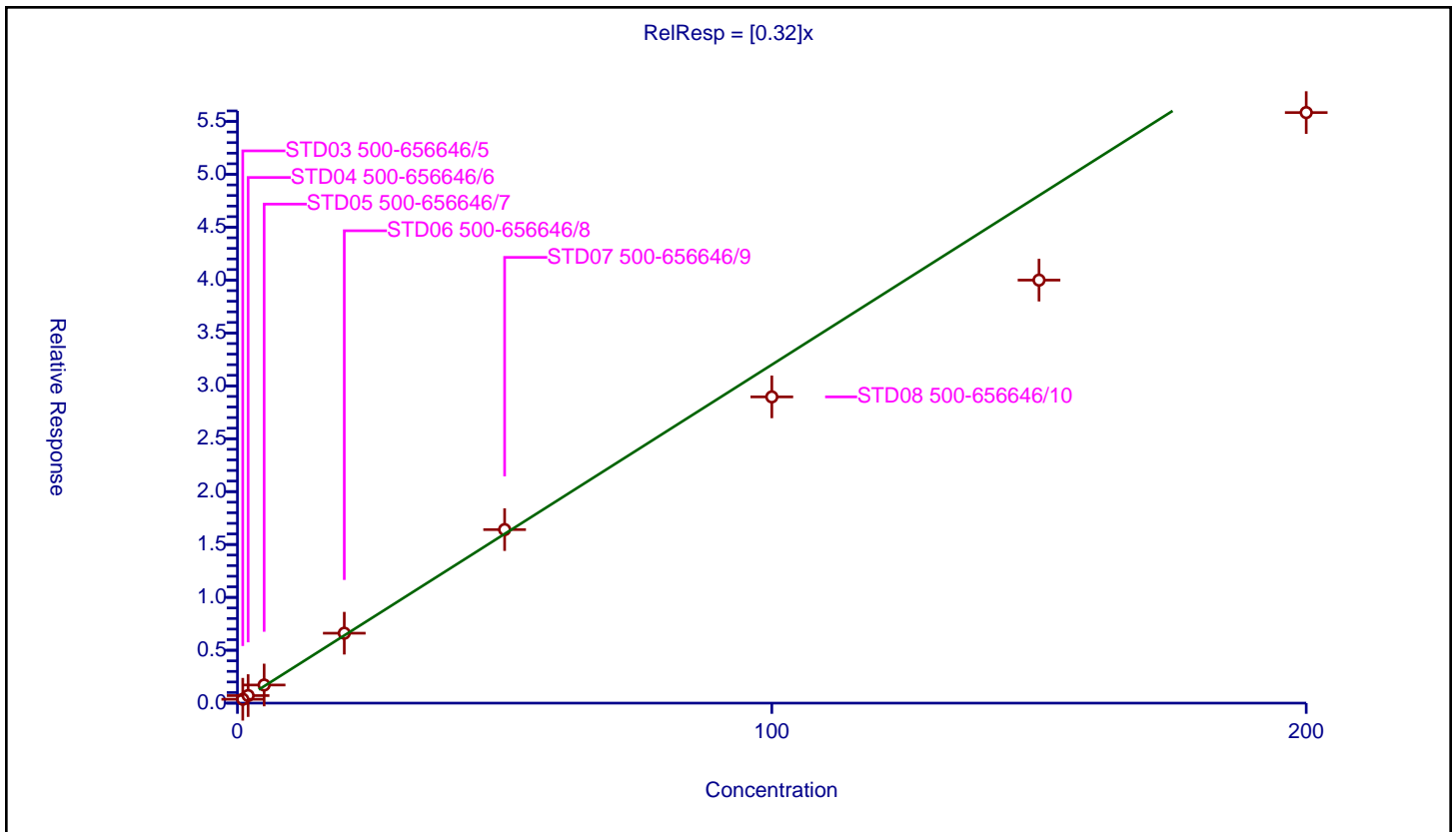
/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.32

Error Coefficients	
Standard Error:	330000
Relative Standard Error:	11.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.366837	50.0	505538.0	0.366837	Y
2	STD04 500-656646/6	2.0	0.712805	50.0	488072.0	0.356402	Y
3	STD05 500-656646/7	5.0	1.712643	50.0	492251.0	0.342529	Y
4	STD06 500-656646/8	20.0	6.612348	50.0	492155.0	0.330617	Y
5	STD07 500-656646/9	50.0	16.407912	50.0	462536.0	0.328158	Y
6	STD08 500-656646/10	100.0	28.957439	50.0	501985.0	0.289574	Y
7	STD09 500-656646/11	150.0	39.999093	50.0	606080.0	0.266661	Y
8	STD010 500-656646/12	200.0	55.841886	50.0	576723.0	0.279209	Y



Calibration

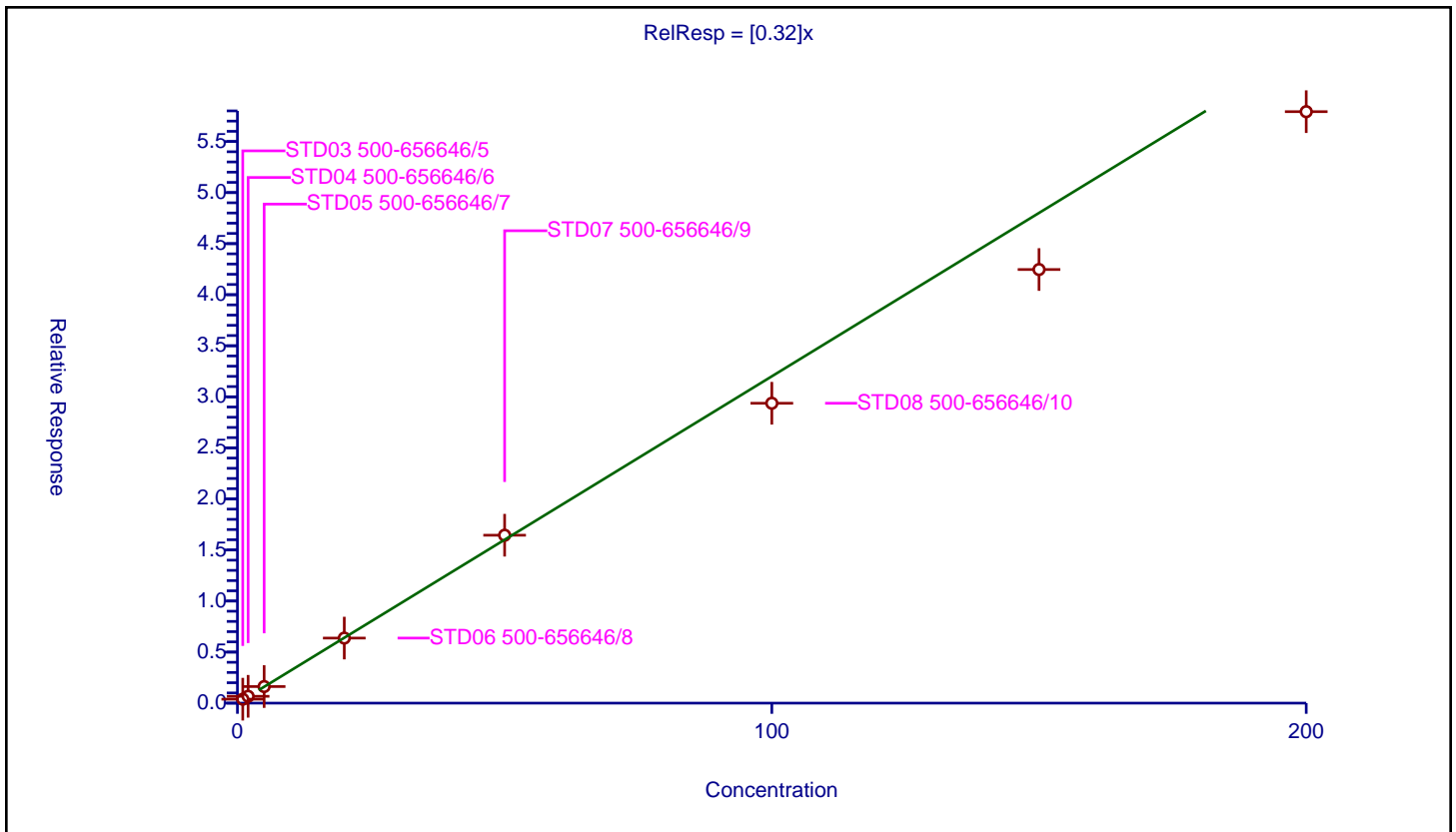
/ cis-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.32

Error Coefficients	
Standard Error:	343000
Relative Standard Error:	10.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.386915	50.0	505538.0	0.386915	Y
2	STD04 500-656646/6	2.0	0.669983	50.0	488072.0	0.334992	Y
3	STD05 500-656646/7	5.0	1.623562	50.0	492251.0	0.324712	Y
4	STD06 500-656646/8	20.0	6.369944	50.0	492155.0	0.318497	Y
5	STD07 500-656646/9	50.0	16.443585	50.0	462536.0	0.328872	Y
6	STD08 500-656646/10	100.0	29.368706	50.0	501985.0	0.293687	Y
7	STD09 500-656646/11	150.0	42.463949	50.0	606080.0	0.283093	Y
8	STD010 500-656646/12	200.0	57.923995	50.0	576723.0	0.28962	Y



Calibration

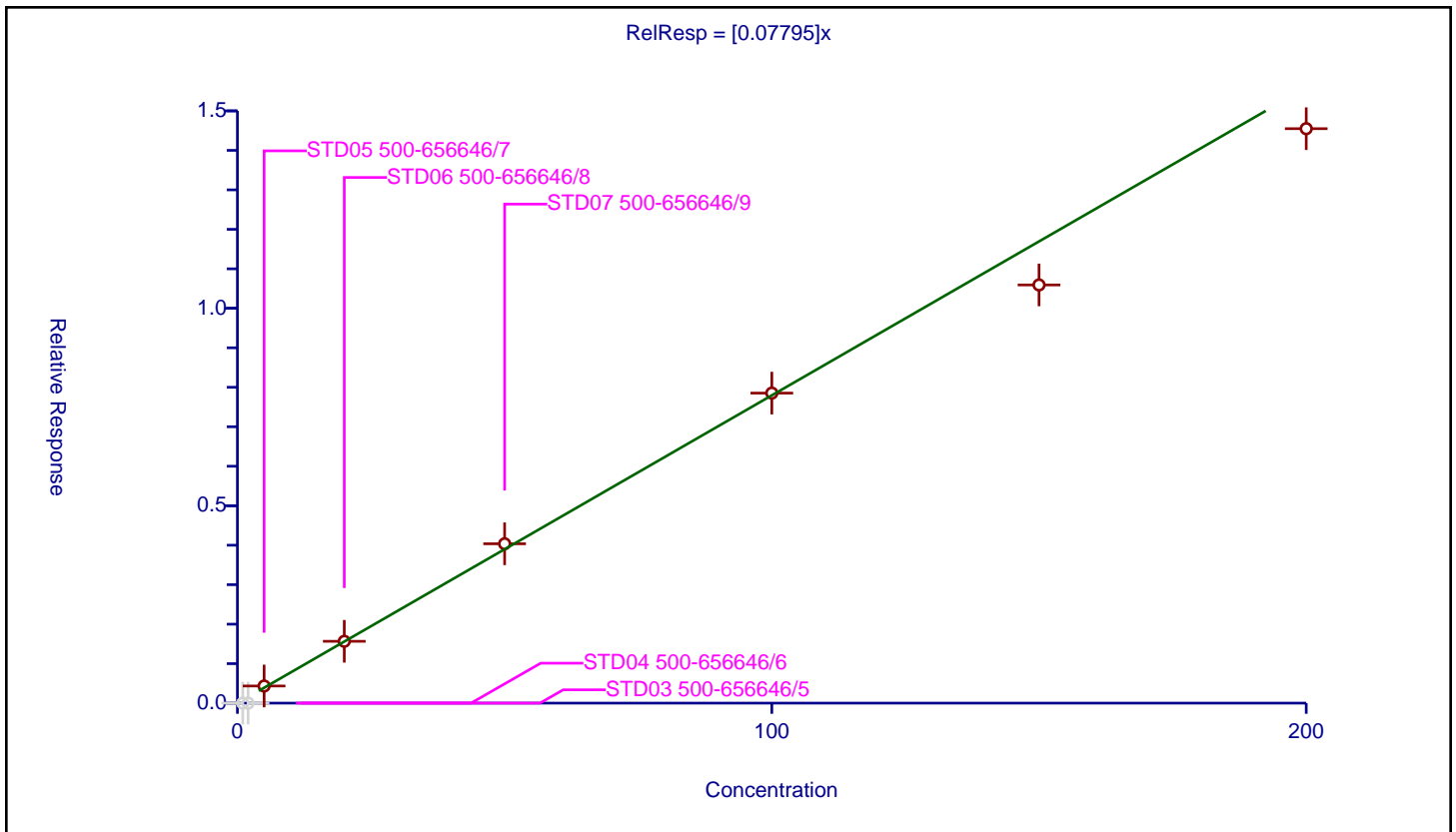
/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07795

Error Coefficients	
Standard Error:	102000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	505538.0	0.0	N
2	STD04 500-656646/6	2.0	0.0	50.0	488072.0	0.0	N
3	STD05 500-656646/7	5.0	0.434027	50.0	492251.0	0.086805	Y
4	STD06 500-656646/8	20.0	1.566275	50.0	492155.0	0.078314	Y
5	STD07 500-656646/9	50.0	4.036226	50.0	462536.0	0.080725	Y
6	STD08 500-656646/10	100.0	7.852127	50.0	501985.0	0.078521	Y
7	STD09 500-656646/11	150.0	10.592001	50.0	606080.0	0.070613	Y
8	STD10 500-656646/12	200.0	14.549706	50.0	576723.0	0.072749	Y



Calibration

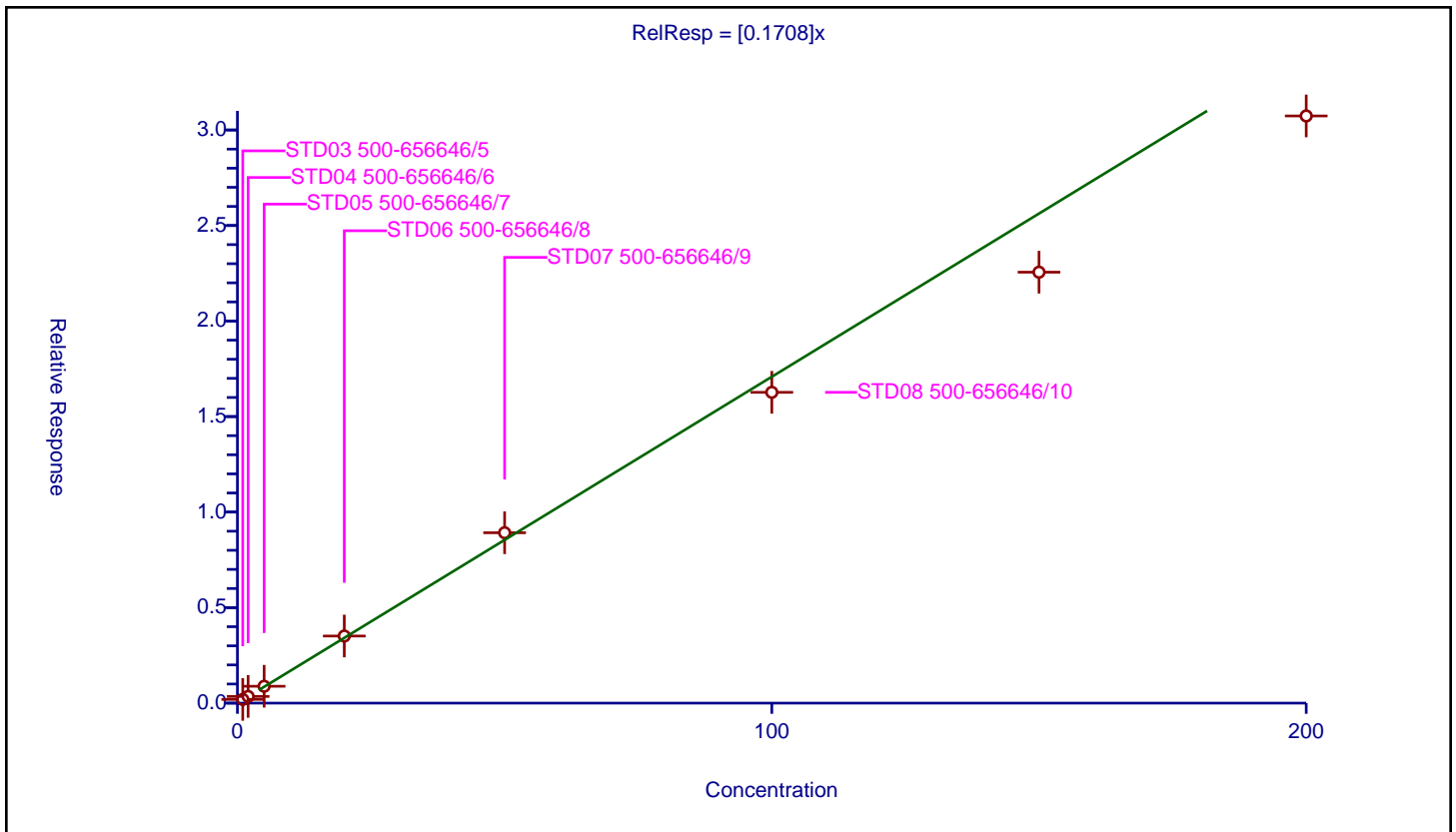
/ Chlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1708

Error Coefficients	
Standard Error:	183000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.194051	50.0	505538.0	0.194051	Y
2	STD04 500-656646/6	2.0	0.350358	50.0	488072.0	0.175179	Y
3	STD05 500-656646/7	5.0	0.883797	50.0	492251.0	0.176759	Y
4	STD06 500-656646/8	20.0	3.512207	50.0	492155.0	0.17561	Y
5	STD07 500-656646/9	50.0	8.91909	50.0	462536.0	0.178382	Y
6	STD08 500-656646/10	100.0	16.269012	50.0	501985.0	0.16269	Y
7	STD09 500-656646/11	150.0	22.557088	50.0	606080.0	0.150381	Y
8	STD10 500-656646/12	200.0	30.735466	50.0	576723.0	0.153677	Y



Calibration

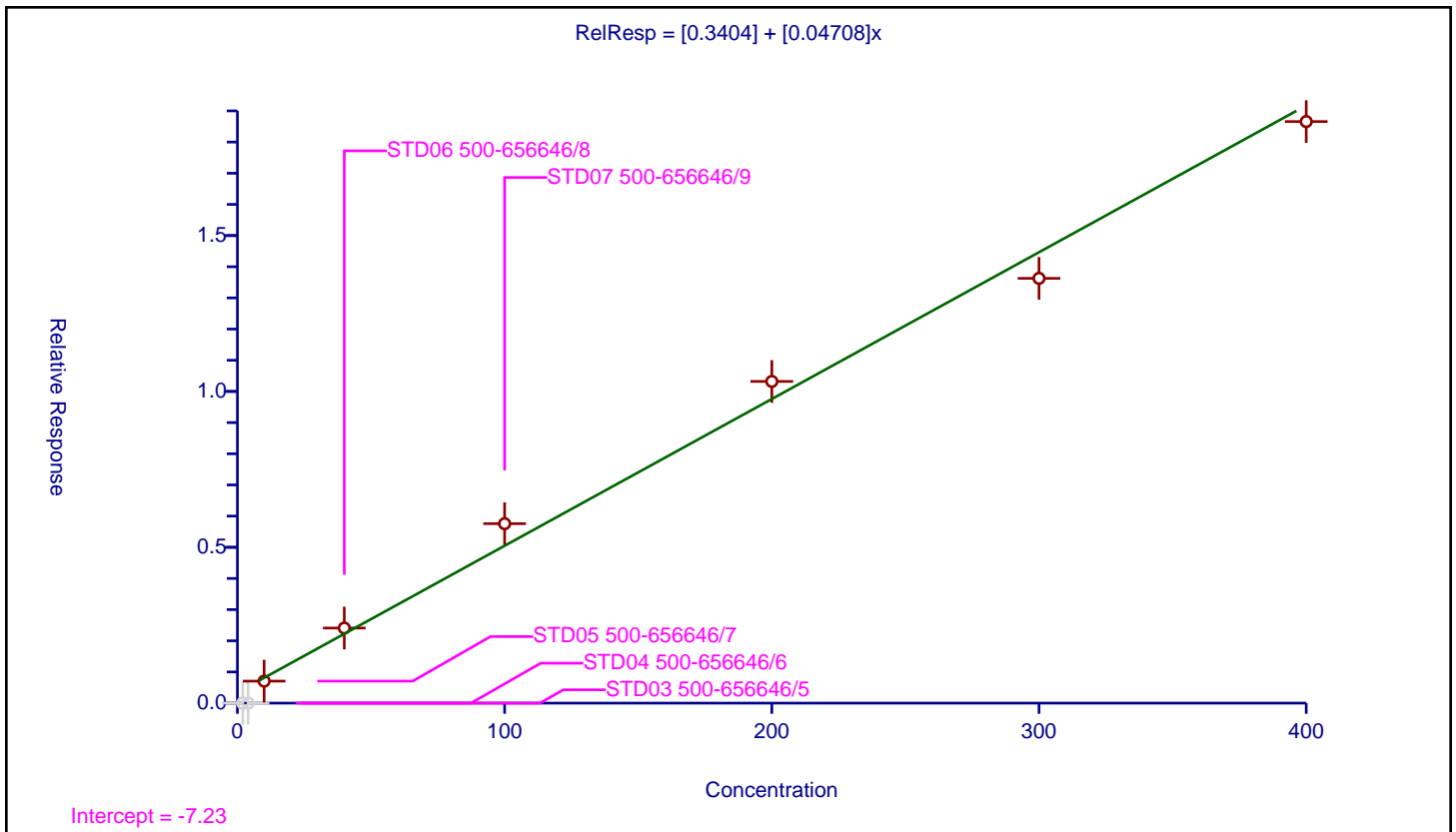
/ Tetrahydrofuran

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.3404
Slope:	0.04708

Error Coefficients	
Standard Error:	148000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	2.0	0.0	50.0	505538.0	0.0	N
2	STD04 500-656646/6	4.0	0.0	50.0	488072.0	0.0	N
3	STD05 500-656646/7	10.0	0.70655	50.0	492251.0	0.070655	Y
4	STD06 500-656646/8	40.0	2.409404	50.0	492155.0	0.060235	Y
5	STD07 500-656646/9	100.0	5.757282	50.0	462536.0	0.057573	Y
6	STD08 500-656646/10	200.0	10.320528	50.0	501985.0	0.051603	Y
7	STD09 500-656646/11	300.0	13.626996	50.0	606080.0	0.045423	Y
8	STD010 500-656646/12	400.0	18.657224	50.0	576723.0	0.046643	Y



Calibration

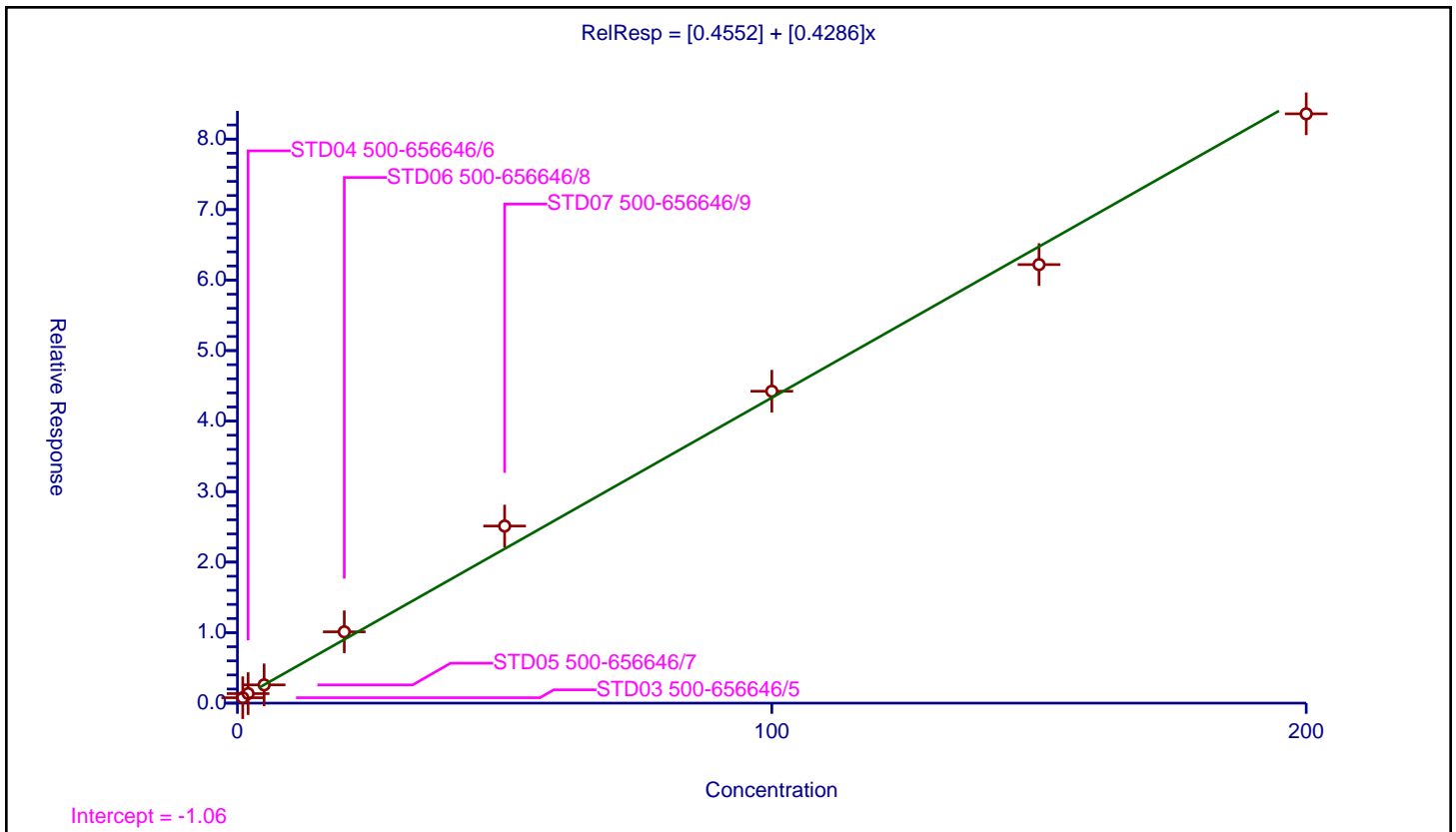
/ Chloroform

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.4552
Slope:	0.4286

Error Coefficients	
Standard Error:	542000
Relative Standard Error:	14.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.767796	50.0	505538.0	0.767796	Y
2	STD04 500-656646/6	2.0	1.351952	50.0	488072.0	0.675976	Y
3	STD05 500-656646/7	5.0	2.59004	50.0	492251.0	0.518008	Y
4	STD06 500-656646/8	20.0	10.112668	50.0	492155.0	0.505633	Y
5	STD07 500-656646/9	50.0	25.119558	50.0	462536.0	0.502391	Y
6	STD08 500-656646/10	100.0	44.238672	50.0	501985.0	0.442387	Y
7	STD09 500-656646/11	150.0	62.19905	50.0	606080.0	0.41466	Y
8	STD010 500-656646/12	200.0	83.583887	50.0	576723.0	0.417919	Y



Calibration

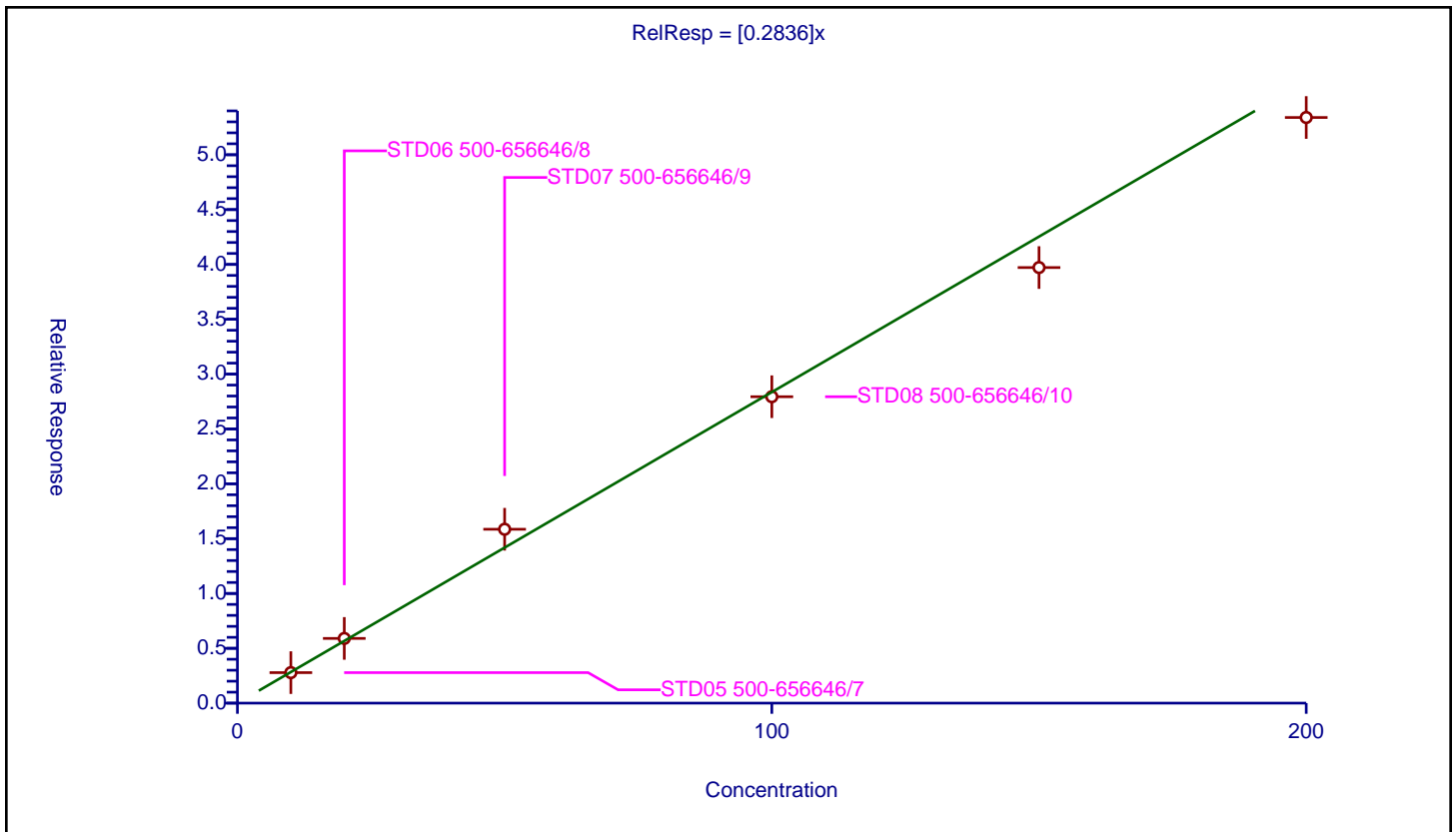
/ Dibromofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2836

Error Coefficients	
Standard Error:	378000
Relative Standard Error:	6.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 500-656646/7	10.0	2.782727	50.0	492251.0	0.278273	Y
2	STD06 500-656646/8	20.0	5.899666	50.0	492155.0	0.294983	Y
3	STD07 500-656646/9	50.0	15.855198	50.0	462536.0	0.317104	Y
4	STD08 500-656646/10	100.0	27.937488	50.0	501985.0	0.279375	Y
5	STD09 500-656646/11	150.0	39.715797	50.0	606080.0	0.264772	Y
6	STD010 500-656646/12	200.0	53.397732	50.0	576723.0	0.266989	Y



Calibration

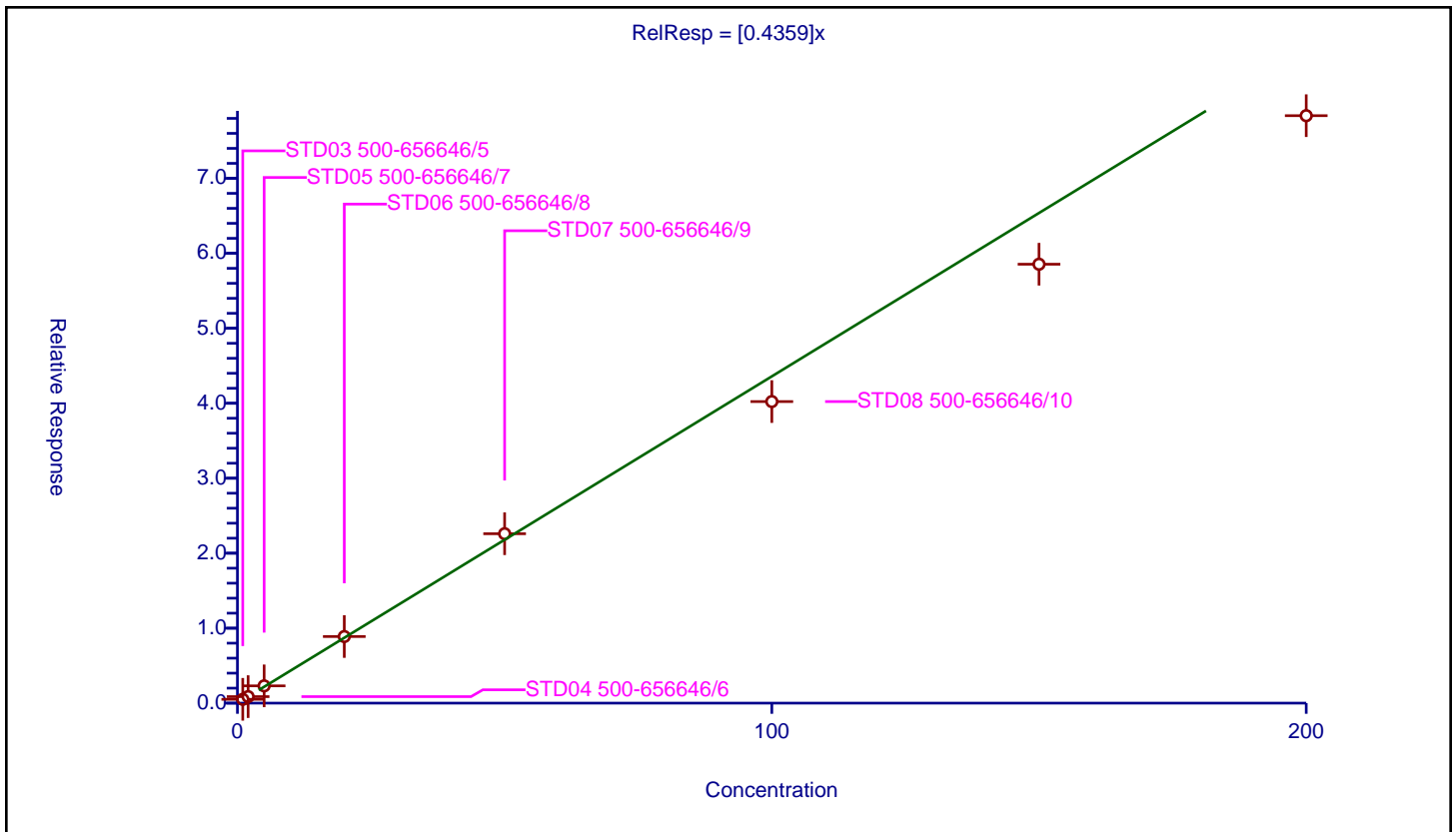
/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4359

Error Coefficients	
Standard Error:	468000
Relative Standard Error:	9.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.510545	50.0	505538.0	0.510545	Y
2	STD04 500-656646/6	2.0	0.870261	50.0	488072.0	0.43513	Y
3	STD05 500-656646/7	5.0	2.304109	50.0	492251.0	0.460822	Y
4	STD06 500-656646/8	20.0	8.882161	50.0	492155.0	0.444108	Y
5	STD07 500-656646/9	50.0	22.597917	50.0	462536.0	0.451958	Y
6	STD08 500-656646/10	100.0	40.225306	50.0	501985.0	0.402253	Y
7	STD09 500-656646/11	150.0	58.546562	50.0	606080.0	0.39031	Y
8	STD010 500-656646/12	200.0	78.360582	50.0	576723.0	0.391803	Y



Calibration

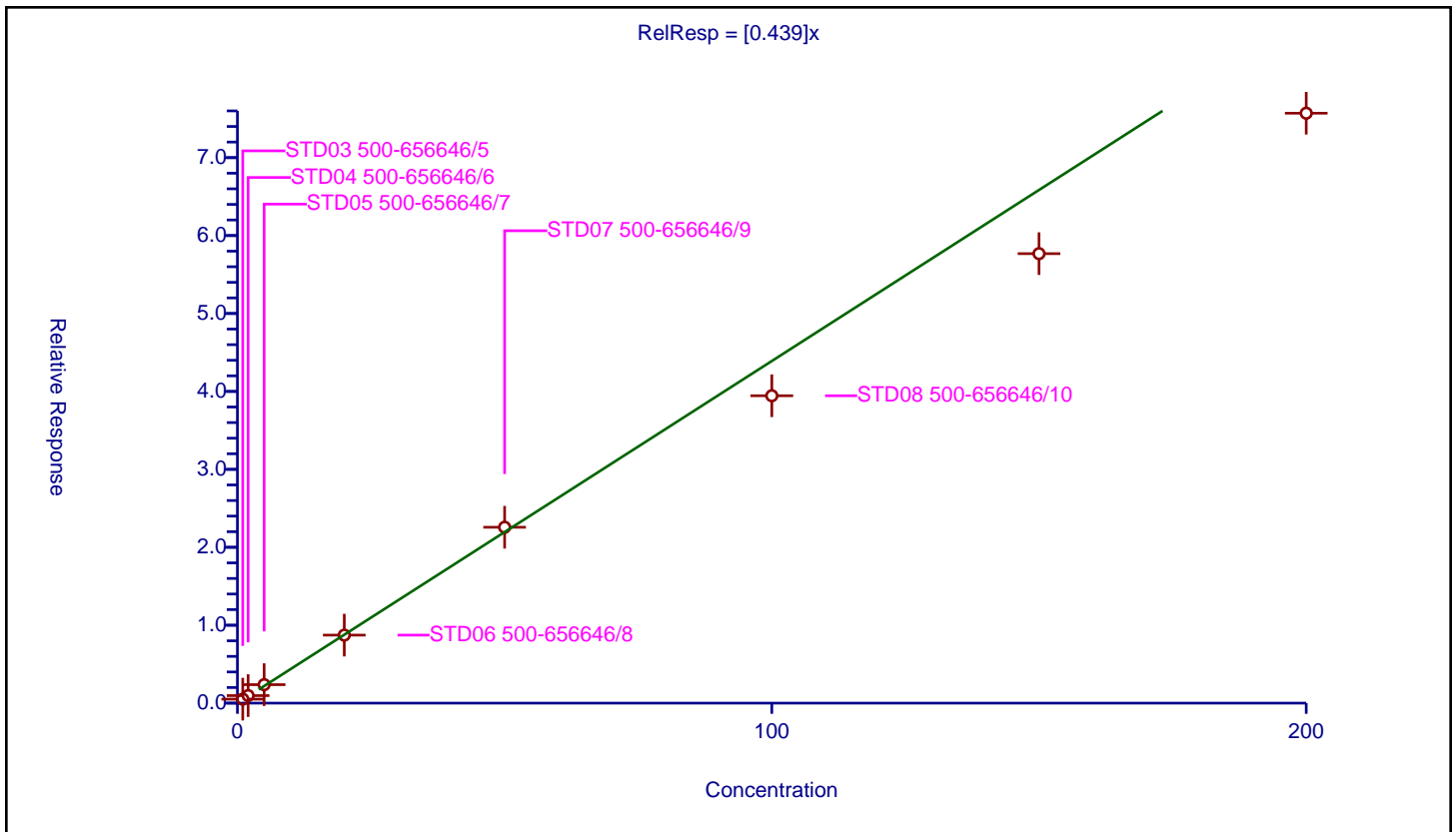
/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.439

Error Coefficients	
Standard Error:	457000
Relative Standard Error:	11.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.509457	50.0	505538.0	0.509457	Y
2	STD04 500-656646/6	2.0	0.966661	50.0	488072.0	0.48333	Y
3	STD05 500-656646/7	5.0	2.369624	50.0	492251.0	0.473925	Y
4	STD06 500-656646/8	20.0	8.728246	50.0	492155.0	0.436412	Y
5	STD07 500-656646/9	50.0	22.570027	50.0	462536.0	0.451401	Y
6	STD08 500-656646/10	100.0	39.445003	50.0	501985.0	0.39445	Y
7	STD09 500-656646/11	150.0	57.681907	50.0	606080.0	0.384546	Y
8	STD010 500-656646/12	200.0	75.704194	50.0	576723.0	0.378521	Y



Calibration

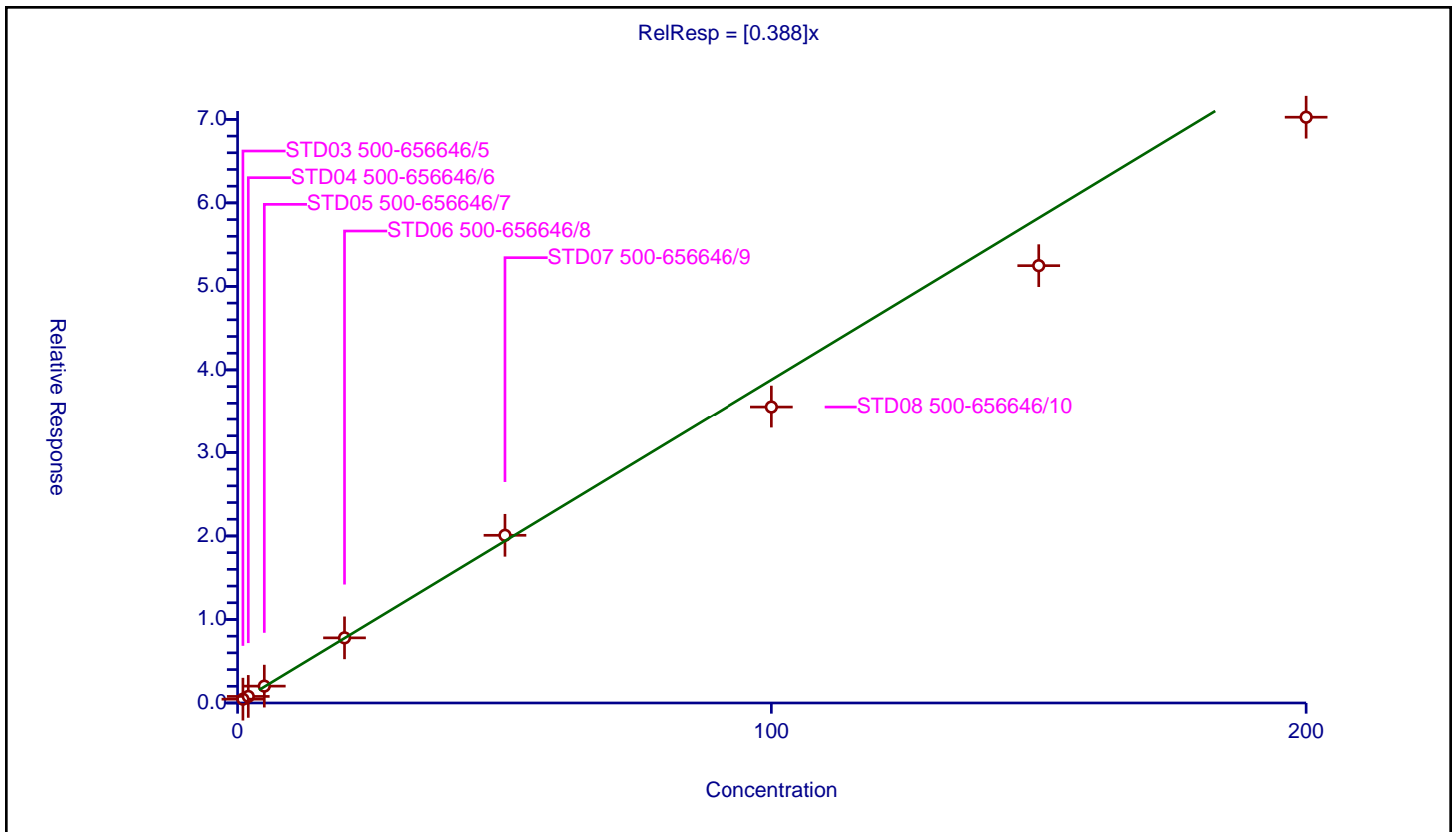
/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.388

Error Coefficients	
Standard Error:	419000
Relative Standard Error:	9.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.458225	50.0	505538.0	0.458225	Y
2	STD04 500-656646/6	2.0	0.786359	50.0	488072.0	0.39318	Y
3	STD05 500-656646/7	5.0	2.020412	50.0	492251.0	0.404082	Y
4	STD06 500-656646/8	20.0	7.799271	50.0	492155.0	0.389964	Y
5	STD07 500-656646/9	50.0	20.07768	50.0	462536.0	0.401554	Y
6	STD08 500-656646/10	100.0	35.550963	50.0	501985.0	0.35551	Y
7	STD09 500-656646/11	150.0	52.485233	50.0	606080.0	0.349902	Y
8	STD010 500-656646/12	200.0	70.26068	50.0	576723.0	0.351303	Y



Calibration

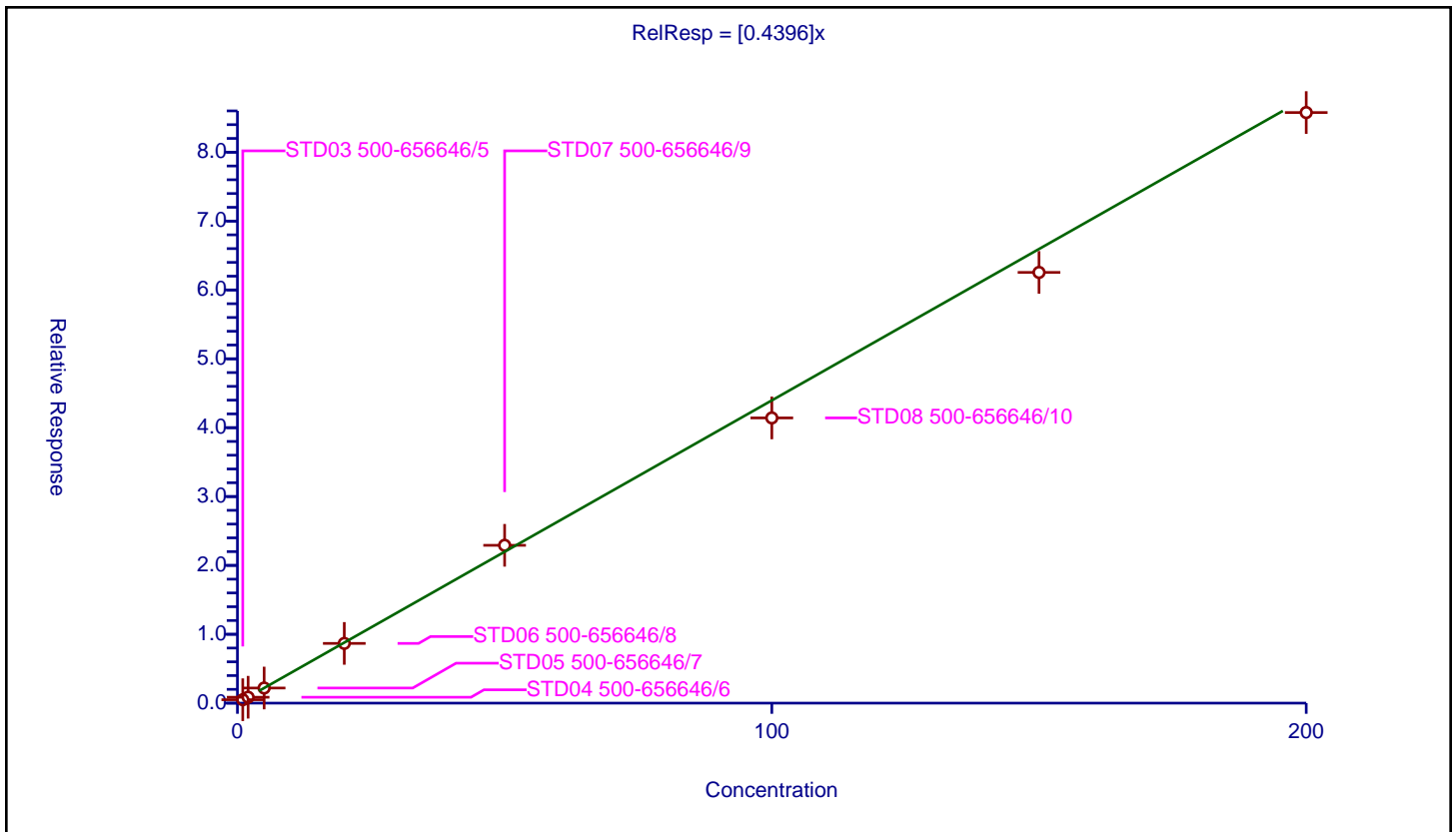
/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4396

Error Coefficients	
Standard Error:	504000
Relative Standard Error:	6.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.497193	50.0	505538.0	0.497193	Y
2	STD04 500-656646/6	2.0	0.857353	50.0	488072.0	0.428677	Y
3	STD05 500-656646/7	5.0	2.195222	50.0	492251.0	0.439044	Y
4	STD06 500-656646/8	20.0	8.673792	50.0	492155.0	0.43369	Y
5	STD07 500-656646/9	50.0	22.916595	50.0	462536.0	0.458332	Y
6	STD08 500-656646/10	100.0	41.414983	50.0	501985.0	0.41415	Y
7	STD09 500-656646/11	150.0	62.542156	50.0	606080.0	0.416948	Y
8	STD010 500-656646/12	200.0	85.758674	50.0	576723.0	0.428793	Y



Calibration

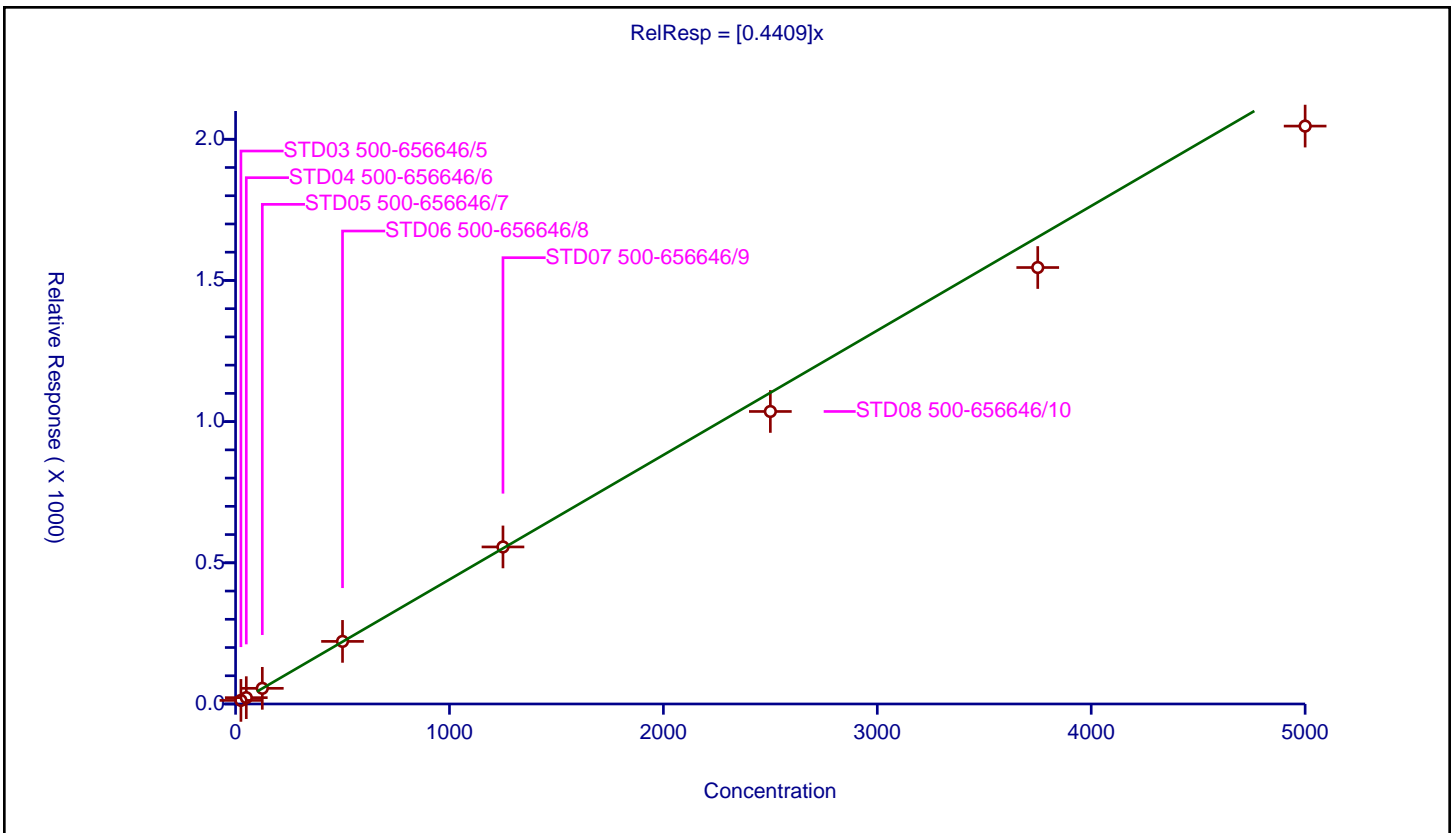
/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4409

Error Coefficients	
Standard Error:	251000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	25.0	12.736089	1000.0	216550.0	0.509444	Y
2	STD04 500-656646/6	50.0	22.472682	1000.0	203892.0	0.449454	Y
3	STD05 500-656646/7	125.0	55.525275	1000.0	216496.0	0.444202	Y
4	STD06 500-656646/8	500.0	221.732944	1000.0	222777.0	0.443466	Y
5	STD07 500-656646/9	1250.0	556.188857	1000.0	203519.0	0.444951	Y
6	STD08 500-656646/10	2500.0	1035.990987	1000.0	212581.0	0.414396	Y
7	STD09 500-656646/11	3750.0	1545.688069	1000.0	245644.0	0.412183	Y
8	STD010 500-656646/12	5000.0	2046.663075	1000.0	237554.0	0.409333	Y



Calibration

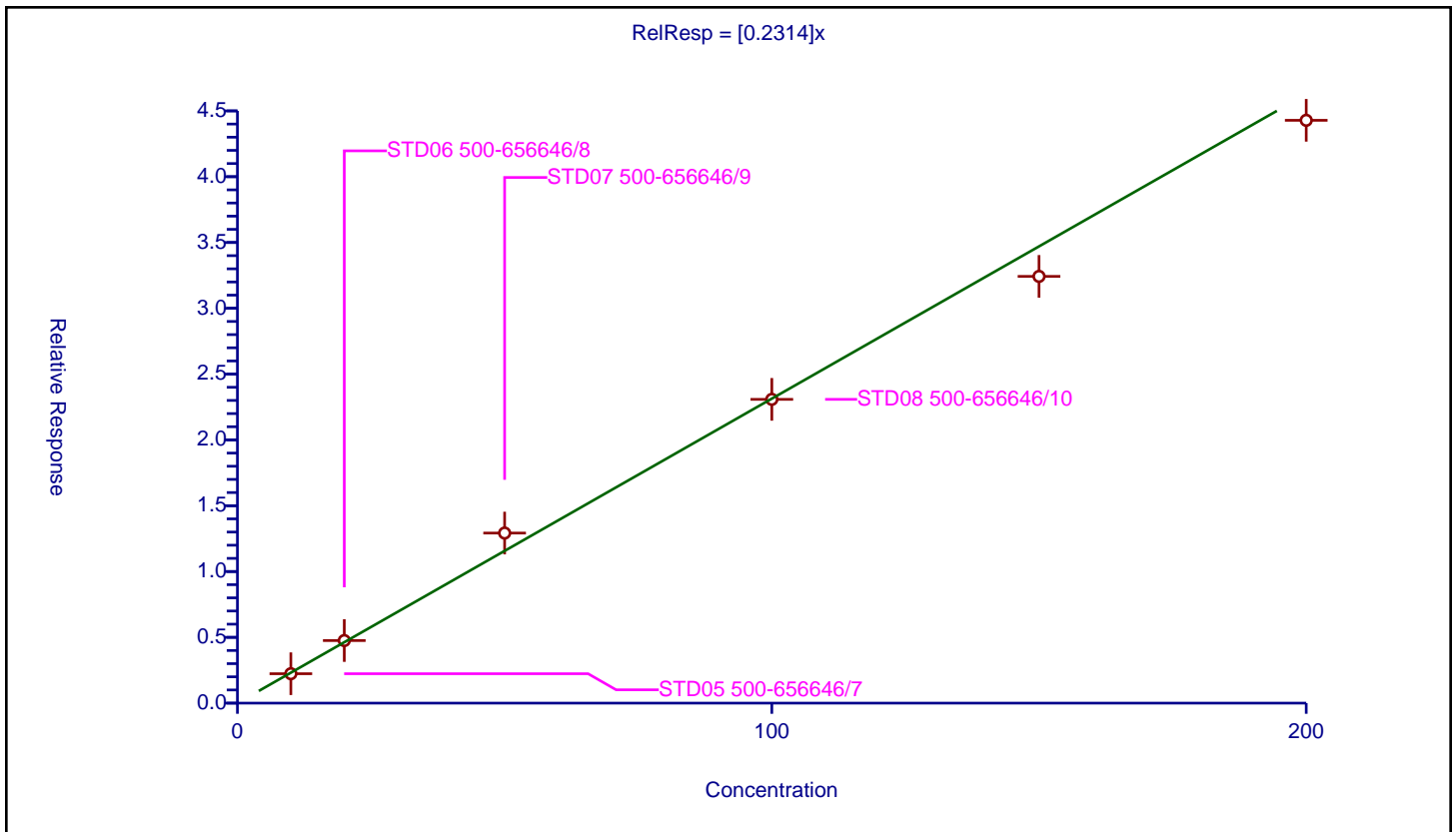
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2314

Error Coefficients	
Standard Error:	312000
Relative Standard Error:	6.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 500-656646/7	10.0	2.235242	50.0	492251.0	0.223524	Y
2	STD06 500-656646/8	20.0	4.755209	50.0	492155.0	0.23776	Y
3	STD07 500-656646/9	50.0	12.922778	50.0	462536.0	0.258456	Y
4	STD08 500-656646/10	100.0	23.082263	50.0	501985.0	0.230823	Y
5	STD09 500-656646/11	150.0	32.424185	50.0	606080.0	0.216161	Y
6	STD010 500-656646/12	200.0	44.283131	50.0	576723.0	0.221416	Y



Calibration

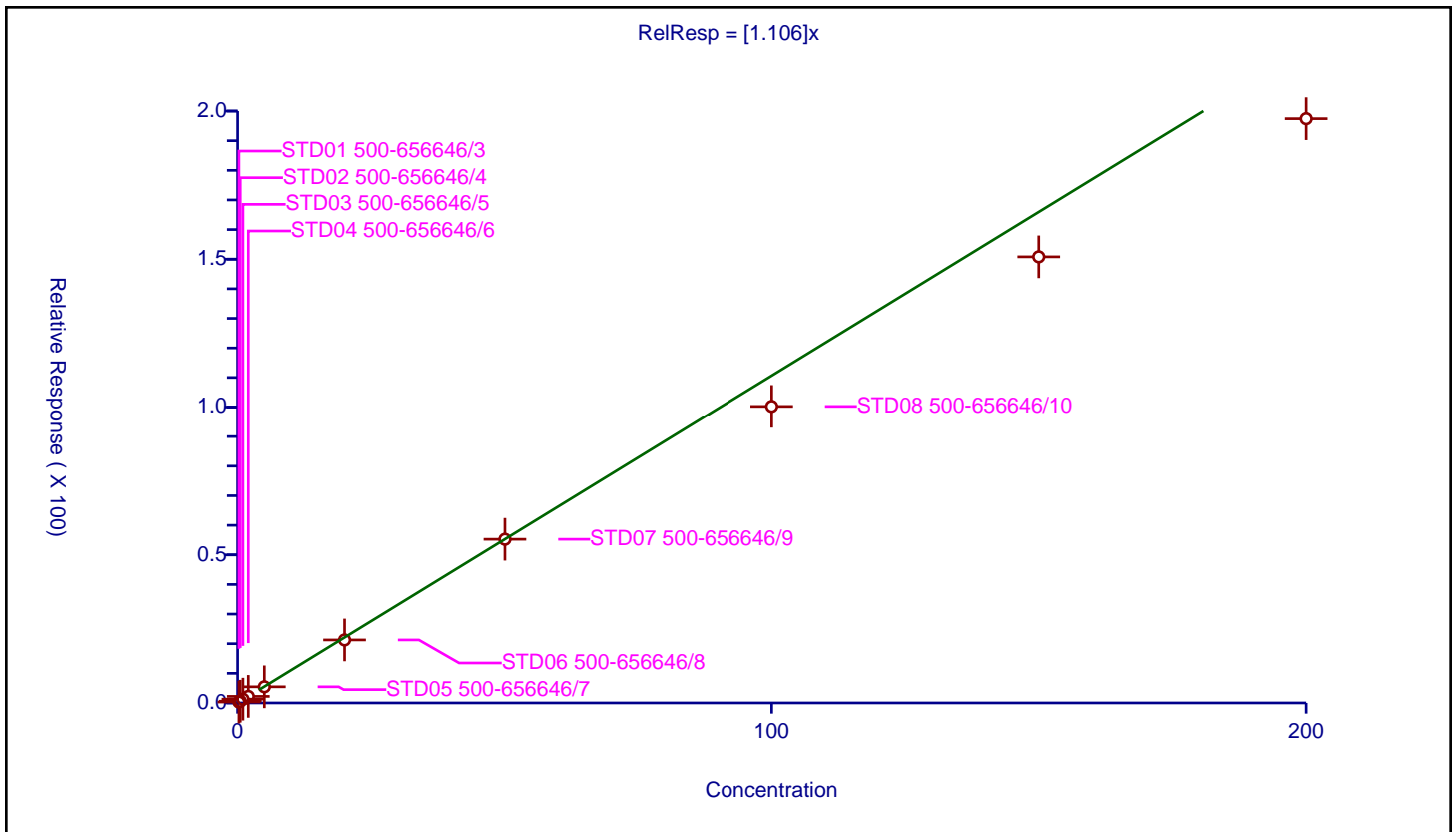
/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.106

Error Coefficients	
Standard Error:	1050000
Relative Standard Error:	9.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.310974	50.0	490394.0	1.243898	Y
2	STD02 500-656646/4	0.5	0.586393	50.0	479201.0	1.172786	Y
3	STD03 500-656646/5	1.0	1.285264	50.0	505538.0	1.285264	Y
4	STD04 500-656646/6	2.0	2.215452	50.0	488072.0	1.107726	Y
5	STD05 500-656646/7	5.0	5.447424	50.0	492251.0	1.089485	Y
6	STD06 500-656646/8	20.0	21.26322	50.0	492155.0	1.063161	Y
7	STD07 500-656646/9	50.0	55.272671	50.0	462536.0	1.105453	Y
8	STD08 500-656646/10	100.0	100.218034	50.0	501985.0	1.00218	Y
9	STD09 500-656646/11	150.0	150.795522	50.0	606080.0	1.005303	Y
10	STD010 500-656646/12	200.0	197.434557	50.0	576723.0	0.987173	Y



Calibration

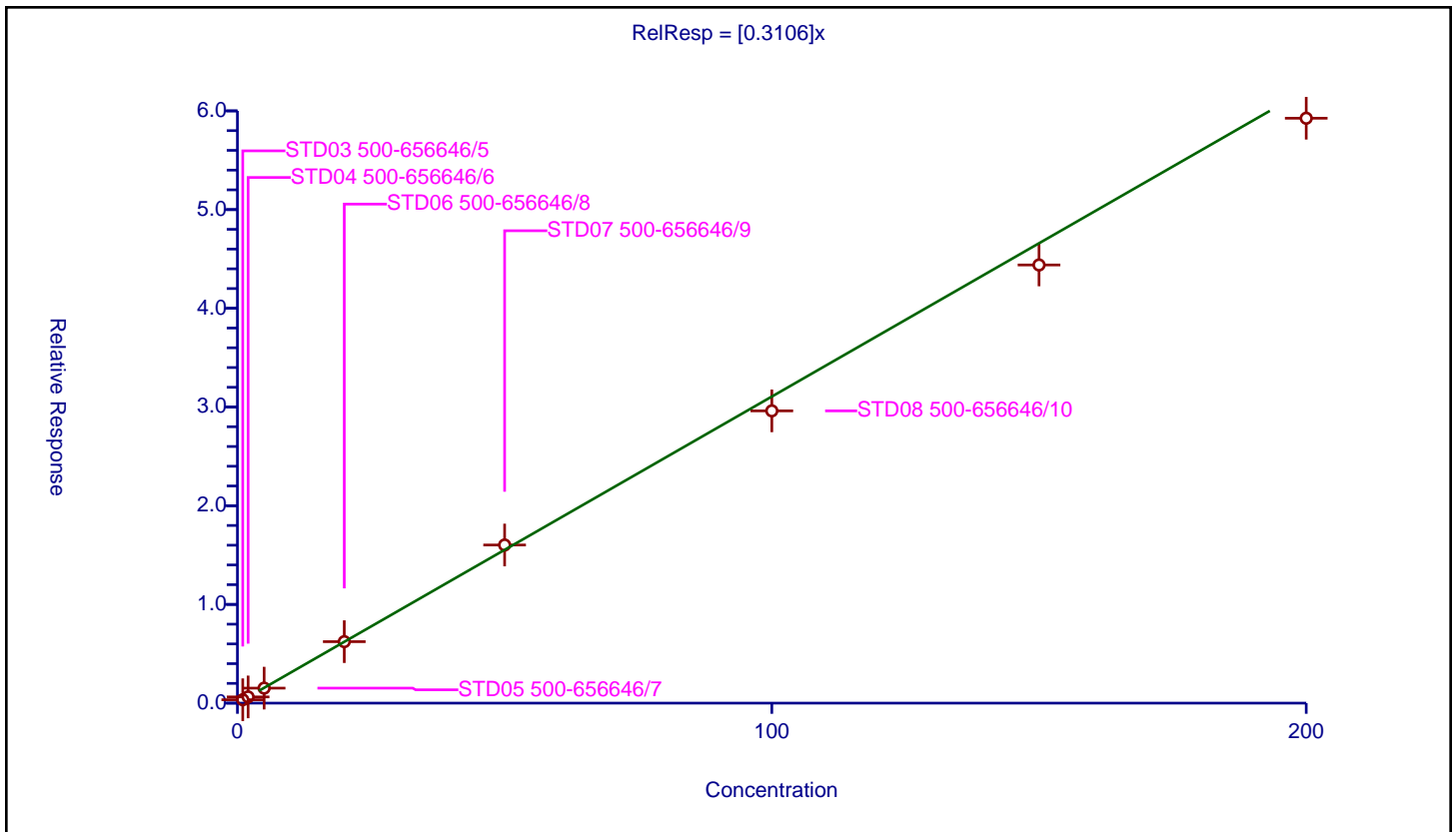
/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3106

Error Coefficients	
Standard Error:	353000
Relative Standard Error:	5.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.345276	50.0	505538.0	0.345276	Y
2	STD04 500-656646/6	2.0	0.63044	50.0	488072.0	0.31522	Y
3	STD05 500-656646/7	5.0	1.519753	50.0	492251.0	0.303951	Y
4	STD06 500-656646/8	20.0	6.228221	50.0	492155.0	0.311411	Y
5	STD07 500-656646/9	50.0	16.021996	50.0	462536.0	0.32044	Y
6	STD08 500-656646/10	100.0	29.610546	50.0	501985.0	0.296105	Y
7	STD09 500-656646/11	150.0	44.390427	50.0	606080.0	0.295936	Y
8	STD010 500-656646/12	200.0	59.254963	50.0	576723.0	0.296275	Y



Calibration

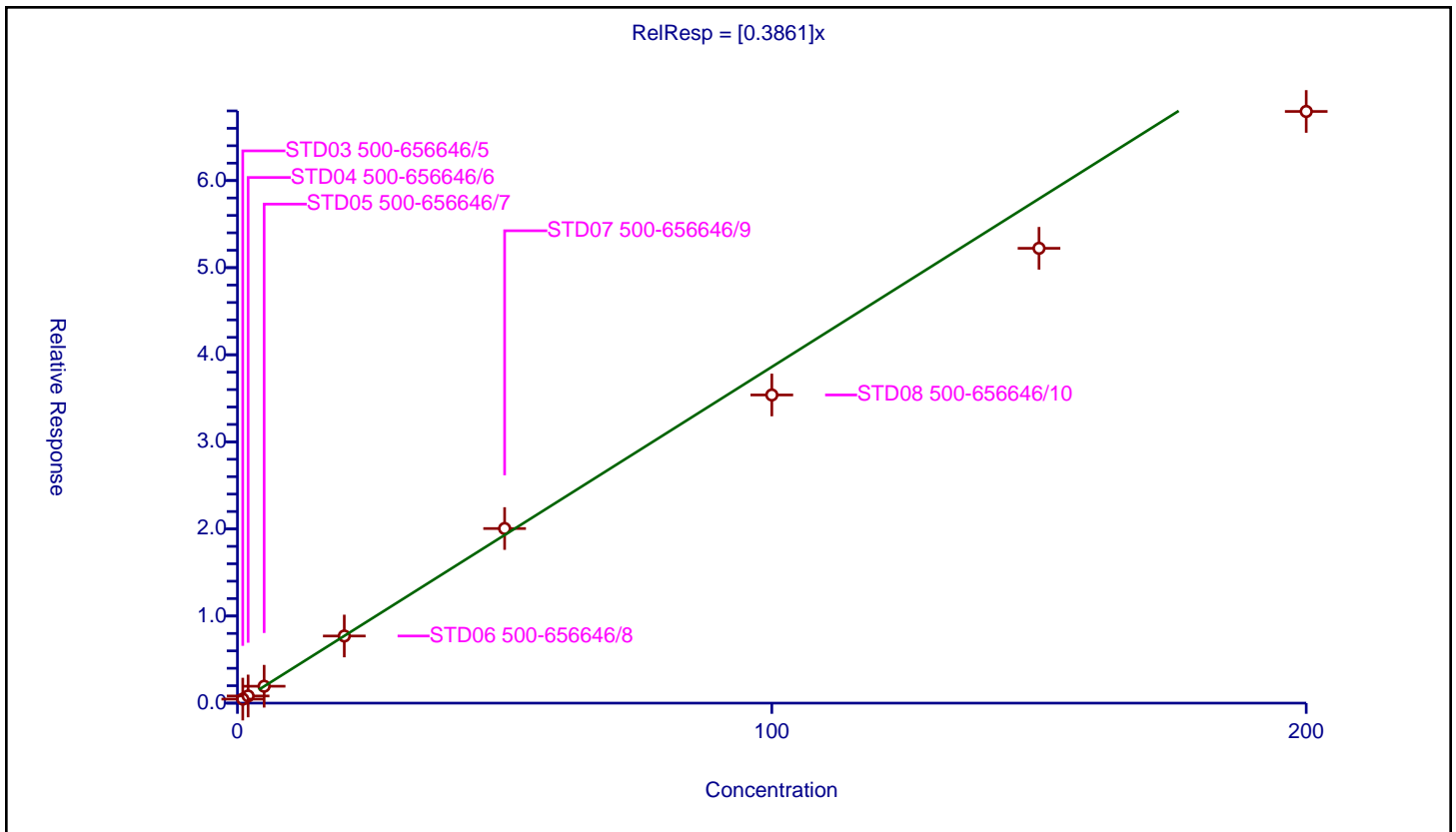
/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3861

Error Coefficients	
Standard Error:	411000
Relative Standard Error:	10.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.462082	50.0	505538.0	0.462082	Y
2	STD04 500-656646/6	2.0	0.820268	50.0	488072.0	0.410134	Y
3	STD05 500-656646/7	5.0	1.941286	50.0	492251.0	0.388257	Y
4	STD06 500-656646/8	20.0	7.707226	50.0	492155.0	0.385361	Y
5	STD07 500-656646/9	50.0	20.047737	50.0	462536.0	0.400955	Y
6	STD08 500-656646/10	100.0	35.383727	50.0	501985.0	0.353837	Y
7	STD09 500-656646/11	150.0	52.223304	50.0	606080.0	0.348155	Y
8	STD010 500-656646/12	200.0	67.934433	50.0	576723.0	0.339672	Y



Calibration

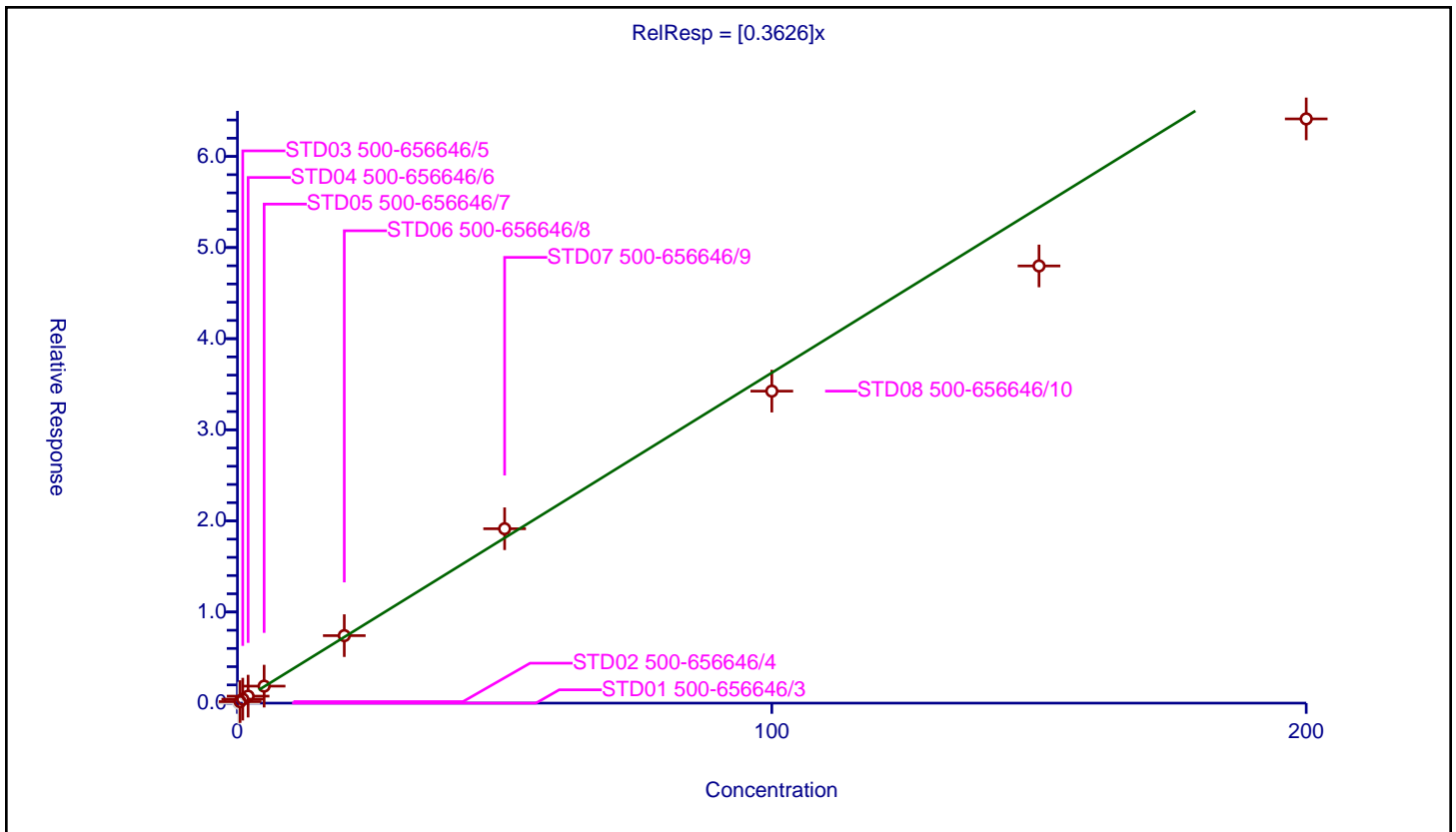
/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3626

Error Coefficients	
Standard Error:	361000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.0	50.0	490394.0	0.0	N
2	STD02 500-656646/4	0.5	0.166736	50.0	479201.0	0.333472	Y
3	STD03 500-656646/5	1.0	0.437158	50.0	505538.0	0.437158	Y
4	STD04 500-656646/6	2.0	0.766383	50.0	488072.0	0.383191	Y
5	STD05 500-656646/7	5.0	1.867442	50.0	492251.0	0.373488	Y
6	STD06 500-656646/8	20.0	7.407422	50.0	492155.0	0.370371	Y
7	STD07 500-656646/9	50.0	19.138402	50.0	462536.0	0.382768	Y
8	STD08 500-656646/10	100.0	34.24176	50.0	501985.0	0.342418	Y
9	STD09 500-656646/11	150.0	47.98162	50.0	606080.0	0.319877	Y
10	STD010 500-656646/12	200.0	64.12021	50.0	576723.0	0.320601	Y



Calibration

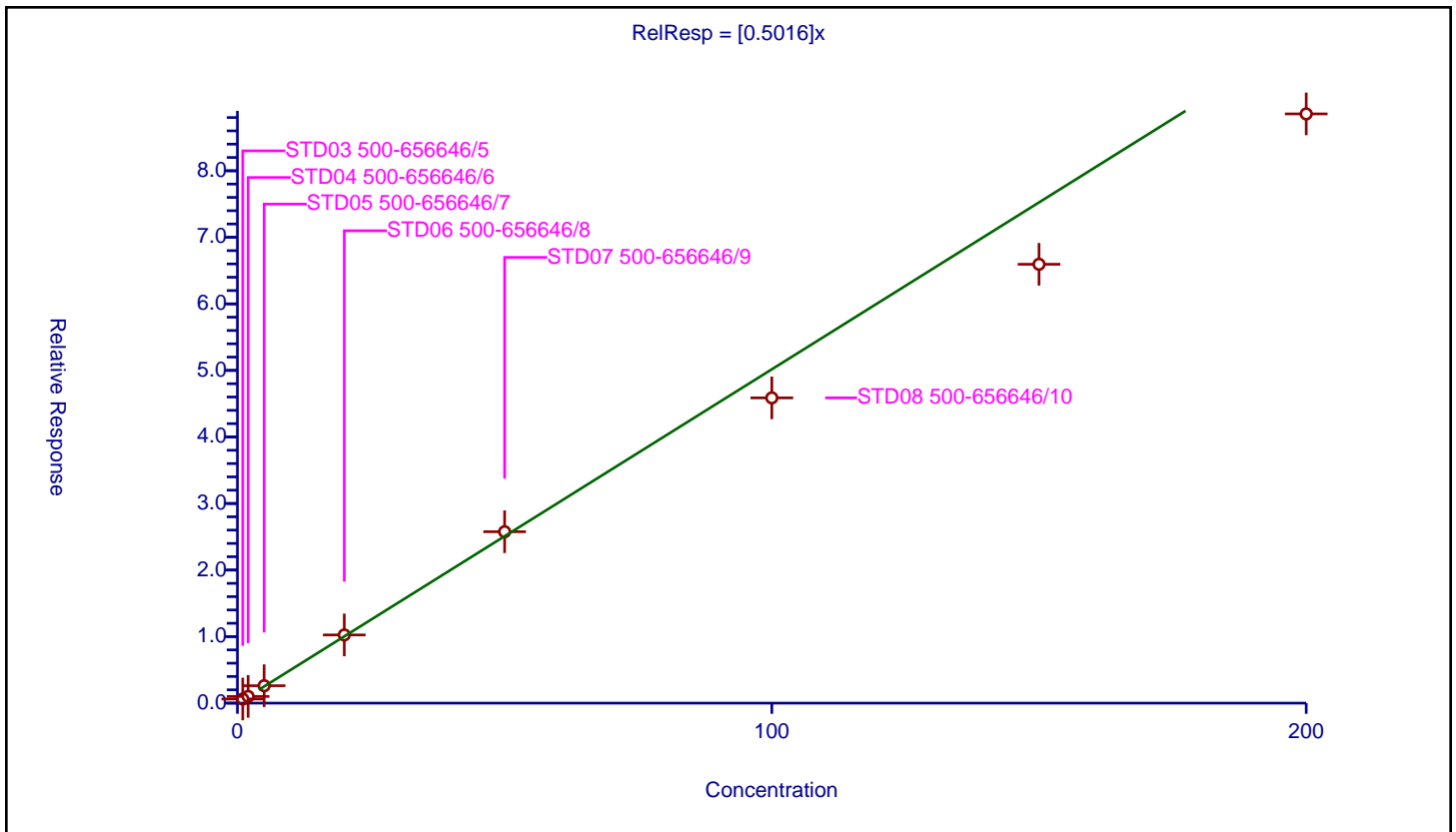
/ Methylcyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5016

Error Coefficients	
Standard Error:	529000
Relative Standard Error:	11.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.617362	50.0	505538.0	0.617362	Y
2	STD04 500-656646/6	2.0	1.007024	50.0	488072.0	0.503512	Y
3	STD05 500-656646/7	5.0	2.617059	50.0	492251.0	0.523412	Y
4	STD06 500-656646/8	20.0	10.247381	50.0	492155.0	0.512369	Y
5	STD07 500-656646/9	50.0	25.759508	50.0	462536.0	0.51519	Y
6	STD08 500-656646/10	100.0	45.875773	50.0	501985.0	0.458758	Y
7	STD09 500-656646/11	150.0	65.949792	50.0	606080.0	0.439665	Y
8	STD010 500-656646/12	200.0	88.546581	50.0	576723.0	0.442733	Y



Calibration

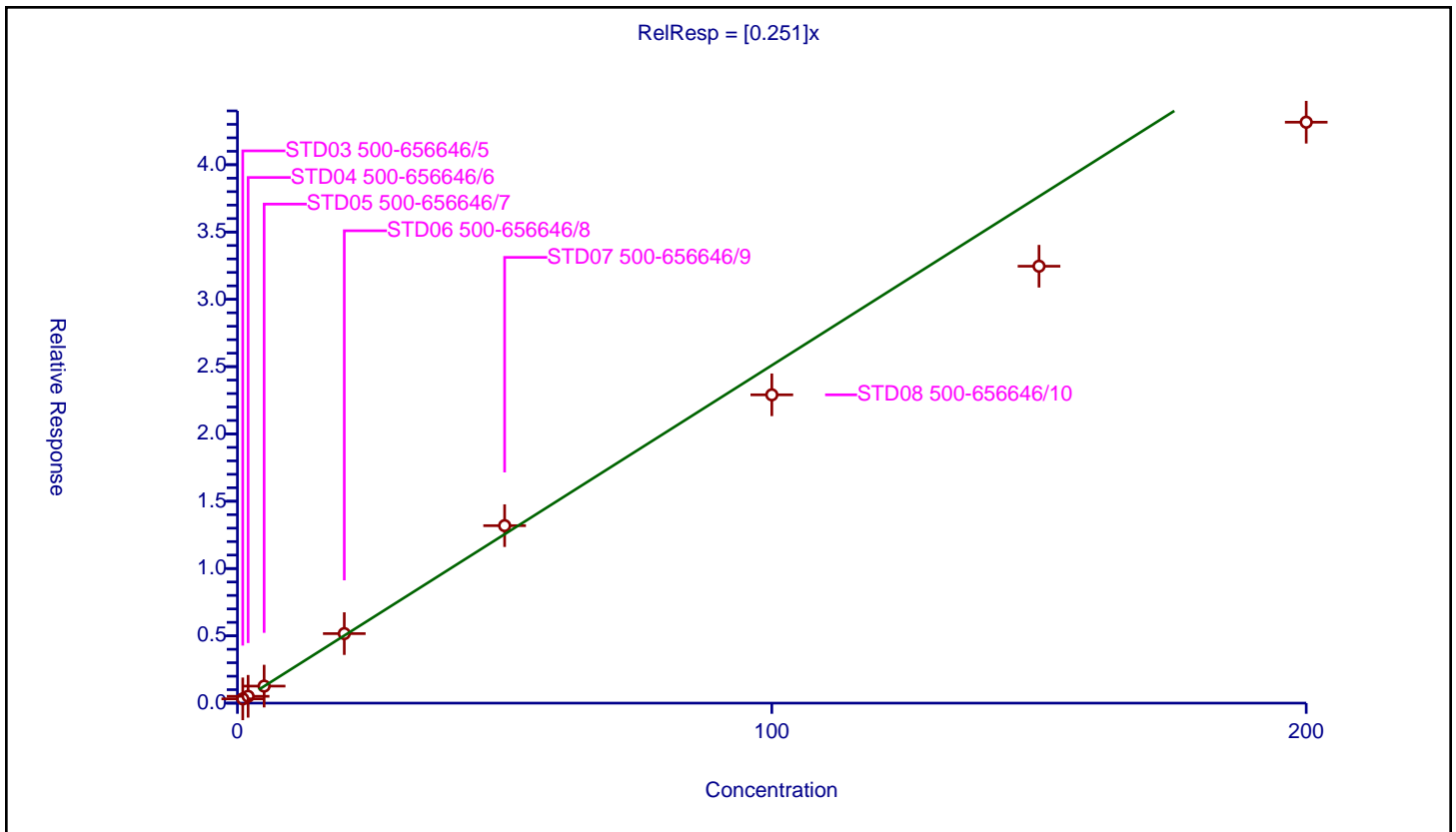
/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.251

Error Coefficients	
Standard Error:	260000
Relative Standard Error:	13.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.317978	50.0	505538.0	0.317978	Y
2	STD04 500-656646/6	2.0	0.506892	50.0	488072.0	0.253446	Y
3	STD05 500-656646/7	5.0	1.265107	50.0	492251.0	0.253021	Y
4	STD06 500-656646/8	20.0	5.16636	50.0	492155.0	0.258318	Y
5	STD07 500-656646/9	50.0	13.184595	50.0	462536.0	0.263692	Y
6	STD08 500-656646/10	100.0	22.905764	50.0	501985.0	0.229058	Y
7	STD09 500-656646/11	150.0	32.460731	50.0	606080.0	0.216405	Y
8	STD010 500-656646/12	200.0	43.158587	50.0	576723.0	0.215793	Y



Calibration

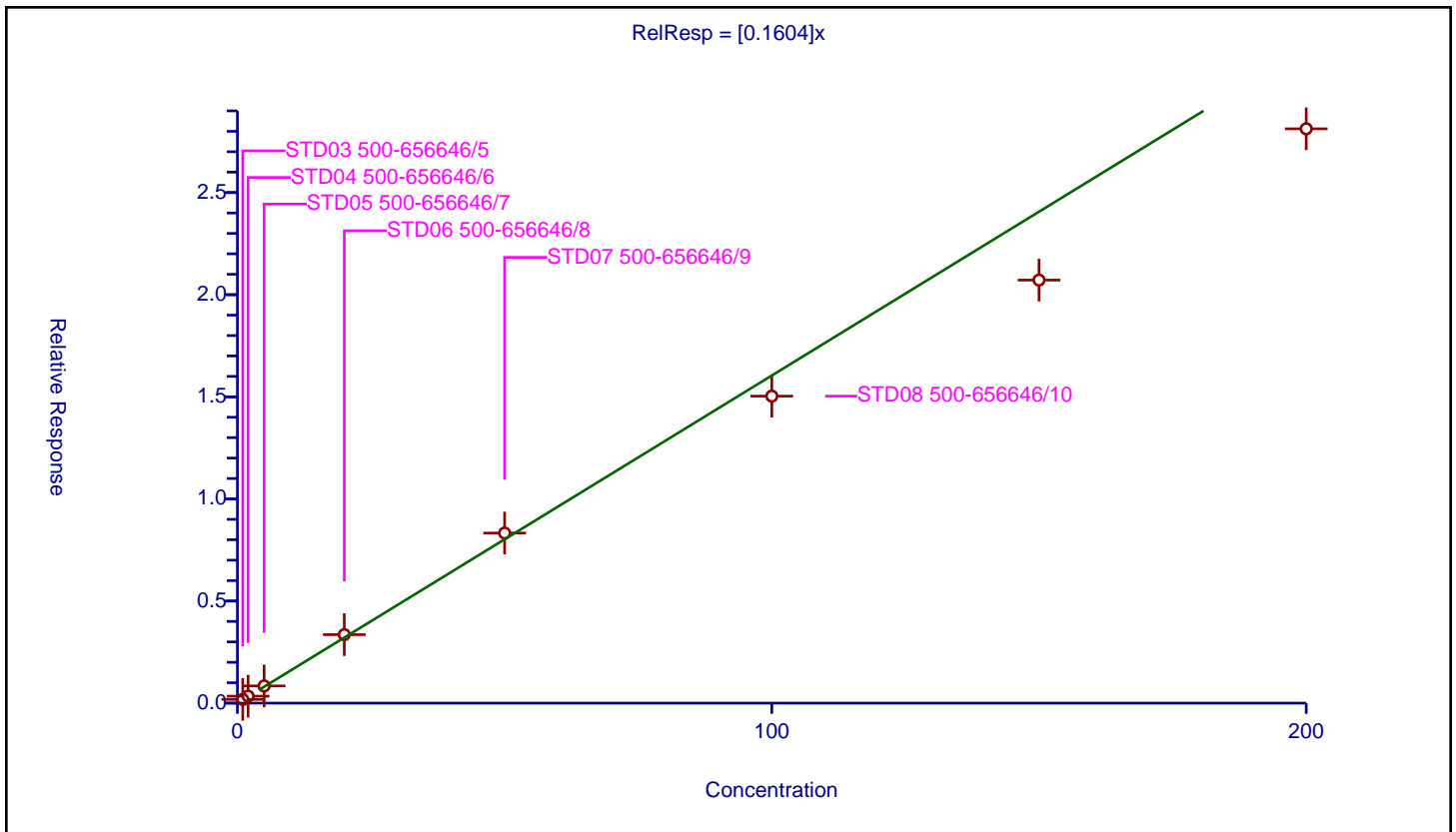
/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1604

Error Coefficients	
Standard Error:	168000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.181391	50.0	505538.0	0.181391	Y
2	STD04 500-656646/6	2.0	0.340728	50.0	488072.0	0.170364	Y
3	STD05 500-656646/7	5.0	0.841745	50.0	492251.0	0.168349	Y
4	STD06 500-656646/8	20.0	3.353212	50.0	492155.0	0.167661	Y
5	STD07 500-656646/9	50.0	8.327784	50.0	462536.0	0.166556	Y
6	STD08 500-656646/10	100.0	15.032122	50.0	501985.0	0.150321	Y
7	STD09 500-656646/11	150.0	20.714262	50.0	606080.0	0.138095	Y
8	STD10 500-656646/12	200.0	28.122339	50.0	576723.0	0.140612	Y



Calibration

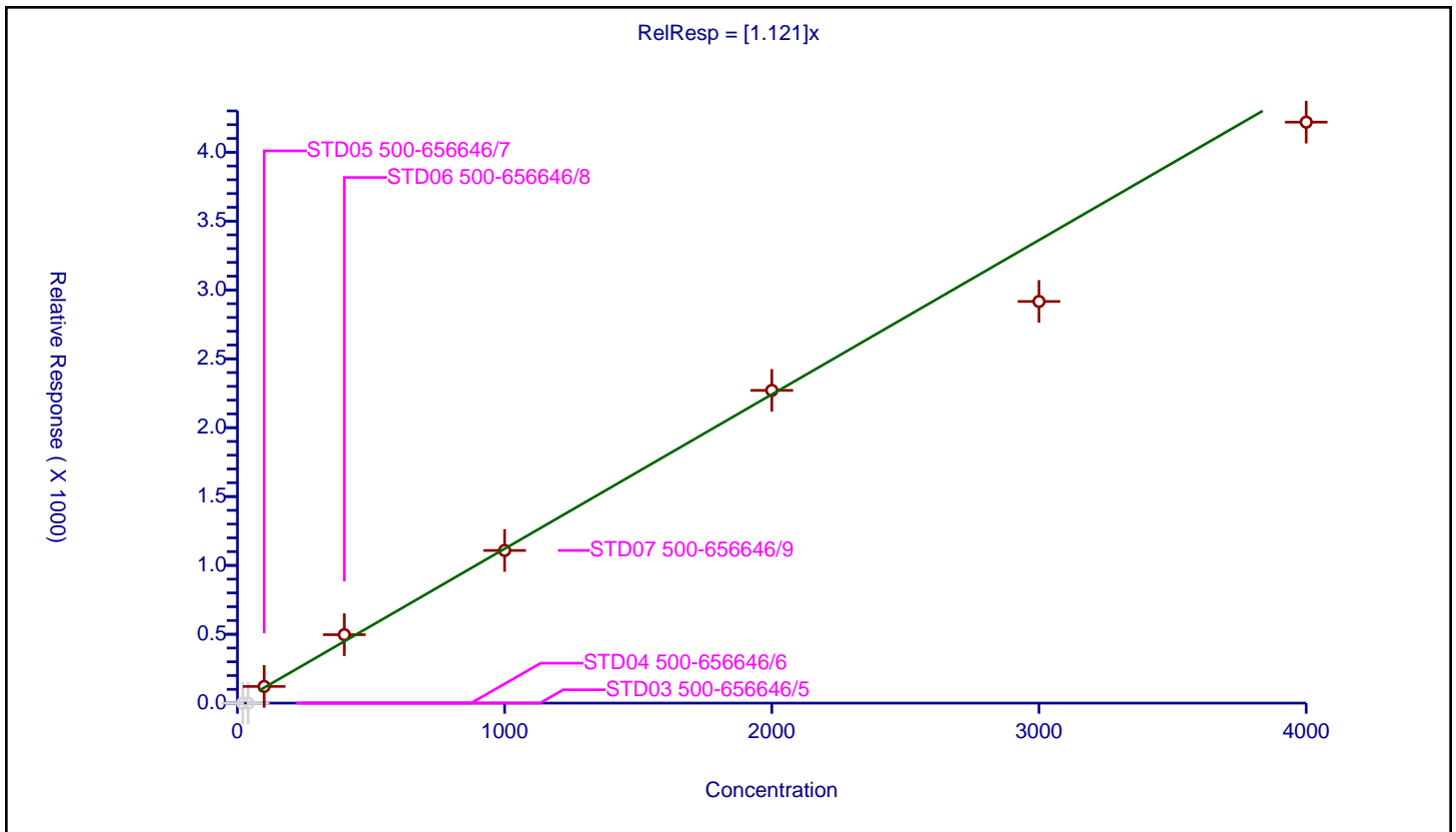
/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.121

Error Coefficients	
Standard Error:	43600
Relative Standard Error:	8.9
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	20.0	0.0	1000.0	17532.0	0.0	N
2	STD04 500-656646/6	40.0	0.0	1000.0	15685.0	0.0	N
3	STD05 500-656646/7	100.0	121.069949	1000.0	16412.0	1.210699	Y
4	STD06 500-656646/8	400.0	496.967292	1000.0	17641.0	1.242418	Y
5	STD07 500-656646/9	1000.0	1108.453556	1000.0	15804.0	1.108454	Y
6	STD08 500-656646/10	2000.0	2270.730929	1000.0	15665.0	1.135365	Y
7	STD09 500-656646/11	3000.0	2916.402517	1000.0	21137.0	0.972134	Y
8	STD010 500-656646/12	4000.0	4218.411448	1000.0	17261.0	1.054603	Y



Calibration

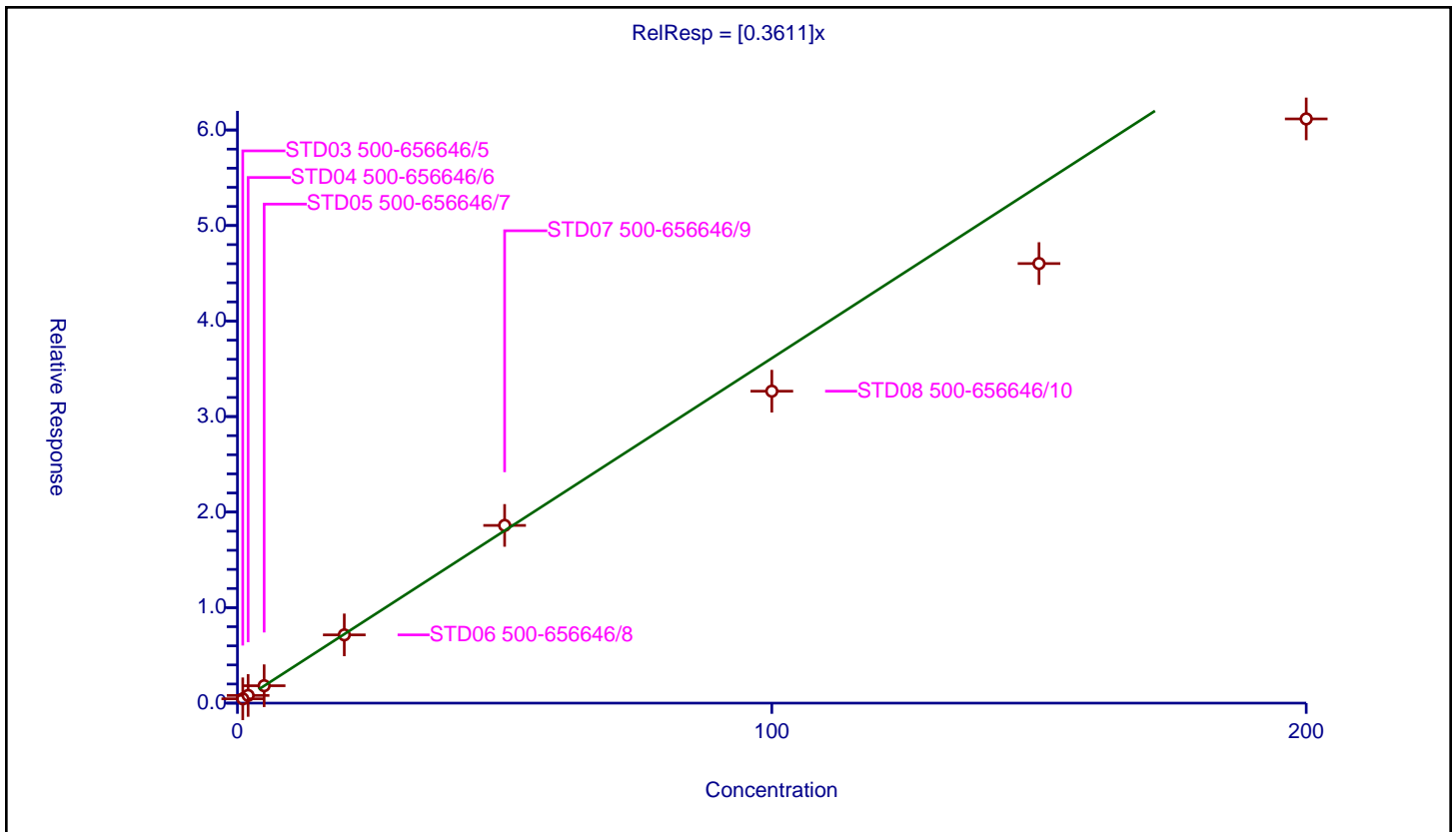
/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3611

Error Coefficients	
Standard Error:	369000
Relative Standard Error:	13.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.453082	50.0	505538.0	0.453082	Y
2	STD04 500-656646/6	2.0	0.805721	50.0	488072.0	0.402861	Y
3	STD05 500-656646/7	5.0	1.821225	50.0	492251.0	0.364245	Y
4	STD06 500-656646/8	20.0	7.14531	50.0	492155.0	0.357265	Y
5	STD07 500-656646/9	50.0	18.604498	50.0	462536.0	0.37209	Y
6	STD08 500-656646/10	100.0	32.65745	50.0	501985.0	0.326574	Y
7	STD09 500-656646/11	150.0	46.019172	50.0	606080.0	0.306794	Y
8	STD010 500-656646/12	200.0	61.161944	50.0	576723.0	0.30581	Y



Calibration

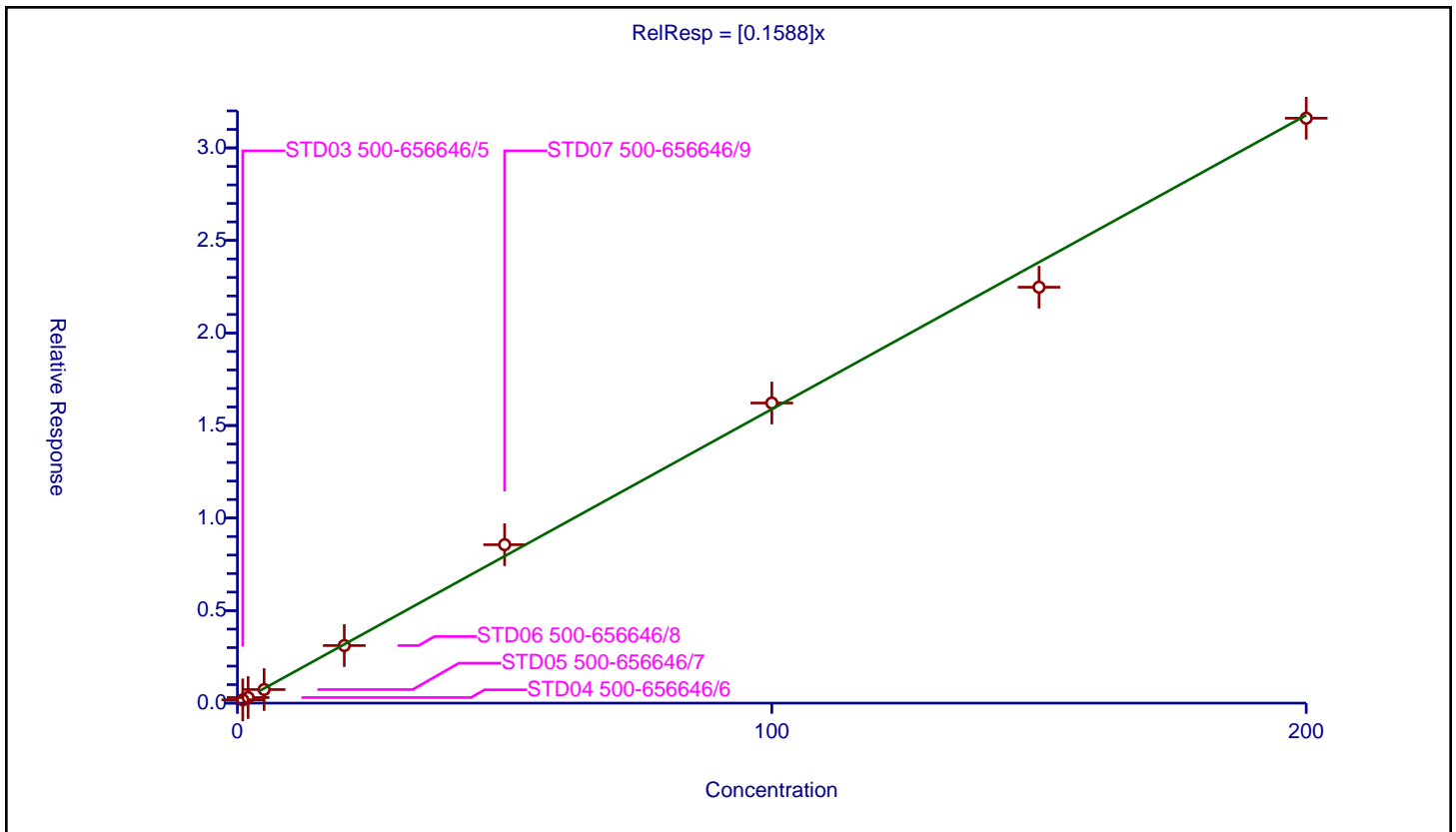
/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1588

Error Coefficients	
Standard Error:	129000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.176502	50.0	381583.0	0.176502	Y
2	STD04 500-656646/6	2.0	0.301172	50.0	368062.0	0.150586	Y
3	STD05 500-656646/7	5.0	0.733907	50.0	368848.0	0.146781	Y
4	STD06 500-656646/8	20.0	3.109946	50.0	368045.0	0.155497	Y
5	STD07 500-656646/9	50.0	8.560563	50.0	348032.0	0.171211	Y
6	STD08 500-656646/10	100.0	16.216393	50.0	366962.0	0.162164	Y
7	STD09 500-656646/11	150.0	22.47356	50.0	424263.0	0.149824	Y
8	STD010 500-656646/12	200.0	31.604749	50.0	394311.0	0.158024	Y



Calibration

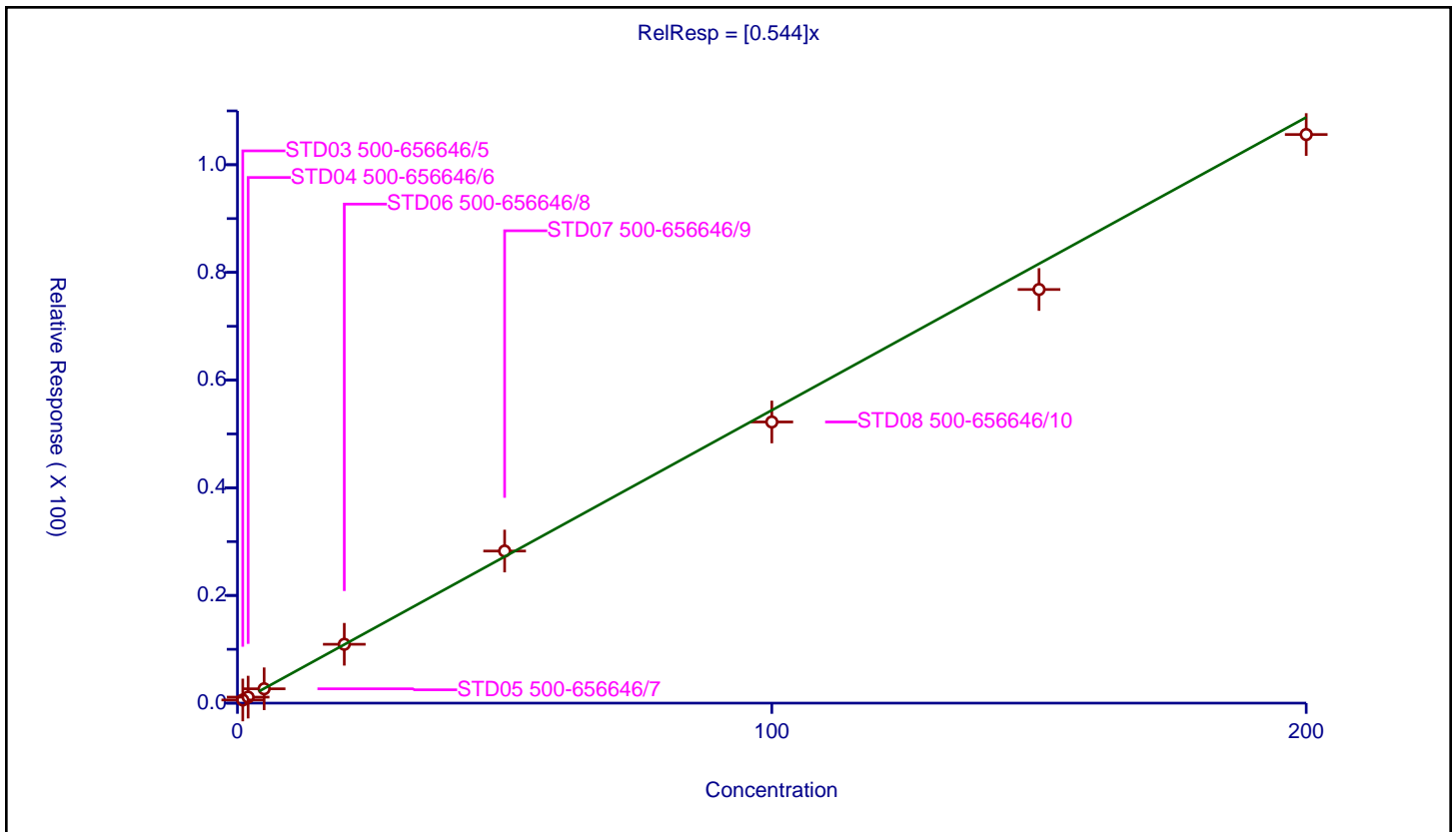
/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.544

Error Coefficients	
Standard Error:	433000
Relative Standard Error:	4.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.587421	50.0	381583.0	0.587421	Y
2	STD04 500-656646/6	2.0	1.116796	50.0	368062.0	0.558398	Y
3	STD05 500-656646/7	5.0	2.661937	50.0	368848.0	0.532387	Y
4	STD06 500-656646/8	20.0	10.929778	50.0	368045.0	0.546489	Y
5	STD07 500-656646/9	50.0	28.247259	50.0	348032.0	0.564945	Y
6	STD08 500-656646/10	100.0	52.223118	50.0	366962.0	0.522231	Y
7	STD09 500-656646/11	150.0	76.827463	50.0	424263.0	0.512183	Y
8	STD010 500-656646/12	200.0	105.613082	50.0	394311.0	0.528065	Y



Calibration

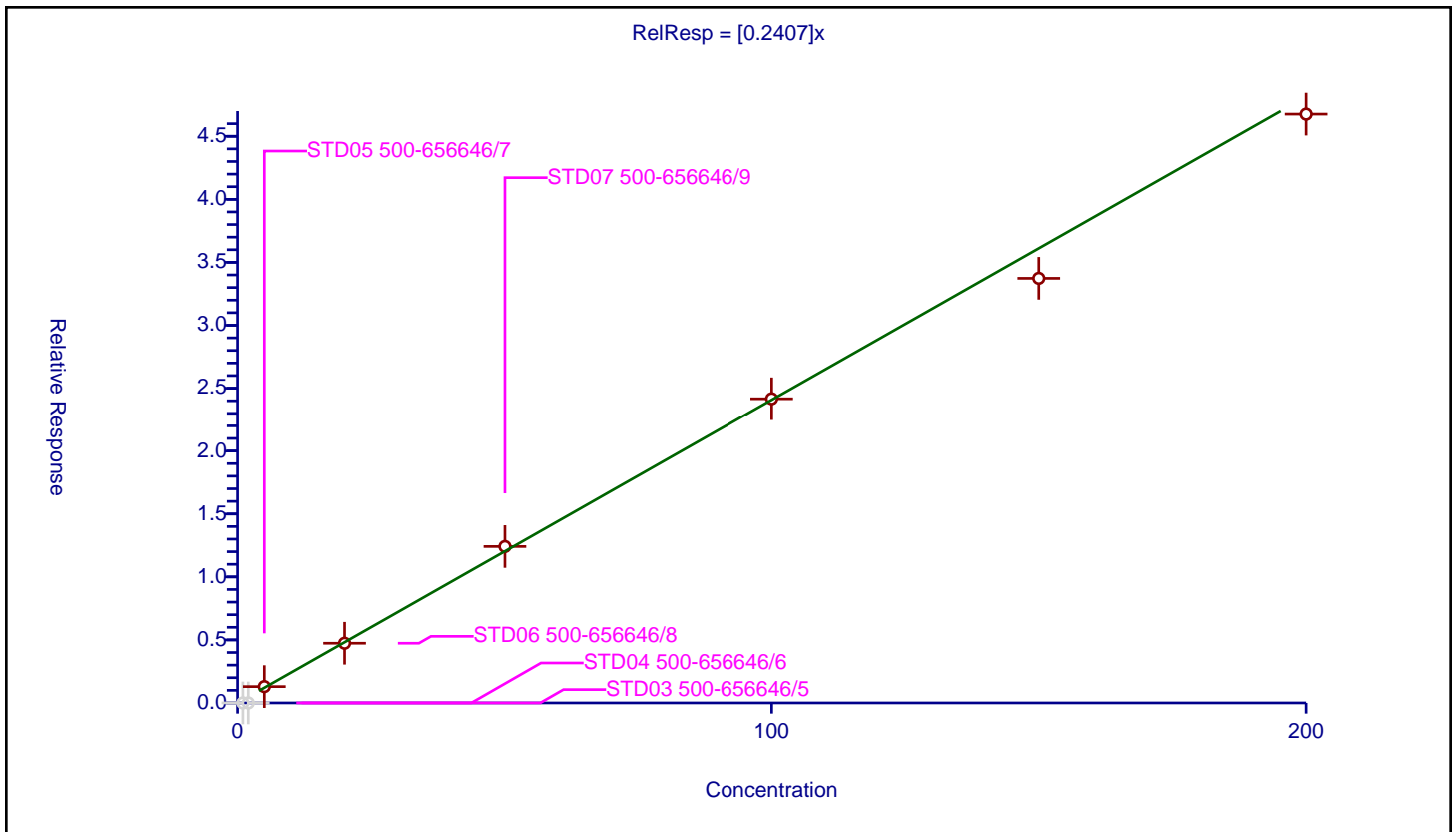
/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2407

Error Coefficients	
Standard Error:	227000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	381583.0	0.0	N
2	STD04 500-656646/6	2.0	0.0	50.0	368062.0	0.0	N
3	STD05 500-656646/7	5.0	1.295249	50.0	368848.0	0.25905	Y
4	STD06 500-656646/8	20.0	4.734883	50.0	368045.0	0.236744	Y
5	STD07 500-656646/9	50.0	12.413801	50.0	348032.0	0.248276	Y
6	STD08 500-656646/10	100.0	24.160676	50.0	366962.0	0.241607	Y
7	STD09 500-656646/11	150.0	33.729668	50.0	424263.0	0.224864	Y
8	STD010 500-656646/12	200.0	46.758904	50.0	394311.0	0.233795	Y



Calibration

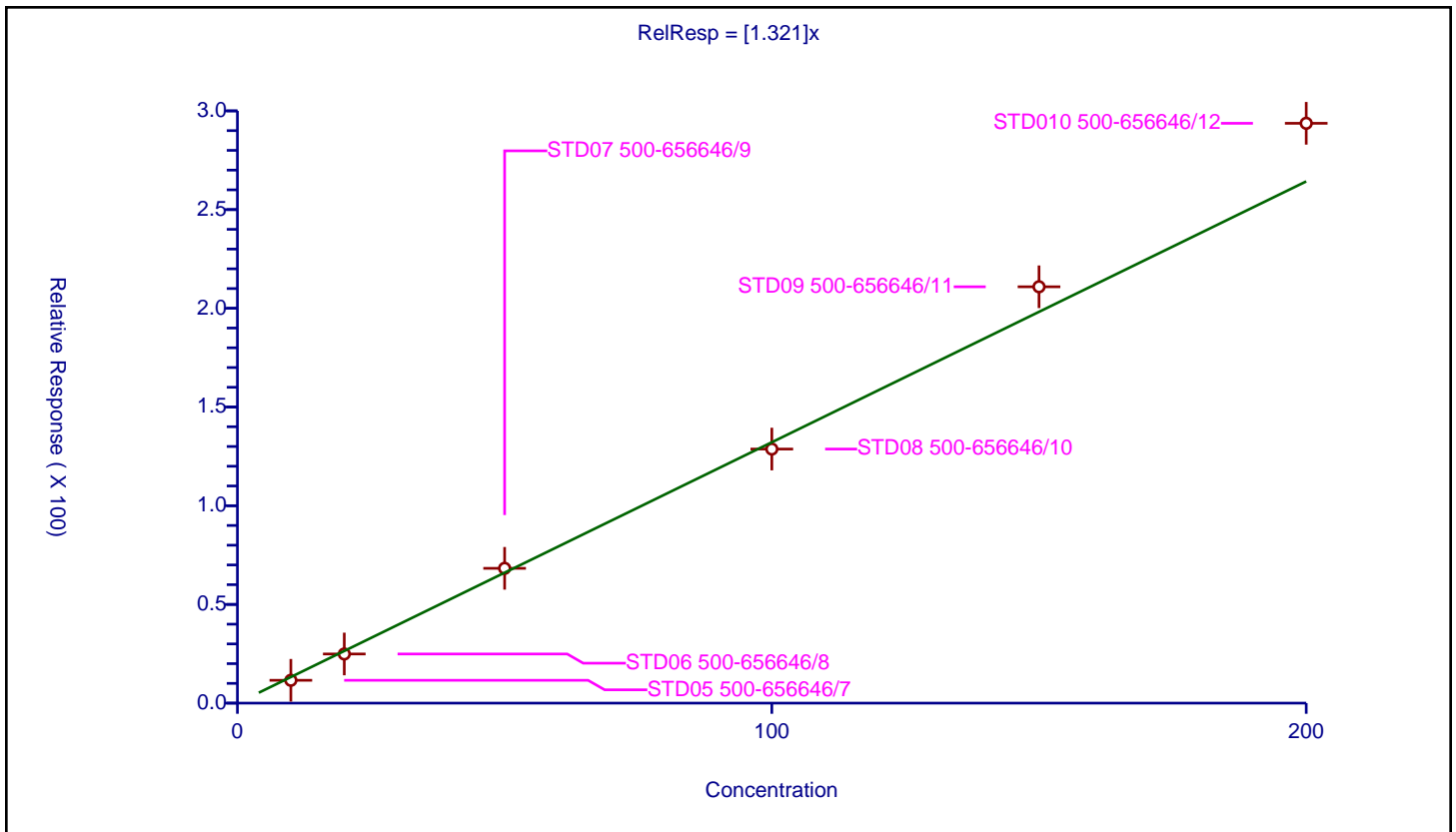
/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.321

Error Coefficients	
Standard Error:	1390000
Relative Standard Error:	8.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 500-656646/7	10.0	11.563842	50.0	368848.0	1.156384	Y
2	STD06 500-656646/8	20.0	24.89288	50.0	368045.0	1.244644	Y
3	STD07 500-656646/9	50.0	68.280934	50.0	348032.0	1.365619	Y
4	STD08 500-656646/10	100.0	128.699974	50.0	366962.0	1.287	Y
5	STD09 500-656646/11	150.0	210.901021	50.0	424263.0	1.406007	Y
6	STD010 500-656646/12	200.0	293.715747	50.0	394311.0	1.468579	Y



Calibration

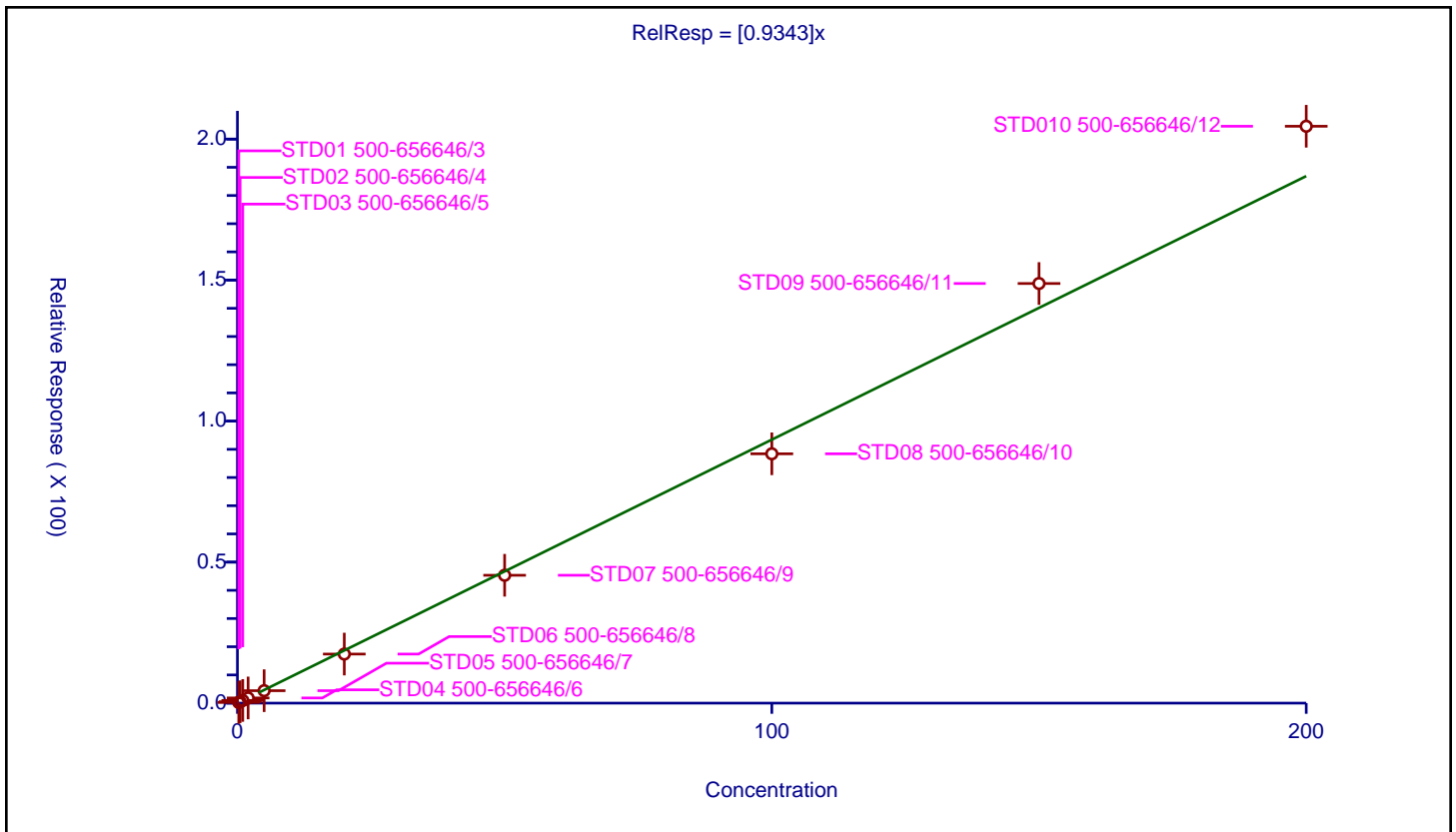
/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9343

Error Coefficients	
Standard Error:	725000
Relative Standard Error:	5.6
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.23391	50.0	383054.0	0.935638	Y
2	STD02 500-656646/4	0.5	0.494213	50.0	370589.0	0.988427	Y
3	STD03 500-656646/5	1.0	0.945273	50.0	381583.0	0.945273	Y
4	STD04 500-656646/6	2.0	1.833251	50.0	368062.0	0.916625	Y
5	STD05 500-656646/7	5.0	4.410624	50.0	368848.0	0.882125	Y
6	STD06 500-656646/8	20.0	17.397329	50.0	368045.0	0.869866	Y
7	STD07 500-656646/9	50.0	45.33721	50.0	348032.0	0.906744	Y
8	STD08 500-656646/10	100.0	88.405339	50.0	366962.0	0.884053	Y
9	STD09 500-656646/11	150.0	148.797326	50.0	424263.0	0.991982	Y
10	STD010 500-656646/12	200.0	204.54844	50.0	394311.0	1.022742	Y



Calibration

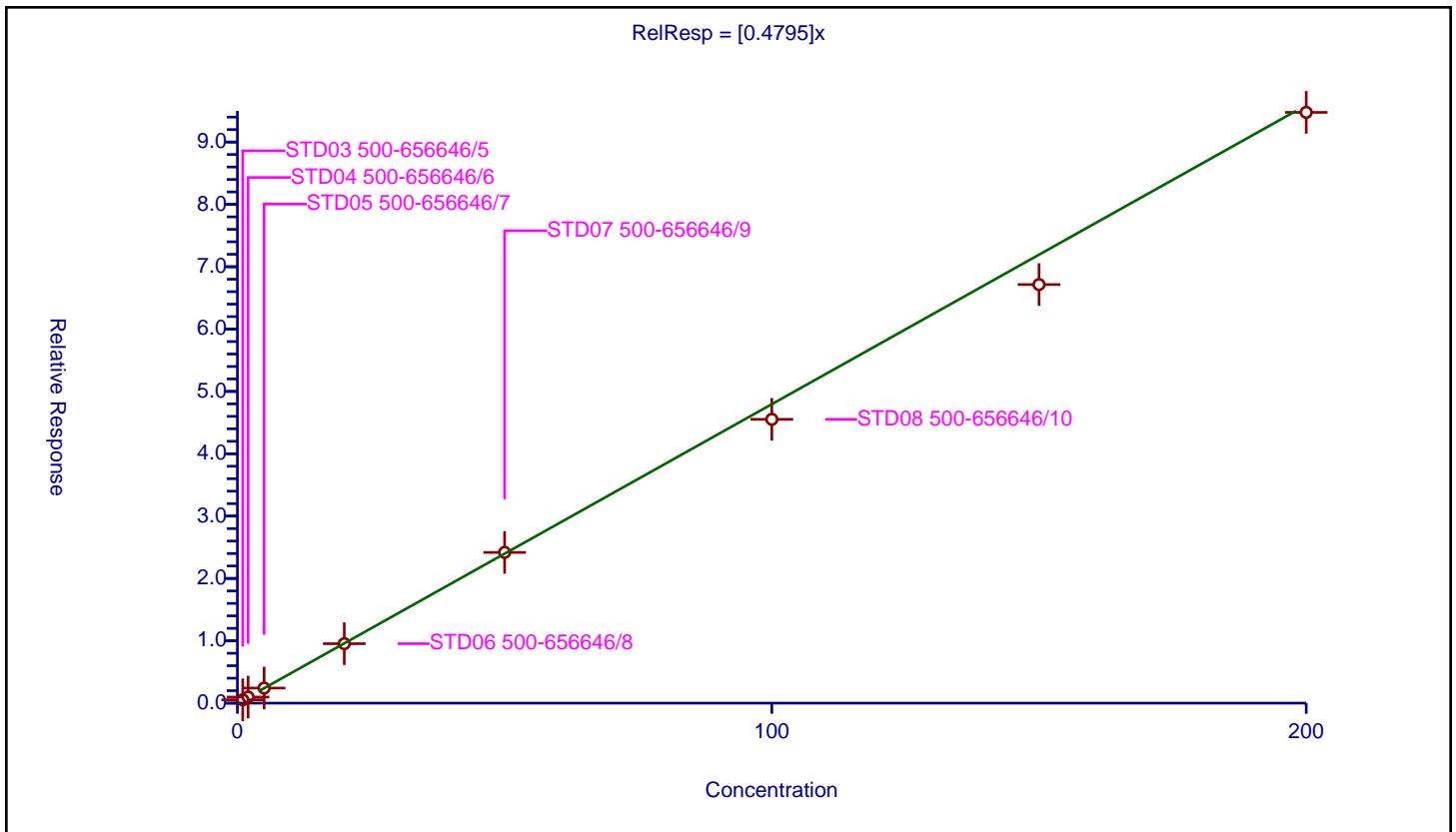
/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4795

Error Coefficients	
Standard Error:	383000
Relative Standard Error:	5.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.530029	50.0	381583.0	0.530029	Y
2	STD04 500-656646/6	2.0	0.971983	50.0	368062.0	0.485991	Y
3	STD05 500-656646/7	5.0	2.418205	50.0	368848.0	0.483641	Y
4	STD06 500-656646/8	20.0	9.532258	50.0	368045.0	0.476613	Y
5	STD07 500-656646/9	50.0	24.174214	50.0	348032.0	0.483484	Y
6	STD08 500-656646/10	100.0	45.523515	50.0	366962.0	0.455235	Y
7	STD09 500-656646/11	150.0	67.138662	50.0	424263.0	0.447591	Y
8	STD010 500-656646/12	200.0	94.762129	50.0	394311.0	0.473811	Y



Calibration

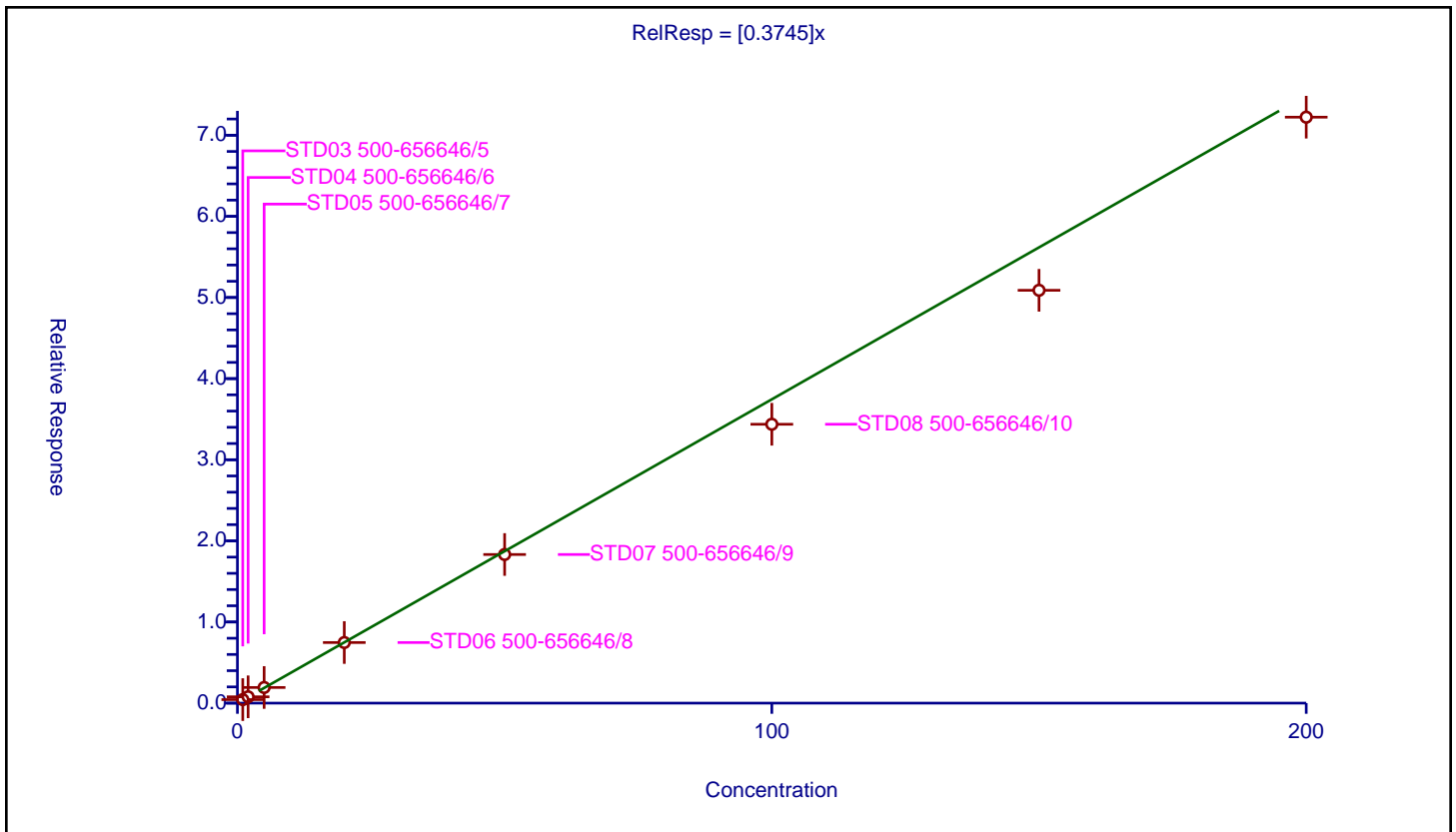
/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3745

Error Coefficients	
Standard Error:	291000
Relative Standard Error:	8.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.435816	50.0	381583.0	0.435816	Y
2	STD04 500-656646/6	2.0	0.780303	50.0	368062.0	0.390152	Y
3	STD05 500-656646/7	5.0	1.928708	50.0	368848.0	0.385742	Y
4	STD06 500-656646/8	20.0	7.471233	50.0	368045.0	0.373562	Y
5	STD07 500-656646/9	50.0	18.320011	50.0	348032.0	0.3664	Y
6	STD08 500-656646/10	100.0	34.373859	50.0	366962.0	0.343739	Y
7	STD09 500-656646/11	150.0	50.887657	50.0	424263.0	0.339251	Y
8	STD010 500-656646/12	200.0	72.22497	50.0	394311.0	0.361125	Y



Calibration

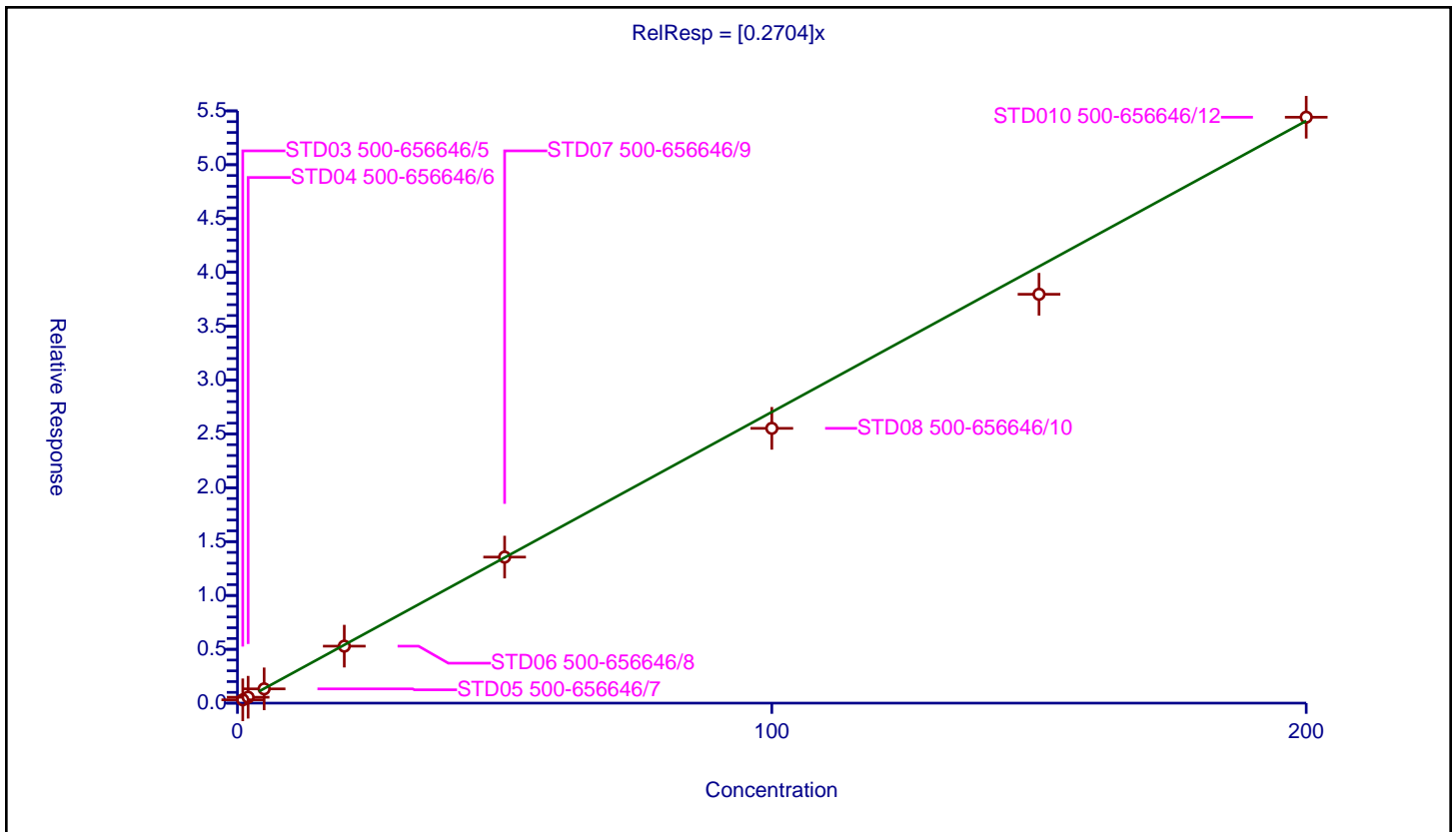
/ 1,1,2-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2704

Error Coefficients	
Standard Error:	218000
Relative Standard Error:	6.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.30819	50.0	381583.0	0.30819	Y
2	STD04 500-656646/6	2.0	0.54719	50.0	368062.0	0.273595	Y
3	STD05 500-656646/7	5.0	1.324258	50.0	368848.0	0.264852	Y
4	STD06 500-656646/8	20.0	5.292831	50.0	368045.0	0.264642	Y
5	STD07 500-656646/9	50.0	13.56269	50.0	348032.0	0.271254	Y
6	STD08 500-656646/10	100.0	25.519127	50.0	366962.0	0.255191	Y
7	STD09 500-656646/11	150.0	37.969726	50.0	424263.0	0.253132	Y
8	STD010 500-656646/12	200.0	54.41238	50.0	394311.0	0.272062	Y



Calibration

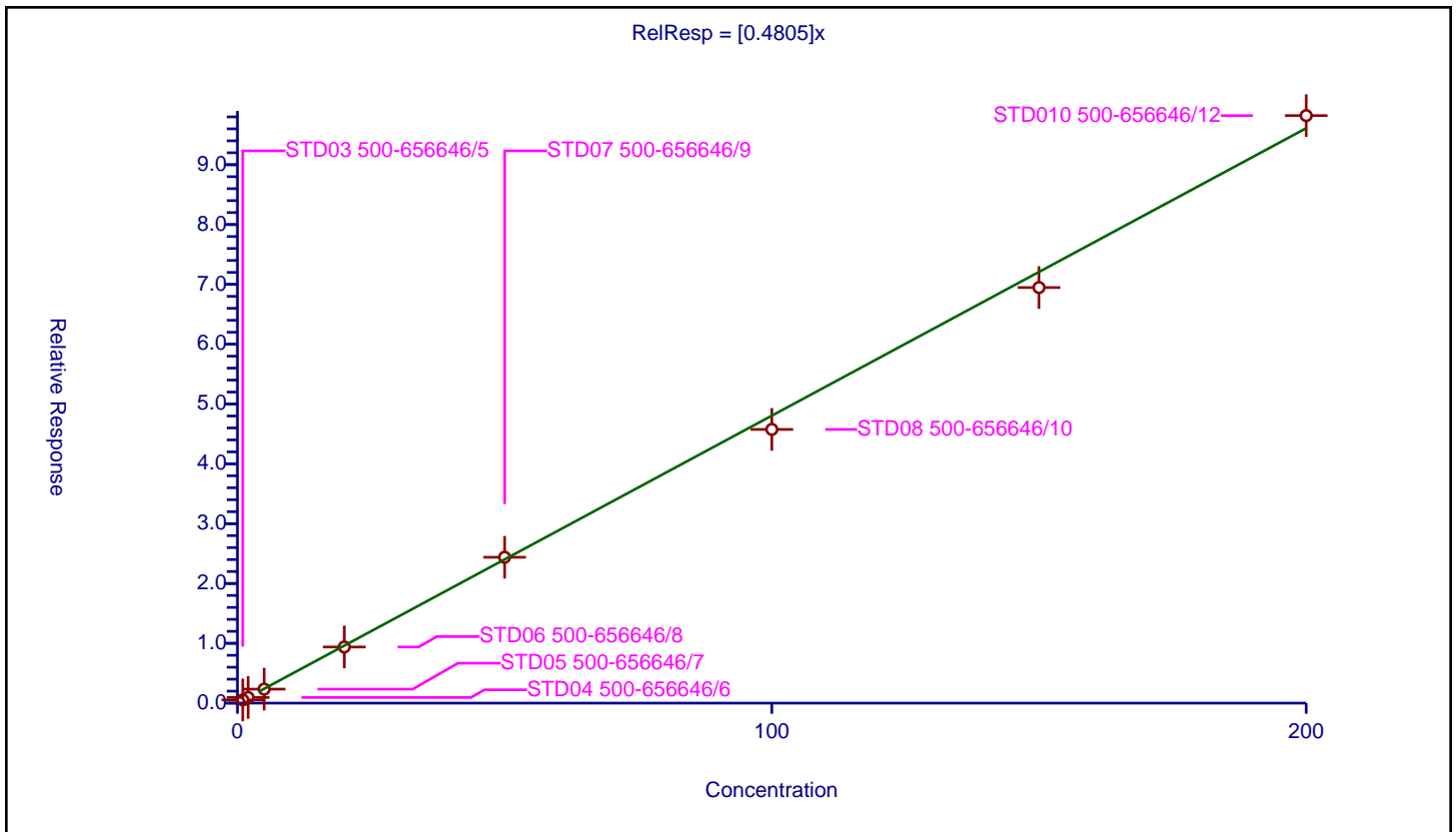
/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4805

Error Coefficients	
Standard Error:	395000
Relative Standard Error:	5.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.535139	50.0	381583.0	0.535139	Y
2	STD04 500-656646/6	2.0	0.944542	50.0	368062.0	0.472271	Y
3	STD05 500-656646/7	5.0	2.340937	50.0	368848.0	0.468187	Y
4	STD06 500-656646/8	20.0	9.384043	50.0	368045.0	0.469202	Y
5	STD07 500-656646/9	50.0	24.383534	50.0	348032.0	0.487671	Y
6	STD08 500-656646/10	100.0	45.750786	50.0	366962.0	0.457508	Y
7	STD09 500-656646/11	150.0	69.469527	50.0	424263.0	0.46313	Y
8	STD010 500-656646/12	200.0	98.213086	50.0	394311.0	0.491065	Y



Calibration

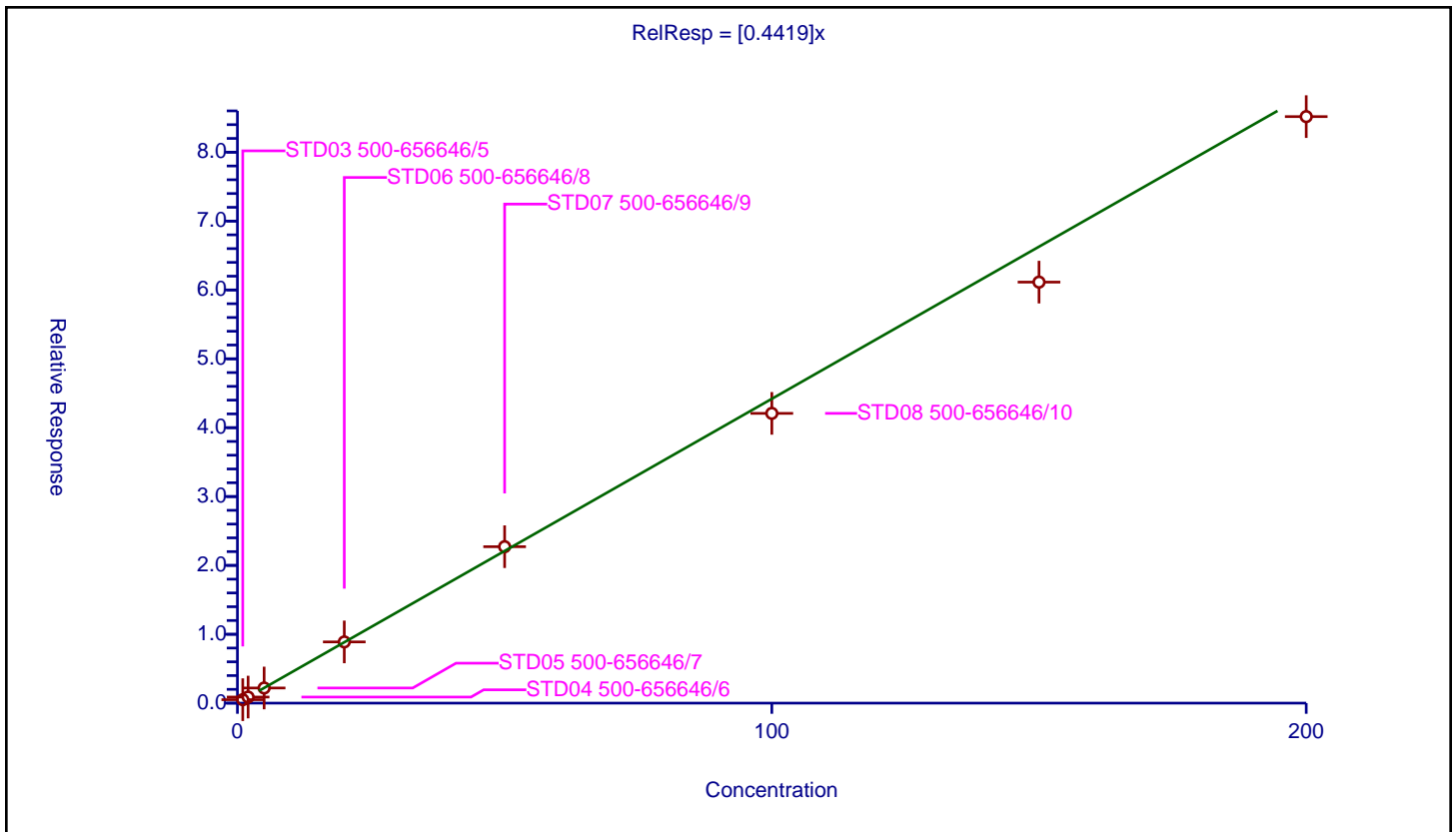
/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4419

Error Coefficients	
Standard Error:	347000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.501333	50.0	381583.0	0.501333	Y
2	STD04 500-656646/6	2.0	0.881781	50.0	368062.0	0.44089	Y
3	STD05 500-656646/7	5.0	2.198738	50.0	368848.0	0.439748	Y
4	STD06 500-656646/8	20.0	8.890896	50.0	368045.0	0.444545	Y
5	STD07 500-656646/9	50.0	22.714578	50.0	348032.0	0.454292	Y
6	STD08 500-656646/10	100.0	42.075201	50.0	366962.0	0.420752	Y
7	STD09 500-656646/11	150.0	61.136253	50.0	424263.0	0.407575	Y
8	STD010 500-656646/12	200.0	85.166911	50.0	394311.0	0.425835	Y



Calibration

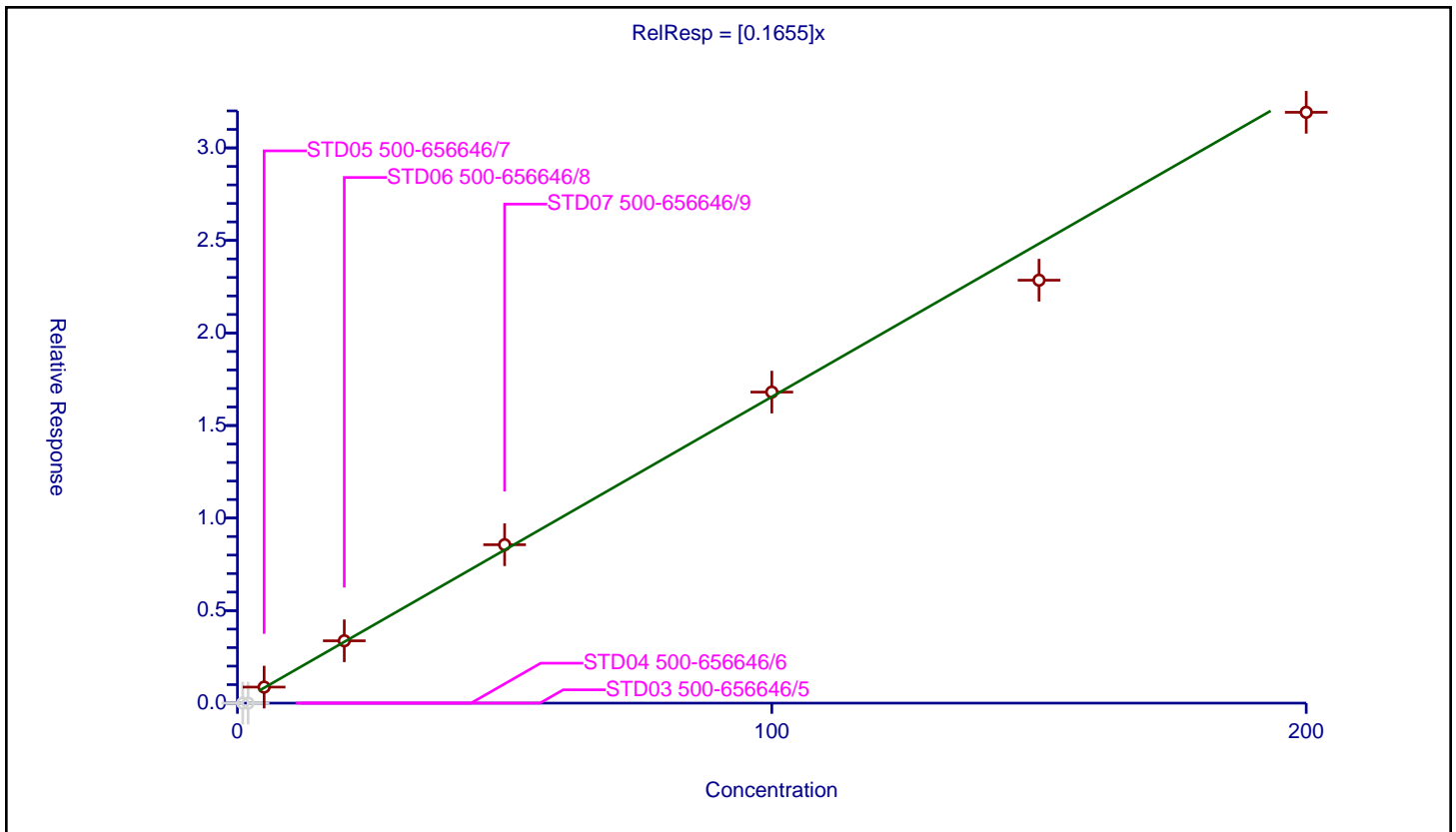
/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1655

Error Coefficients	
Standard Error:	155000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.0	50.0	381583.0	0.0	N
2	STD04 500-656646/6	2.0	0.0	50.0	368062.0	0.0	N
3	STD05 500-656646/7	5.0	0.867024	50.0	368848.0	0.173405	Y
4	STD06 500-656646/8	20.0	3.368474	50.0	368045.0	0.168424	Y
5	STD07 500-656646/9	50.0	8.558696	50.0	348032.0	0.171174	Y
6	STD08 500-656646/10	100.0	16.805555	50.0	366962.0	0.168056	Y
7	STD09 500-656646/11	150.0	22.851627	50.0	424263.0	0.152344	Y
8	STD010 500-656646/12	200.0	31.923025	50.0	394311.0	0.159615	Y



Calibration

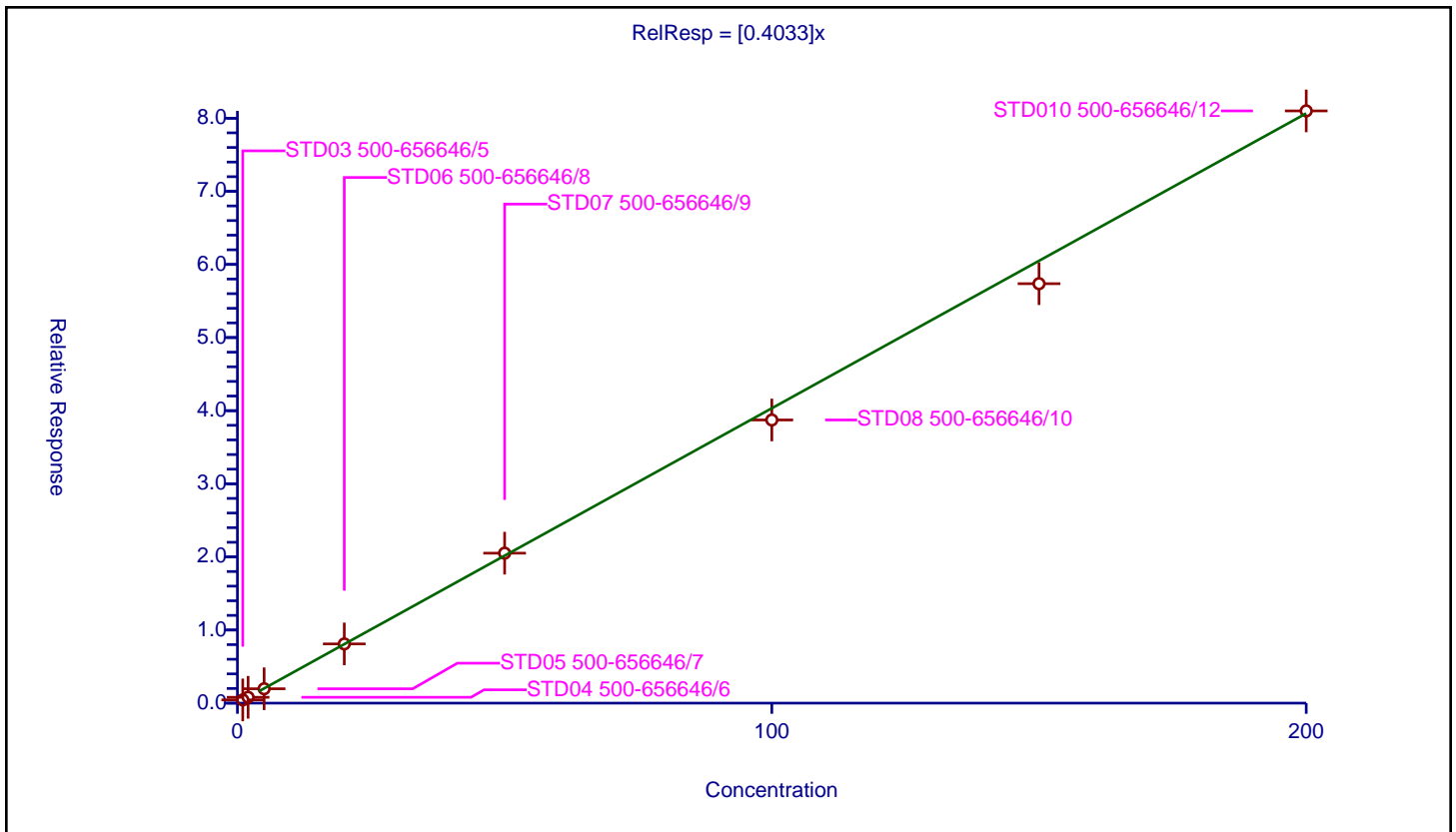
/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4033

Error Coefficients	
Standard Error:	327000
Relative Standard Error:	4.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.443547	50.0	381583.0	0.443547	Y
2	STD04 500-656646/6	2.0	0.799729	50.0	368062.0	0.399865	Y
3	STD05 500-656646/7	5.0	1.965715	50.0	368848.0	0.393143	Y
4	STD06 500-656646/8	20.0	8.097923	50.0	368045.0	0.404896	Y
5	STD07 500-656646/9	50.0	20.510039	50.0	348032.0	0.410201	Y
6	STD08 500-656646/10	100.0	38.726489	50.0	366962.0	0.387265	Y
7	STD09 500-656646/11	150.0	57.366539	50.0	424263.0	0.382444	Y
8	STD10 500-656646/12	200.0	80.996092	50.0	394311.0	0.40498	Y



Calibration

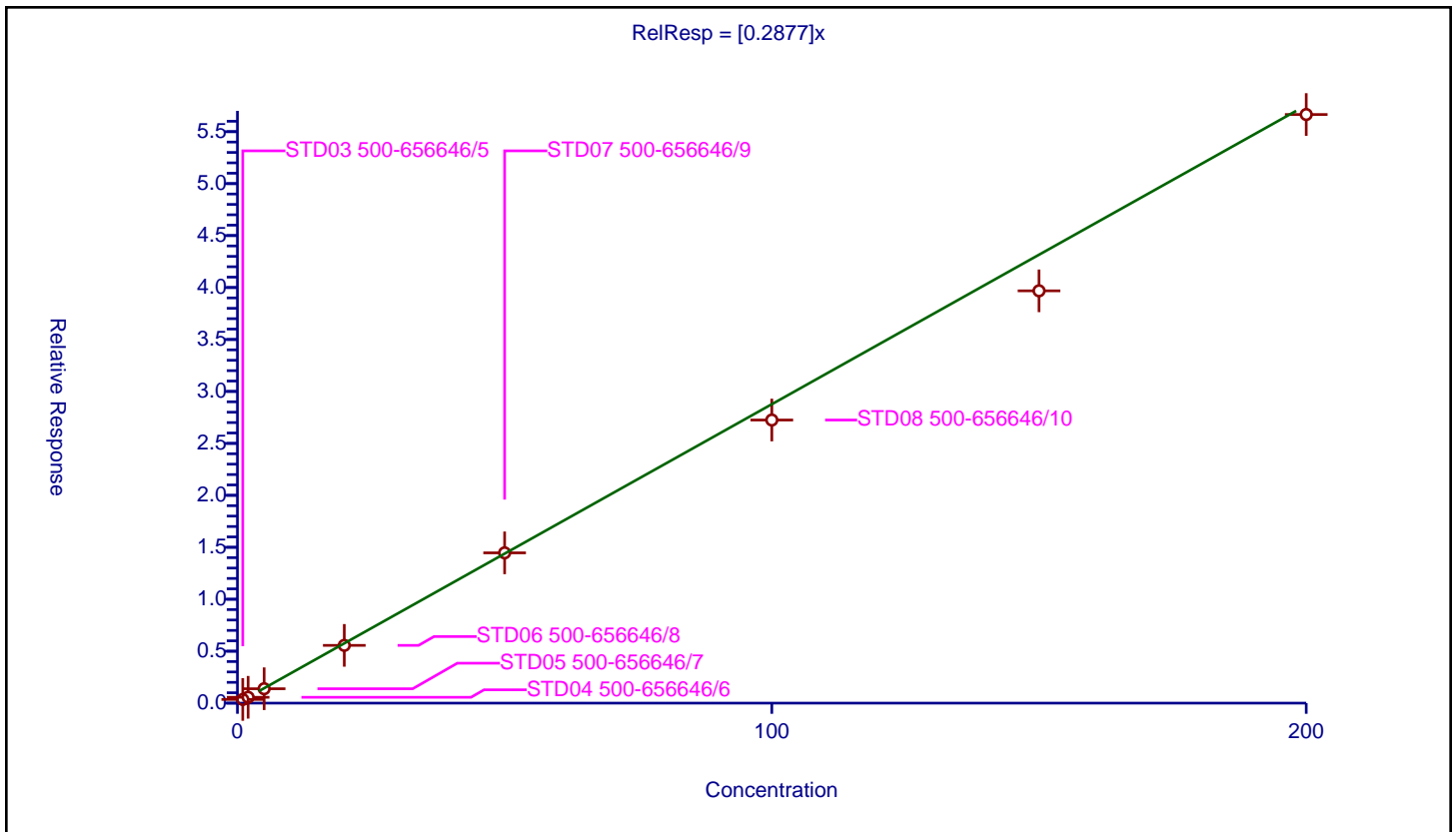
/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2877

Error Coefficients	
Standard Error:	228000
Relative Standard Error:	9.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.355362	50.0	381583.0	0.355362	Y
2	STD04 500-656646/6	2.0	0.562949	50.0	368062.0	0.281474	Y
3	STD05 500-656646/7	5.0	1.386208	50.0	368848.0	0.277242	Y
4	STD06 500-656646/8	20.0	5.559782	50.0	368045.0	0.277989	Y
5	STD07 500-656646/9	50.0	14.463182	50.0	348032.0	0.289264	Y
6	STD08 500-656646/10	100.0	27.247644	50.0	366962.0	0.272476	Y
7	STD09 500-656646/11	150.0	39.682579	50.0	424263.0	0.264551	Y
8	STD010 500-656646/12	200.0	56.652617	50.0	394311.0	0.283263	Y



Calibration

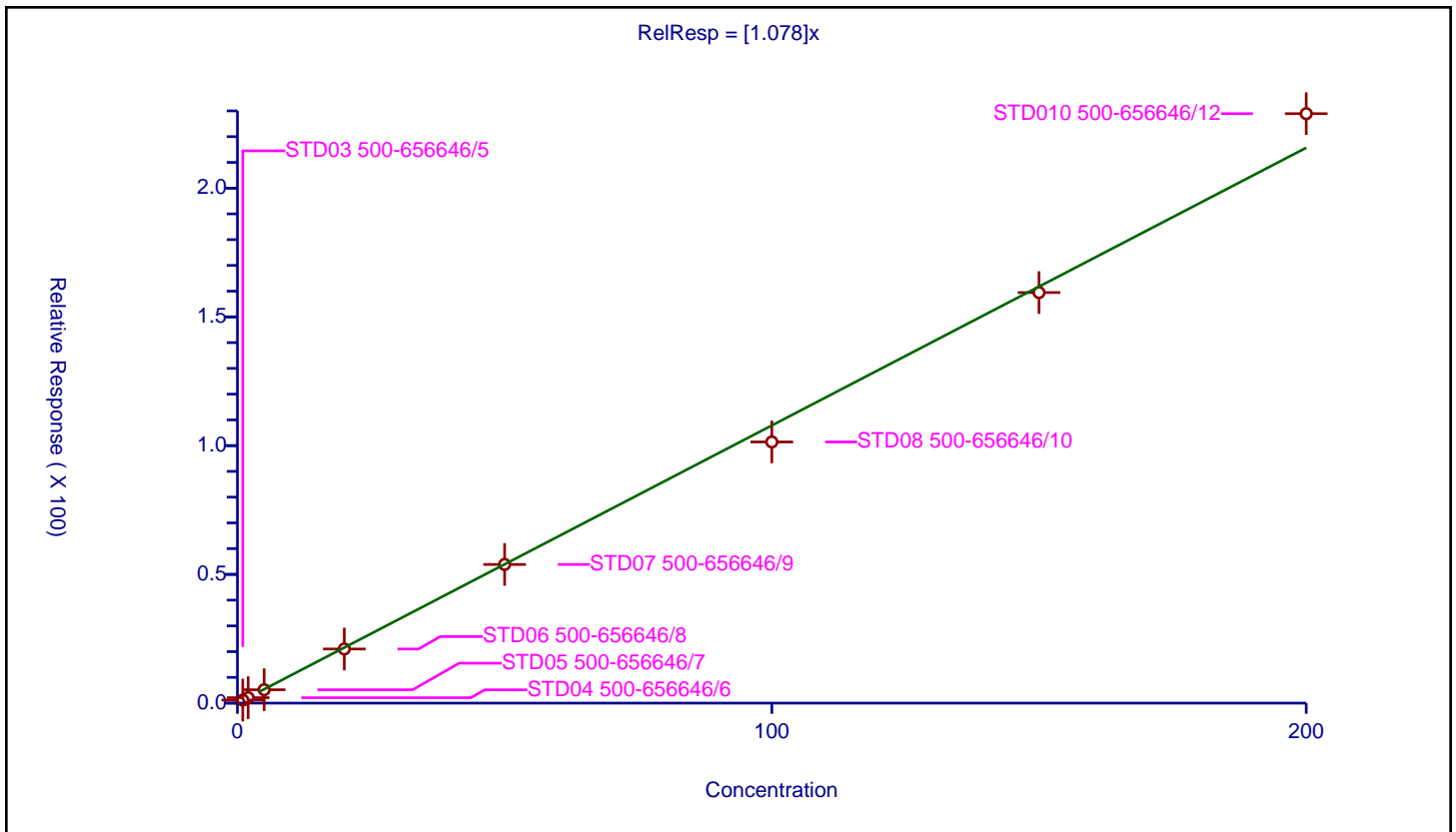
/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.078

Error Coefficients	
Standard Error:	911000
Relative Standard Error:	5.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.181132	50.0	381583.0	1.181132	Y
2	STD04 500-656646/6	2.0	2.114589	50.0	368062.0	1.057295	Y
3	STD05 500-656646/7	5.0	5.193061	50.0	368848.0	1.038612	Y
4	STD06 500-656646/8	20.0	21.022973	50.0	368045.0	1.051149	Y
5	STD07 500-656646/9	50.0	53.850795	50.0	348032.0	1.077016	Y
6	STD08 500-656646/10	100.0	101.434208	50.0	366962.0	1.014342	Y
7	STD09 500-656646/11	150.0	159.451449	50.0	424263.0	1.06301	Y
8	STD010 500-656646/12	200.0	228.921587	50.0	394311.0	1.144608	Y



Calibration

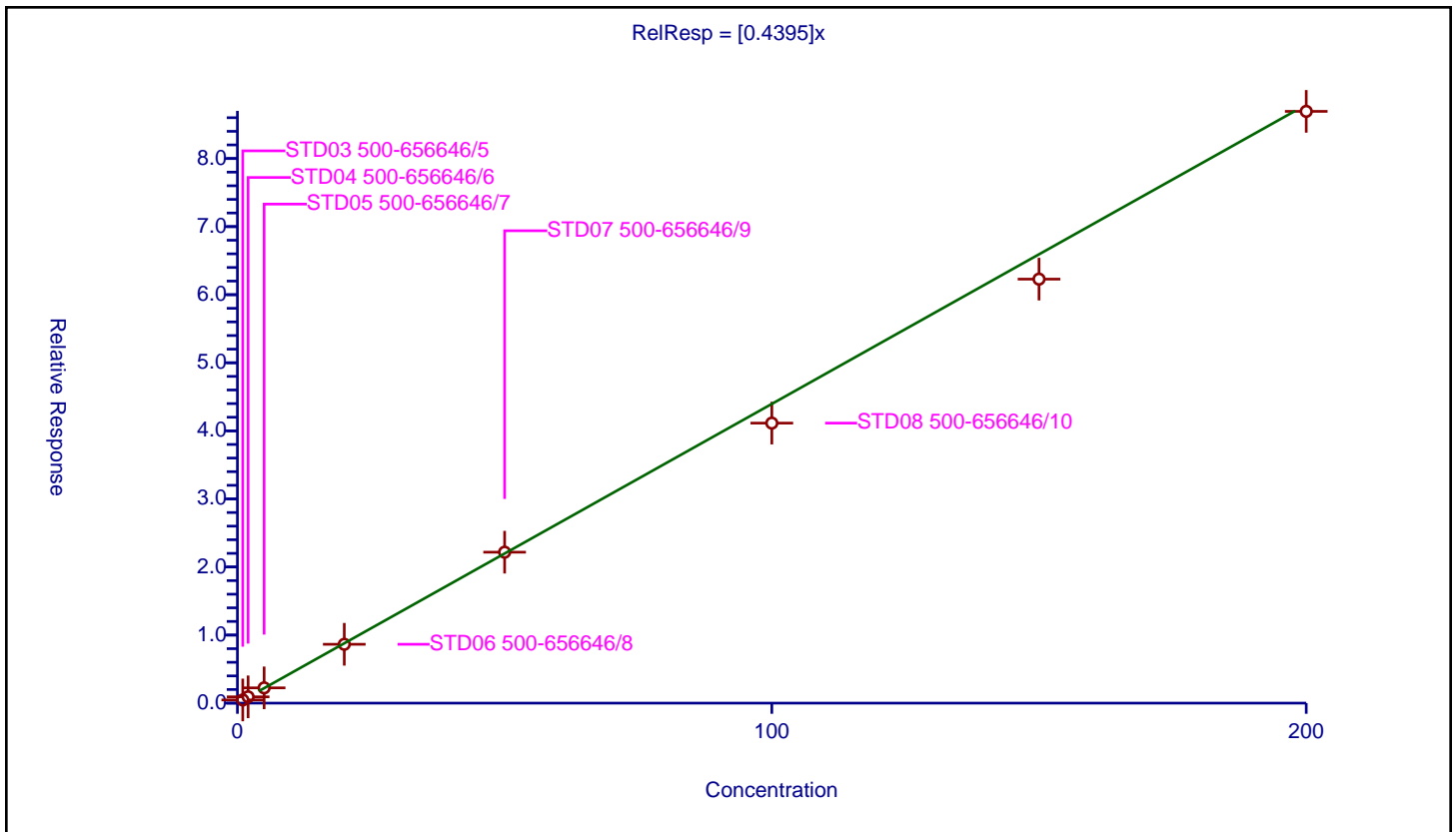
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4395

Error Coefficients	
Standard Error:	352000
Relative Standard Error:	4.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.468312	50.0	381583.0	0.468312	Y
2	STD04 500-656646/6	2.0	0.925388	50.0	368062.0	0.462694	Y
3	STD05 500-656646/7	5.0	2.242252	50.0	368848.0	0.44845	Y
4	STD06 500-656646/8	20.0	8.642965	50.0	368045.0	0.432148	Y
5	STD07 500-656646/9	50.0	22.173679	50.0	348032.0	0.443474	Y
6	STD08 500-656646/10	100.0	41.133278	50.0	366962.0	0.411333	Y
7	STD09 500-656646/11	150.0	62.28554	50.0	424263.0	0.415237	Y
8	STD010 500-656646/12	200.0	86.928085	50.0	394311.0	0.43464	Y



Calibration

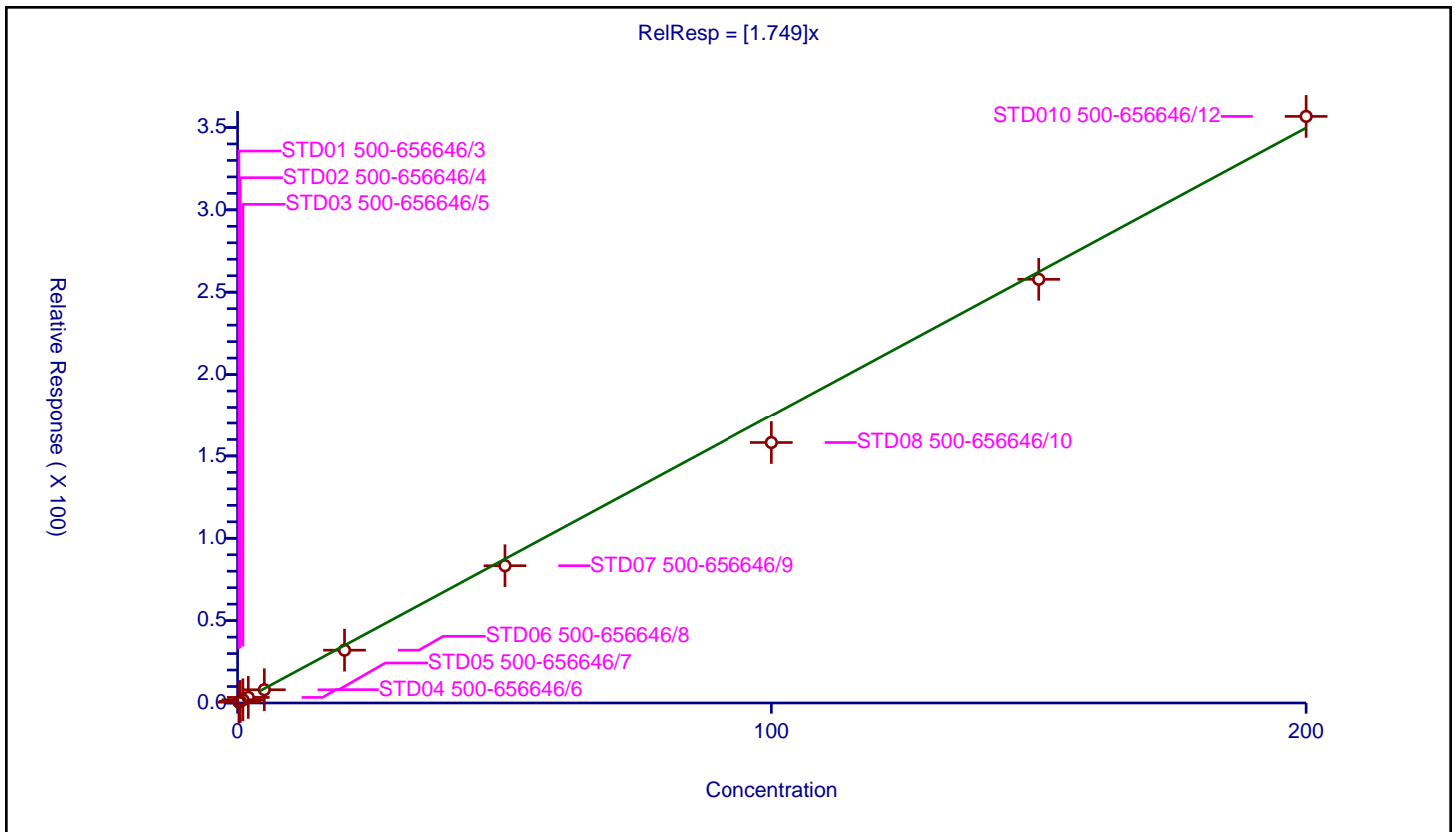
/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.749

Error Coefficients	
Standard Error:	1270000
Relative Standard Error:	8.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.50006	50.0	383054.0	2.00024	Y
2	STD02 500-656646/4	0.5	0.949704	50.0	370589.0	1.899409	Y
3	STD03 500-656646/5	1.0	1.930511	50.0	381583.0	1.930511	Y
4	STD04 500-656646/6	2.0	3.393858	50.0	368062.0	1.696929	Y
5	STD05 500-656646/7	5.0	8.040711	50.0	368848.0	1.608142	Y
6	STD06 500-656646/8	20.0	32.058172	50.0	368045.0	1.602909	Y
7	STD07 500-656646/9	50.0	83.32797	50.0	348032.0	1.666559	Y
8	STD08 500-656646/10	100.0	158.151525	50.0	366962.0	1.581515	Y
9	STD09 500-656646/11	150.0	257.830285	50.0	424263.0	1.718869	Y
10	STD010 500-656646/12	200.0	356.733771	50.0	394311.0	1.783669	Y



Calibration

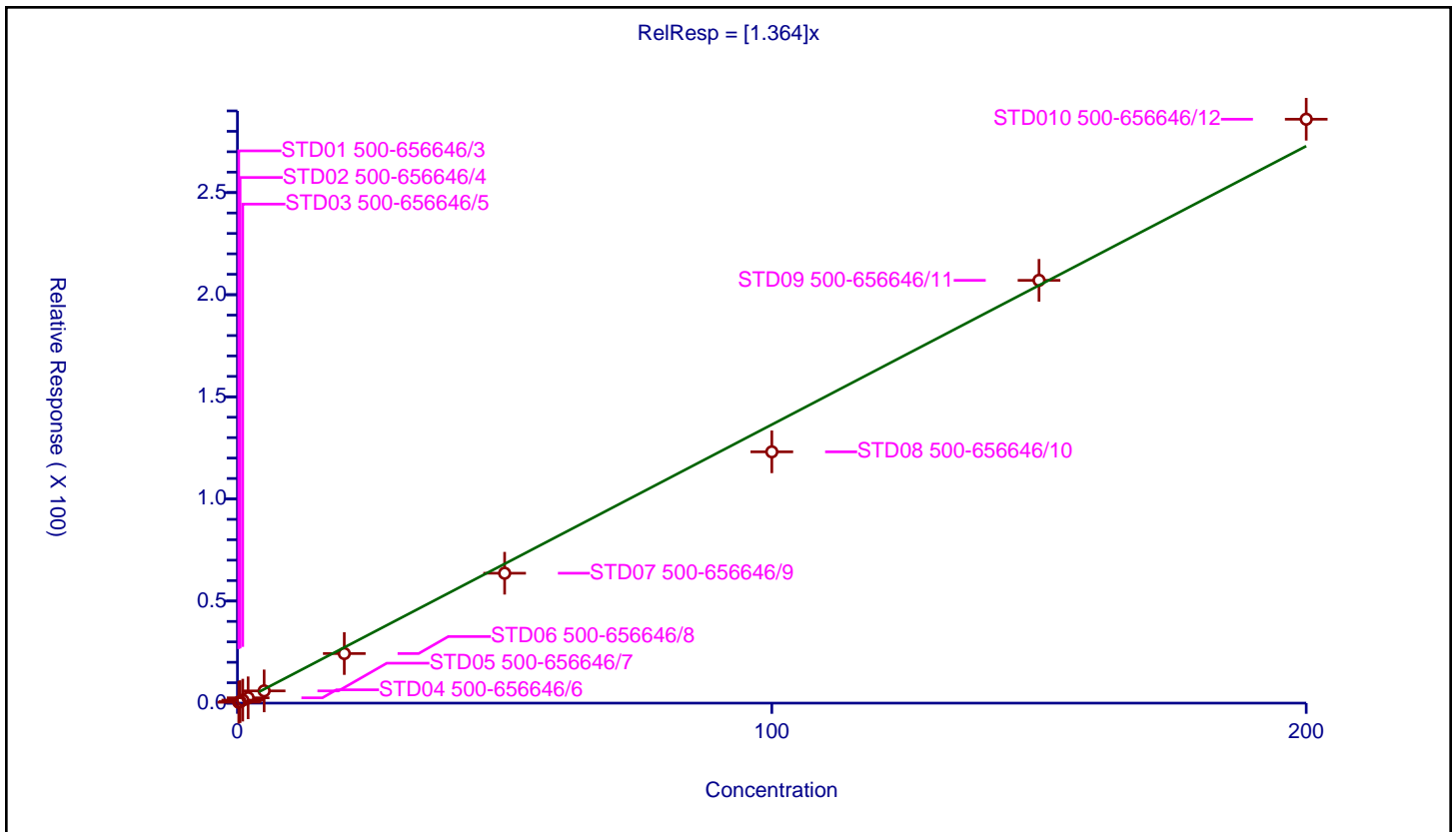
/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.364

Error Coefficients	
Standard Error:	1010000
Relative Standard Error:	11.0
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.419262	50.0	383054.0	1.677048	Y
2	STD02 500-656646/4	0.5	0.733562	50.0	370589.0	1.467124	Y
3	STD03 500-656646/5	1.0	1.467833	50.0	381583.0	1.467833	Y
4	STD04 500-656646/6	2.0	2.60092	50.0	368062.0	1.30046	Y
5	STD05 500-656646/7	5.0	5.997728	50.0	368848.0	1.199546	Y
6	STD06 500-656646/8	20.0	24.270945	50.0	368045.0	1.213547	Y
7	STD07 500-656646/9	50.0	63.609668	50.0	348032.0	1.272193	Y
8	STD08 500-656646/10	100.0	123.051842	50.0	366962.0	1.230518	Y
9	STD09 500-656646/11	150.0	207.022767	50.0	424263.0	1.380152	Y
10	STD010 500-656646/12	200.0	285.923674	50.0	394311.0	1.429618	Y



Calibration

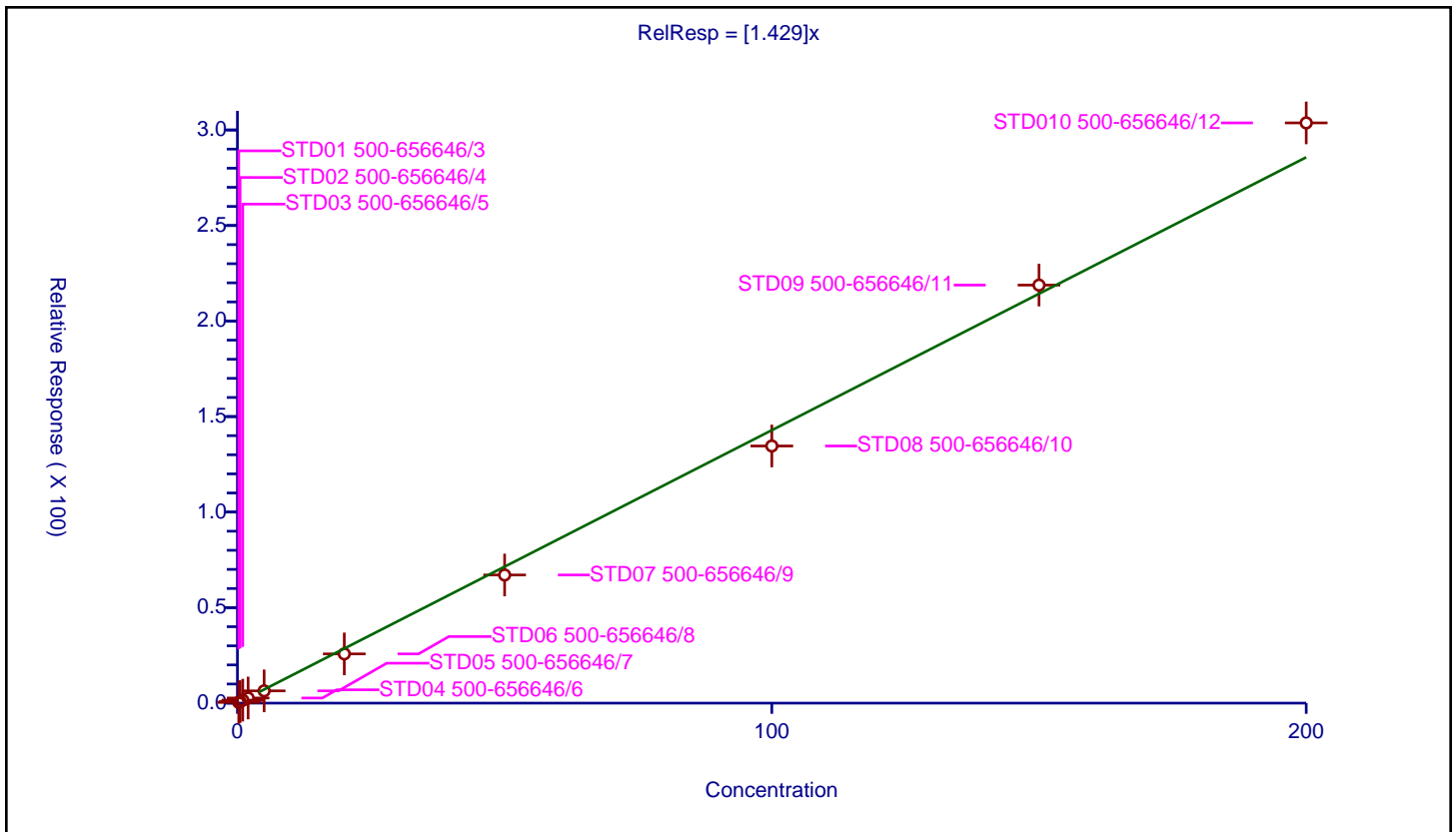
/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.429

Error Coefficients	
Standard Error:	1080000
Relative Standard Error:	8.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-656646/3	0.25	0.384149	50.0	383054.0	1.536598	Y
2	STD02 500-656646/4	0.5	0.808173	50.0	370589.0	1.616346	Y
3	STD03 500-656646/5	1.0	1.553659	50.0	381583.0	1.553659	Y
4	STD04 500-656646/6	2.0	2.682157	50.0	368062.0	1.341078	Y
5	STD05 500-656646/7	5.0	6.420802	50.0	368848.0	1.28416	Y
6	STD06 500-656646/8	20.0	25.776468	50.0	368045.0	1.288823	Y
7	STD07 500-656646/9	50.0	67.078171	50.0	348032.0	1.341563	Y
8	STD08 500-656646/10	100.0	134.593636	50.0	366962.0	1.345936	Y
9	STD09 500-656646/11	150.0	218.805199	50.0	424263.0	1.458701	Y
10	STD010 500-656646/12	200.0	303.708621	50.0	394311.0	1.518543	Y



Calibration

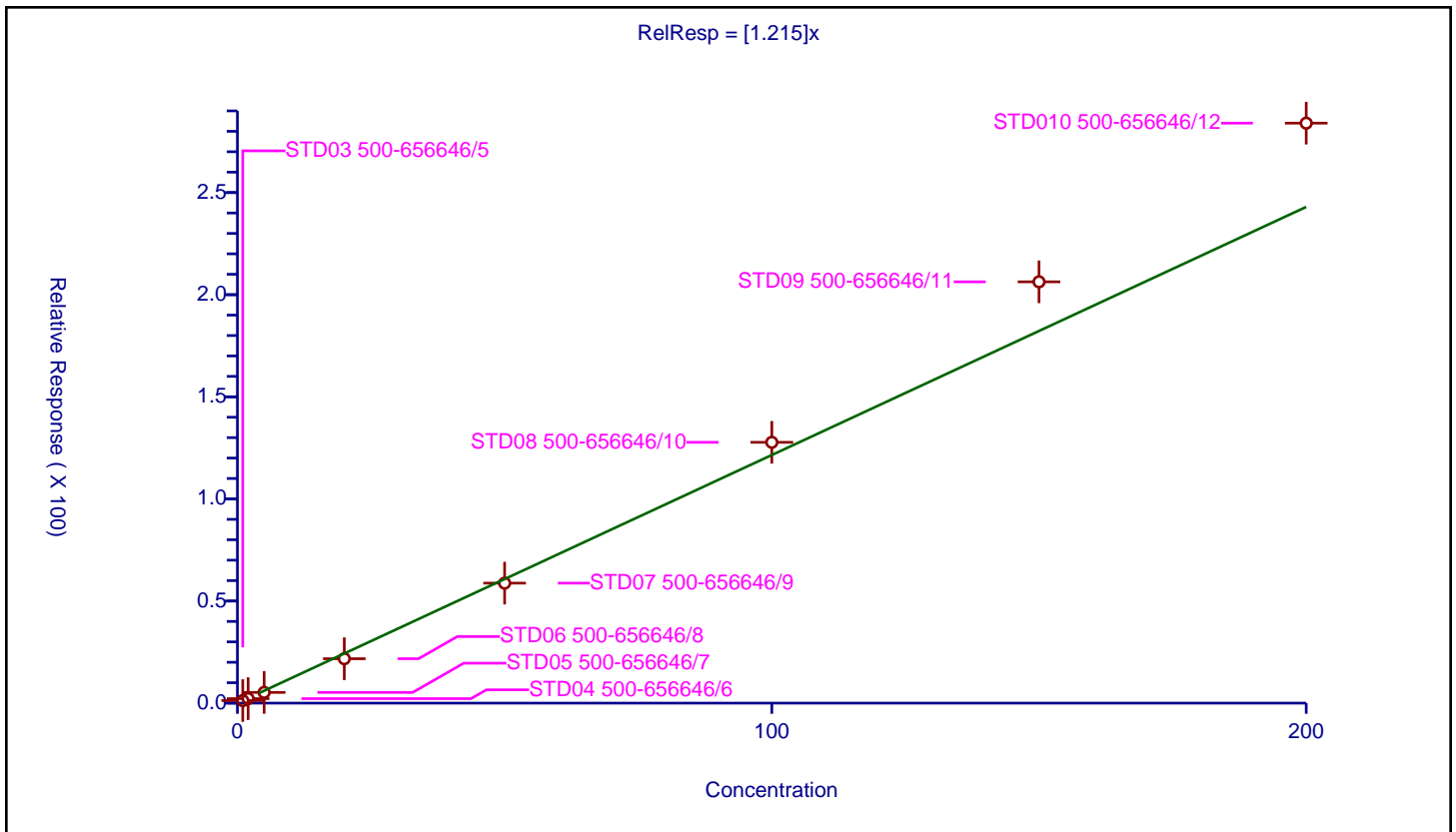
/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.215

Error Coefficients	
Standard Error:	1140000
Relative Standard Error:	11.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.23918	50.0	381583.0	1.23918	Y
2	STD04 500-656646/6	2.0	2.191207	50.0	368062.0	1.095603	Y
3	STD05 500-656646/7	5.0	5.246606	50.0	368848.0	1.049321	Y
4	STD06 500-656646/8	20.0	21.747612	50.0	368045.0	1.087381	Y
5	STD07 500-656646/9	50.0	58.757528	50.0	348032.0	1.175151	Y
6	STD08 500-656646/10	100.0	127.70573	50.0	366962.0	1.277057	Y
7	STD09 500-656646/11	150.0	206.302459	50.0	424263.0	1.37535	Y
8	STD010 500-656646/12	200.0	283.997403	50.0	394311.0	1.419987	Y



Calibration

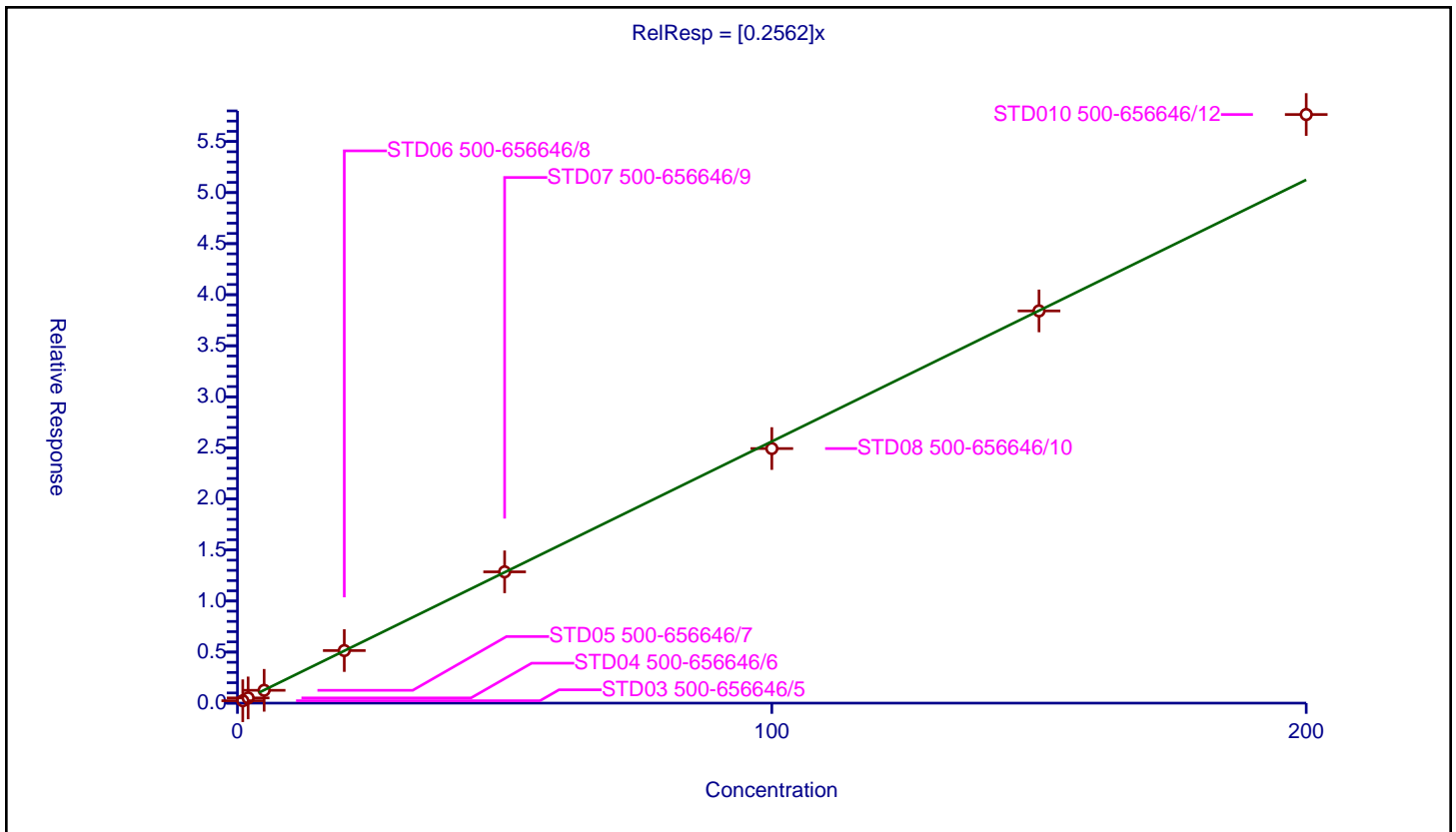
/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2562

Error Coefficients	
Standard Error:	225000
Relative Standard Error:	5.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.235991	50.0	381583.0	0.235991	Y
2	STD04 500-656646/6	2.0	0.509018	50.0	368062.0	0.254509	Y
3	STD05 500-656646/7	5.0	1.256886	50.0	368848.0	0.251377	Y
4	STD06 500-656646/8	20.0	5.146653	50.0	368045.0	0.257333	Y
5	STD07 500-656646/9	50.0	12.857726	50.0	348032.0	0.257155	Y
6	STD08 500-656646/10	100.0	24.931601	50.0	366962.0	0.249316	Y
7	STD09 500-656646/11	150.0	38.411669	50.0	424263.0	0.256078	Y
8	STD010 500-656646/12	200.0	57.645742	50.0	394311.0	0.288229	Y



Calibration

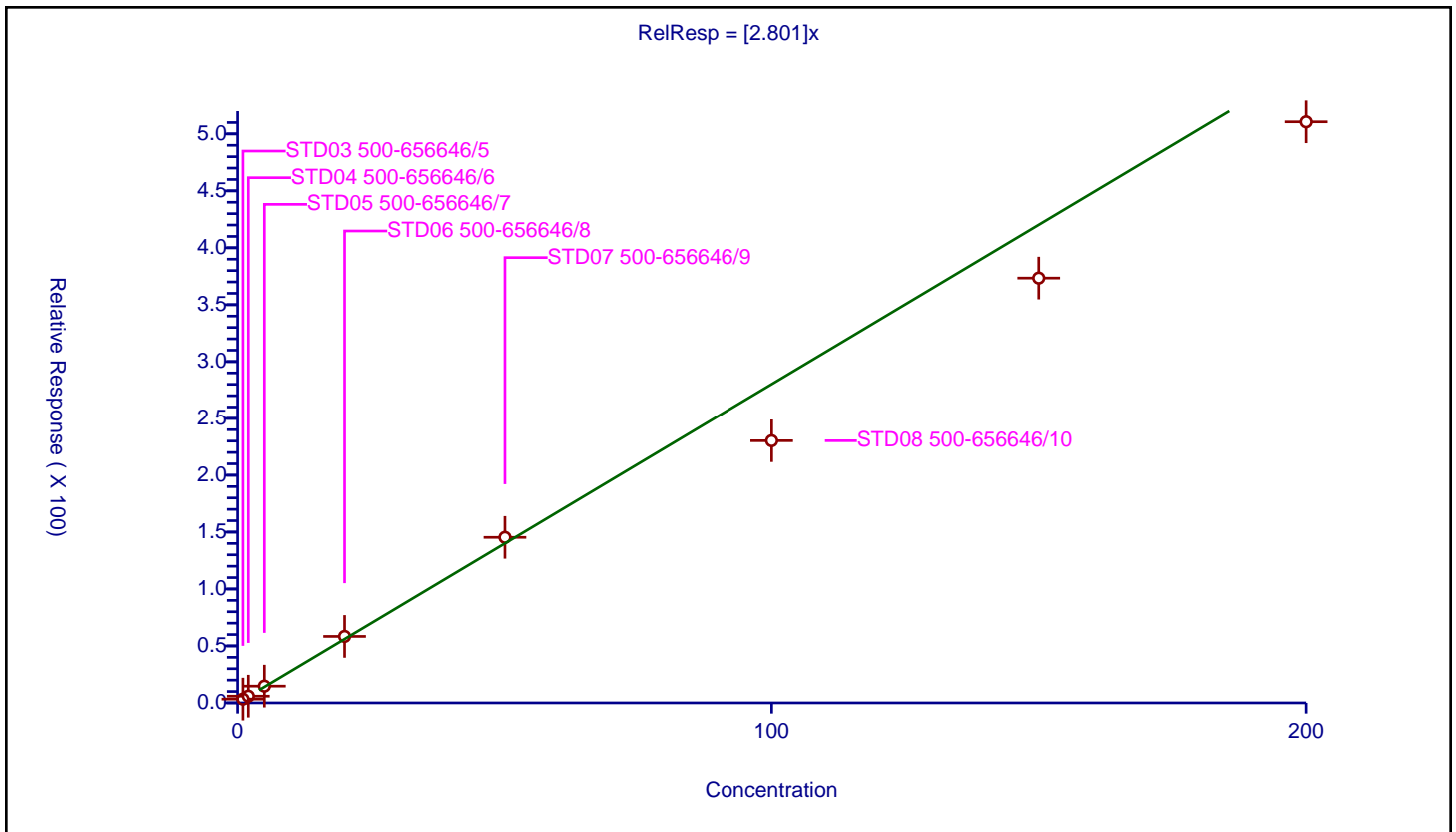
/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.801

Error Coefficients	
Standard Error:	1740000
Relative Standard Error:	11.8
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	3.339404	50.0	225115.0	3.339404	Y
2	STD04 500-656646/6	2.0	5.90776	50.0	223418.0	2.95388	Y
3	STD05 500-656646/7	5.0	14.726269	50.0	215686.0	2.945254	Y
4	STD06 500-656646/8	20.0	58.356545	50.0	222945.0	2.917827	Y
5	STD07 500-656646/9	50.0	145.352933	50.0	223711.0	2.907059	Y
6	STD08 500-656646/10	100.0	230.315047	50.0	296305.0	2.30315	Y
7	STD09 500-656646/11	150.0	373.400208	50.0	357984.0	2.489335	Y
8	STD010 500-656646/12	200.0	510.628307	50.0	335091.0	2.553142	Y



Calibration

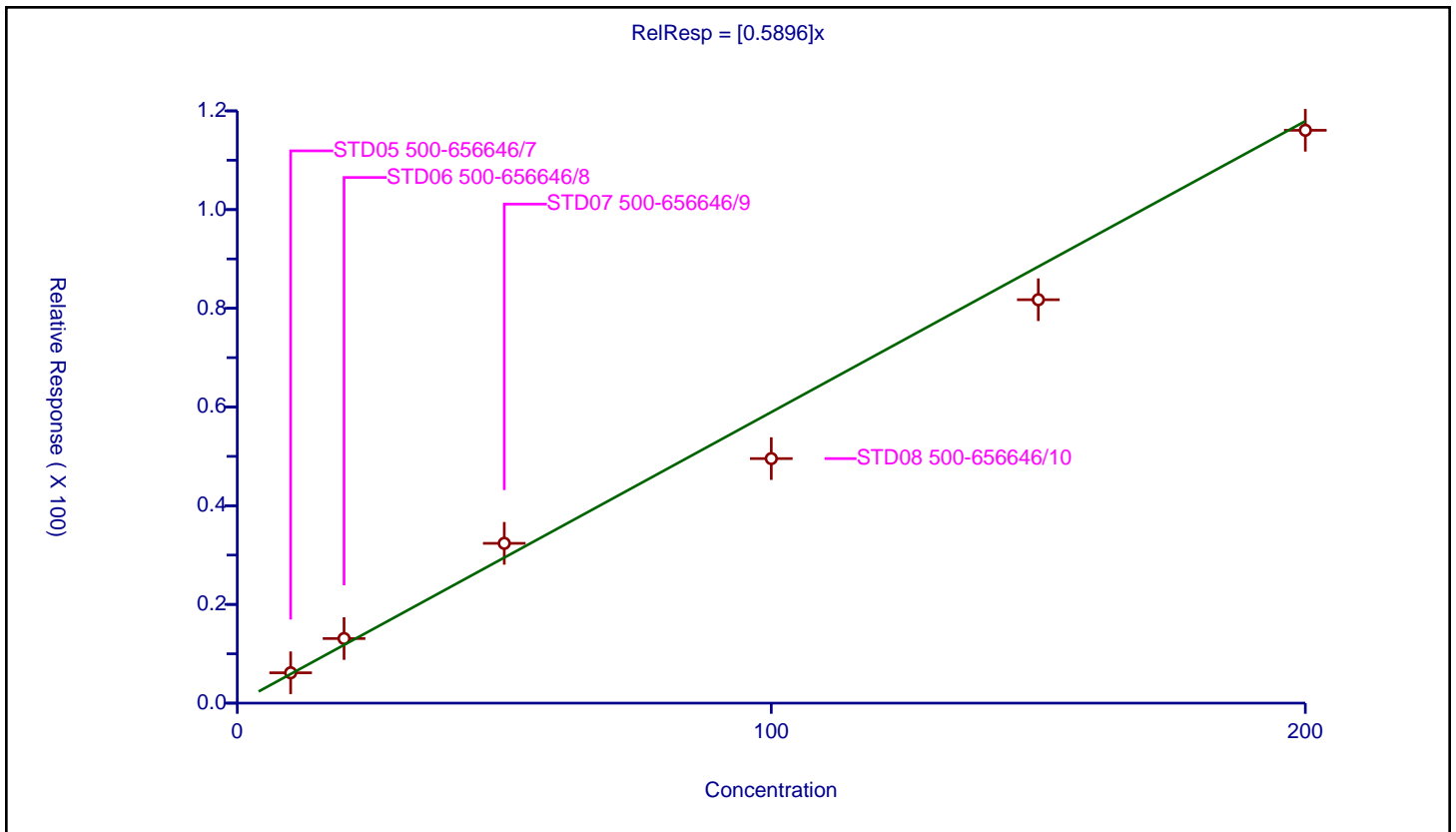
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5896

Error Coefficients	
Standard Error:	460000
Relative Standard Error:	10.5
Correlation Coefficient:	0.986
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 500-656646/7	10.0	6.148985	50.0	215686.0	0.614899	Y
2	STD06 500-656646/8	20.0	13.089776	50.0	222945.0	0.654489	Y
3	STD07 500-656646/9	50.0	32.378158	50.0	223711.0	0.647563	Y
4	STD08 500-656646/10	100.0	49.549282	50.0	296305.0	0.495493	Y
5	STD09 500-656646/11	150.0	81.740804	50.0	357984.0	0.544939	Y
6	STD010 500-656646/12	200.0	116.0725	50.0	335091.0	0.580362	Y



Calibration

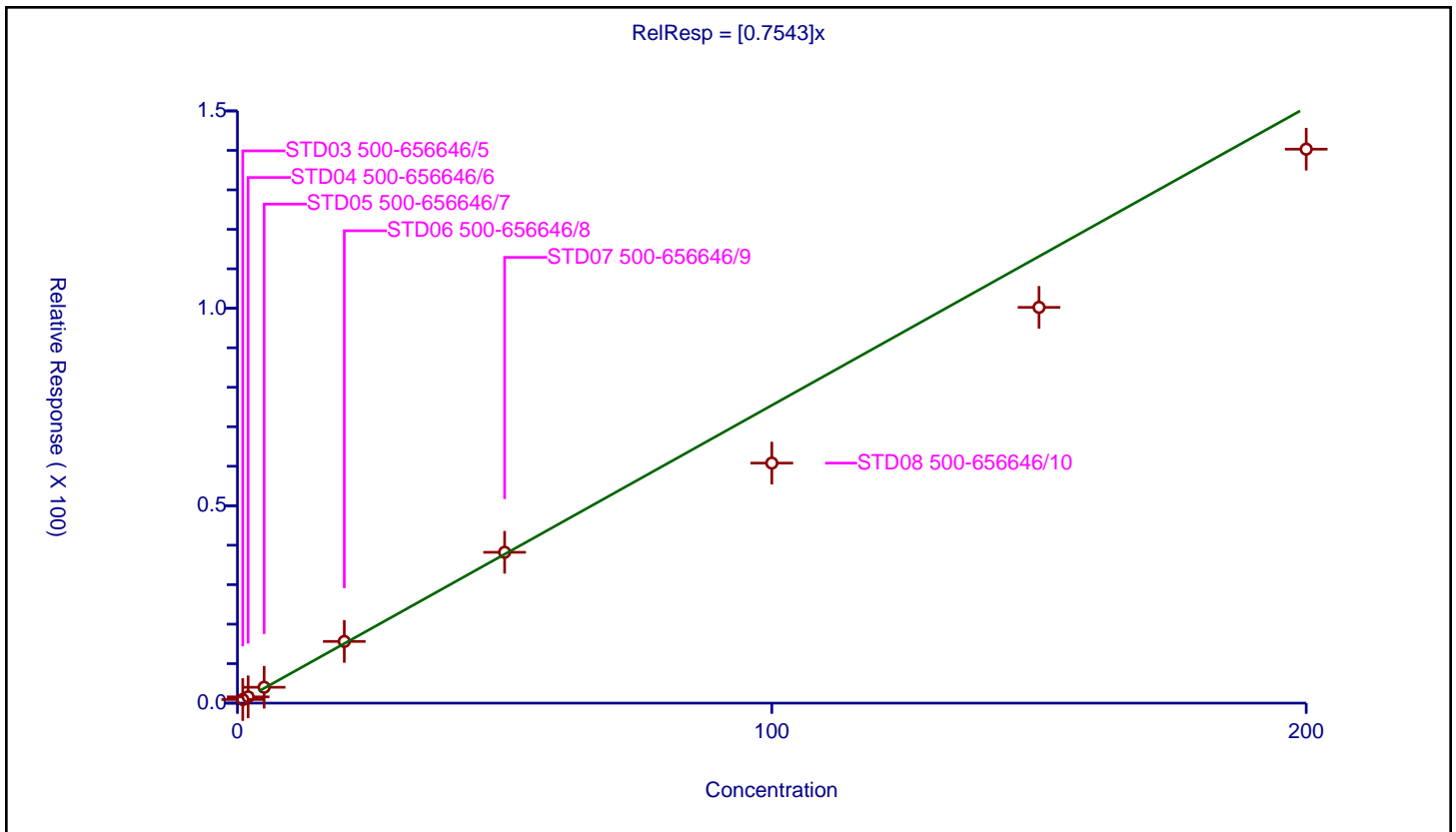
/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7543

Error Coefficients	
Standard Error:	473000
Relative Standard Error:	12.5
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.913977	50.0	225115.0	0.913977	Y
2	STD04 500-656646/6	2.0	1.587831	50.0	223418.0	0.793915	Y
3	STD05 500-656646/7	5.0	4.017414	50.0	215686.0	0.803483	Y
4	STD06 500-656646/8	20.0	15.624257	50.0	222945.0	0.781213	Y
5	STD07 500-656646/9	50.0	38.20733	50.0	223711.0	0.764147	Y
6	STD08 500-656646/10	100.0	60.792089	50.0	296305.0	0.607921	Y
7	STD09 500-656646/11	150.0	100.239396	50.0	357984.0	0.668263	Y
8	STD10 500-656646/12	200.0	140.307409	50.0	335091.0	0.701537	Y



Calibration

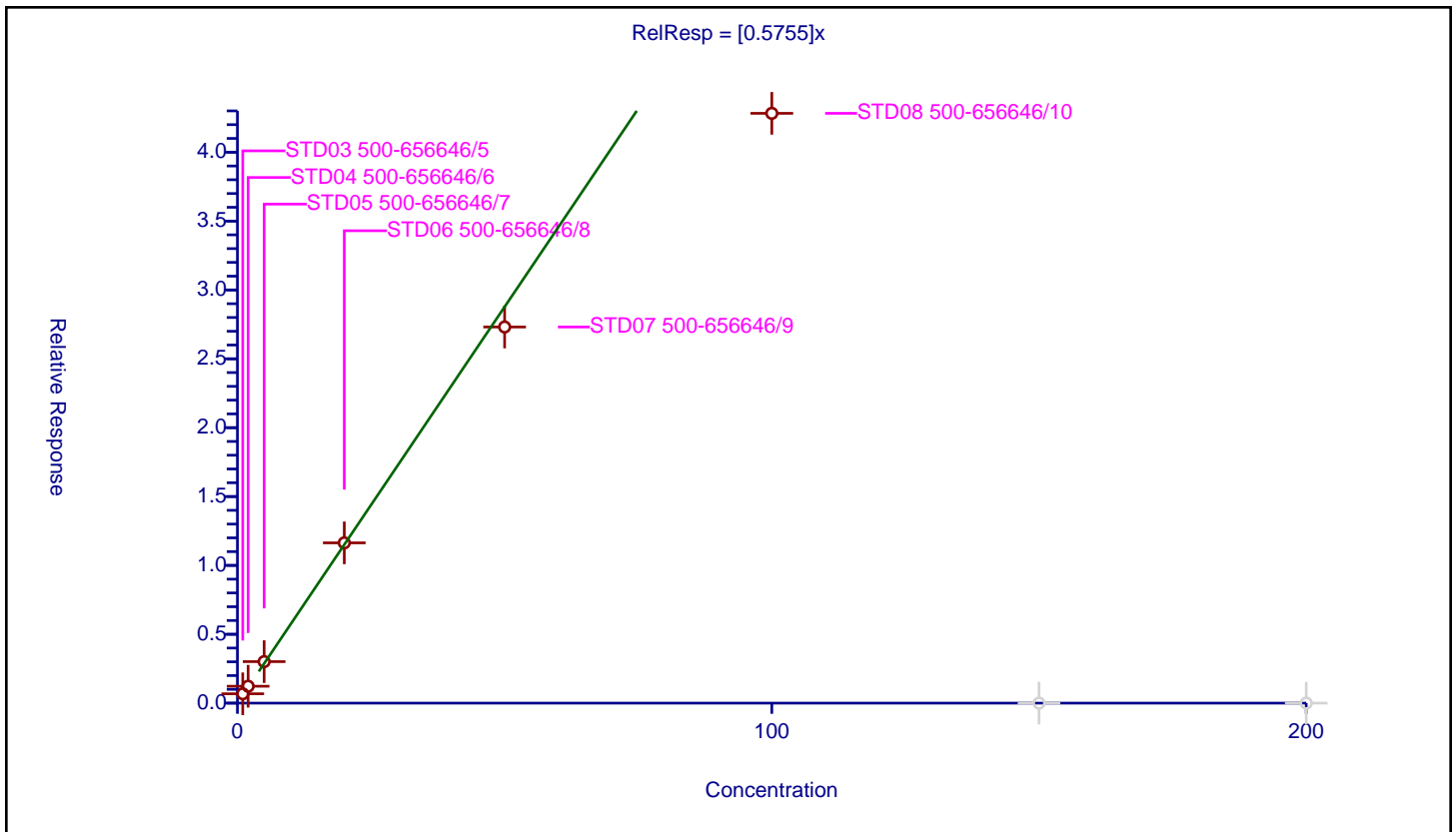
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5755

Error Coefficients	
Standard Error:	128000
Relative Standard Error:	14.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.680097	50.0	225115.0	0.680097	Y
2	STD04 500-656646/6	2.0	1.227296	50.0	223418.0	0.613648	Y
3	STD05 500-656646/7	5.0	3.014336	50.0	215686.0	0.602867	Y
4	STD06 500-656646/8	20.0	11.636502	50.0	222945.0	0.581825	Y
5	STD07 500-656646/9	50.0	27.308671	50.0	223711.0	0.546173	Y
6	STD08 500-656646/10	100.0	42.821923	50.0	296305.0	0.428219	Y
7	STD09 500-656646/11	150.0	0.0	50.0	357984.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	335091.0	0.0	N



Calibration

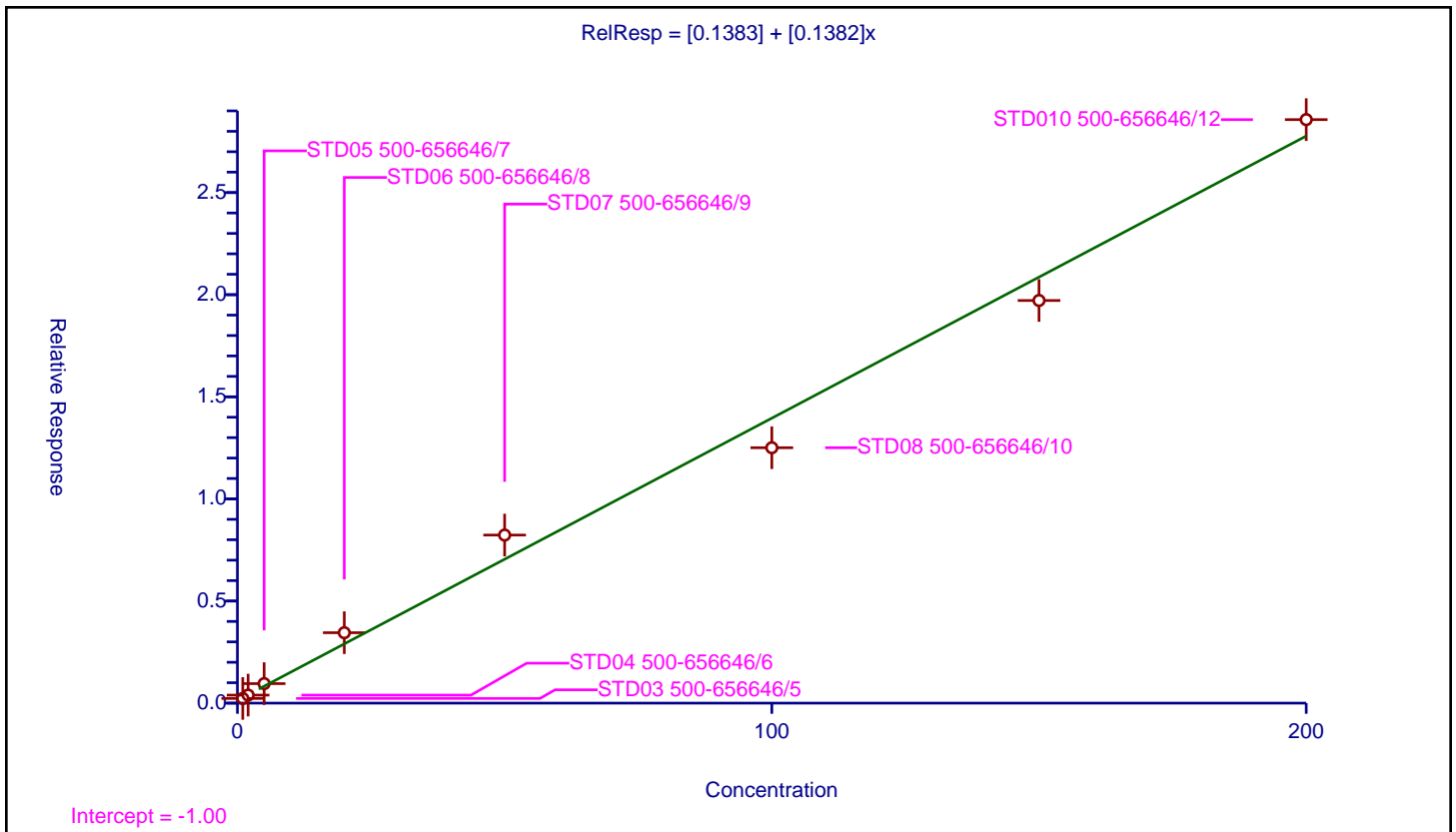
/ 1,2,3-Trichloropropane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1383
Slope:	0.1382

Error Coefficients	
Standard Error:	103000
Relative Standard Error:	20.1
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.228772	50.0	225115.0	0.228772	Y
2	STD04 500-656646/6	2.0	0.393657	50.0	223418.0	0.196828	Y
3	STD05 500-656646/7	5.0	0.955092	50.0	215686.0	0.191018	Y
4	STD06 500-656646/8	20.0	3.448608	50.0	222945.0	0.17243	Y
5	STD07 500-656646/9	50.0	8.229814	50.0	223711.0	0.164596	Y
6	STD08 500-656646/10	100.0	12.505695	50.0	296305.0	0.125057	Y
7	STD09 500-656646/11	150.0	19.716244	50.0	357984.0	0.131442	Y
8	STD10 500-656646/12	200.0	28.572835	50.0	335091.0	0.142864	Y



Calibration

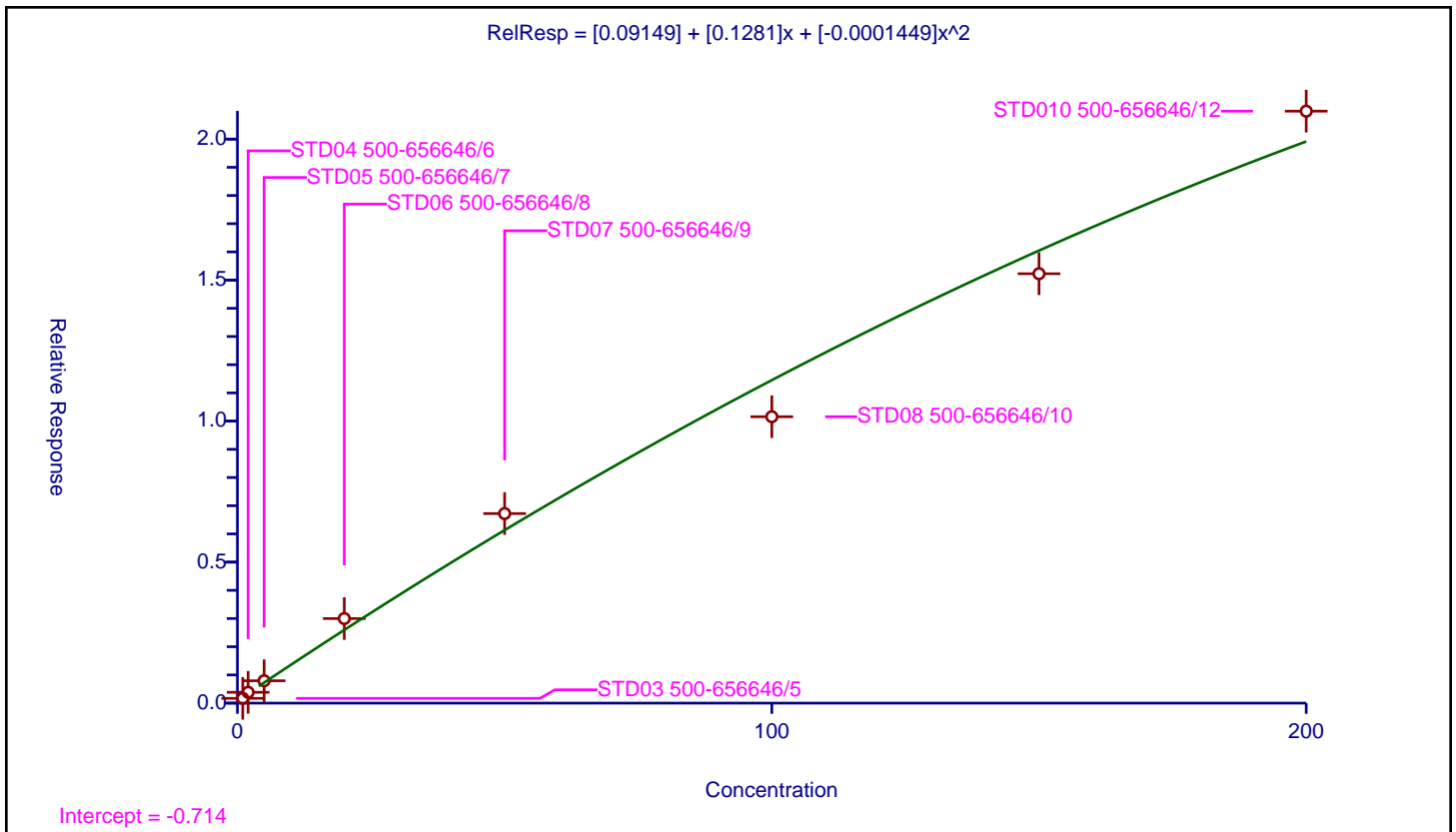
/ trans-1,4-Dichloro-2-butene

Curve Type: Quadratic
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.09149
Slope:	0.1281
Second Order:	-0.0001449

Error Coefficients	
Standard Error:	85300
Relative Standard Error:	22.4
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.169247	50.0	225115.0	0.169247	Y
2	STD04 500-656646/6	2.0	0.384034	50.0	223418.0	0.192017	Y
3	STD05 500-656646/7	5.0	0.792587	50.0	215686.0	0.158517	Y
4	STD06 500-656646/8	20.0	2.99917	50.0	222945.0	0.149959	Y
5	STD07 500-656646/9	50.0	6.721619	50.0	223711.0	0.134432	Y
6	STD08 500-656646/10	100.0	10.155752	50.0	296305.0	0.101558	Y
7	STD09 500-656646/11	150.0	15.226239	50.0	357984.0	0.101508	Y
8	STD010 500-656646/12	200.0	20.990119	50.0	335091.0	0.104951	Y



Calibration

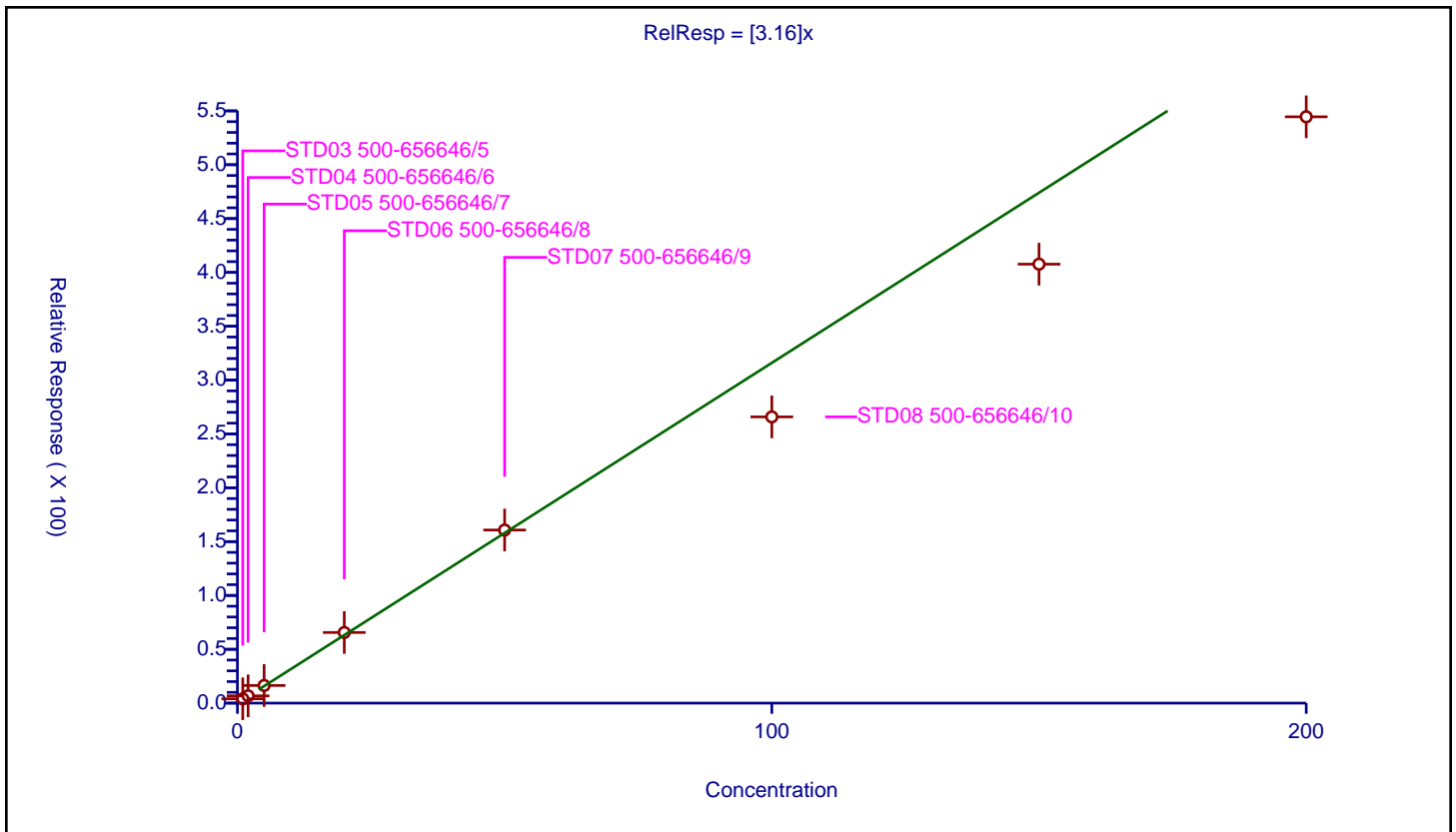
/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.16

Error Coefficients	
Standard Error:	1890000
Relative Standard Error:	14.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	4.023943	50.0	225115.0	4.023943	Y
2	STD04 500-656646/6	2.0	6.770941	50.0	223418.0	3.38547	Y
3	STD05 500-656646/7	5.0	16.374498	50.0	215686.0	3.2749	Y
4	STD06 500-656646/8	20.0	65.60811	50.0	222945.0	3.280405	Y
5	STD07 500-656646/9	50.0	160.750477	50.0	223711.0	3.21501	Y
6	STD08 500-656646/10	100.0	265.832841	50.0	296305.0	2.658328	Y
7	STD09 500-656646/11	150.0	407.648107	50.0	357984.0	2.717654	Y
8	STD010 500-656646/12	200.0	544.516713	50.0	335091.0	2.722584	Y



Calibration

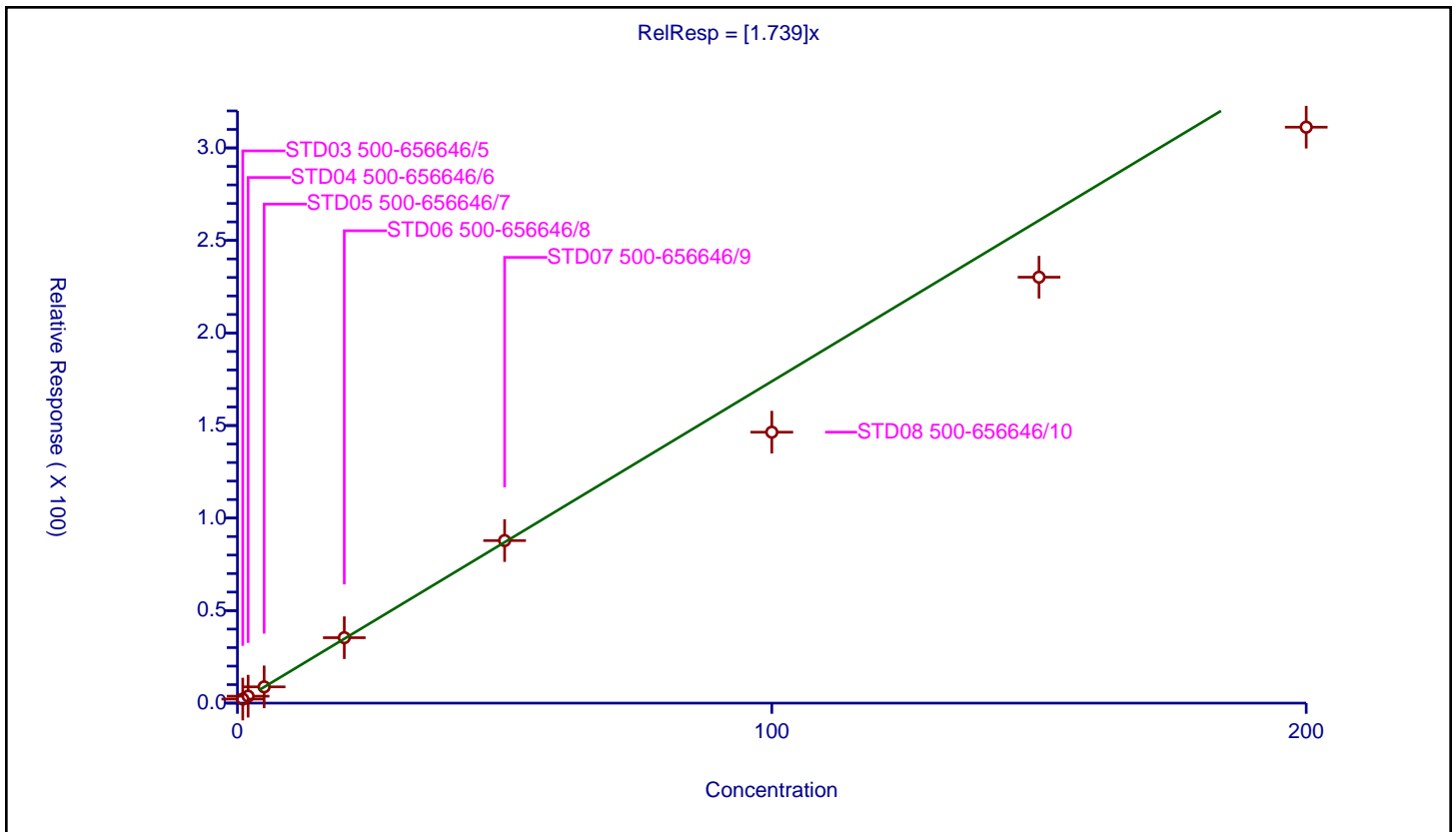
/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.739

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	13.5
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.201541	50.0	225115.0	2.201541	Y
2	STD04 500-656646/6	2.0	3.745893	50.0	223418.0	1.872947	Y
3	STD05 500-656646/7	5.0	8.779661	50.0	215686.0	1.755932	Y
4	STD06 500-656646/8	20.0	35.353563	50.0	222945.0	1.767678	Y
5	STD07 500-656646/9	50.0	87.834304	50.0	223711.0	1.756686	Y
6	STD08 500-656646/10	100.0	146.402018	50.0	296305.0	1.46402	Y
7	STD09 500-656646/11	150.0	230.149252	50.0	357984.0	1.534328	Y
8	STD010 500-656646/12	200.0	311.200987	50.0	335091.0	1.556005	Y



Calibration

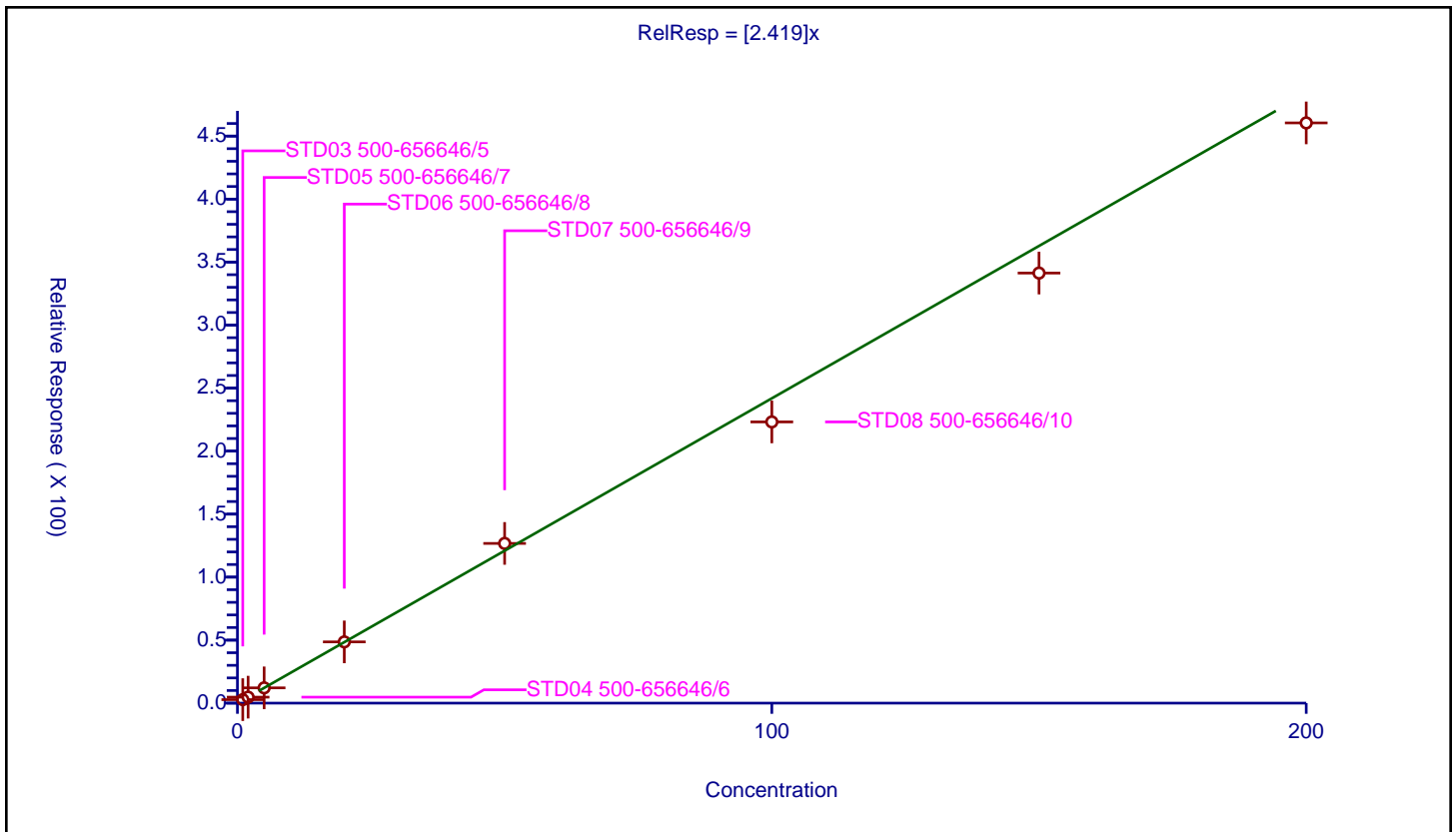
/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.419

Error Coefficients	
Standard Error:	1590000
Relative Standard Error:	7.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.782578	50.0	225115.0	2.782578	Y
2	STD04 500-656646/6	2.0	4.736637	50.0	223418.0	2.368319	Y
3	STD05 500-656646/7	5.0	12.126656	50.0	215686.0	2.425331	Y
4	STD06 500-656646/8	20.0	48.59943	50.0	222945.0	2.429972	Y
5	STD07 500-656646/9	50.0	126.741421	50.0	223711.0	2.534828	Y
6	STD08 500-656646/10	100.0	223.169201	50.0	296305.0	2.231692	Y
7	STD09 500-656646/11	150.0	341.292488	50.0	357984.0	2.275283	Y
8	STD010 500-656646/12	200.0	460.460144	50.0	335091.0	2.302301	Y



Calibration

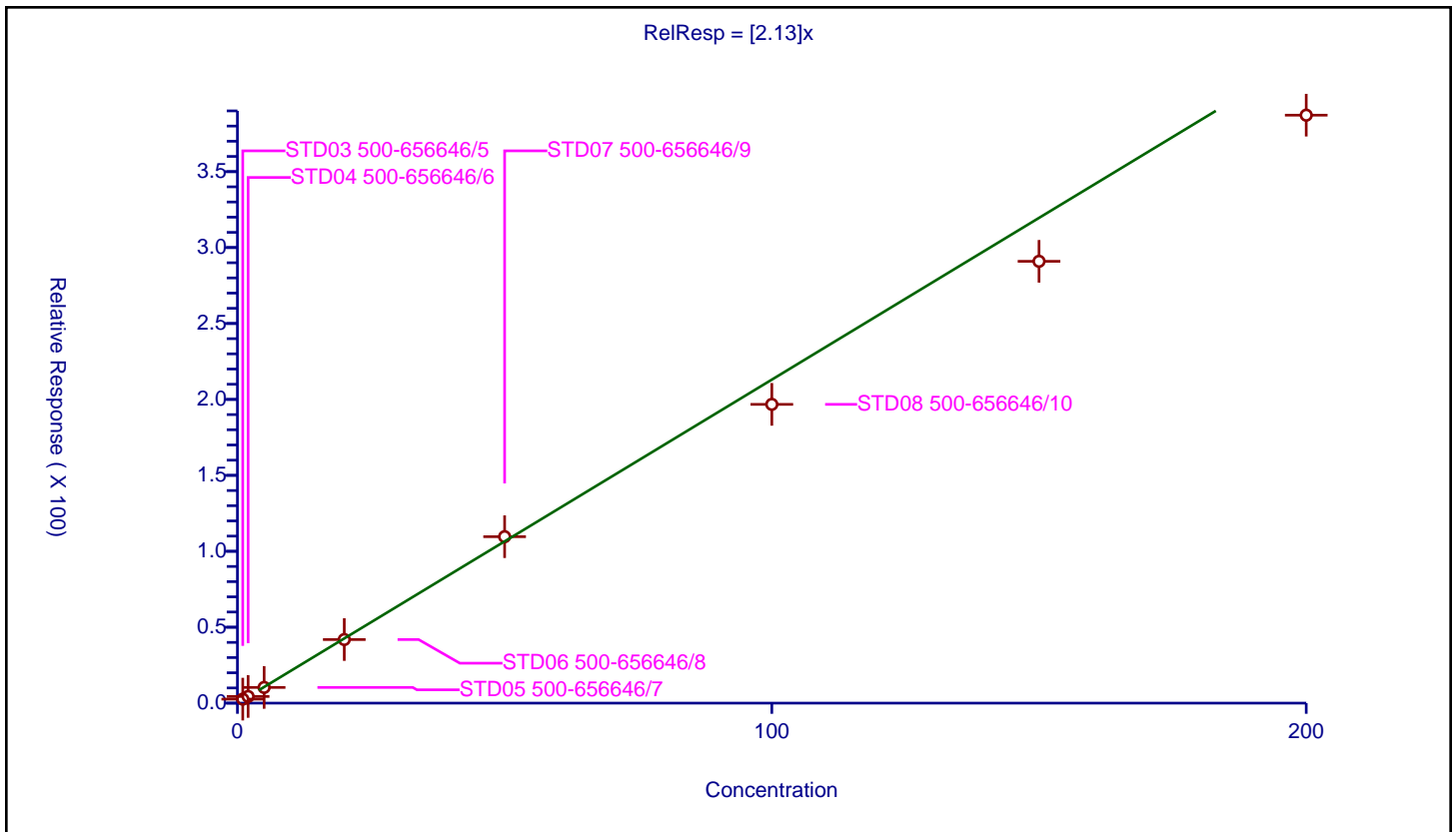
/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.13

Error Coefficients	
Standard Error:	1350000
Relative Standard Error:	10.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.645981	50.0	225115.0	2.645981	Y
2	STD04 500-656646/6	2.0	4.395349	50.0	223418.0	2.197674	Y
3	STD05 500-656646/7	5.0	10.343972	50.0	215686.0	2.068794	Y
4	STD06 500-656646/8	20.0	41.881406	50.0	222945.0	2.09407	Y
5	STD07 500-656646/9	50.0	109.605026	50.0	223711.0	2.192101	Y
6	STD08 500-656646/10	100.0	196.735627	50.0	296305.0	1.967356	Y
7	STD09 500-656646/11	150.0	290.945964	50.0	357984.0	1.93964	Y
8	STD10 500-656646/12	200.0	387.169754	50.0	335091.0	1.935849	Y



Calibration

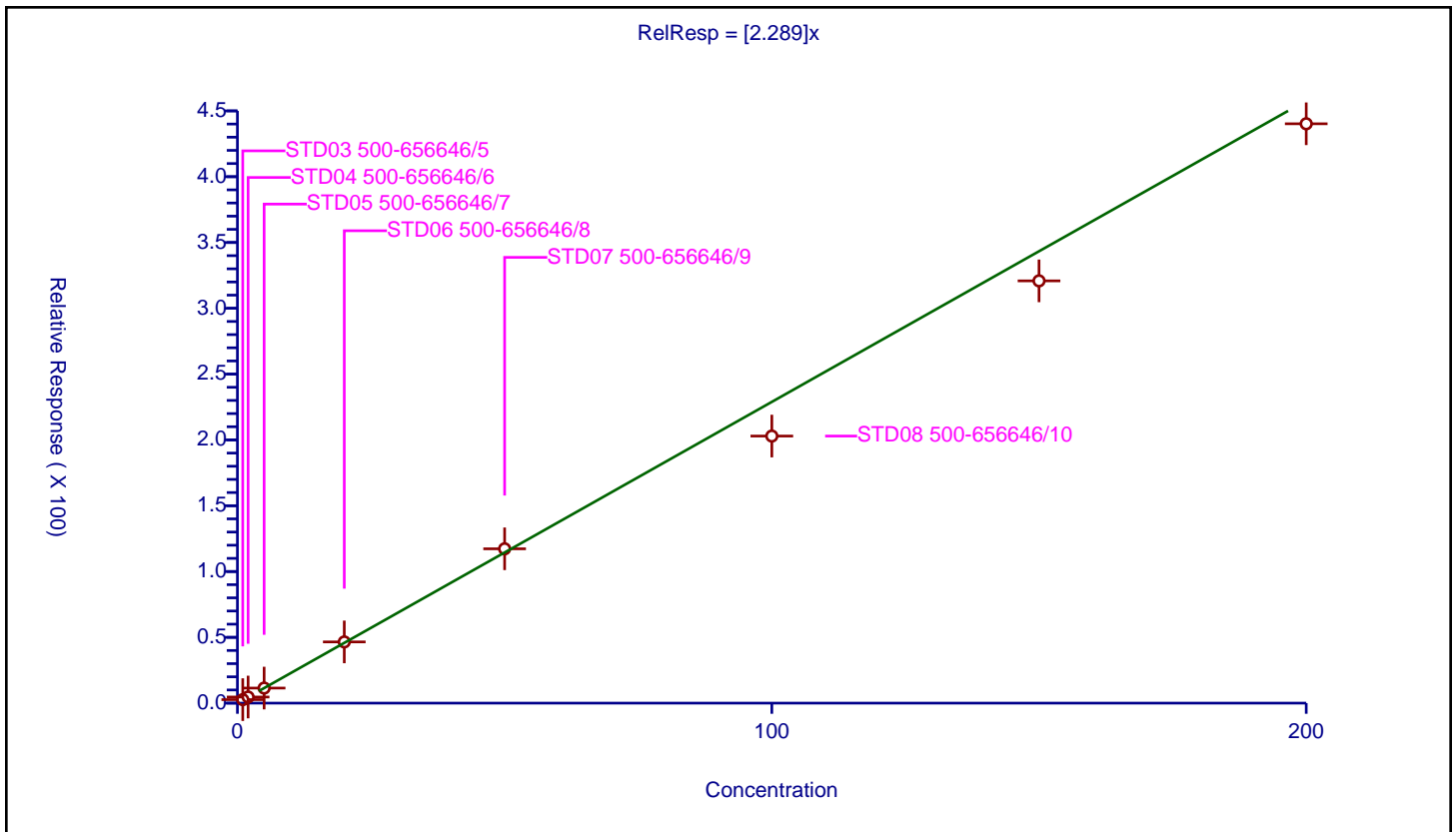
/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.289

Error Coefficients	
Standard Error:	1500000
Relative Standard Error:	8.1
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.65953	50.0	225115.0	2.65953	Y
2	STD04 500-656646/6	2.0	4.6413	50.0	223418.0	2.32065	Y
3	STD05 500-656646/7	5.0	11.450905	50.0	215686.0	2.290181	Y
4	STD06 500-656646/8	20.0	46.520442	50.0	222945.0	2.326022	Y
5	STD07 500-656646/9	50.0	117.258204	50.0	223711.0	2.345164	Y
6	STD08 500-656646/10	100.0	202.92722	50.0	296305.0	2.029272	Y
7	STD09 500-656646/11	150.0	320.838082	50.0	357984.0	2.138921	Y
8	STD010 500-656646/12	200.0	440.207884	50.0	335091.0	2.201039	Y



Calibration

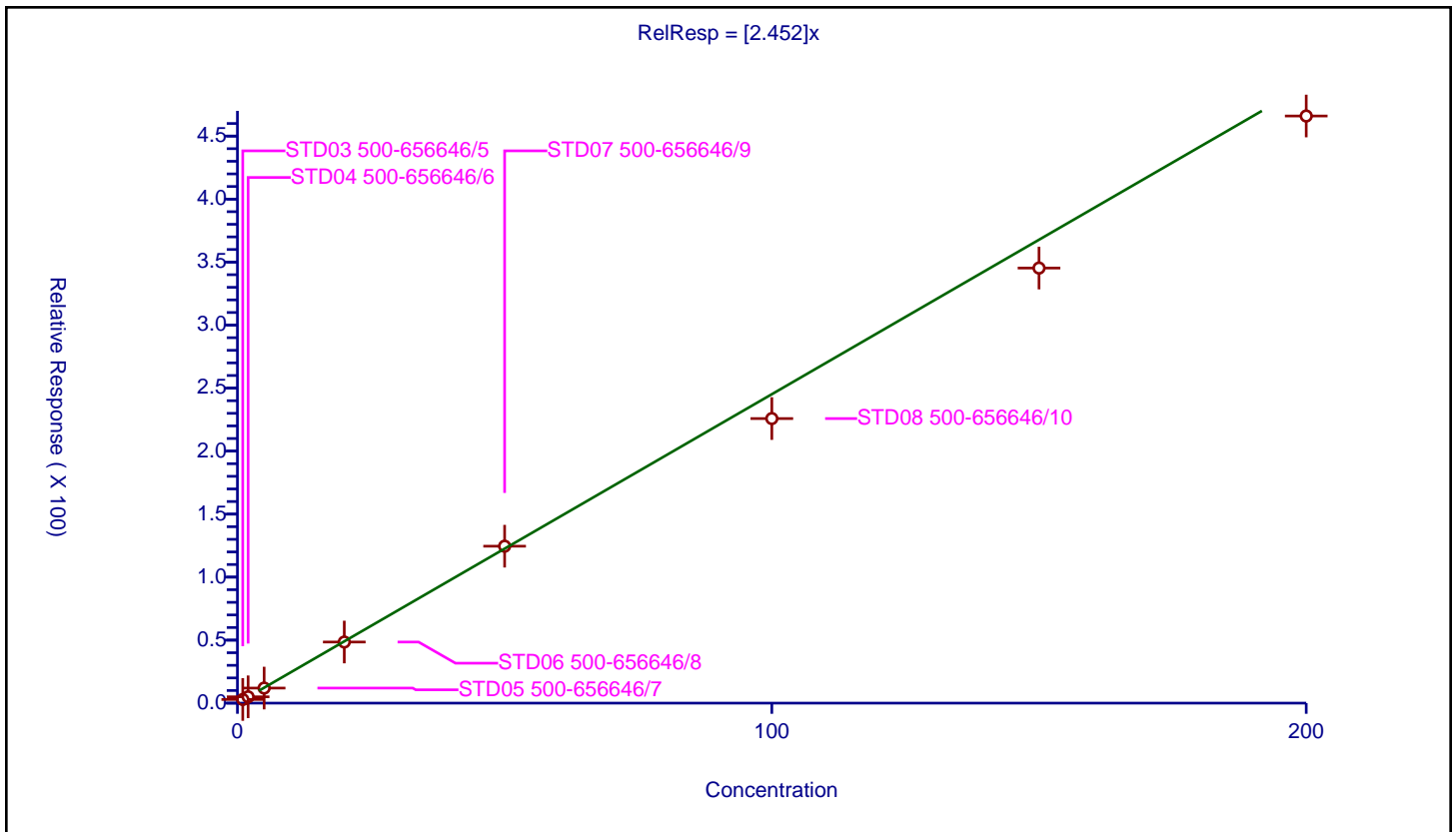
/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.452

Error Coefficients	
Standard Error:	1600000
Relative Standard Error:	8.4
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.911845	50.0	225115.0	2.911845	Y
2	STD04 500-656646/6	2.0	5.00922	50.0	223418.0	2.50461	Y
3	STD05 500-656646/7	5.0	11.955574	50.0	215686.0	2.391115	Y
4	STD06 500-656646/8	20.0	48.488641	50.0	222945.0	2.424432	Y
5	STD07 500-656646/9	50.0	124.547072	50.0	223711.0	2.490941	Y
6	STD08 500-656646/10	100.0	225.831997	50.0	296305.0	2.25832	Y
7	STD09 500-656646/11	150.0	345.270738	50.0	357984.0	2.301805	Y
8	STD010 500-656646/12	200.0	465.93597	50.0	335091.0	2.32968	Y



Calibration

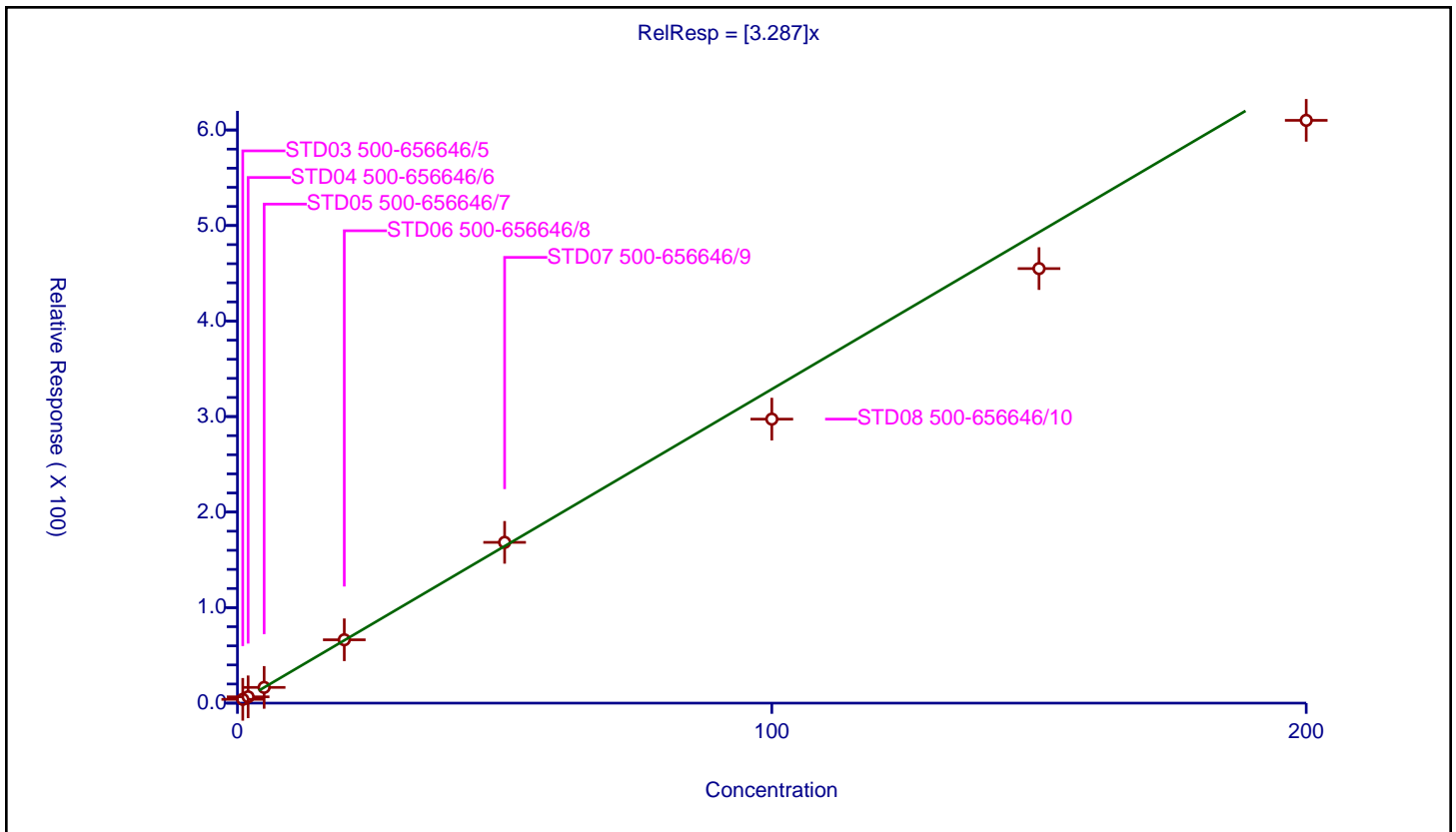
/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.287

Error Coefficients	
Standard Error:	2110000
Relative Standard Error:	9.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	3.959976	50.0	225115.0	3.959976	Y
2	STD04 500-656646/6	2.0	6.601527	50.0	223418.0	3.300764	Y
3	STD05 500-656646/7	5.0	16.463516	50.0	215686.0	3.292703	Y
4	STD06 500-656646/8	20.0	66.322636	50.0	222945.0	3.316132	Y
5	STD07 500-656646/9	50.0	168.315595	50.0	223711.0	3.366312	Y
6	STD08 500-656646/10	100.0	297.326741	50.0	296305.0	2.973267	Y
7	STD09 500-656646/11	150.0	454.907063	50.0	357984.0	3.032714	Y
8	STD010 500-656646/12	200.0	610.110686	50.0	335091.0	3.050553	Y



Calibration

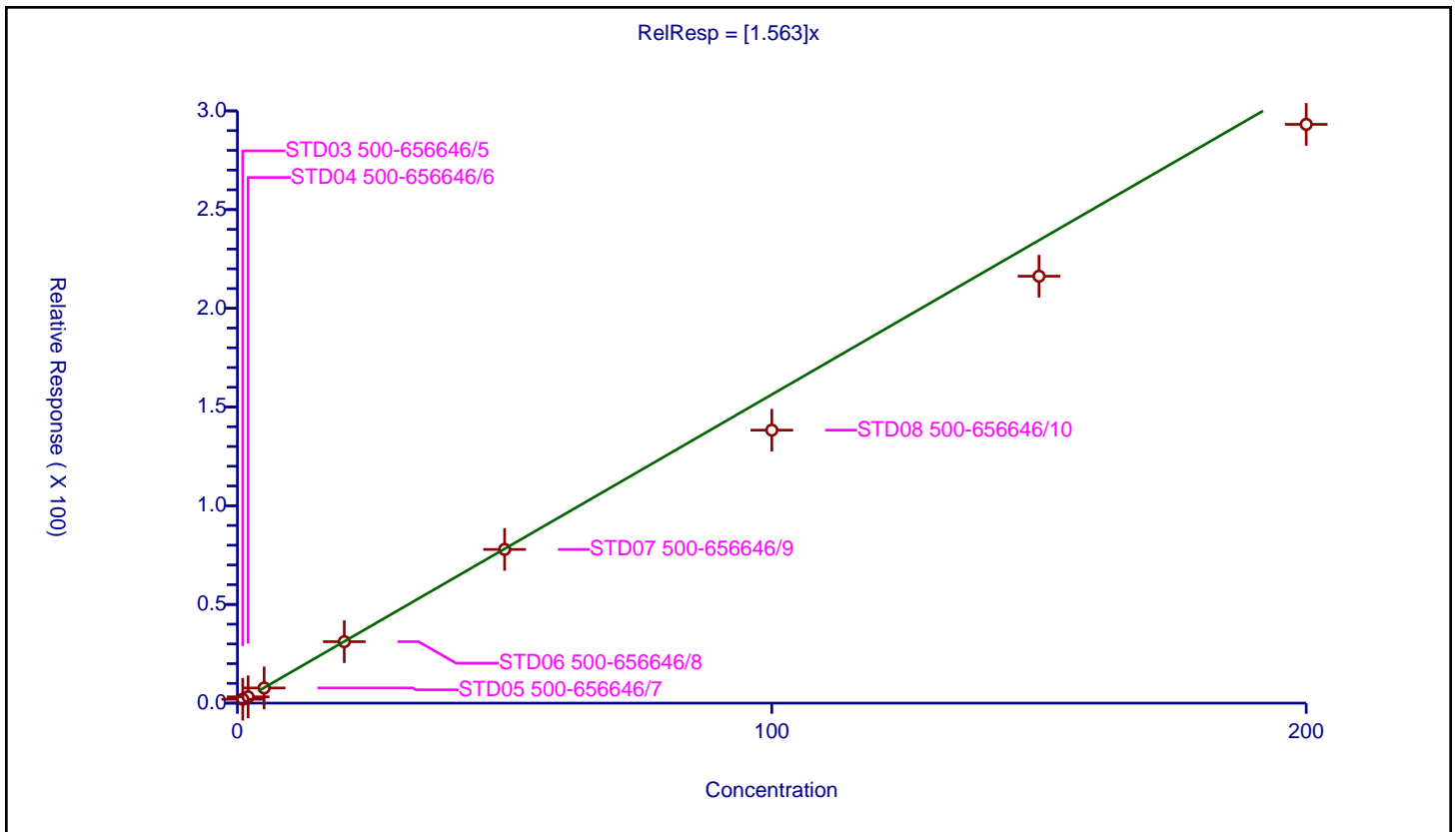
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.563

Error Coefficients	
Standard Error:	1000000
Relative Standard Error:	11.4
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.967661	50.0	225115.0	1.967661	Y
2	STD04 500-656646/6	2.0	3.193565	50.0	223418.0	1.596783	Y
3	STD05 500-656646/7	5.0	7.68061	50.0	215686.0	1.536122	Y
4	STD06 500-656646/8	20.0	31.136379	50.0	222945.0	1.556819	Y
5	STD07 500-656646/9	50.0	77.858264	50.0	223711.0	1.557165	Y
6	STD08 500-656646/10	100.0	138.271207	50.0	296305.0	1.382712	Y
7	STD09 500-656646/11	150.0	216.253799	50.0	357984.0	1.441692	Y
8	STD010 500-656646/12	200.0	293.179465	50.0	335091.0	1.465897	Y



Calibration

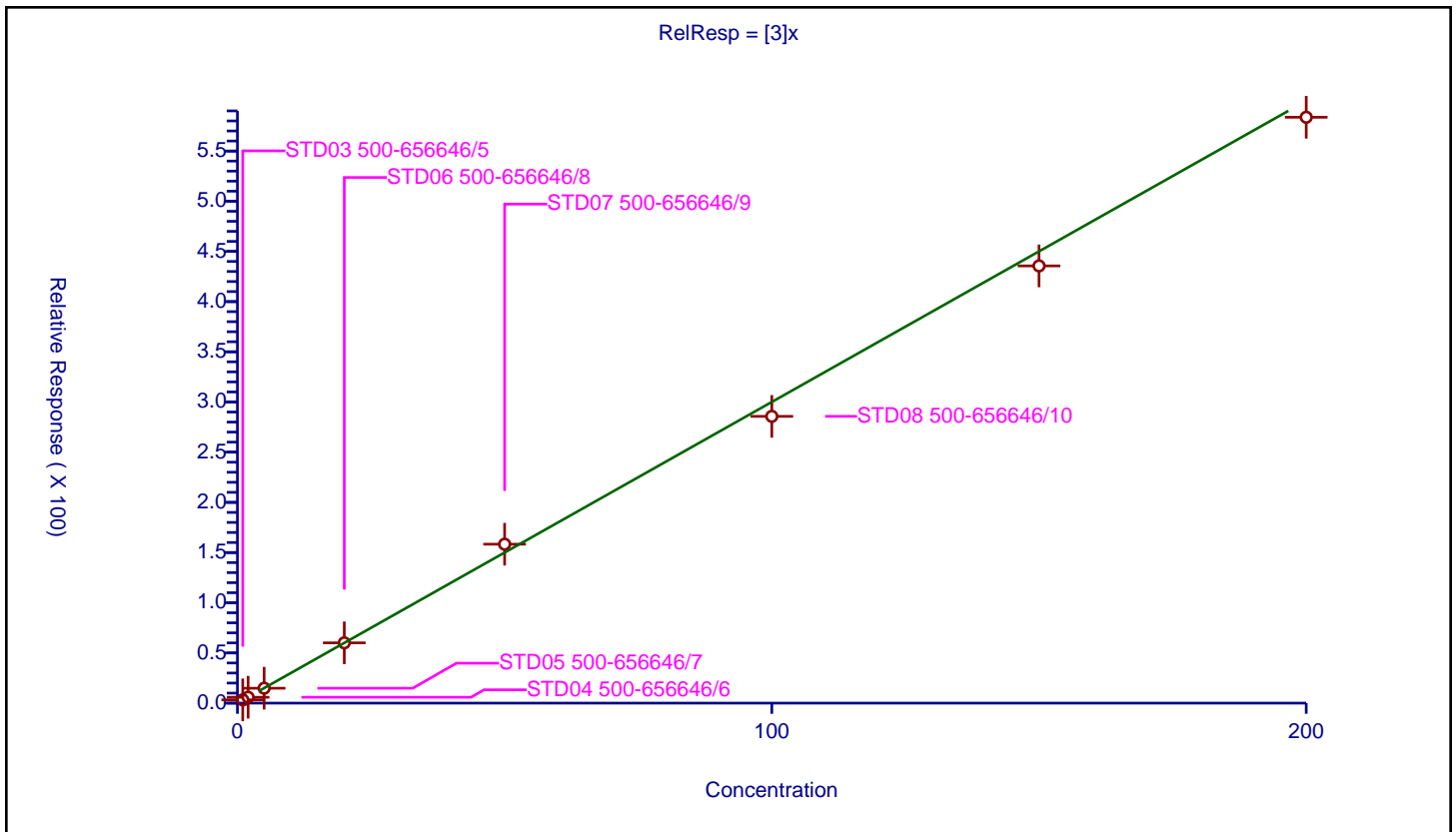
/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3

Error Coefficients	
Standard Error:	2020000
Relative Standard Error:	4.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	3.261888	50.0	225115.0	3.261888	Y
2	STD04 500-656646/6	2.0	5.845098	50.0	223418.0	2.922549	Y
3	STD05 500-656646/7	5.0	14.847278	50.0	215686.0	2.969456	Y
4	STD06 500-656646/8	20.0	60.047994	50.0	222945.0	3.0024	Y
5	STD07 500-656646/9	50.0	158.322568	50.0	223711.0	3.166451	Y
6	STD08 500-656646/10	100.0	285.68637	50.0	296305.0	2.856864	Y
7	STD09 500-656646/11	150.0	435.571283	50.0	357984.0	2.903809	Y
8	STD010 500-656646/12	200.0	583.660707	50.0	335091.0	2.918304	Y



Calibration

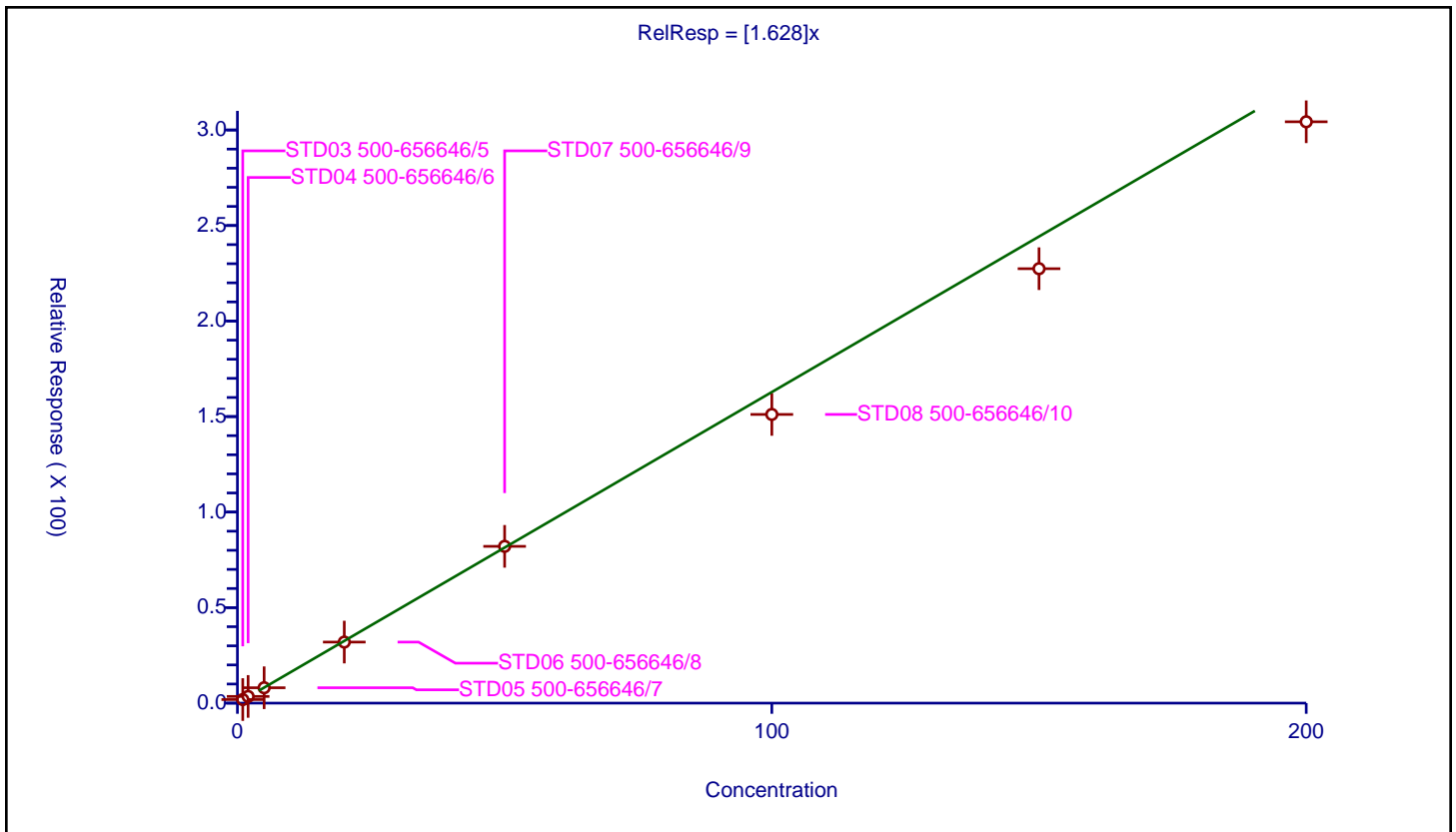
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.628

Error Coefficients	
Standard Error:	1050000
Relative Standard Error:	7.8
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.87171	50.0	225115.0	1.87171	Y
2	STD04 500-656646/6	2.0	3.508894	50.0	223418.0	1.754447	Y
3	STD05 500-656646/7	5.0	8.057315	50.0	215686.0	1.611463	Y
4	STD06 500-656646/8	20.0	31.960573	50.0	222945.0	1.598029	Y
5	STD07 500-656646/9	50.0	82.068606	50.0	223711.0	1.641372	Y
6	STD08 500-656646/10	100.0	151.115067	50.0	296305.0	1.511151	Y
7	STD09 500-656646/11	150.0	227.393124	50.0	357984.0	1.515954	Y
8	STD010 500-656646/12	200.0	304.297639	50.0	335091.0	1.521488	Y



Calibration

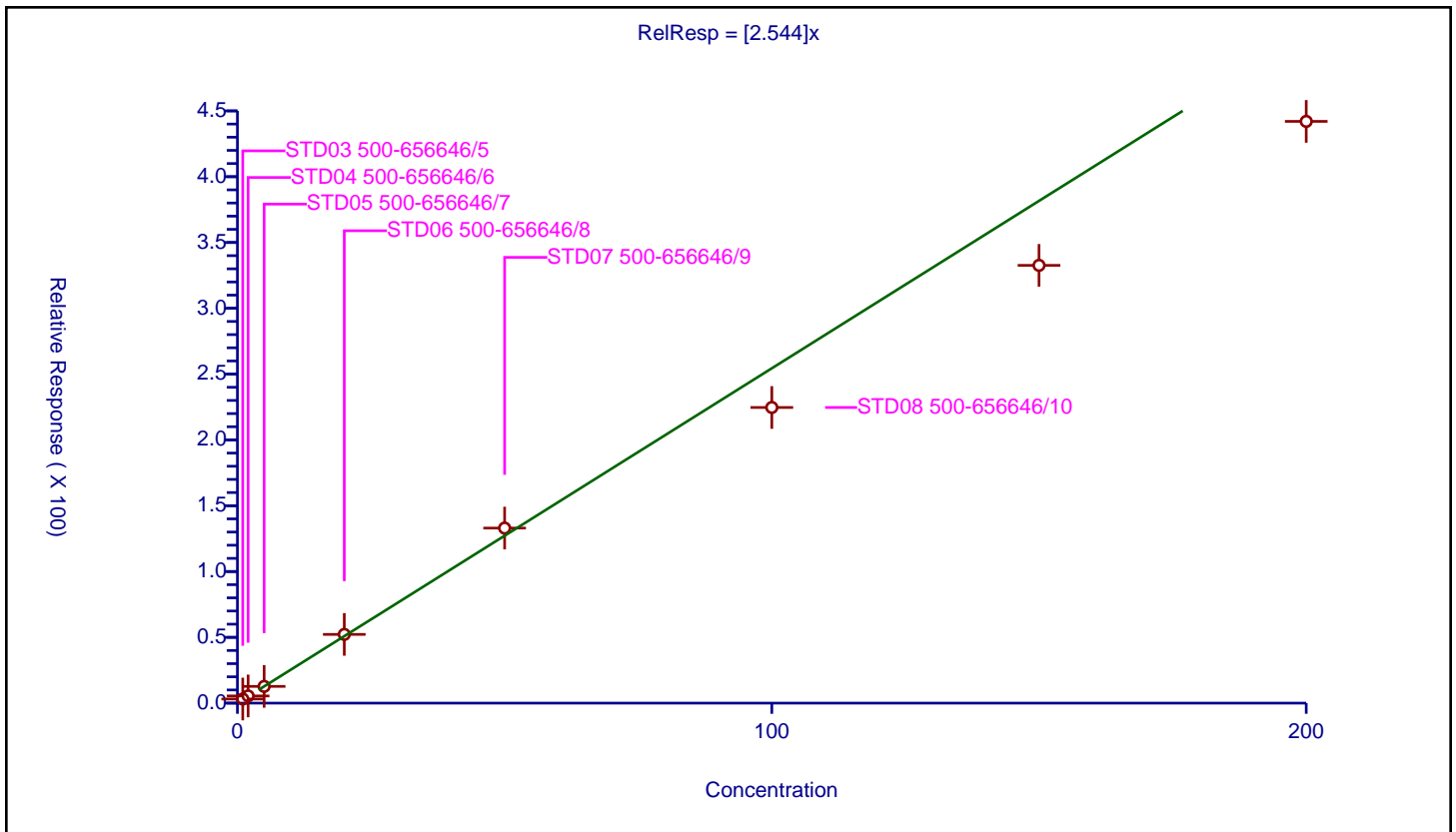
/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.544

Error Coefficients	
Standard Error:	1540000
Relative Standard Error:	12.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	3.132399	50.0	225115.0	3.132399	Y
2	STD04 500-656646/6	2.0	5.461288	50.0	223418.0	2.730644	Y
3	STD05 500-656646/7	5.0	12.720807	50.0	215686.0	2.544161	Y
4	STD06 500-656646/8	20.0	52.21512	50.0	222945.0	2.610756	Y
5	STD07 500-656646/9	50.0	132.999718	50.0	223711.0	2.659994	Y
6	STD08 500-656646/10	100.0	224.648251	50.0	296305.0	2.246483	Y
7	STD09 500-656646/11	150.0	332.624782	50.0	357984.0	2.217499	Y
8	STD010 500-656646/12	200.0	442.024853	50.0	335091.0	2.210124	Y



Calibration

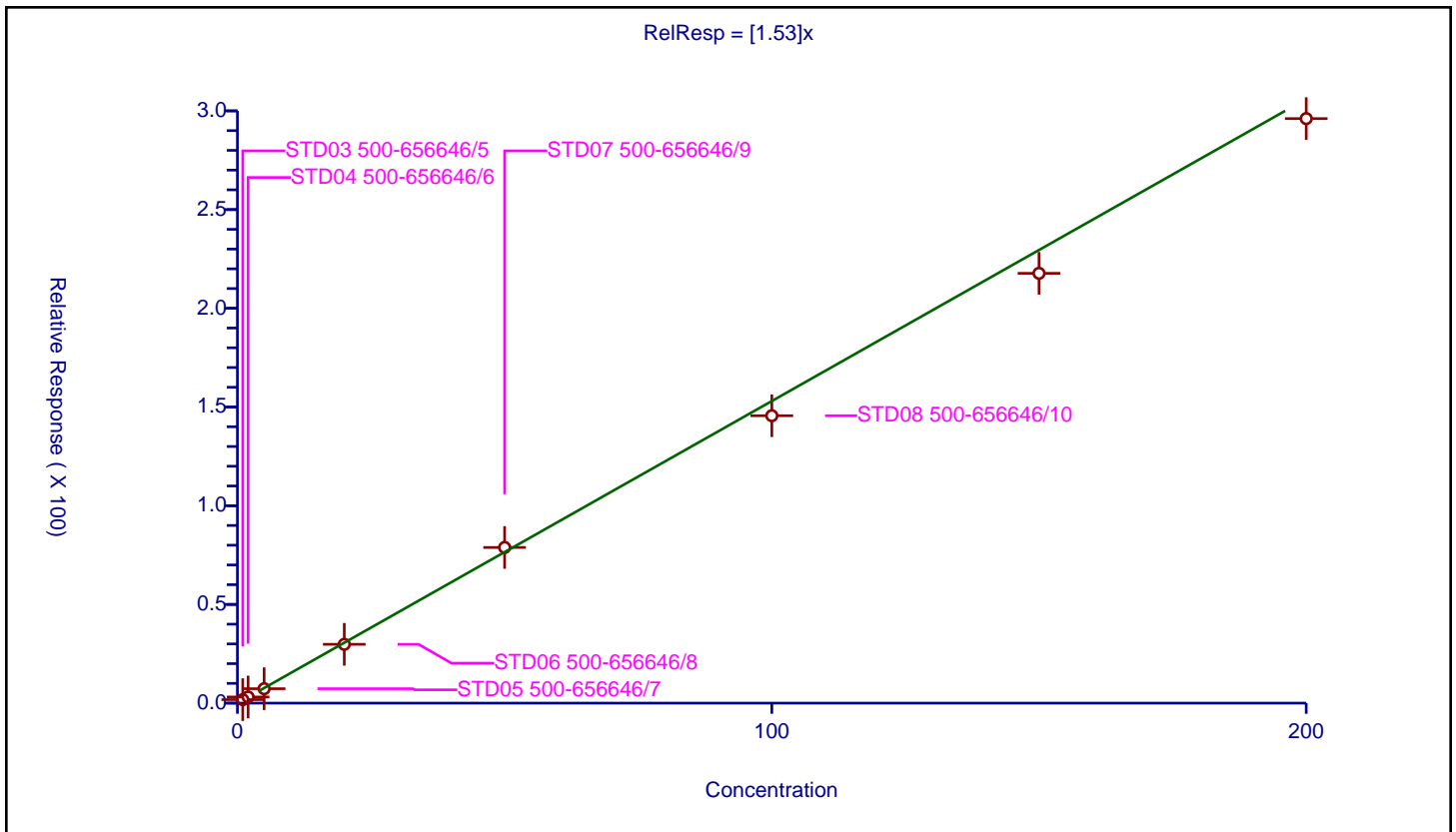
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.53

Error Coefficients	
Standard Error:	1020000
Relative Standard Error:	7.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.768652	50.0	225115.0	1.768652	Y
2	STD04 500-656646/6	2.0	3.11367	50.0	223418.0	1.556835	Y
3	STD05 500-656646/7	5.0	7.304137	50.0	215686.0	1.460827	Y
4	STD06 500-656646/8	20.0	29.801521	50.0	222945.0	1.490076	Y
5	STD07 500-656646/9	50.0	78.853297	50.0	223711.0	1.577066	Y
6	STD08 500-656646/10	100.0	145.592042	50.0	296305.0	1.45592	Y
7	STD09 500-656646/11	150.0	217.72244	50.0	357984.0	1.451483	Y
8	STD010 500-656646/12	200.0	296.092256	50.0	335091.0	1.480461	Y



Calibration

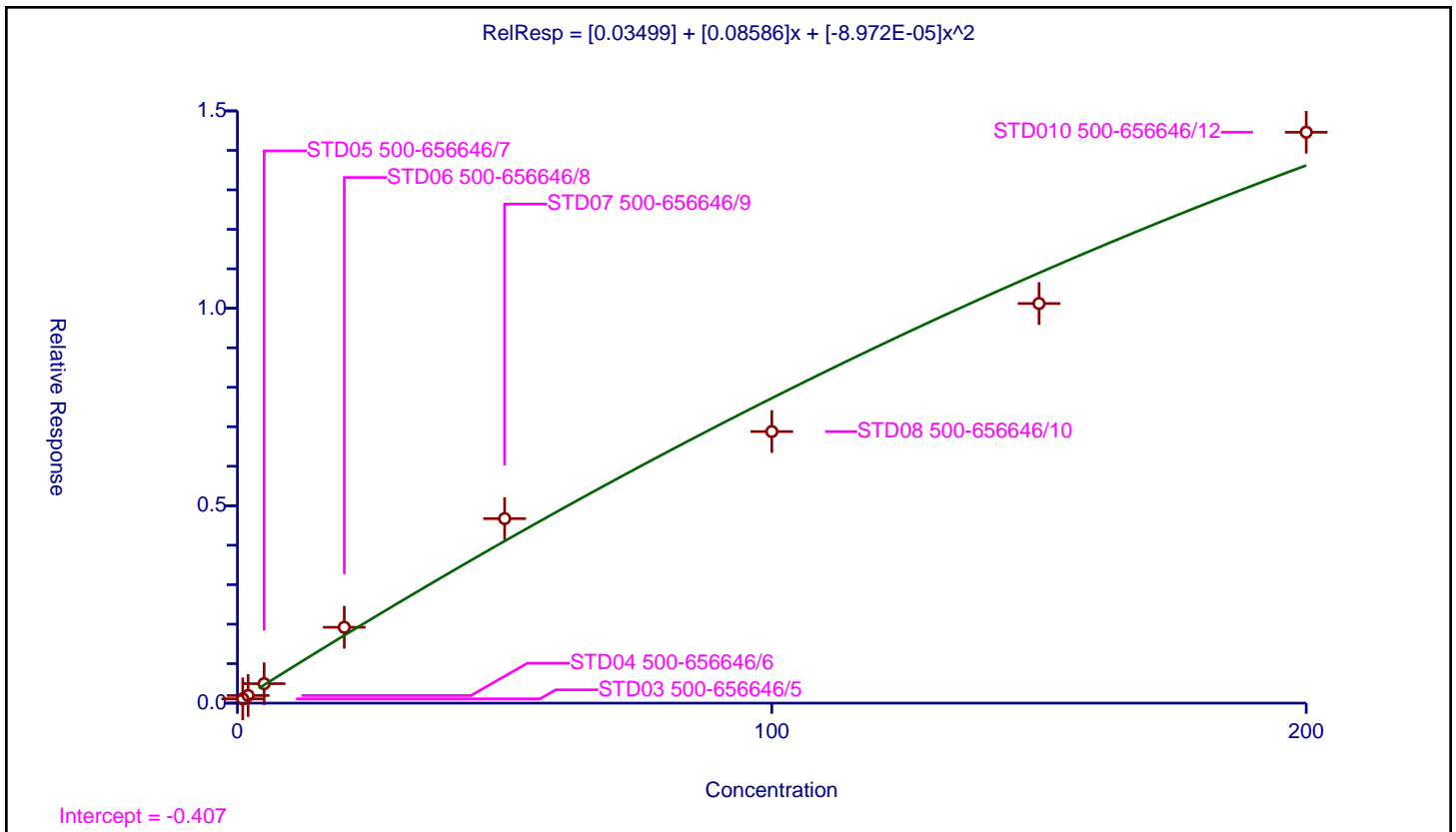
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Quadratic
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.03499
Slope:	0.08586
Second Order:	-8.972E-05

Error Coefficients	
Standard Error:	58000
Relative Standard Error:	14.0
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.108833	50.0	225115.0	0.108833	Y
2	STD04 500-656646/6	2.0	0.193583	50.0	223418.0	0.096792	Y
3	STD05 500-656646/7	5.0	0.492614	50.0	215686.0	0.098523	Y
4	STD06 500-656646/8	20.0	1.920877	50.0	222945.0	0.096044	Y
5	STD07 500-656646/9	50.0	4.67344	50.0	223711.0	0.093469	Y
6	STD08 500-656646/10	100.0	6.877879	50.0	296305.0	0.068779	Y
7	STD09 500-656646/11	150.0	10.121542	50.0	357984.0	0.067477	Y
8	STD10 500-656646/12	200.0	14.458908	50.0	335091.0	0.072295	Y



Calibration

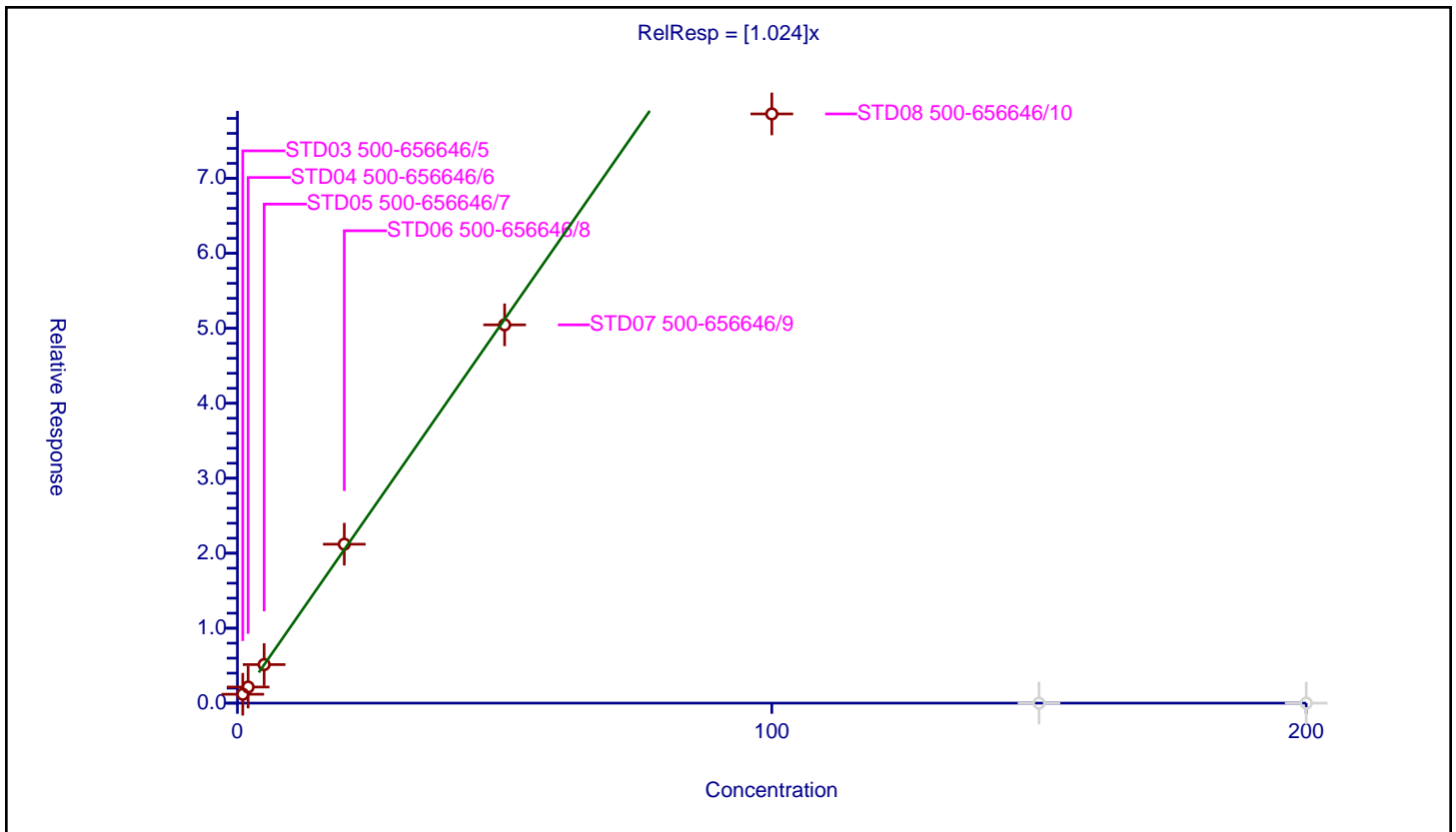
/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.024

Error Coefficients	
Standard Error:	236000
Relative Standard Error:	12.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.185616	50.0	225115.0	1.185616	Y
2	STD04 500-656646/6	2.0	2.148663	50.0	223418.0	1.074332	Y
3	STD05 500-656646/7	5.0	5.142197	50.0	215686.0	1.028439	Y
4	STD06 500-656646/8	20.0	21.201866	50.0	222945.0	1.060093	Y
5	STD07 500-656646/9	50.0	50.46265	50.0	223711.0	1.009253	Y
6	STD08 500-656646/10	100.0	78.593848	50.0	296305.0	0.785938	Y
7	STD09 500-656646/11	150.0	0.0	50.0	357984.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	335091.0	0.0	N



Calibration

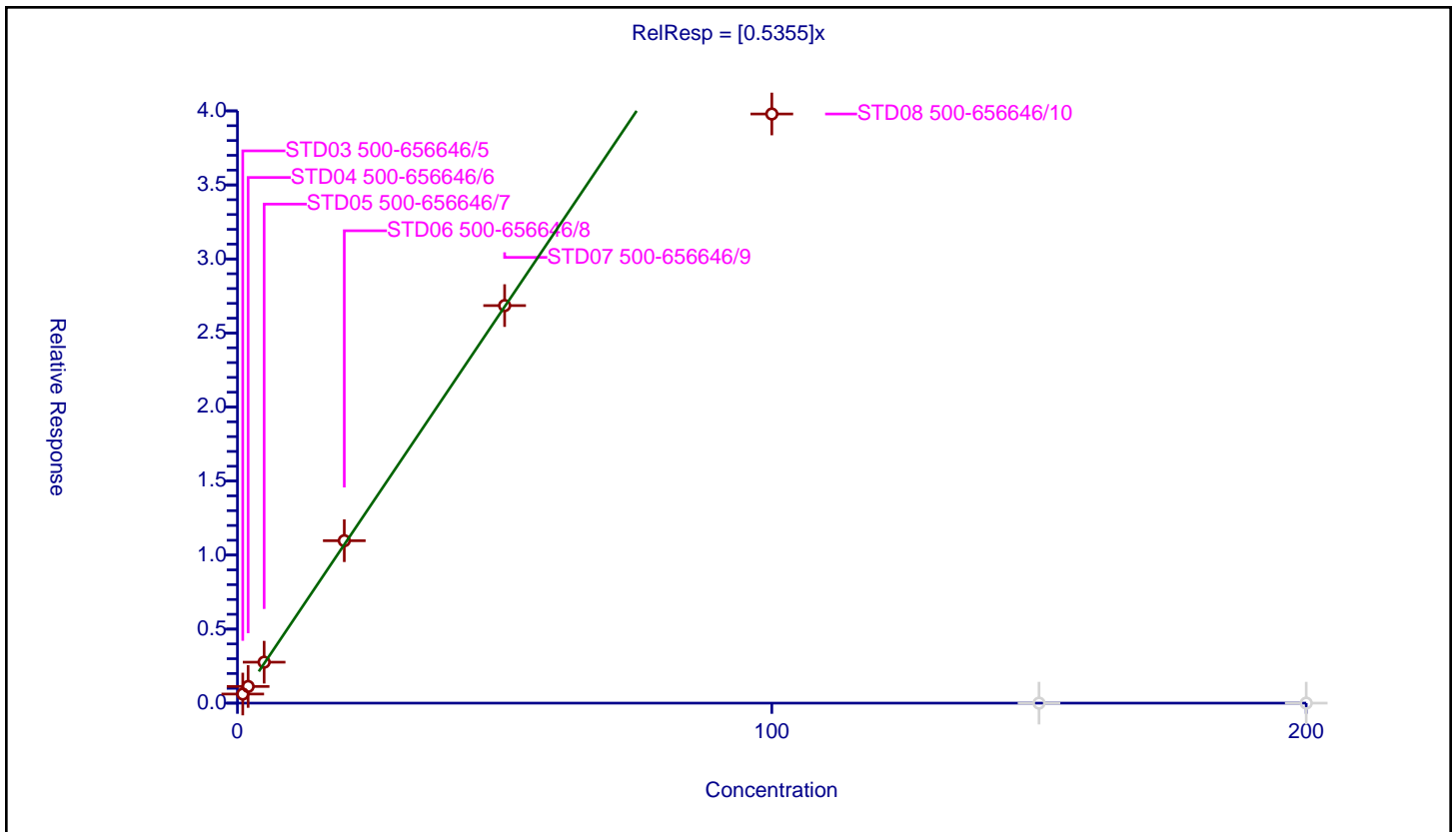
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5355

Error Coefficients	
Standard Error:	120000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	0.613908	50.0	225115.0	0.613908	Y
2	STD04 500-656646/6	2.0	1.124574	50.0	223418.0	0.562287	Y
3	STD05 500-656646/7	5.0	2.765594	50.0	215686.0	0.553119	Y
4	STD06 500-656646/8	20.0	10.970643	50.0	222945.0	0.548532	Y
5	STD07 500-656646/9	50.0	26.850714	50.0	223711.0	0.537014	Y
6	STD08 500-656646/10	100.0	39.791262	50.0	296305.0	0.397913	Y
7	STD09 500-656646/11	150.0	0.0	50.0	357984.0	0.0	N
8	STD010 500-656646/12	200.0	0.0	50.0	335091.0	0.0	N



Calibration

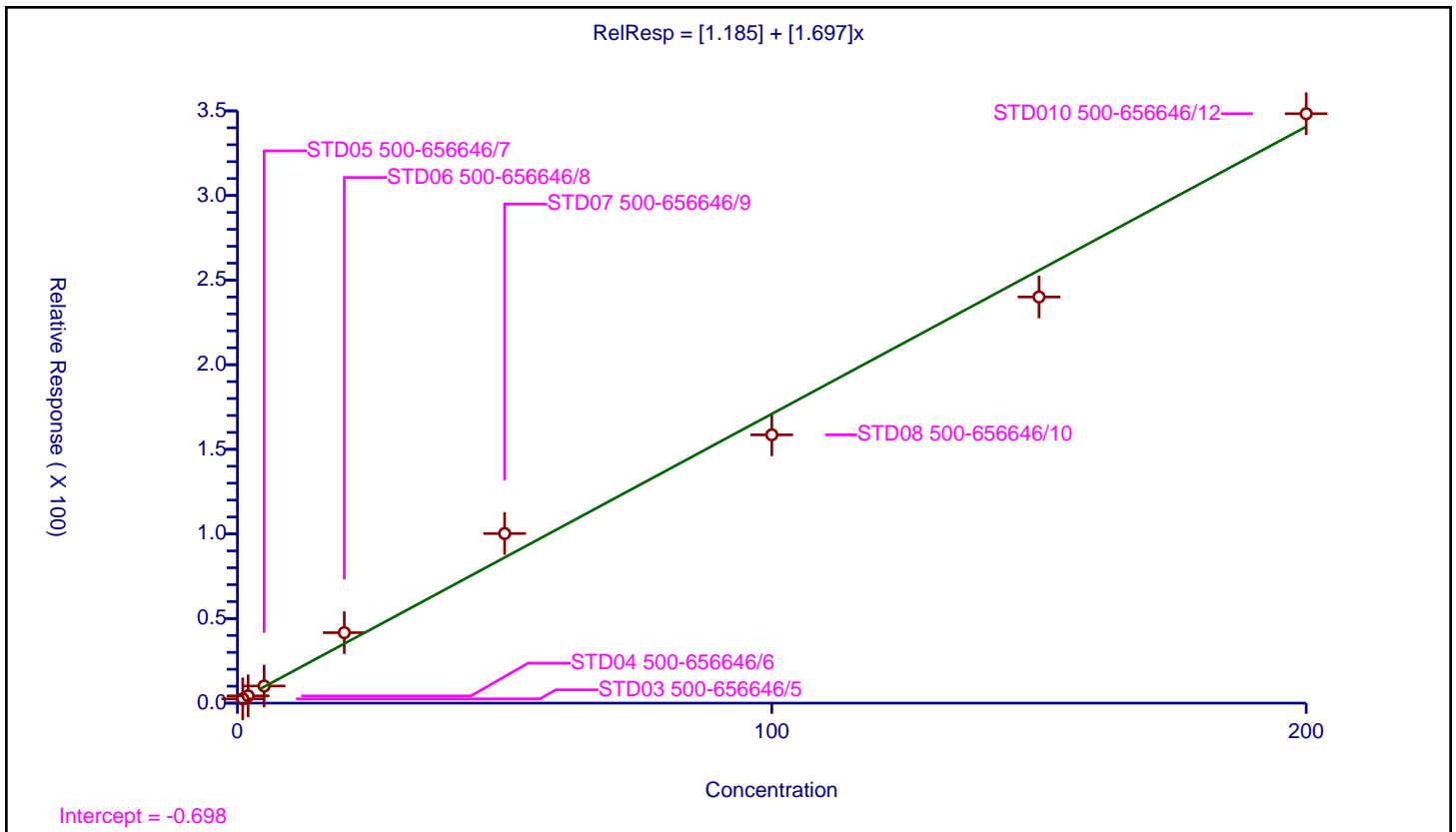
/ Naphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	1.185
Slope:	1.697

Error Coefficients	
Standard Error:	1260000
Relative Standard Error:	14.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	2.523155	50.0	225115.0	2.523155	Y
2	STD04 500-656646/6	2.0	4.283898	50.0	223418.0	2.141949	Y
3	STD05 500-656646/7	5.0	10.112849	50.0	215686.0	2.02257	Y
4	STD06 500-656646/8	20.0	41.636278	50.0	222945.0	2.081814	Y
5	STD07 500-656646/9	50.0	100.221491	50.0	223711.0	2.00443	Y
6	STD08 500-656646/10	100.0	158.550143	50.0	296305.0	1.585501	Y
7	STD09 500-656646/11	150.0	240.0307	50.0	357984.0	1.600205	Y
8	STD010 500-656646/12	200.0	348.330155	50.0	335091.0	1.741651	Y



Calibration

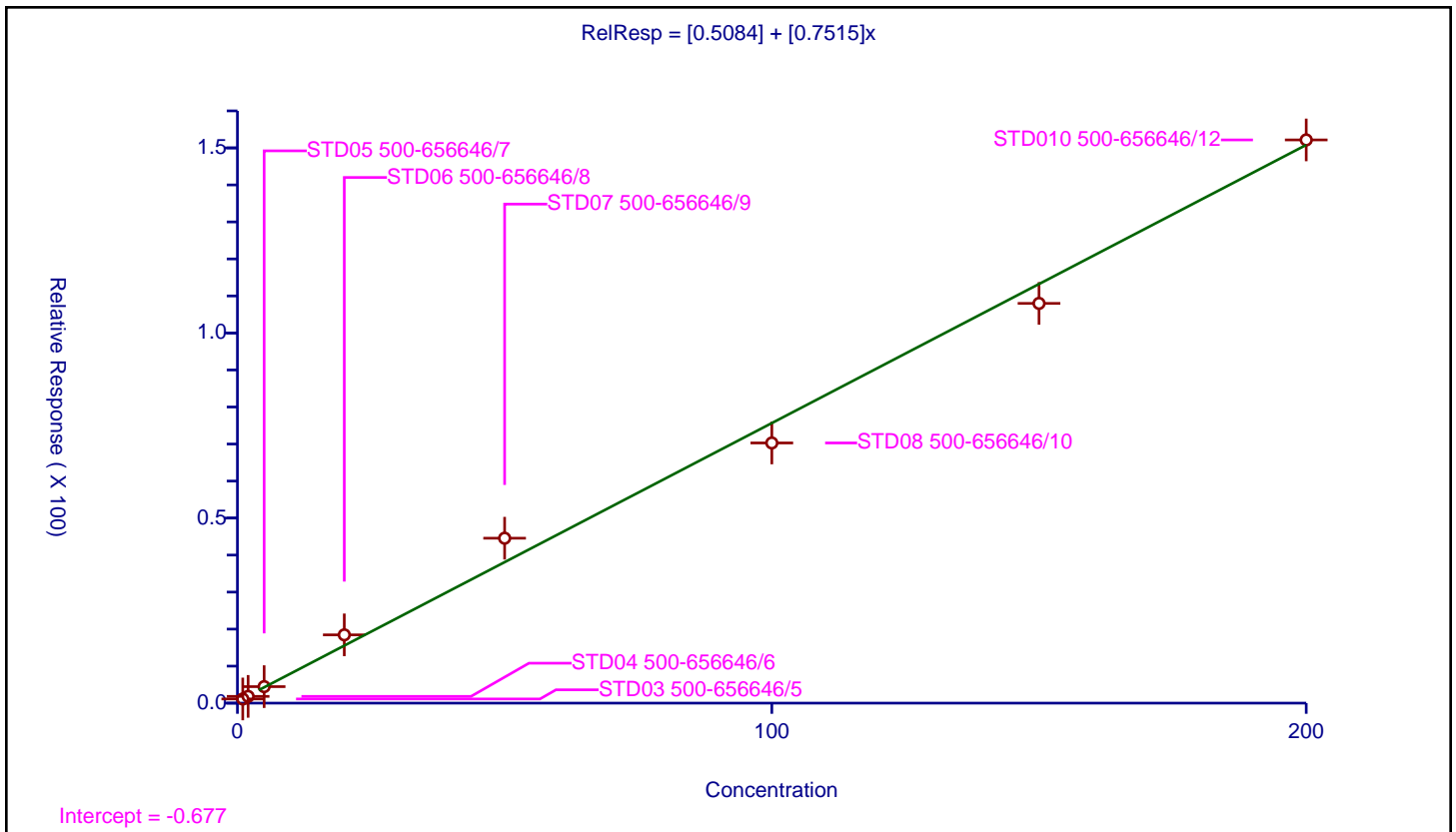
/ 1,2,3-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.5084
Slope:	0.7515

Error Coefficients	
Standard Error:	556000
Relative Standard Error:	14.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-656646/5	1.0	1.123204	50.0	225115.0	1.123204	Y
2	STD04 500-656646/6	2.0	1.822369	50.0	223418.0	0.911184	Y
3	STD05 500-656646/7	5.0	4.455551	50.0	215686.0	0.89111	Y
4	STD06 500-656646/8	20.0	18.445132	50.0	222945.0	0.922257	Y
5	STD07 500-656646/9	50.0	44.557487	50.0	223711.0	0.89115	Y
6	STD08 500-656646/10	100.0	70.28771	50.0	296305.0	0.702877	Y
7	STD09 500-656646/11	150.0	107.988905	50.0	357984.0	0.719926	Y
8	STD10 500-656646/12	200.0	152.155534	50.0	335091.0	0.760778	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-656646/14	STD03AP0514.D
Level 2	STD04AP 500-656646/15	STD04AP0514.D
Level 3	STD05AP 500-656646/16	STD05AP0514.D
Level 4	STD06AP 500-656646/17	STD06AP0514.D
Level 5	STD07AP 500-656646/18	STD07AP0514.D
Level 6	STD08AP 500-656646/19	STD08AP0514.D
Level 7	STD09AP 500-656646/20	STD09AP0514.D
Level 8	STD010AP 500-656646/21	STD010AP0514.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	0.1527 0.0879	0.1043 0.0890	0.1007 0.0843	0.0910	0.0839	Lin1	2.358 1	0.086 0		0.0010				0.9990		0.9900	
Isopropyl alcohol	0.7861 0.5479	0.5949 0.5828	0.6022 0.5616	0.5742	0.5155	Ave		0.595 6		0.0010	13.7		15.0				
Acetonitrile	0.0200 0.0184	0.0151 0.0172	0.0193 0.0185	0.0183	0.0172	Ave		0.018 0		0.0010	8.5		15.0				
Isopropyl ether	0.8257 0.7384	0.8266 0.7303	0.7960 0.7650	0.7960	0.7159	Ave		0.774 3		0.0100	5.6		15.0				
2-Chloro-1,3-butadiene	0.3809 0.3606	0.3707 0.3832	0.3588 0.3774	0.3686	0.3256	Ave		0.365 7		0.0100	5.1		15.0				
Tert-butyl ethyl ether	0.7692 0.7145	0.7953 0.7082	0.7528 0.7428	0.7716	0.6864	Ave		0.742 6		0.0010	5.0		15.0				
Ethyl acetate	0.3858 0.1793	0.3130 0.1820	0.2287 0.1919	0.1914	0.1706	Lin1	0.426 1	0.182 6		0.0100				0.9980		0.9900	
Propionitrile	0.0287 0.0254	0.0274 0.0243	0.0256 0.0268	0.0255	0.0241	Ave		0.026 0		0.0010	6.0		15.0				
Methacrylonitrile	0.1034 0.1140	0.0993 0.1167	0.0993 0.1202	0.1037	0.0972	Ave		0.106 7		0.0100	8.3		15.0				
Isooctane	1.0490 0.9362	1.0302 1.0064	0.9504 0.9852	0.9518	0.8396	Ave		0.968 6		0.0100	6.8		15.0				
Tert-amyl methyl ether	0.7444 0.7067	0.7635 0.7224	0.7374 0.7942	0.7232	0.6667	Ave		0.732 3		0.0100	5.2		15.0				
n-Butyl alcohol	0.5014 0.2876	0.3684 0.3130	0.2661 0.3062	0.2884	0.2604	Lin1	2.886 5	0.298 1		0.0010				0.9960		0.9900	
Ethyl acrylate	0.2792 0.2333	0.2616 0.2404	0.2696 0.2584	0.2419	0.2253	Ave		0.251 2		0.0010	7.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2,3-Dichloro-1-propene	0.3740 0.3766	0.3689 0.3851	0.3377 0.4020	0.3604	0.3769	Ave		0.372 7		0.0010	5.0		15.0				
Methyl methacrylate	0.1852 0.1497	0.1586 0.1589	0.1581 0.1732	0.1512	0.1404	Ave		0.159 4		0.0100	8.8		15.0				
2-Nitropropane	0.1047 0.0673	0.0809 0.0658	0.0702 0.0676	0.0688	0.0595	Lin1	0.063 8	0.066 0		0.0100				0.9990		0.9900	
n-Butyl acetate	0.3789 0.3620	0.4583 0.3494	0.4168 0.3625	0.4081	0.3538	Ave		0.386 2		0.0010	9.9		15.0				
1-Chlorohexane	0.6497 0.4520	0.5559 0.4669	0.5065 0.4641	0.4723	0.4263	Ave		0.499 2		0.0100	14.5		15.0				
Cyclohexanone	0.0162 0.0164	0.0152 0.0170	0.0141 0.0165	0.0140	0.0130	Ave		0.015 3		0.0100	9.4		15.0				
2-Ethyltoluene	2.7140 3.1399	2.6248 3.4629	2.5680 3.4728	2.6448	2.8412	Ave		2.933 5		0.0010	12.8		15.0				
Pentachloroethane	0.3442 0.5091	0.3669 0.4616	0.4078 0.3831	0.3644	0.4098	Ave		0.405 9		0.0100	13.6		15.0				
1,2,3-Trimethylbenzene	2.3758 2.6975	2.3665 3.0966	2.2351 3.0870	2.4452	2.1937	Ave		2.562 2		0.0010	14.1		15.0				
Benzyl chloride	0.2467 0.2849	0.2405 0.2986	0.2541 0.3093	0.2595	0.2471	Ave		0.267 6		0.0010	9.8		15.0				
1,3,5-Trichlorobenzene	1.1340 1.2008	1.1579 1.3836	1.0622 1.3169	1.1069	1.0093	Ave		1.171 5		0.0100	10.7		15.0				
2-Methylnaphthalene	1.0587 1.4694	1.1769 1.6666	1.0830 1.6861	1.2146	1.2969	Lin1	-1.17 1	1.593 7		0.0100				0.9910		0.9900	
1-Methylnaphthalene	0.9555 1.2152	0.9616 1.3641	0.9299 1.3932	1.0202	1.0691	Lin1	-0.89 1	1.313 1		0.0100				0.9920		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-656646/14	STD03AP0514.D
Level 2	STD04AP 500-656646/15	STD04AP0514.D
Level 3	STD05AP 500-656646/16	STD05AP0514.D
Level 4	STD06AP 500-656646/17	STD06AP0514.D
Level 5	STD07AP 500-656646/18	STD07AP0514.D
Level 6	STD08AP 500-656646/19	STD08AP0514.D
Level 7	STD09AP 500-656646/20	STD09AP0514.D
Level 8	STD010AP 500-656646/21	STD010AP0514.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Ethanol	TBAd 9	Lin1	1176	1686	3851	13113	30604	40.0	80.0	200	800	2000
			67746	105637	128810			4000	6000	8000		
Isopropyl alcohol	TBAd 9	Ave	1514	2405	5756	20687	46992	10.0	20.0	50.0	200	500
			105602	172859	214408			1000	1500	2000		
Acetonitrile	FB	Ave	1775	2824	8682	33725	74645	10.0	20.0	50.0	200	500
			166430	252298	337461			1000	1500	2000		
Isopropyl ether	FB	Ave	7313	15485	35829	146645	310922	1.00	2.00	5.00	20.0	50.0
			667255	1074219	1393550			100	150	200		
2-Chloro-1,3-butadiene	FB	Ave	3373	6944	16148	67904	141392	1.00	2.00	5.00	20.0	50.0
			325829	563705	687549			100	150	200		
Tert-butyl ethyl ether	FB	Ave	6812	14899	33886	142154	298094	1.00	2.00	5.00	20.0	50.0
			645615	1041727	1353027			100	150	200		
Ethyl acetate	FB	Lin1	6834	11728	20585	70507	148193	2.00	4.00	10.0	40.0	100
			324100	535473	699224			200	300	400		
Propionitrile	FB	Ave	2541	5133	11522	47051	104810	10.0	20.0	50.0	200	500
			229214	357441	487639			1000	1500	2000		
Methacrylonitrile	FB	Ave	9154	18606	44686	191088	422040	10.0	20.0	50.0	200	500
			1030200	1716437	2189078			1000	1500	2000		
Isooctane	FB	Ave	9290	19298	42778	175350	364604	1.00	2.00	5.00	20.0	50.0
			845915	1480301	1794711			100	150	200		
Tert-amyl methyl ether	FB	Ave	6593	14302	33193	133242	289520	1.00	2.00	5.00	20.0	50.0
			638574	1062645	1446739			100	150	200		
n-Butyl alcohol	TBAd 9	Lin1	2414	3723	6358	25974	59351	25.0	50.0	125	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			138564	232085	292270			2500	3750	5000		
Ethyl acrylate	FB	Ave	2473 210836	4901 353664	12136 470723	44566	97822	1.00 100	2.00 150	5.00 200	20.0	50.0
2,3-Dichloro-1-propene	FB	Ave	3312 340279	6910 566529	15198 732343	66398	163688	1.00 100	2.00 150	5.00 200	20.0	50.0
Methyl methacrylate	FB	Ave	3281 270452	5941 467443	14232 630819	55716	121956	2.00 200	4.00 300	10.0 400	40.0	100
2-Nitropropane	CBNZ d5	Lin1	1461 93187	2334 153207	5014 201548	19509	40759	2.00 200	4.00 300	10.0 400	40.0	100
n-Butyl acetate	CBNZ d5	Ave	2643 250688	6613 406671	14891 540759	57848	121077	1.00 100	2.00 150	5.00 200	20.0	50.0
1-Chlorohexane	CBNZ d5	Ave	4532 313052	8022 543502	18097 692369	66947	145889	1.00 100	2.00 150	5.00 200	20.0	50.0
Cyclohexanone	DCBd 4	Ave	6486 613563	12835 1046034	28980 1328619	113694	252646	100 10000	200 15000	500 20000	2000	5000
2-Ethyltoluene	DCBd 4	Ave	10890 1174777	22144 2132936	52967 2793368	214275	550509	1.00 100	2.00 150	5.00 200	20.0	50.0
Pentachloroethane	DCBd 4	Ave	1381 190477	3095 284324	8412 308159	29522	79400	1.00 100	2.00 150	5.00 200	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	9533 1009254	19965 1907347	46100 2483073	198103	425046	1.00 100	2.00 150	5.00 200	20.0	50.0
Benzyl chloride	DCBd 4	Ave	990 106611	2029 183939	5241 248767	21026	47881	1.00 100	2.00 150	5.00 200	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	4550 449290	9769 852206	21908 1059229	89682	195570	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Methylnaphthalene	DCBd 4	Lin1	4248	9929	22337	98407	251284	1.00	2.00	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			549779	1026526	1356223			100	150	200		
1-Methylnaphthalene	DCBd 4	Lin1	3834	8113	19180	82655	207146	1.00	2.00	5.00	20.0	50.0
			454674	840225	1120634			100	150	200		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-656646/14	STD03AP0514.D
Level 2	STD04AP 500-656646/15	STD04AP0514.D
Level 3	STD05AP 500-656646/16	STD05AP0514.D
Level 4	STD06AP 500-656646/17	STD06AP0514.D
Level 5	STD07AP 500-656646/18	STD07AP0514.D
Level 6	STD08AP 500-656646/19	STD08AP0514.D
Level 7	STD09AP 500-656646/20	STD09AP0514.D
Level 8	STD010AP 500-656646/21	STD010AP0514.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Ethanol	8.9 3.0	-13.1 -2.3	3.4	2.3	-3.8	1.5	50 30	30	30	30	30	30
Isopropyl alcohol	32.0 -2.2	-0.1 -5.7	1.1	-3.6	-13.5	-8.0	50 30	30	30	30	30	30
Acetonitrile	11.3 -4.7	-16.2 2.9	7.2	1.7	-4.5	2.3	50 30	30	30	30	30	30
Isopropyl ether	6.7 -5.7	6.8 -1.2	2.8	2.8	-7.5	-4.6	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	4.1 4.8	1.4 3.2	-1.9	0.8	-11.0	-1.4	50 30	30	30	30	30	30
Tert-butyl ethyl ether	3.6 -4.6	7.1 0.0	1.4	3.9	-7.6	-3.8	50 30	30	30	30	30	30
Ethyl acetate	-5.4 -1.1	13.1 4.5	1.9	-1.1	-8.9	-3.0	50 30	30	30	30	30	30
Propionitrile	10.5 -6.4	5.5 3.1	-1.5	-1.7	-7.1	-2.3	50 30	30	30	30	30	30
Methacrylonitrile	-3.1 9.3	-6.9 12.6	-7.0	-2.8	-8.9	6.8	50 30	30	30	30	30	30
Isooctane	8.3 3.9	6.4 1.7	-1.9	-1.7	-13.3	-3.3	50 30	30	30	30	30	30
Tert-amyl methyl ether	1.7 -1.4	4.3 8.5	0.7	-1.2	-9.0	-3.5	50 30	30	30	30	30	30
n-Butyl alcohol	29.5 4.7	4.2 2.5	-18.5	-5.2	-13.4	-3.9	50 30	30	30	30	30	30
Ethyl acrylate	11.1 -4.3	4.1 2.9	7.3	-3.7	-10.3	-7.1	50 30	30	30	30	30	30
2,3-Dichloro-1-propene	0.3 3.3	-1.0 7.9	-9.4	-3.3	1.1	1.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 656646

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2022 13:53 Calibration End Date: 05/14/2022 16:38 Calibration ID: 44257

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Methyl methacrylate	16.2 -0.3	-0.5 8.6	-0.8	-5.1	-11.9	-6.1	50 30	30 30	30	30	30	30
2-Nitropropane	10.5 -0.5	-1.6 2.2	-3.3	1.9	-10.7	1.5	50 30	30 30	30	30	30	30
n-Butyl acetate	-1.9 -9.5	18.7 -6.1	7.9	5.7	-8.4	-6.3	50 30	30 30	30	30	30	30
1-Chlorohexane	30.1 -6.5	11.4 -7.0	1.5	-5.4	-14.6	-9.5	50 30	30 30	30	30	30	30
Cyclohexanone	5.6 11.0	-0.6 8.0	-8.2	-8.3	-14.8	7.2	50 30	30 30	30	30	30	30
2-Ethyltoluene	-7.5 18.0	-10.5 18.4	-12.5	-9.8	-3.1	7.0	50 30	30 30	30	30	30	30
Pentachloroethane	-15.2 13.7	-9.6 -5.6	0.5	-10.2	1.0	25.4	50 30	30 30	30	30	30	30
1,2,3-Trimethylbenzene	-7.3 20.9	-7.6 20.5	-12.8	-4.6	-14.4	5.3	50 30	30 30	30	30	30	30
Benzyl chloride	-7.8 11.6	-10.1 15.6	-5.0	-3.0	-7.7	6.5	50 30	30 30	30	30	30	30
1,3,5-Trichlorobenzene	-3.2 18.1	-1.2 12.4	-9.3	-5.5	-13.8	2.5	50 30	30 30	30	30	30	30
2-Methylnaphthalene	39.9 5.1	10.6 6.2	-17.4	-20.1	-17.2	-7.1	50 30	30 30	30	30	30	30
1-Methylnaphthalene	40.6 4.3	7.1 6.4	-15.6	-18.9	-17.2	-6.8	50 30	30 30	30	30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
 Lims ID: STD03AP
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-May-2022 13:53:30 ALS Bottle#: 0 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD03AP
 Misc. Info.: 500-0085710-014
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:08 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date:

17-May-2022 08:20:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.734	2.732	0.002	33	1176	40.0	43.6	Ma
18 Isopropyl alcohol	45	3.206	3.195	0.011	23	1514	10.0	13.2	Ma
19 Acetonitrile	41	3.319	3.308	0.011	32	1775	10.0	11.1	Ma
* 23 TBA-d9 (IS)	65	3.481	3.484	-0.003	0	192594	1000.0	1000.0	
31 Isopropyl ether	45	4.139	4.139	0.000	79	7313	1.00	1.07	
32 2-Chloro-1,3-butadiene	53	4.168	4.165	0.003	49	3373	1.00	1.04	
33 Tert-butyl ethyl ether	59	4.480	4.481	-0.001	88	6812	1.00	1.04	
38 Ethyl acetate	43	4.698	4.698	0.000	95	6834	2.00	1.89	
37 Propionitrile	54	4.721	4.706	0.015	1	2541	10.0	11.0	Ma
39 Methacrylonitrile	41	4.857	4.854	0.003	77	9154	10.0	9.69	
52 Isooctane	57	5.569	5.572	-0.003	90	9290	1.00	1.08	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	83	6593	1.00	1.02	
* 55 Fluorobenzene (IS)	96	5.778	5.780	-0.002	99	442812	50.0	50.0	
56 n-Butanol	56	6.110	6.076	0.034	13	2414	25.0	32.4	M
58 Ethyl acrylate	55	6.278	6.270	0.008	19	2473	1.00	1.11	
61 2,3-Dichloro-1-propene	75	6.458	6.455	0.003	49	3312	1.00	1.00	
* 62 1,4-Dioxane-d8	96	6.493	6.496	-0.003	0	14808	1000.0	1000.0	
64 Methyl methacrylate	41	6.525	6.525	-0.001	64	3281	2.00	2.32	
67 2-Nitropropane	43	6.970	6.965	0.005	23	1461	2.00	2.21	
80 n-Butyl acetate	43	8.563	8.560	0.003	46	2643	1.00	0.9811	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	348756	50.0	50.0	
83 1-Chlorohexane	91	9.313	9.313	0.000	29	4532	1.00	1.30	a
92 Cyclohexanone	55	10.633	10.633	0.000	70	6486	100.0	105.6	
103 2-Ethyltoluene	105	11.342	11.340	0.002	79	10890	1.00	0.9252	
105 Pentachloroethane	167	11.476	11.476	0.000	37	1381	1.00	0.8480	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	200626	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.892	11.890	0.002	71	9533	1.00	0.9273	
113 Benzyl chloride	126	11.971	11.968	0.003	55	990	1.00	0.9220	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	61	4550	1.00	0.9680	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	27	4248	1.00	1.40	
123 1-Methylnaphthalene	142	14.721	14.718	0.003	42	3834	1.00	1.41	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWCYCHXWK_00216 Amount Added: 1.00 Units: uL

LOWAPIX_00038 Amount Added: 1.00 Units: uL

8260 LOWIS1_00164 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D

Injection Date: 14-May-2022 13:53:30

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD03AP

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

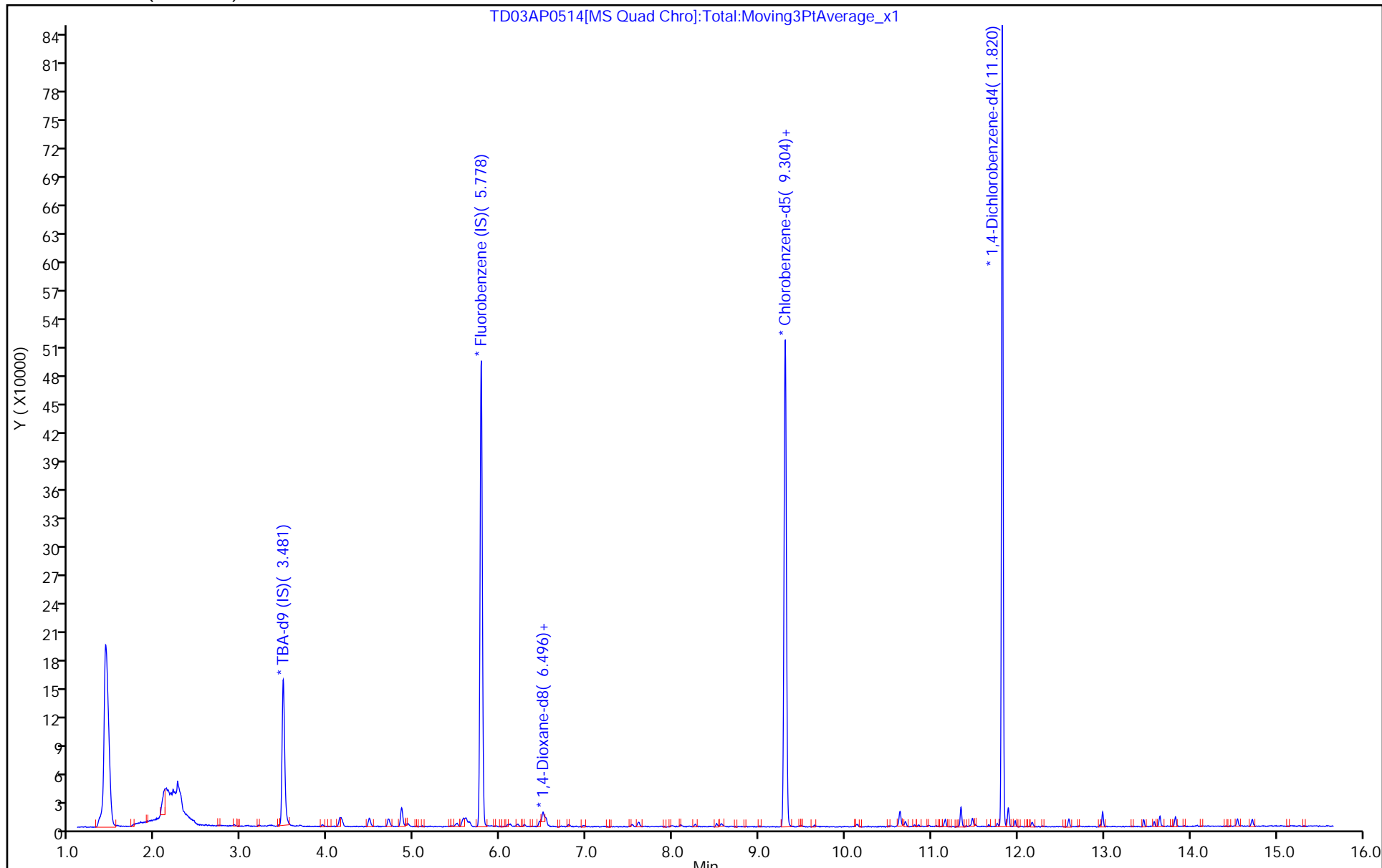
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

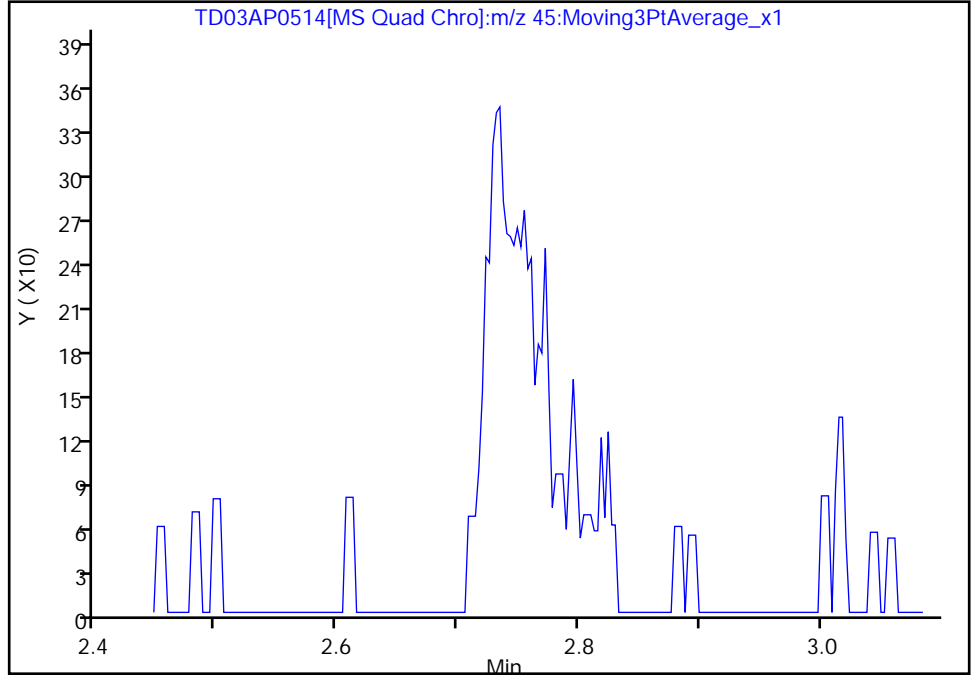
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Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

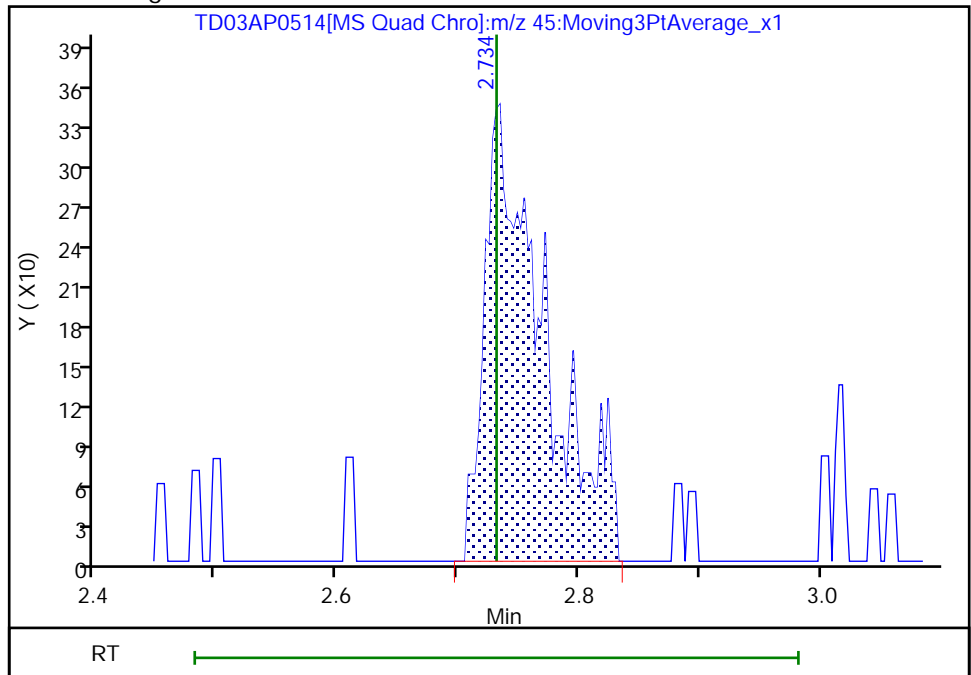
Not Detected
Expected RT: 2.73

Processing Integration Results



RT: 2.73
Area: 1176
Amount: 43.570431
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:05:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

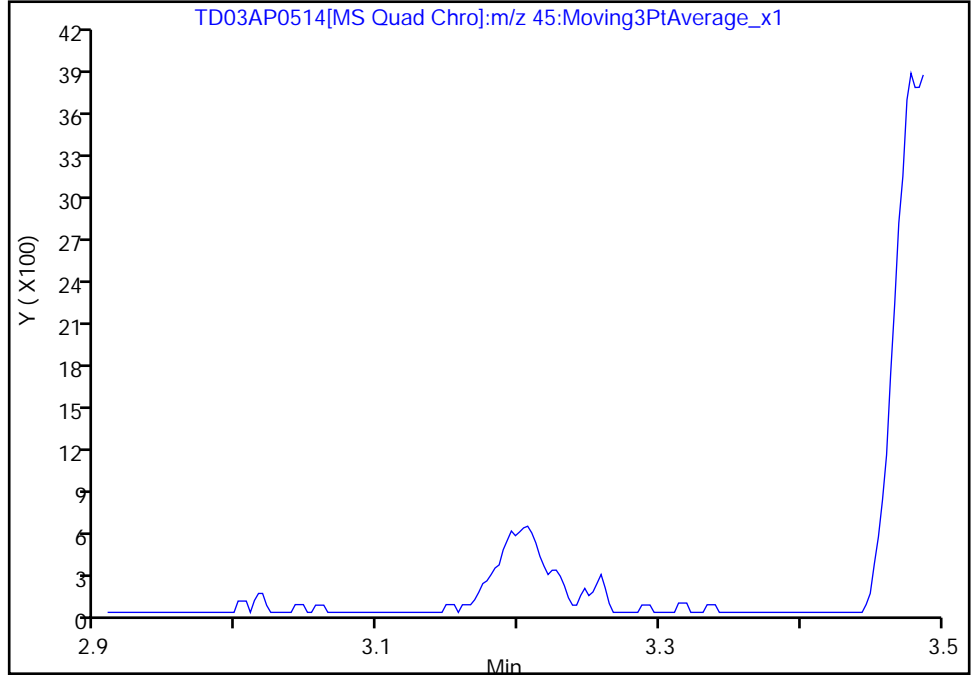
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

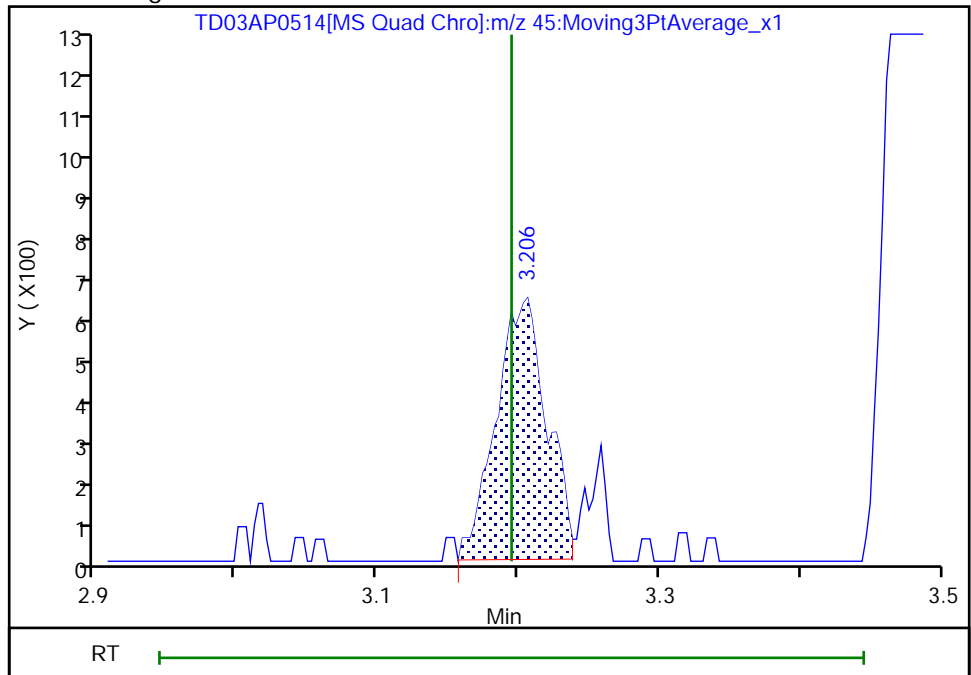
Not Detected
Expected RT: 3.20

Processing Integration Results



RT: 3.21
Area: 1514
Amount: 13.197892
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:53:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

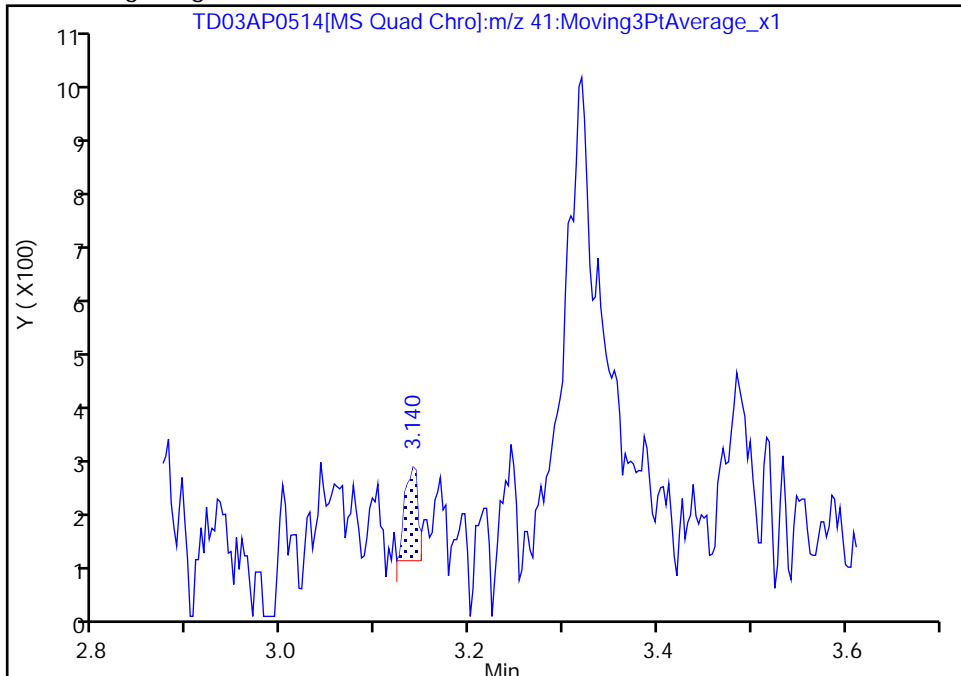
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

19 Acetonitrile, CAS: 75-05-8

Signal: 1

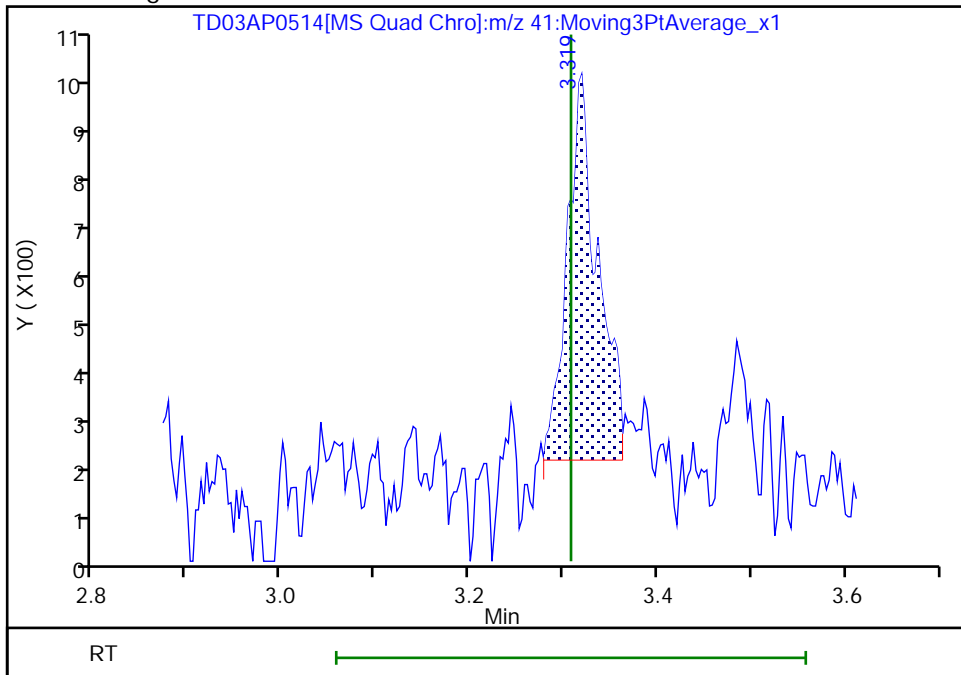
RT: 3.14
Area: 164
Amount: 6.887774
Amount Units: ug/l

Processing Integration Results



RT: 3.32
Area: 1775
Amount: 11.134934
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:45:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

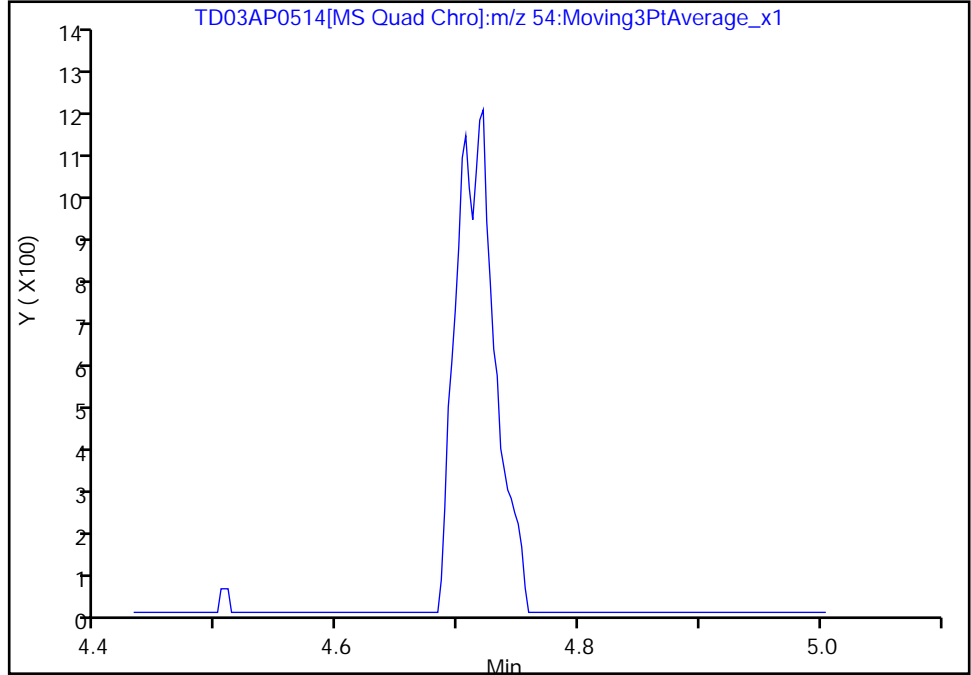
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

37 Propionitrile, CAS: 107-12-0

Signal: 1

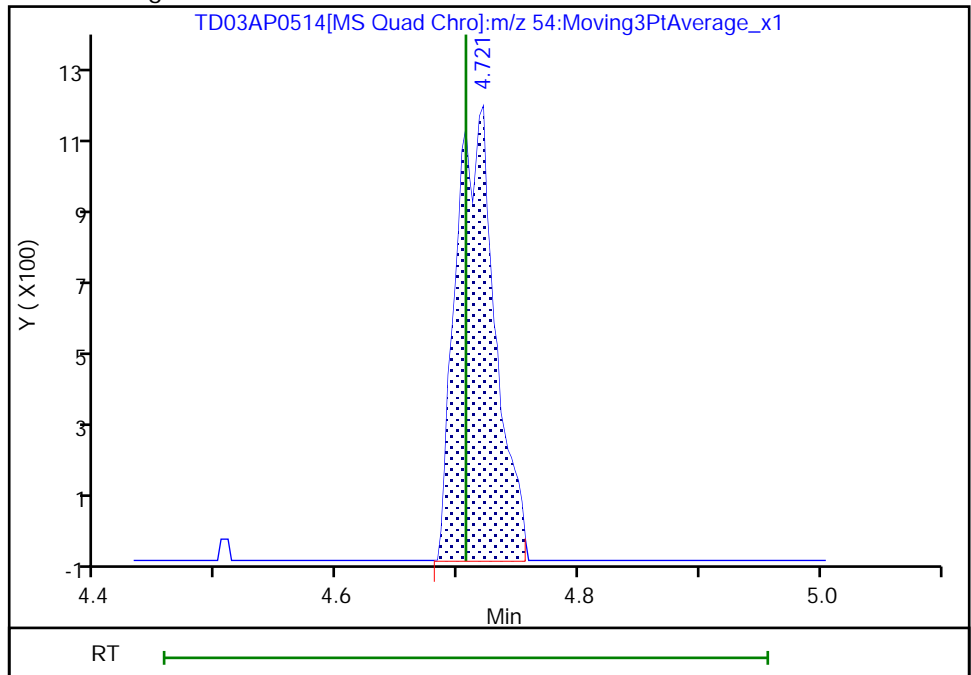
Not Detected
Expected RT: 4.71

Processing Integration Results



Manual Integration Results

RT: 4.72
Area: 2541
Amount: 11.045818
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:46:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

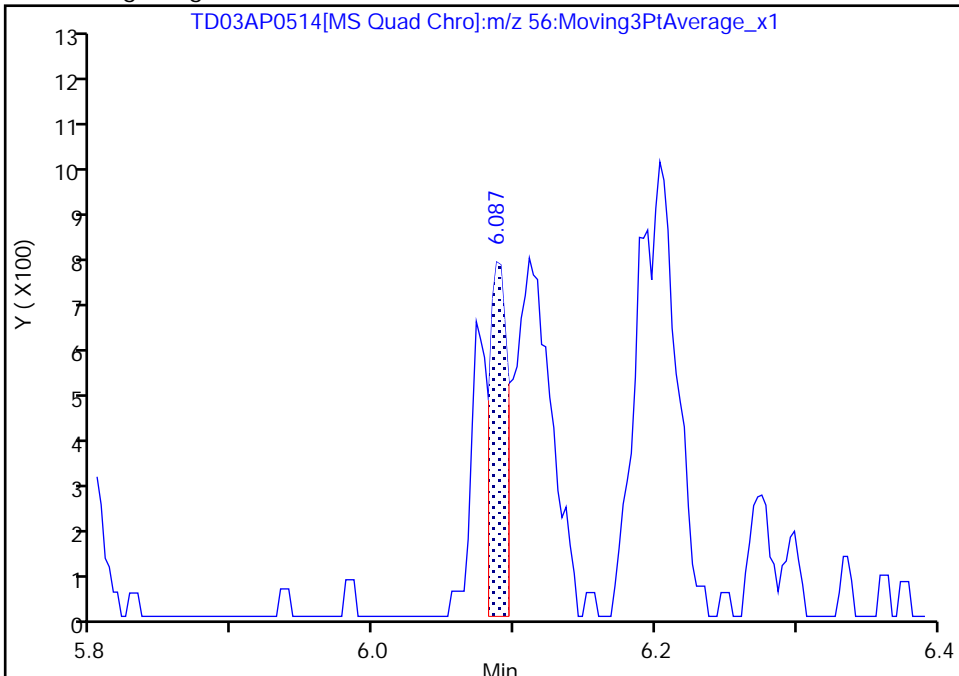
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

56 n-Butanol, CAS: 71-36-3

Signal: 1

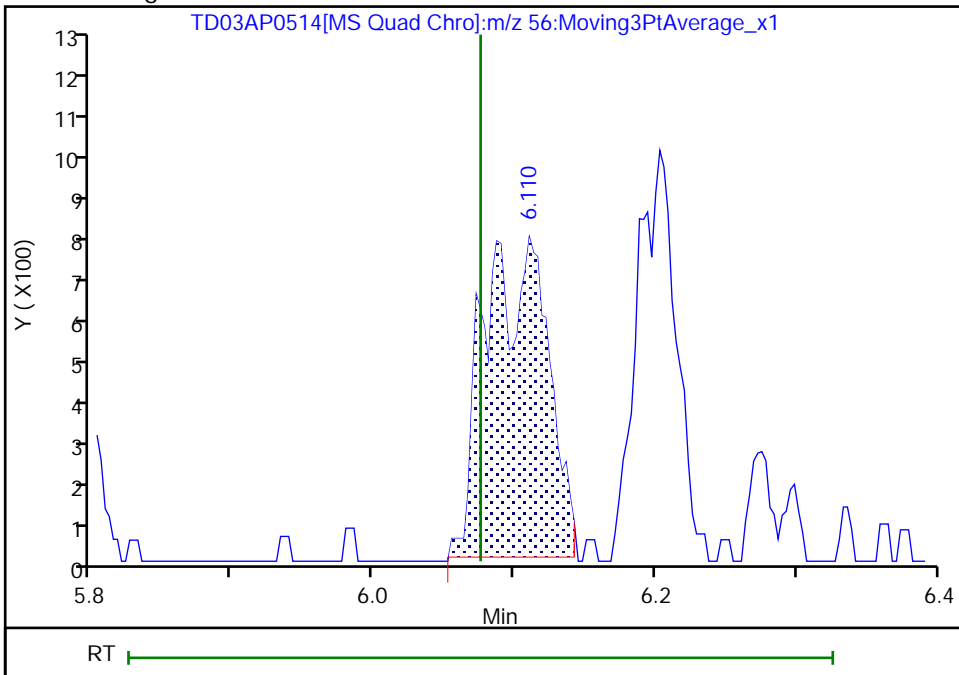
RT: 6.09
Area: 670
Amount: 27.545090
Amount Units: ug/l

Processing Integration Results



RT: 6.11
Area: 2414
Amount: 32.368386
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

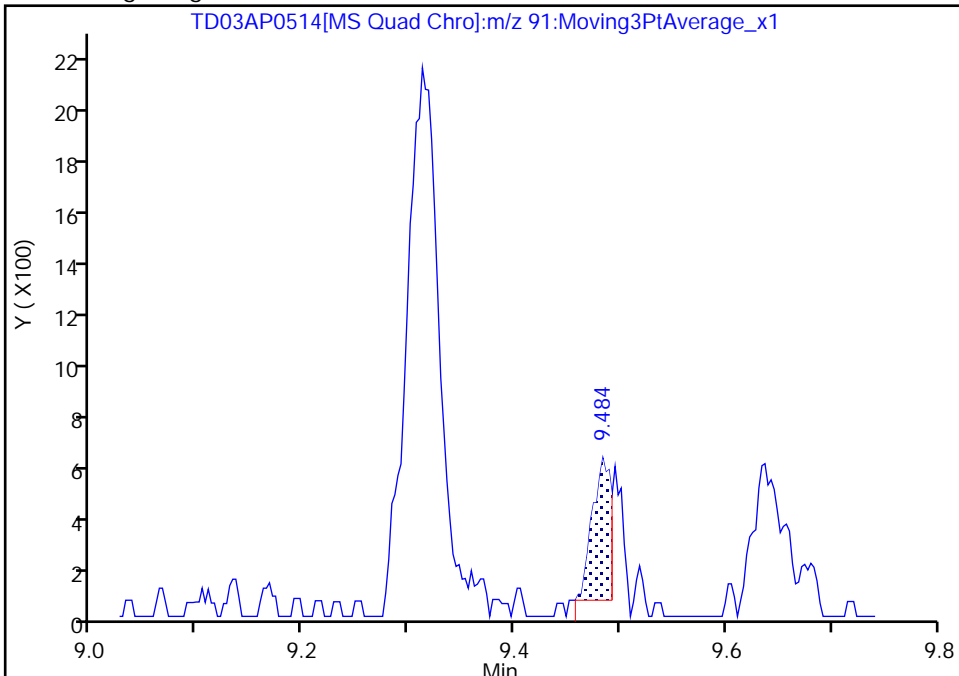
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD03AP0514.D
Injection Date: 14-May-2022 13:53:30 Instrument ID: CMS29
Lims ID: STD03AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

83 1-Chlorohexane, CAS: 544-10-5

Signal: 1

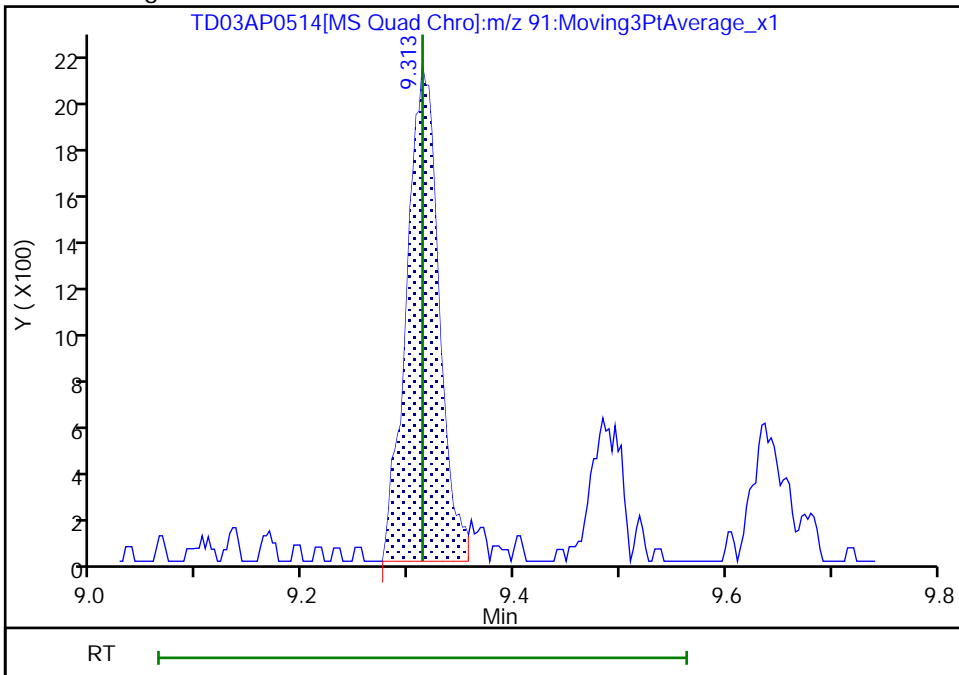
RT: 9.48
Area: 673
Amount: 0.176215
Amount Units: ug/l

Processing Integration Results



RT: 9.31
Area: 4532
Amount: 1.301499
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:05:44
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
 Lims ID: STD04AP
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-May-2022 14:16:53 ALS Bottle#: 0 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04AP
 Misc. Info.: 500-0085710-015
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:12 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:47:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.726	2.732	-0.006	38	1686	80.0	69.6	M
18 Isopropyl alcohol	45	3.201	3.195	0.006	34	2405	20.0	20.0	Ma
19 Acetonitrile	41	3.311	3.308	0.003	38	2824	20.0	16.8	
* 23 TBA-d9 (IS)	65	3.479	3.484	-0.005	0	202132	1000.0	1000.0	
31 Isopropyl ether	45	4.139	4.139	0.000	89	15485	2.00	2.14	
32 2-Chloro-1,3-butadiene	53	4.159	4.165	-0.006	74	6944	2.00	2.03	
33 Tert-butyl ethyl ether	59	4.478	4.481	-0.003	92	14899	2.00	2.14	
38 Ethyl acetate	43	4.698	4.698	0.000	89	11728	4.00	4.52	
37 Propionitrile	54	4.706	4.706	0.000	52	5133	20.0	21.1	
39 Methacrylonitrile	41	4.851	4.854	-0.003	88	18606	20.0	18.6	
52 Isooctane	57	5.566	5.572	-0.006	93	19298	2.00	2.13	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	91	14302	2.00	2.09	
* 55 Fluorobenzene (IS)	96	5.775	5.780	-0.005	99	468319	50.0	50.0	
56 n-Butanol	56	6.085	6.076	0.009	59	3723	50.0	52.1	Ma
58 Ethyl acrylate	55	6.273	6.270	0.003	60	4901	2.00	2.08	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	70	6910	2.00	1.98	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	16162	1000.0	1000.0	M
64 Methyl methacrylate	41	6.525	6.525	0.000	62	5941	4.00	3.98	
67 2-Nitropropane	43	6.965	6.965	0.000	48	2334	4.00	3.94	M
80 n-Butyl acetate	43	8.560	8.560	0.000	87	6613	2.00	2.37	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	360773	50.0	50.0	
83 1-Chlorohexane	91	9.310	9.313	-0.003	31	8022	2.00	2.23	
92 Cyclohexanone	55	10.633	10.633	0.000	87	12835	200.0	198.9	
103 2-Ethyltoluene	105	11.340	11.340	0.000	92	22144	2.00	1.79	
105 Pentachloroethane	167	11.473	11.476	-0.003	75	3095	2.00	1.81	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	210915	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	84	19965	2.00	1.85	
113 Benzyl chloride	126	11.968	11.968	0.000	83	2029	2.00	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	87	9769	2.00	1.98	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	61	9929	2.00	2.21	
123 1-Methylnaphthalene	142	14.721	14.718	0.003	56	8113	2.00	2.14	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWCYCHXWK_00216	Amount Added: 2.00	Units: uL
LOWAPIX_00038	Amount Added: 2.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D

Injection Date: 14-May-2022 14:16:53

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD04AP

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

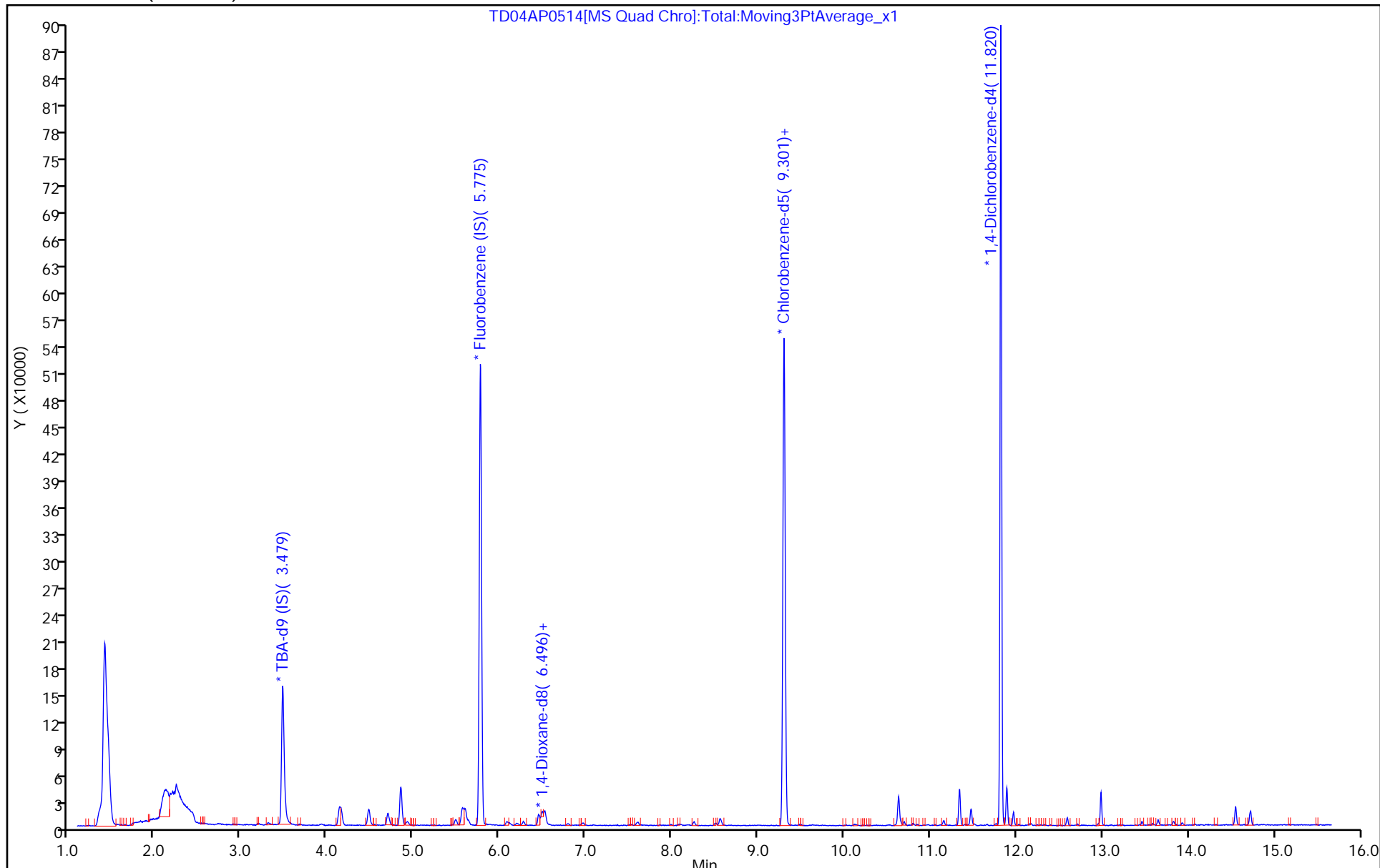
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

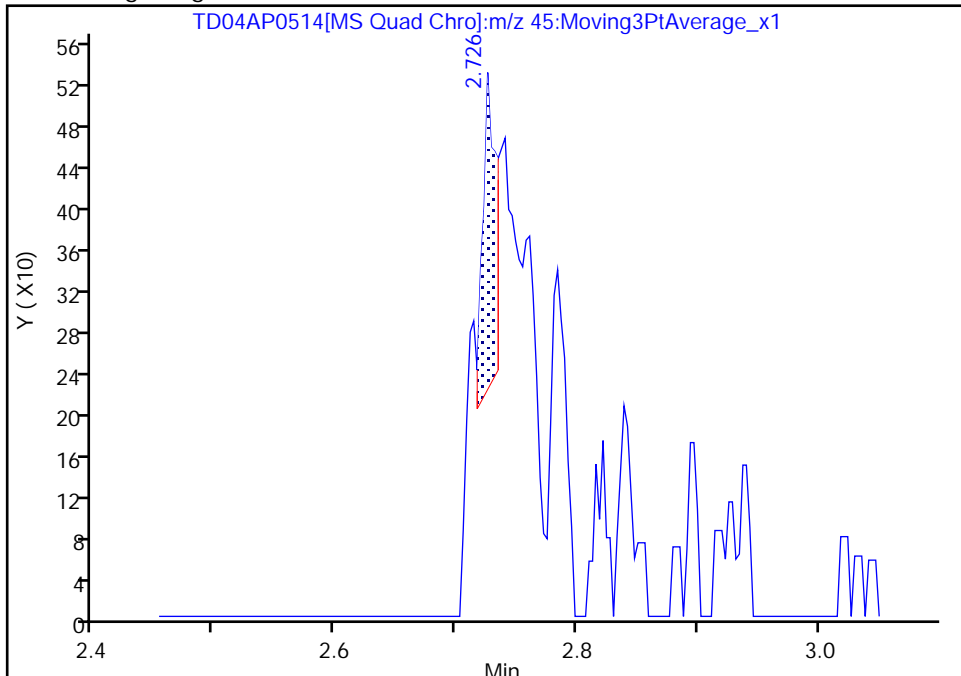
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
Injection Date: 14-May-2022 14:16:53 Instrument ID: CMS29
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

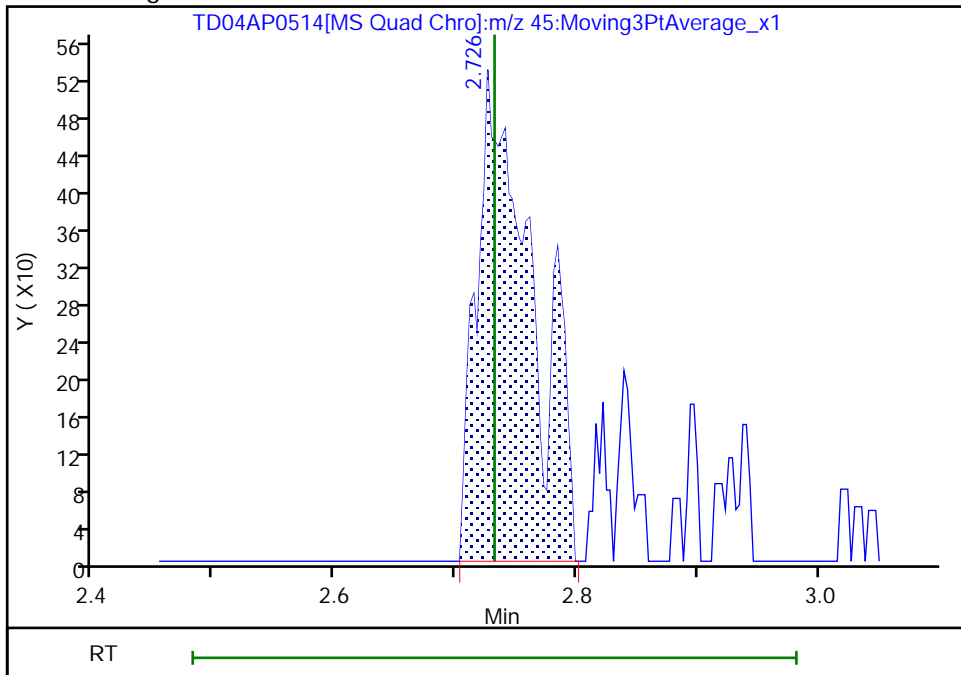
RT: 2.73
Area: 231
Amount: 113.7401
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 1686
Amount: 69.551794
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:47:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

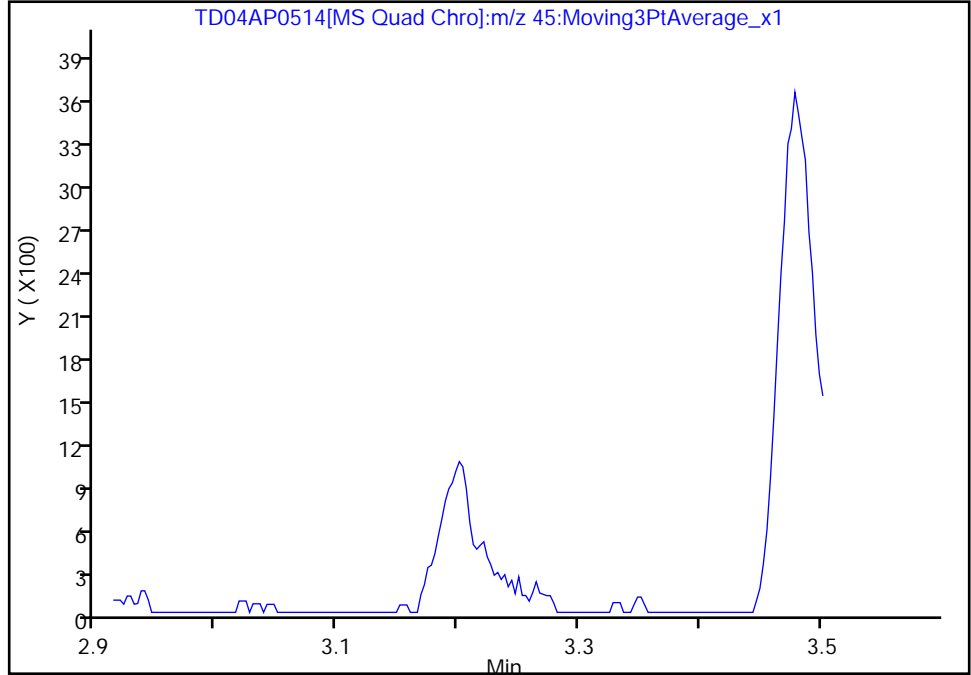
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
Injection Date: 14-May-2022 14:16:53 Instrument ID: CMS29
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

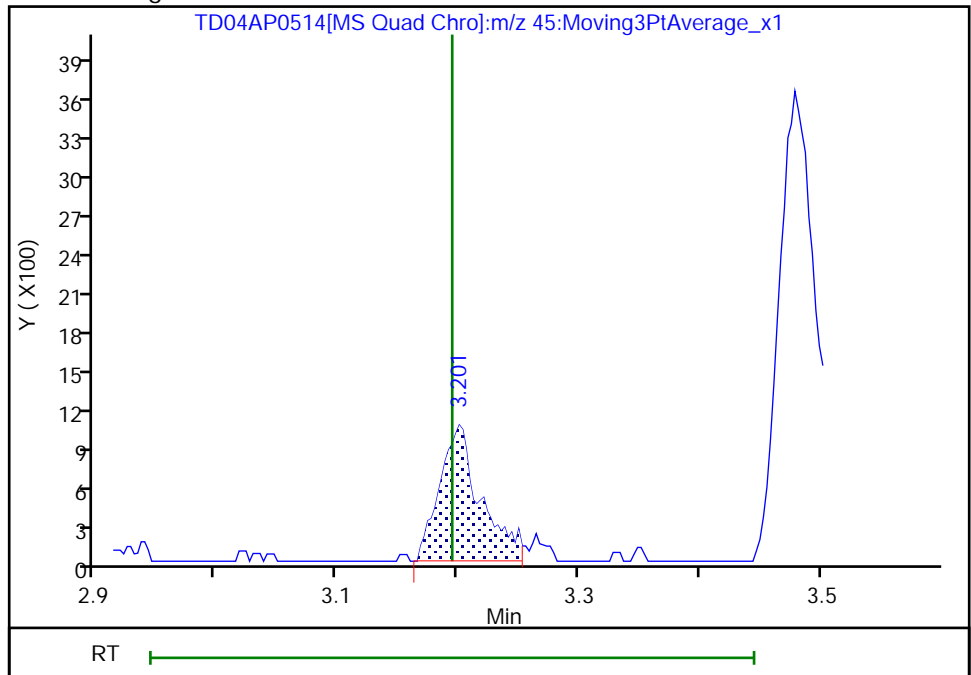
Not Detected
Expected RT: 3.20

Processing Integration Results



Manual Integration Results

RT: 3.20
Area: 2405
Amount: 19.975675
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:53:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

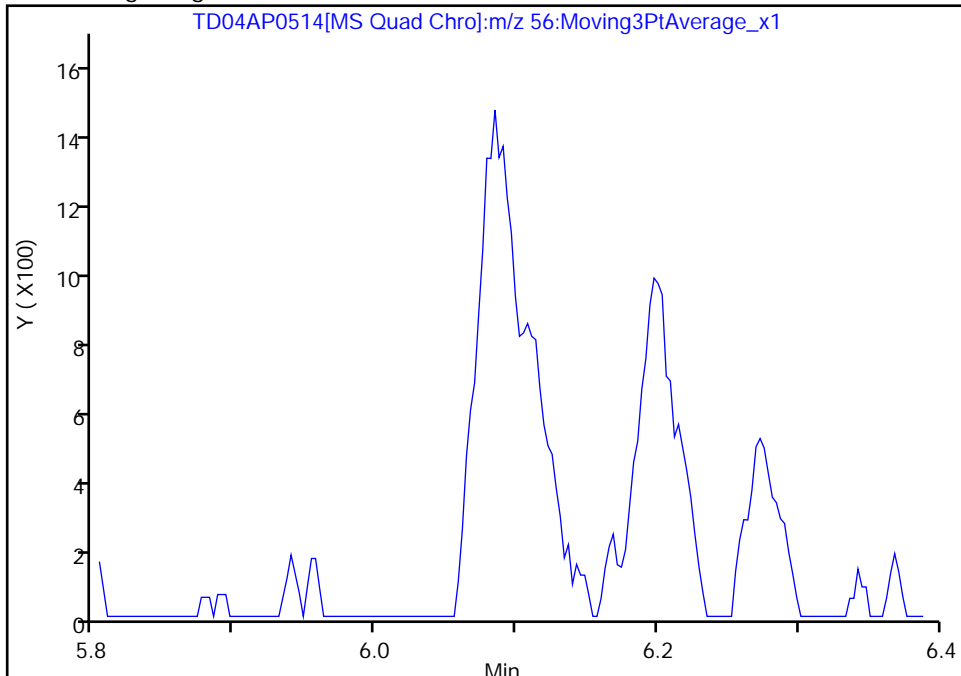
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
Injection Date: 14-May-2022 14:16:53 Instrument ID: CMS29
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

56 n-Butanol, CAS: 71-36-3

Signal: 1

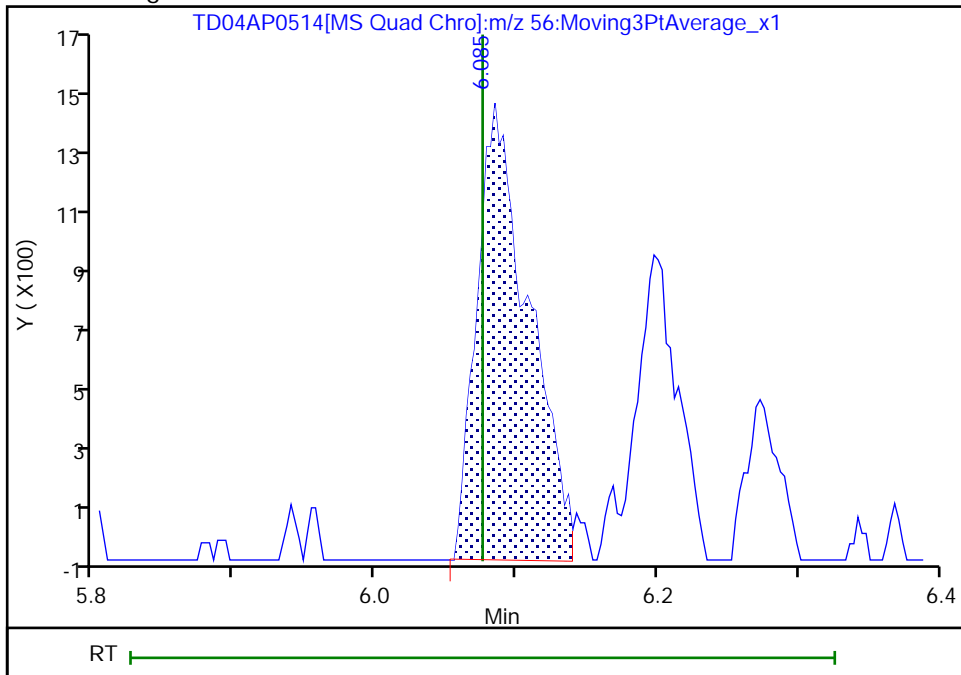
Not Detected
Expected RT: 6.08

Processing Integration Results



Manual Integration Results

RT: 6.08
Area: 3723
Amount: 52.111360
Amount Units: ug/l



Reviewer: ficarello, 15-May-2022 13:47:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

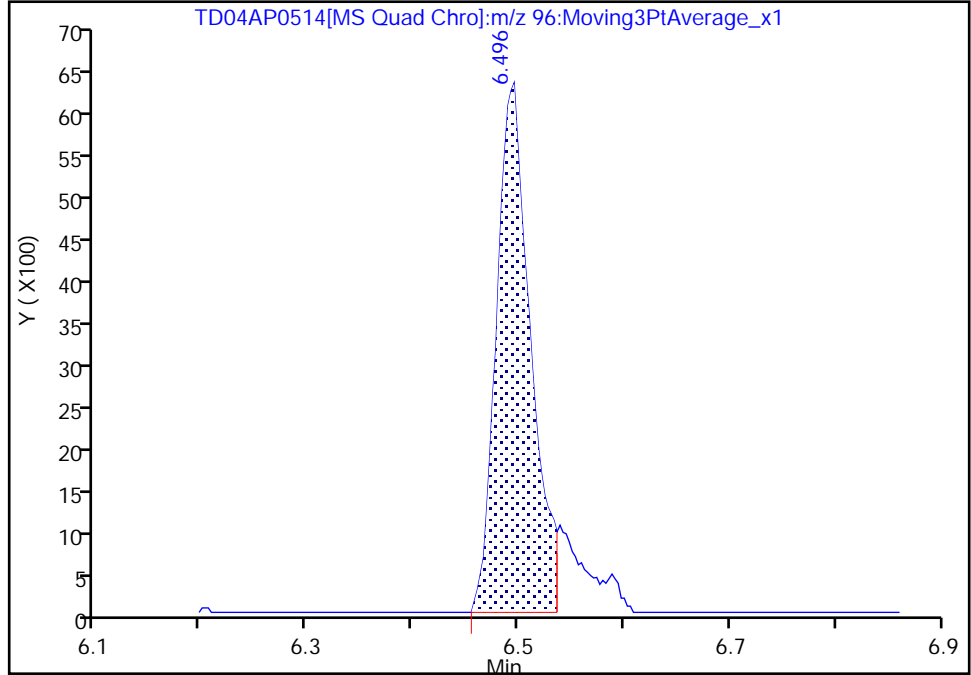
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
Injection Date: 14-May-2022 14:16:53 Instrument ID: CMS29
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

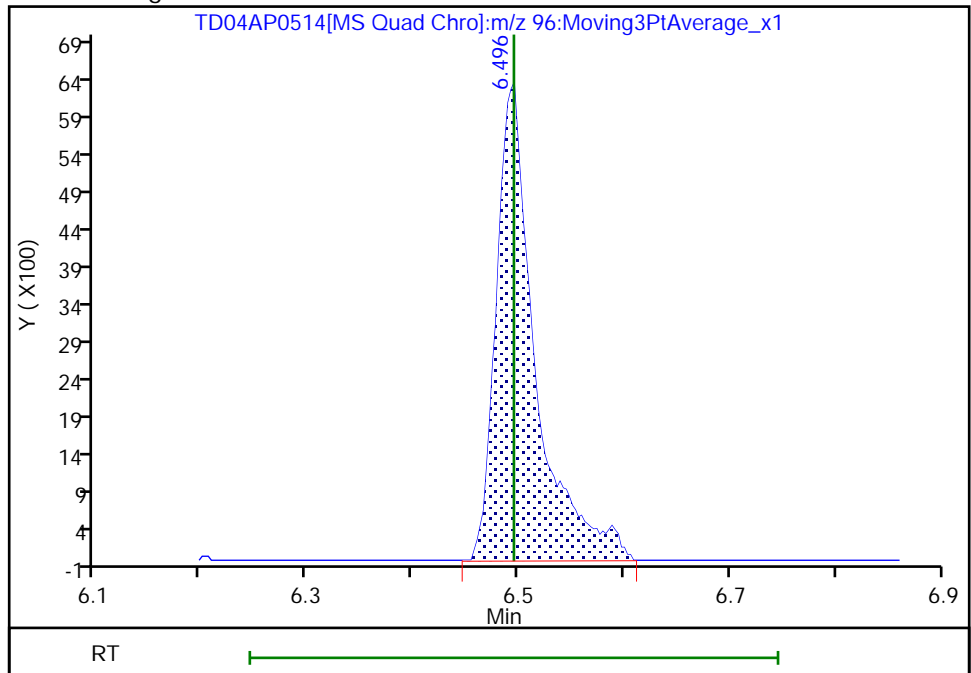
RT: 6.50
Area: 14034
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 16162
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:06:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

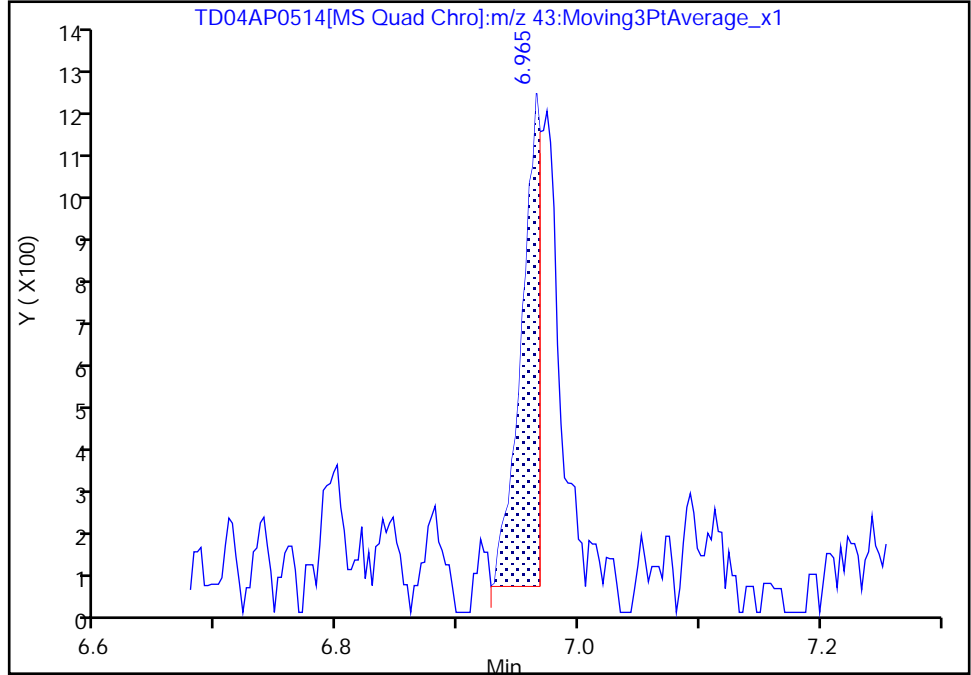
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD04AP0514.D
Injection Date: 14-May-2022 14:16:53 Instrument ID: CMS29
Lims ID: STD04AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

67 2-Nitropropane, CAS: 79-46-9

Signal: 1

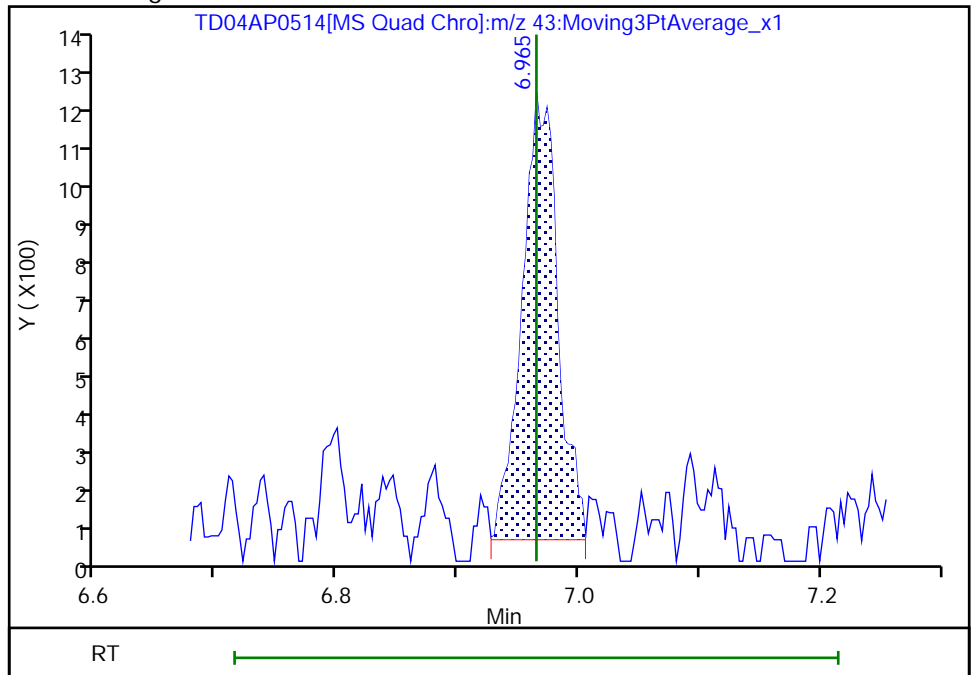
RT: 6.96
Area: 1241
Amount: 2.515884
Amount Units: ug/l

Processing Integration Results



RT: 6.96
Area: 2334
Amount: 3.937715
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:51:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D
 Lims ID: STD05AP
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-May-2022 14:40:31 ALS Bottle#: 0 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD05AP
 Misc. Info.: 500-0085710-016
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:16 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:48:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.732	2.732	0.000	41	3851	200.0	206.8	M
18 Isopropyl alcohol	45	3.195	3.195	0.000	64	5756	50.0	50.6	a
19 Acetonitrile	41	3.314	3.308	0.006	80	8682	50.0	53.6	
* 23 TBA-d9 (IS)	65	3.479	3.484	-0.005	0	191170	1000.0	1000.0	
31 Isopropyl ether	45	4.139	4.139	0.000	90	35829	5.00	5.14	
32 2-Chloro-1,3-butadiene	53	4.165	4.165	0.000	86	16148	5.00	4.90	
33 Tert-butyl ethyl ether	59	4.480	4.481	-0.001	93	33886	5.00	5.07	
38 Ethyl acetate	43	4.698	4.698	0.000	96	20585	10.0	10.2	
37 Propionitrile	54	4.706	4.706	0.000	76	11522	50.0	49.3	a
39 Methacrylonitrile	41	4.854	4.854	0.000	88	44686	50.0	46.5	
52 Isooctane	57	5.572	5.572	0.000	98	42778	5.00	4.91	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	94	33193	5.00	5.03	
* 55 Fluorobenzene (IS)	96	5.778	5.780	-0.002	99	450108	50.0	50.0	
56 n-Butanol	56	6.079	6.076	0.003	81	6358	125.0	101.9	
58 Ethyl acrylate	55	6.273	6.270	0.003	87	12136	5.00	5.37	
61 2,3-Dichloro-1-propene	75	6.458	6.455	0.003	88	15198	5.00	4.53	
* 62 1,4-Dioxane-d8	96	6.490	6.496	-0.006	0	15727	1000.0	1000.0	M
64 Methyl methacrylate	41	6.525	6.525	0.000	77	14232	10.0	9.92	
67 2-Nitropropane	43	6.965	6.965	0.000	78	5014	10.0	9.67	
80 n-Butyl acetate	43	8.563	8.560	0.003	88	14891	5.00	5.40	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	357294	50.0	50.0	
83 1-Chlorohexane	91	9.316	9.313	0.003	38	18097	5.00	5.07	
92 Cyclohexanone	55	10.630	10.633	-0.003	94	28980	500.0	459.2	
103 2-Ethyltoluene	105	11.340	11.340	0.000	97	52967	5.00	4.38	
105 Pentachloroethane	167	11.473	11.476	-0.003	83	8412	5.00	5.02	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	206254	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	90	46100	5.00	4.36	
113 Benzyl chloride	126	11.965	11.968	-0.003	91	5241	5.00	4.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	92	21908	5.00	4.53	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	73	22337	5.00	4.13	
123 1-Methylnaphthalene	142	14.721	14.718	0.003	82	19180	5.00	4.22	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWCYCHXWK_00216 Amount Added: 5.00 Units: uL

LOWAPIX_00038 Amount Added: 5.00 Units: uL

8260 LOWIS1_00164 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D

Injection Date: 14-May-2022 14:40:31

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD05AP

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

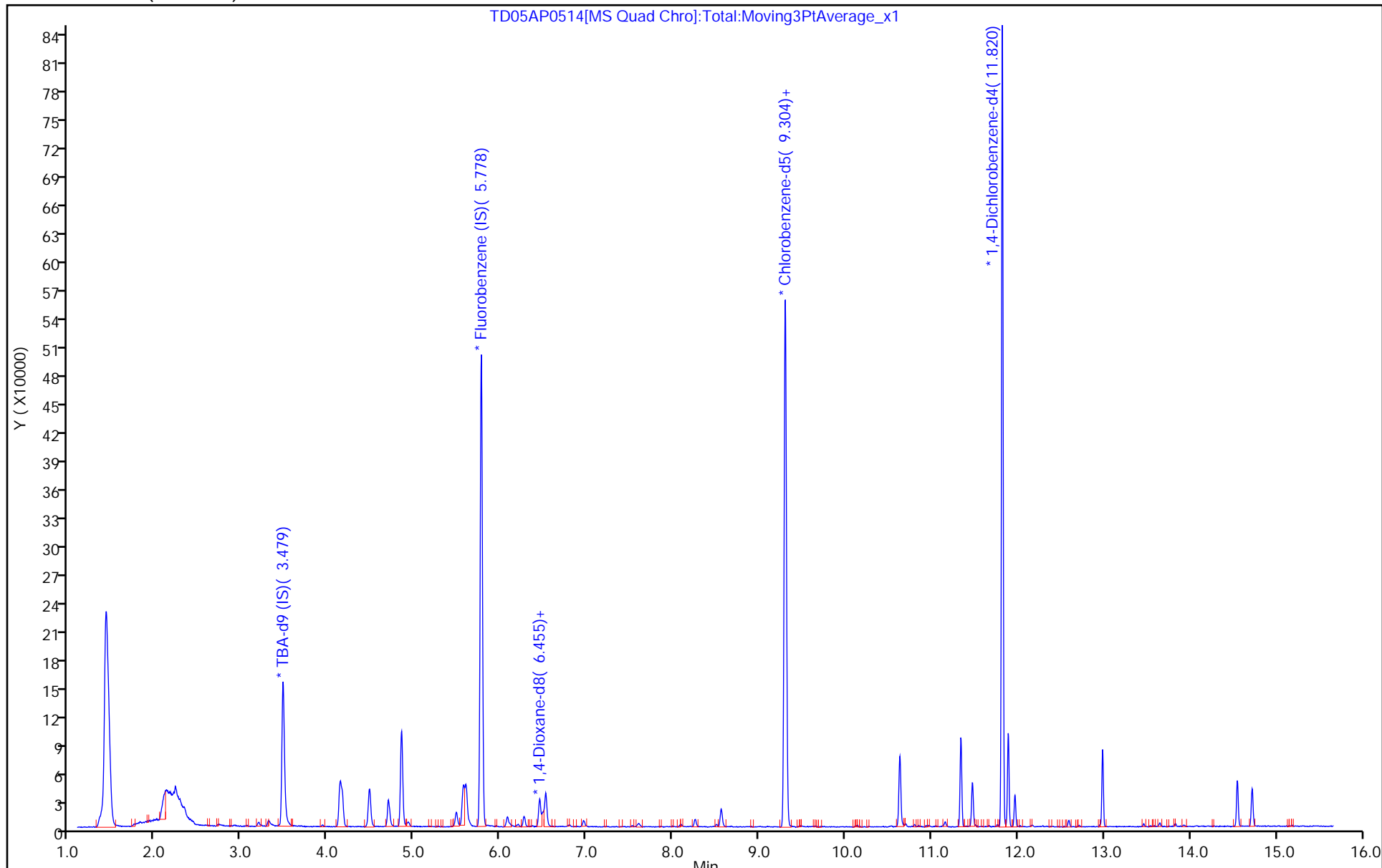
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

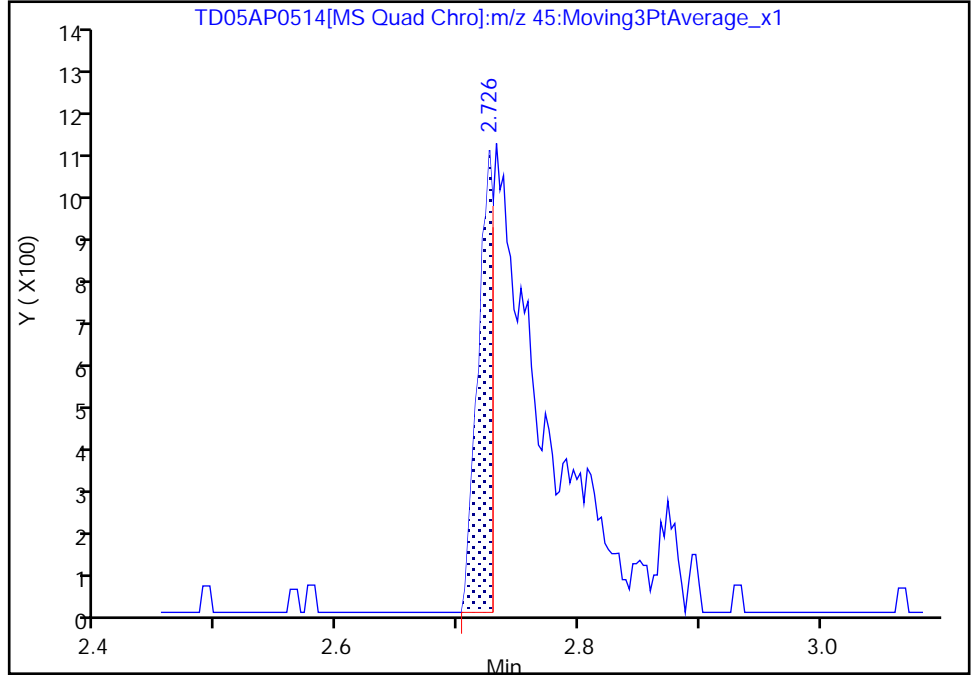
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D
Injection Date: 14-May-2022 14:40:31 Instrument ID: CMS29
Lims ID: STD05AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

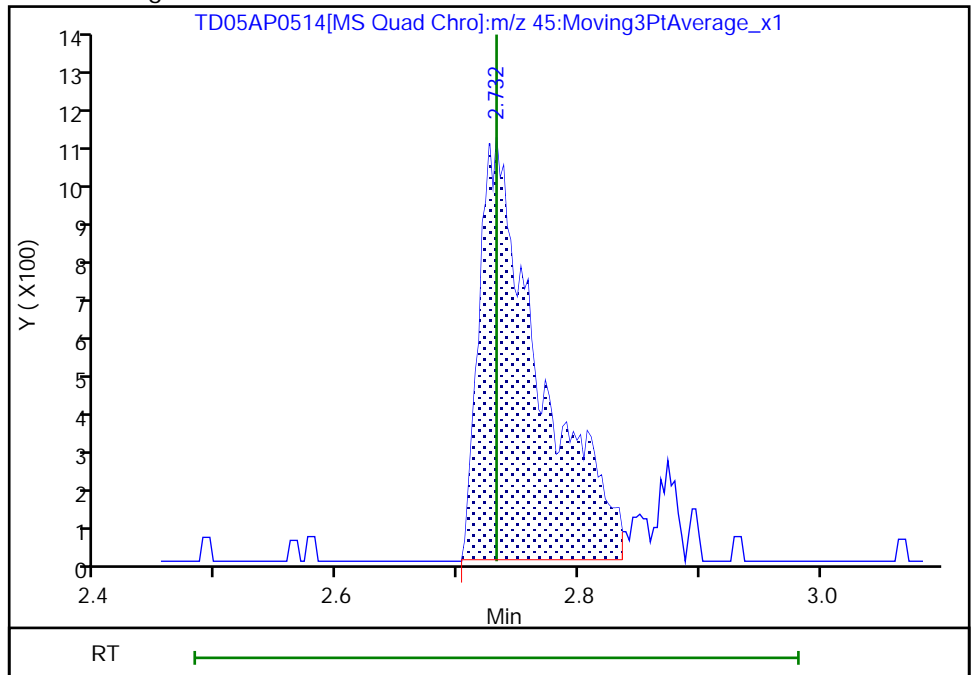
RT: 2.73
Area: 973
Amount: 72.238477
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 3851
Amount: 206.7639
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:48:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

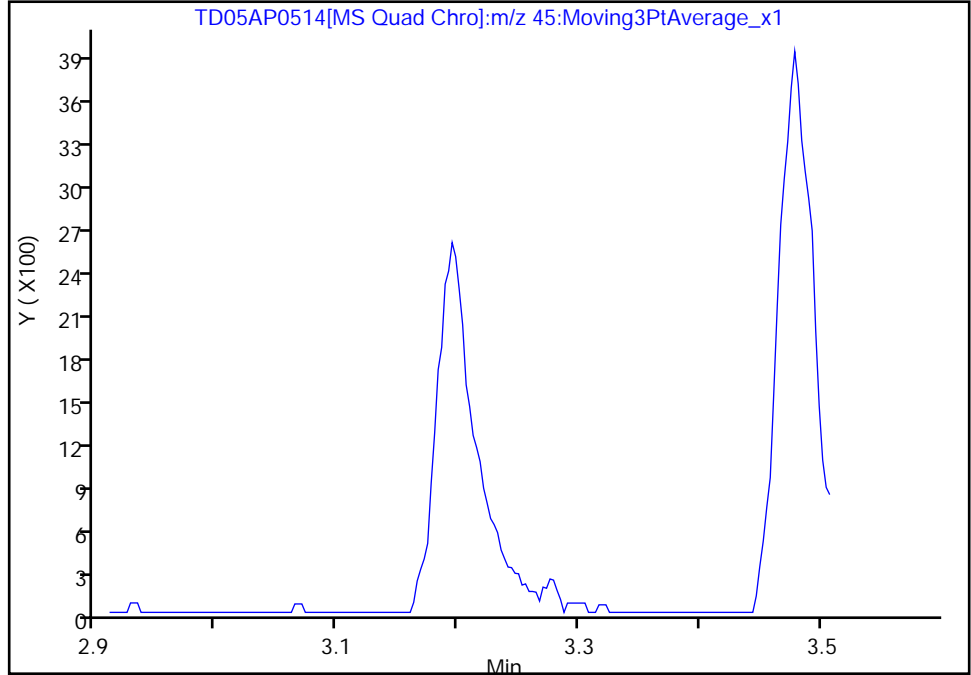
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D
Injection Date: 14-May-2022 14:40:31 Instrument ID: CMS29
Lims ID: STD05AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

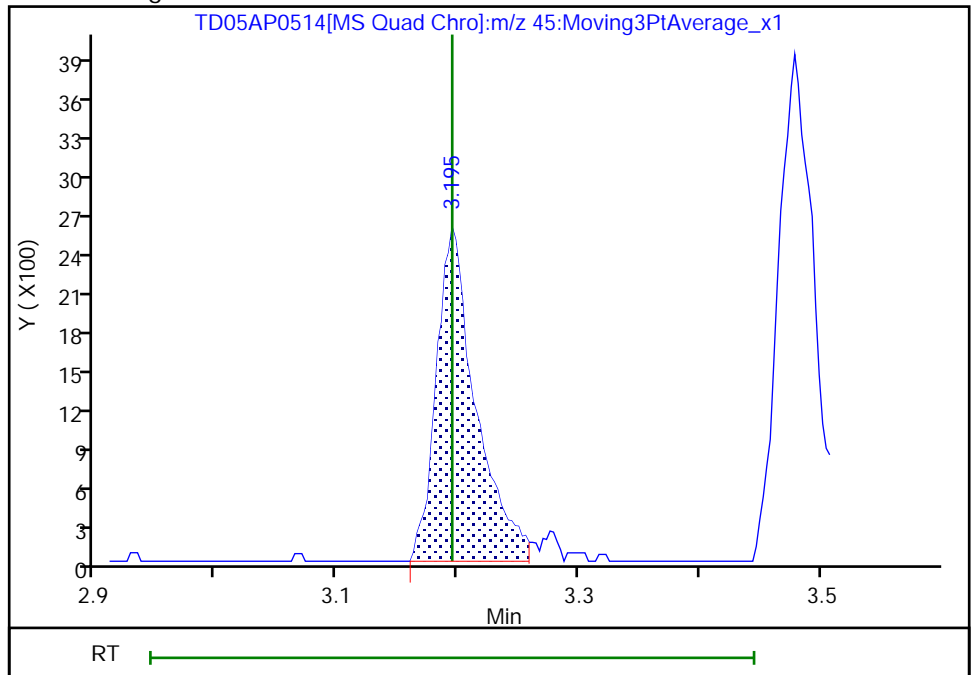
Not Detected
Expected RT: 3.20

Processing Integration Results



RT: 3.19
Area: 5756
Amount: 50.550155
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:53:45
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

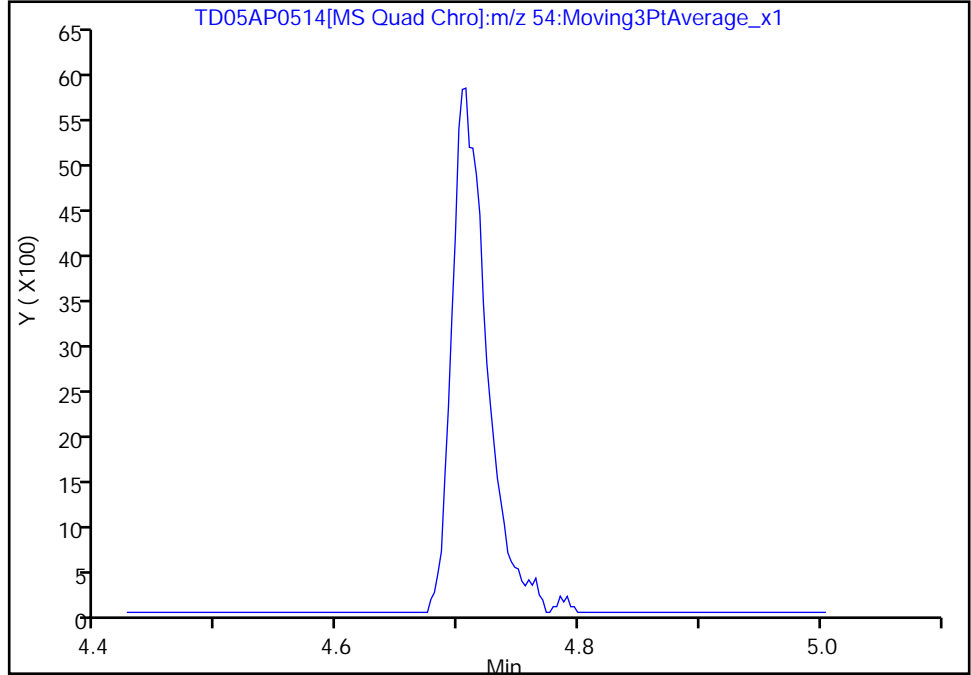
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D
Injection Date: 14-May-2022 14:40:31 Instrument ID: CMS29
Lims ID: STD05AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

37 Propionitrile, CAS: 107-12-0

Signal: 1

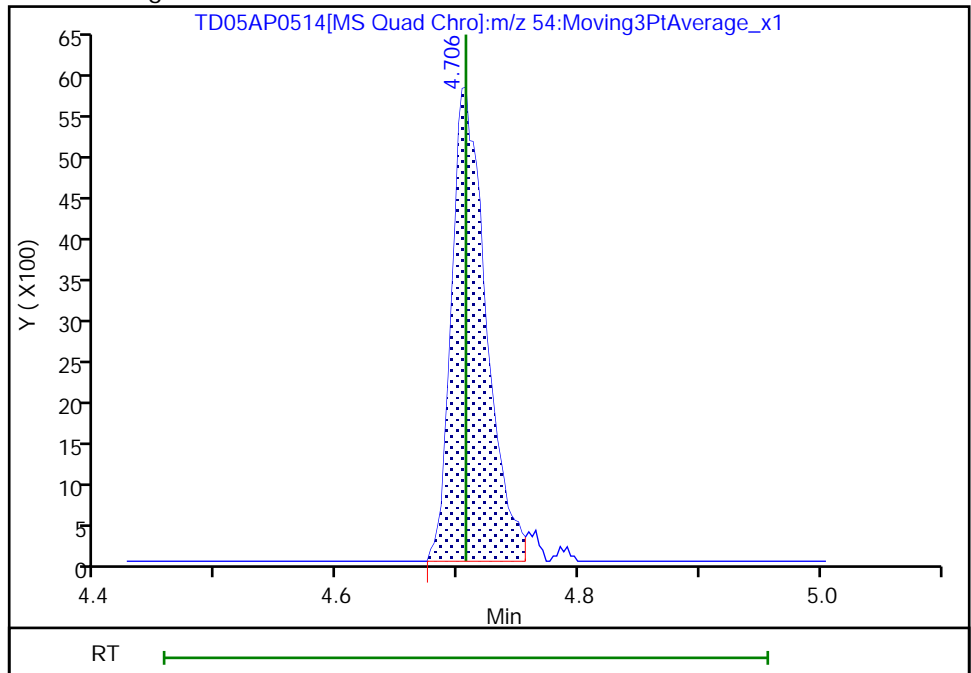
Not Detected
Expected RT: 4.71

Processing Integration Results



RT: 4.71
Area: 11522
Amount: 49.274673
Amount Units: ug/l

Manual Integration Results



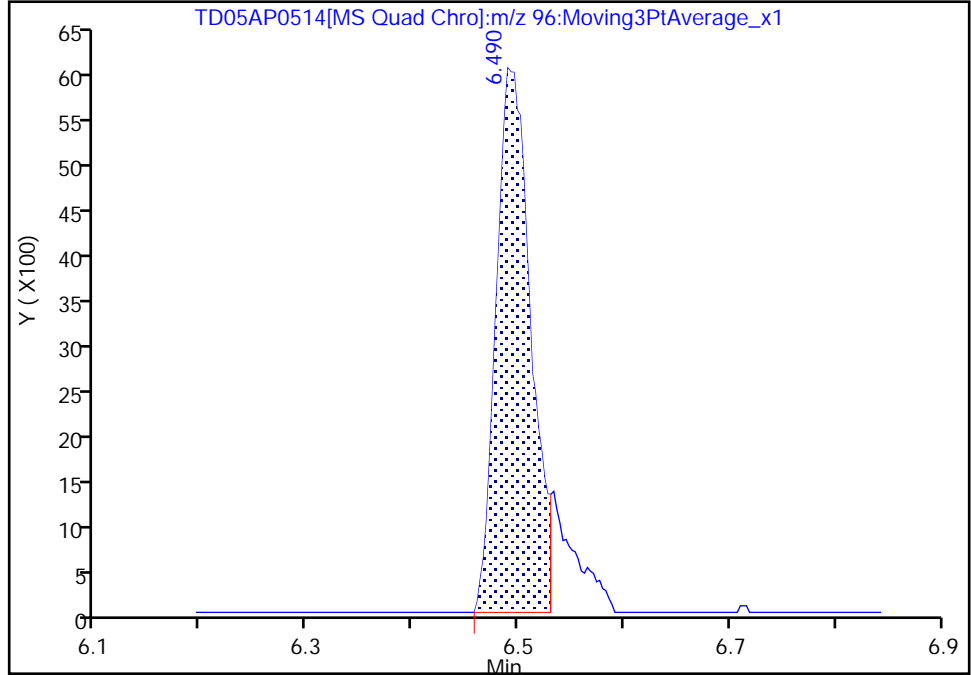
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD05AP0514.D
Injection Date: 14-May-2022 14:40:31 Instrument ID: CMS29
Lims ID: STD05AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

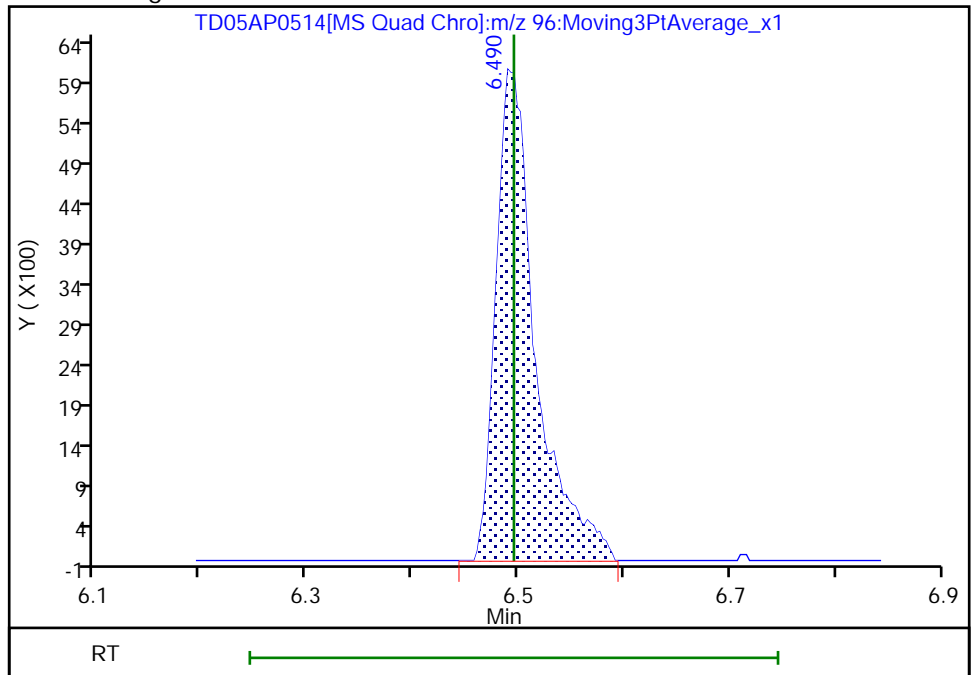
RT: 6.49
Area: 13653
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 15727
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:06:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD06AP0514.D
 Lims ID: STD06AP
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-May-2022 15:04:06 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD06AP
 Misc. Info.: 500-0085710-017
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:20 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date:

15-May-2022 13:49:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.726	2.732	-0.006	94	13113	800.0	818.8	M
18 Isopropyl alcohol	45	3.189	3.195	-0.006	94	20687	200.0	192.8	a
19 Acetonitrile	41	3.305	3.308	-0.003	95	33725	200.0	203.4	
* 23 TBA-d9 (IS)	65	3.476	3.484	-0.008	0	180145	1000.0	1000.0	
31 Isopropyl ether	45	4.133	4.139	-0.006	91	146645	20.0	20.6	
32 2-Chloro-1,3-butadiene	53	4.159	4.165	-0.006	94	67904	20.0	20.2	
33 Tert-butyl ethyl ether	59	4.478	4.481	-0.003	95	142154	20.0	20.8	
38 Ethyl acetate	43	4.692	4.698	-0.006	99	70507	40.0	39.6	
37 Propionitrile	54	4.701	4.706	-0.005	86	47051	200.0	196.6	
39 Methacrylonitrile	41	4.848	4.854	-0.006	90	191088	200.0	194.4	
52 Isooctane	57	5.569	5.572	-0.003	96	175350	20.0	19.7	
53 Tert-amyl methyl ether	73	5.598	5.601	-0.003	96	133242	20.0	19.8	
* 55 Fluorobenzene (IS)	96	5.775	5.780	-0.005	99	460583	50.0	50.0	
56 n-Butanol	56	6.073	6.076	-0.003	83	25974	500.0	474.1	
58 Ethyl acrylate	55	6.270	6.270	0.000	97	44566	20.0	19.3	
61 2,3-Dichloro-1-propene	75	6.452	6.455	-0.003	88	66398	20.0	19.3	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	14145	1000.0	1000.0	M
64 Methyl methacrylate	41	6.525	6.525	0.000	85	55716	40.0	37.9	
67 2-Nitropropane	43	6.962	6.965	-0.003	94	19509	40.0	40.8	
80 n-Butyl acetate	43	8.557	8.560	-0.003	94	57848	20.0	21.1	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	354339	50.0	50.0	
83 1-Chlorohexane	91	9.316	9.313	0.003	55	66947	20.0	18.9	
92 Cyclohexanone	55	10.633	10.633	0.000	95	113694	2000.0	1834.4	
103 2-Ethyltoluene	105	11.340	11.340	0.000	97	214275	20.0	18.0	
105 Pentachloroethane	167	11.473	11.476	-0.003	90	29522	20.0	18.0	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	202546	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	94	198103	20.0	19.1	
113 Benzyl chloride	126	11.968	11.968	0.000	96	21026	20.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	96	89682	20.0	18.9	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	88	98407	20.0	16.0	
123 1-Methylnaphthalene	142	14.718	14.718	0.000	92	82655	20.0	16.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOWCYCHXWK_00216 Amount Added: 20.00 Units: uL

LOWAPIX_00038 Amount Added: 20.00 Units: uL

8260 LOWIS1_00164 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD06AP0514.D

Injection Date: 14-May-2022 15:04:06

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD06AP

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

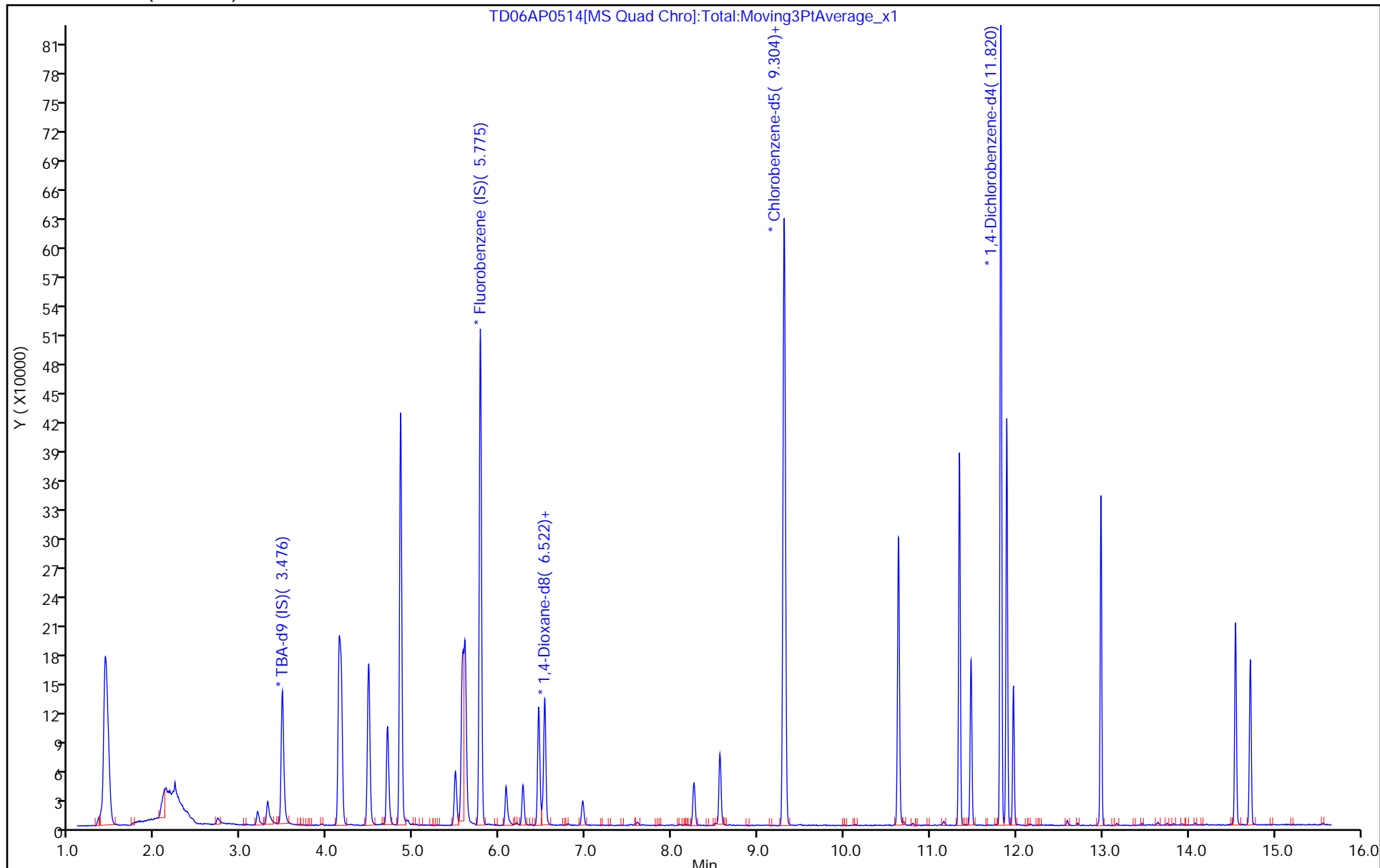
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

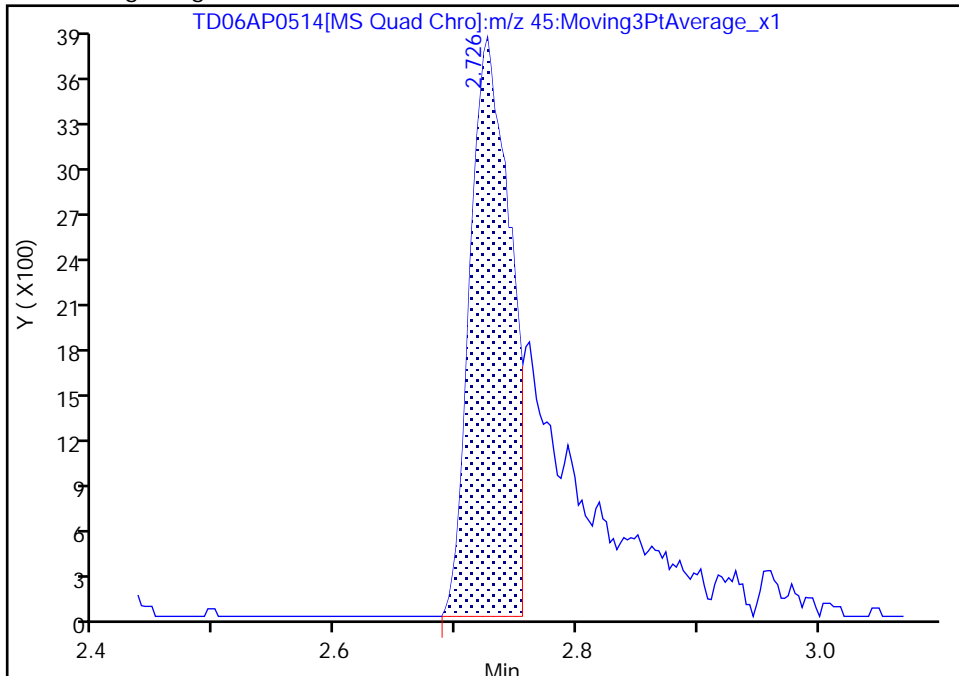
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD06AP0514.D
Injection Date: 14-May-2022 15:04:06 Instrument ID: CMS29
Lims ID: STD06AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

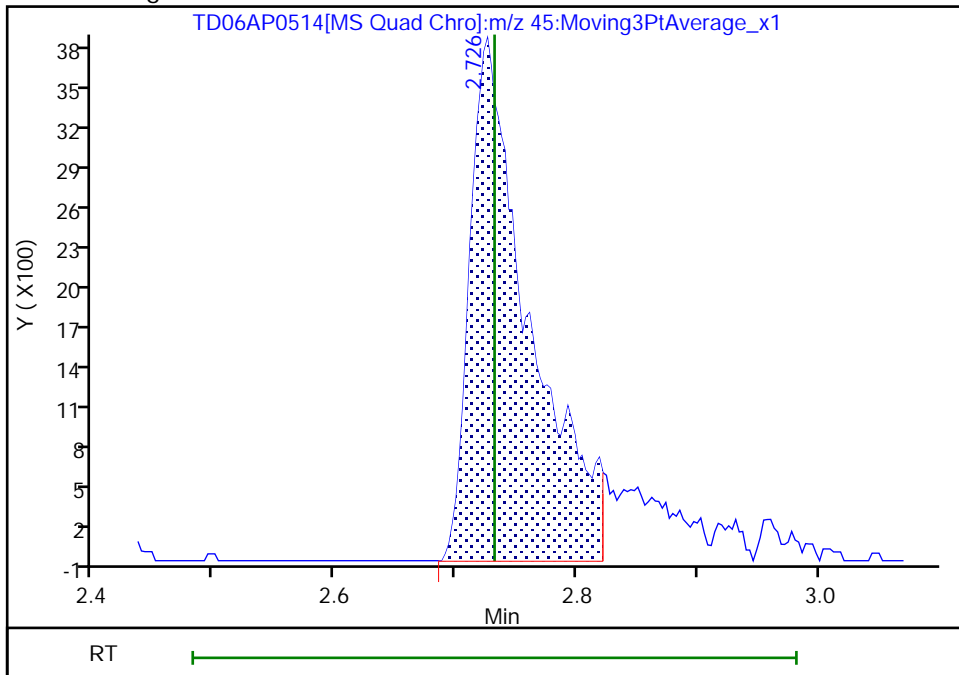
RT: 2.73
Area: 8854
Amount: 746.5734
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 13113
Amount: 818.7800
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:49:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

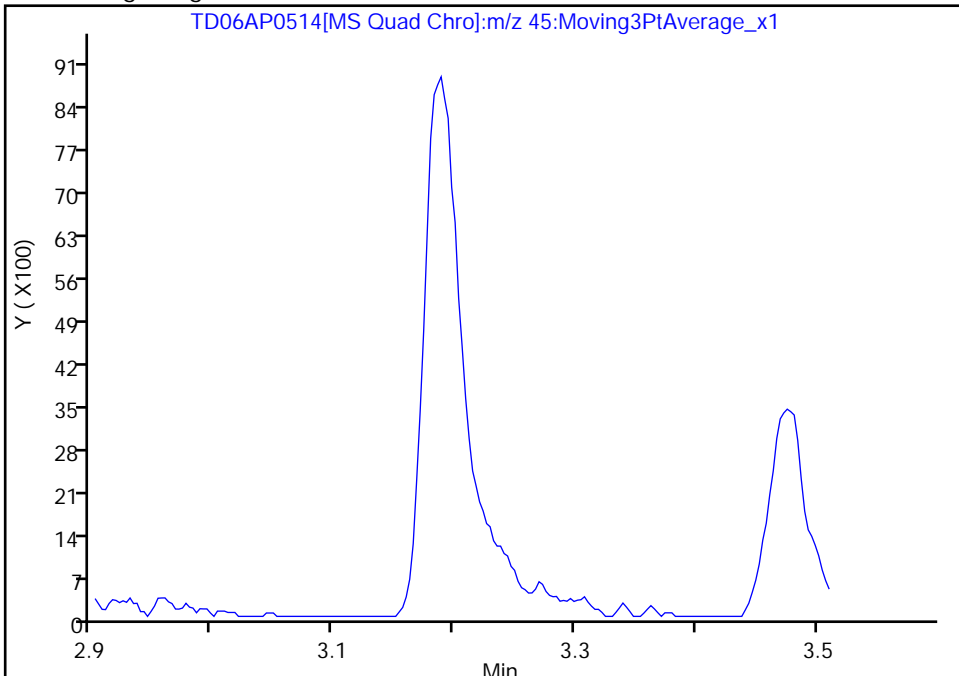
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD06AP0514.D
Injection Date: 14-May-2022 15:04:06 Instrument ID: CMS29
Lims ID: STD06AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

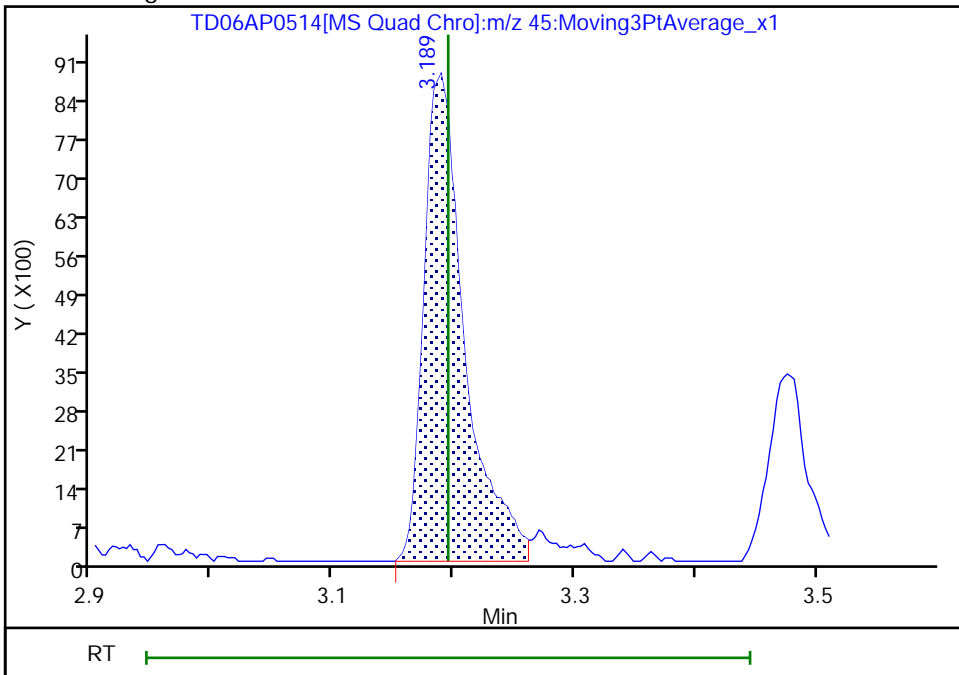
Not Detected
Expected RT: 3.20

Processing Integration Results



RT: 3.19
Area: 20687
Amount: 192.7954
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:53:53
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

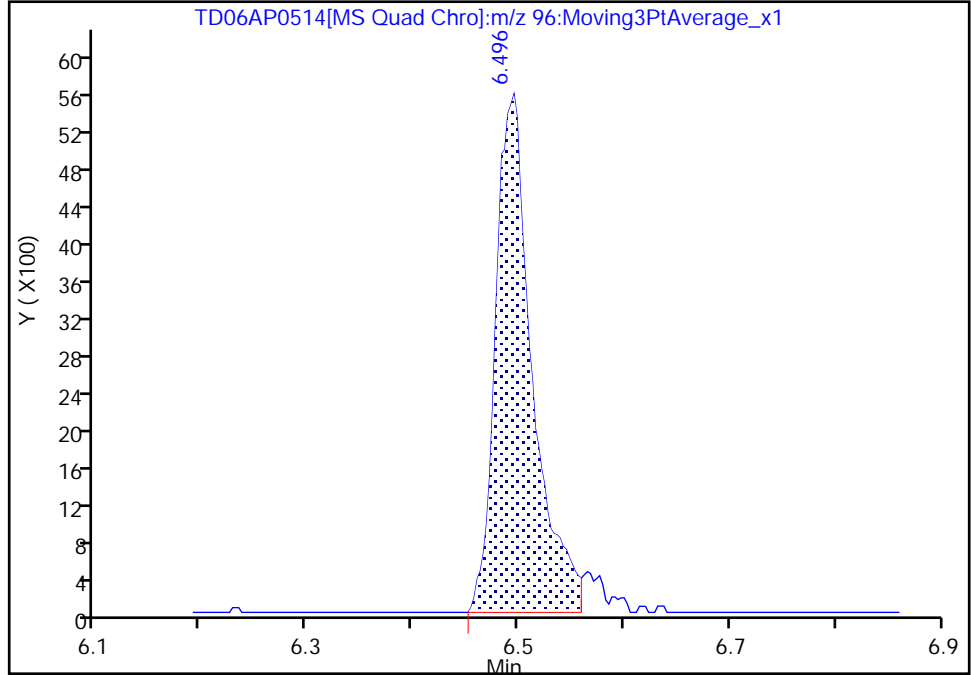
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD06AP0514.D
Injection Date: 14-May-2022 15:04:06 Instrument ID: CMS29
Lims ID: STD06AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

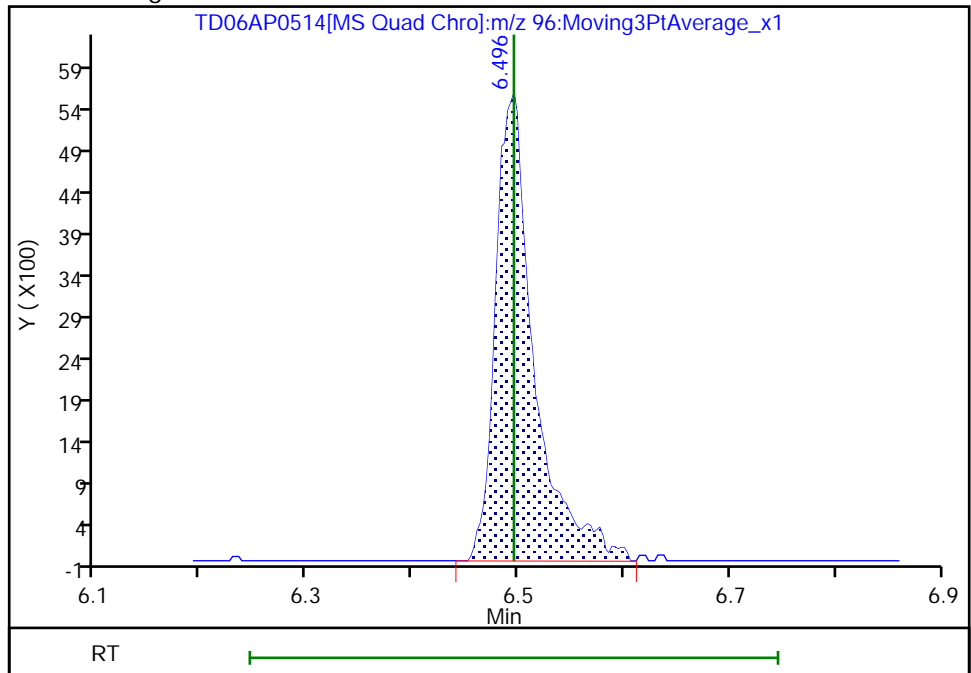
RT: 6.50
Area: 13449
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 14145
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:08:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD07AP0514.D
 Lims ID: STD07AP
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-May-2022 15:27:41 ALS Bottle#: 0 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD07AP
 Misc. Info.: 500-0085710-018
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:24 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:49:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.732	2.732	0.000	95	30604	2000.0	1923.9	M
18 Isopropyl alcohol	45	3.195	3.195	0.000	95	46992	500.0	432.7	a
19 Acetonitrile	41	3.308	3.308	0.000	95	74645	500.0	477.5	
* 23 TBA-d9 (IS)	65	3.482	3.482	0.000	0	182322	1000.0	1000.0	
31 Isopropyl ether	45	4.139	4.139	0.000	91	310922	50.0	46.2	
32 2-Chloro-1,3-butadiene	53	4.165	4.165	0.000	89	141392	50.0	44.5	
33 Tert-butyl ethyl ether	59	4.481	4.481	0.000	96	298094	50.0	46.2	
38 Ethyl acetate	43	4.698	4.698	0.000	99	148193	100.0	91.1	
37 Propionitrile	54	4.706	4.706	0.000	93	104810	500.0	464.6	
39 Methacrylonitrile	41	4.854	4.854	0.000	90	422040	500.0	455.3	
52 Isooctane	57	5.572	5.572	0.000	96	364604	50.0	43.3	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	95	289520	50.0	45.5	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	434281	50.0	50.0	
56 n-Butanol	56	6.076	6.076	0.000	87	59351	1250.0	1082.5	
58 Ethyl acrylate	55	6.270	6.270	0.000	97	97822	50.0	44.8	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	88	163688	50.0	50.6	
* 62 1,4-Dioxane-d8	96	6.493	6.493	0.000	0	14542	1000.0	1000.0	M
64 Methyl methacrylate	41	6.525	6.525	0.000	85	121956	100.0	88.1	
67 2-Nitropropane	43	6.965	6.965	0.000	91	40759	100.0	89.3	
80 n-Butyl acetate	43	8.560	8.560	0.000	96	121077	50.0	45.8	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	342241	50.0	50.0	
83 1-Chlorohexane	91	9.313	9.313	0.000	70	145889	50.0	42.7	
92 Cyclohexanone	55	10.633	10.633	0.000	95	252646	5000.0	4261.1	
103 2-Ethyltoluene	105	11.340	11.340	0.000	97	550509	50.0	48.4	
105 Pentachloroethane	167	11.476	11.476	0.000	91	79400	50.0	50.5	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	193761	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	94	425046	50.0	42.8	
113 Benzyl chloride	126	11.968	11.968	0.000	97	47881	50.0	46.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	195570	50.0	43.1	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	93	251284	50.0	41.4	
123 1-Methylnaphthalene	142	14.718	14.718	0.000	87	207146	50.0	41.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

2ETTOL WK STD_00173	Amount Added: 2.50	Units: uL
8260 23DCP WK_00233	Amount Added: 2.50	Units: uL
8260ADDS 2016_00214	Amount Added: 2.50	Units: uL
8260/624STD2_00328	Amount Added: 2.50	Units: uL
8260CYCHXWK_00324	Amount Added: 2.50	Units: uL
8260POLR ADDS_00286	Amount Added: 2.50	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD07AP0514.D

Injection Date: 14-May-2022 15:27:41

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD07AP

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

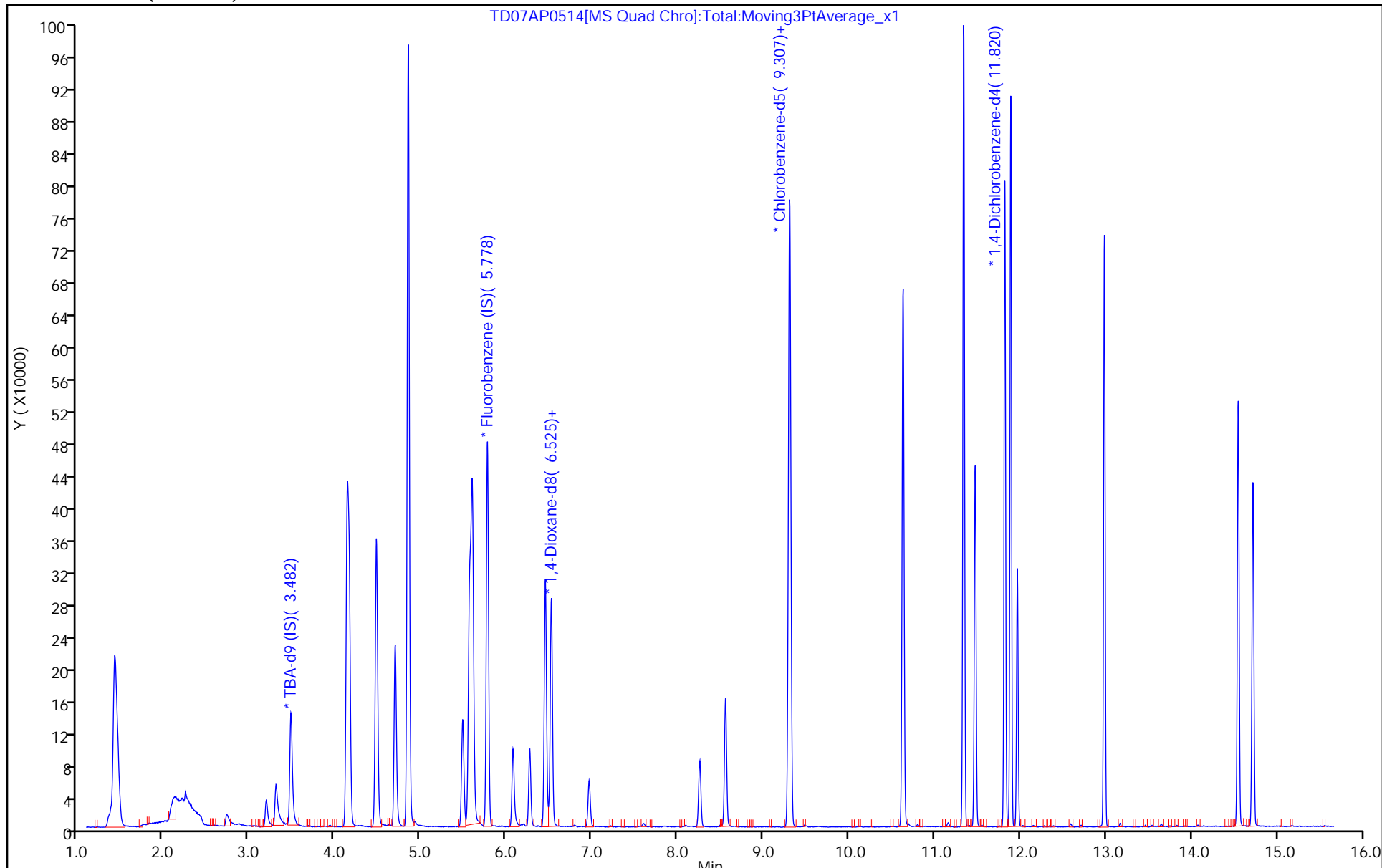
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

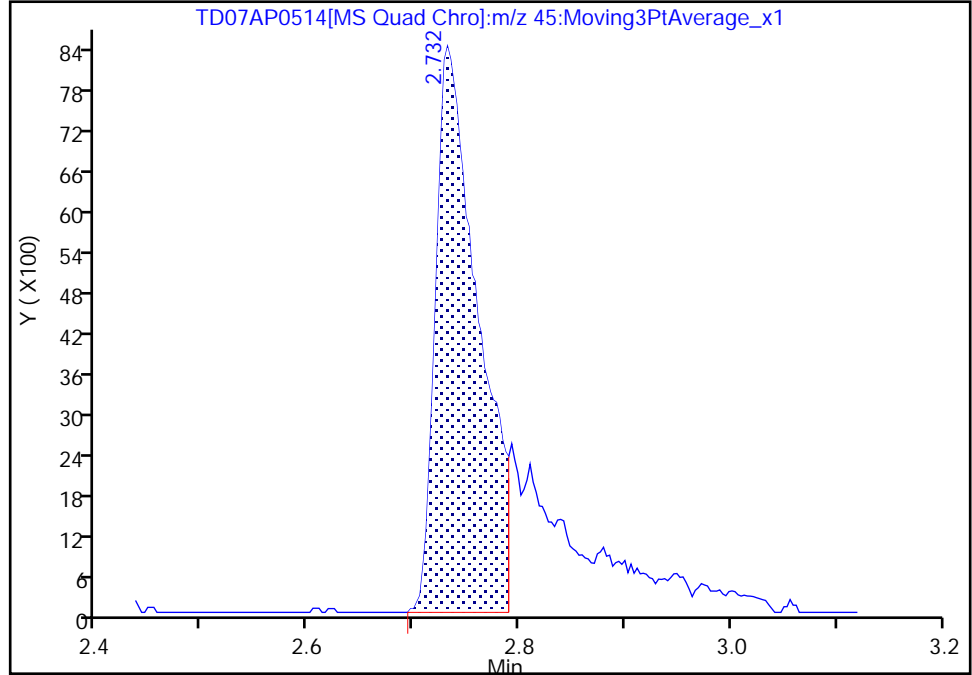
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD07AP0514.D
Injection Date: 14-May-2022 15:27:41 Instrument ID: CMS29
Lims ID: STD07AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

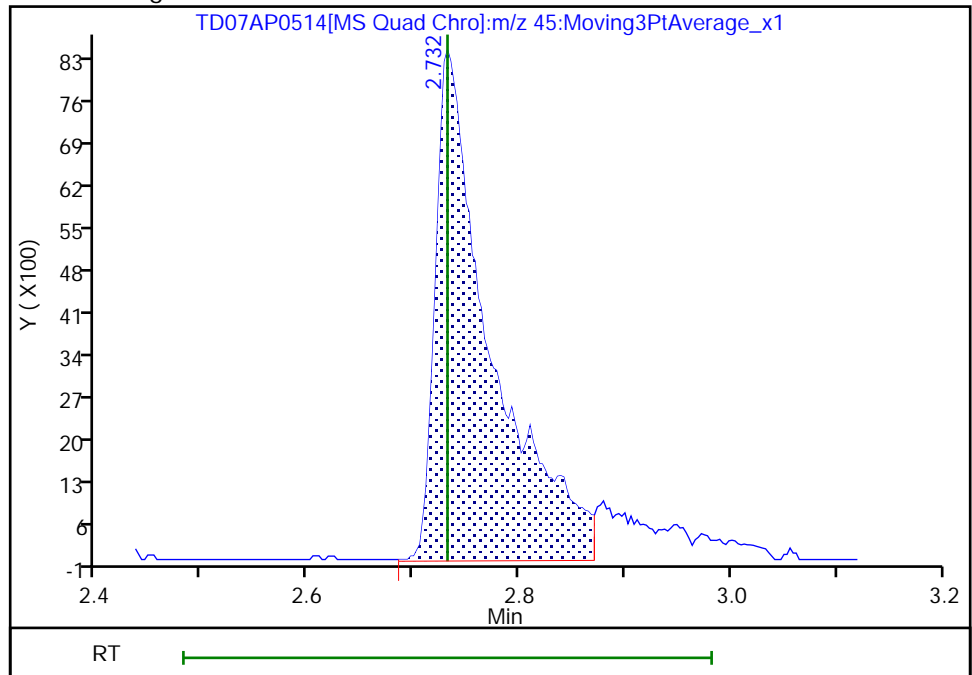
RT: 2.73
Area: 23498
Amount: 1545.3701
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 30604
Amount: 1923.9071
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:09:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

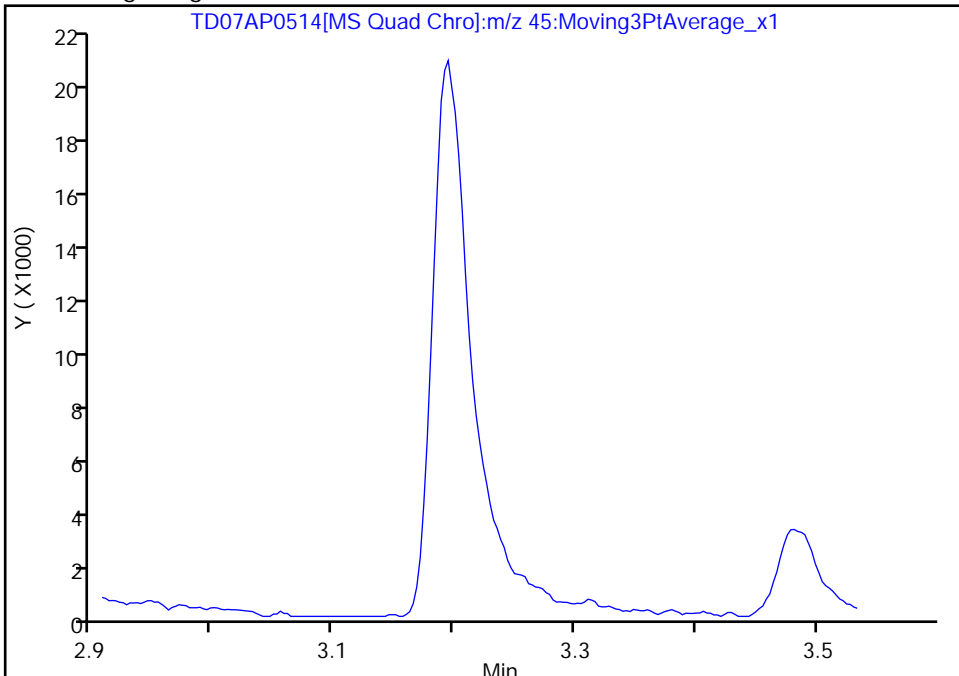
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD07AP0514.D
Injection Date: 14-May-2022 15:27:41 Instrument ID: CMS29
Lims ID: STD07AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

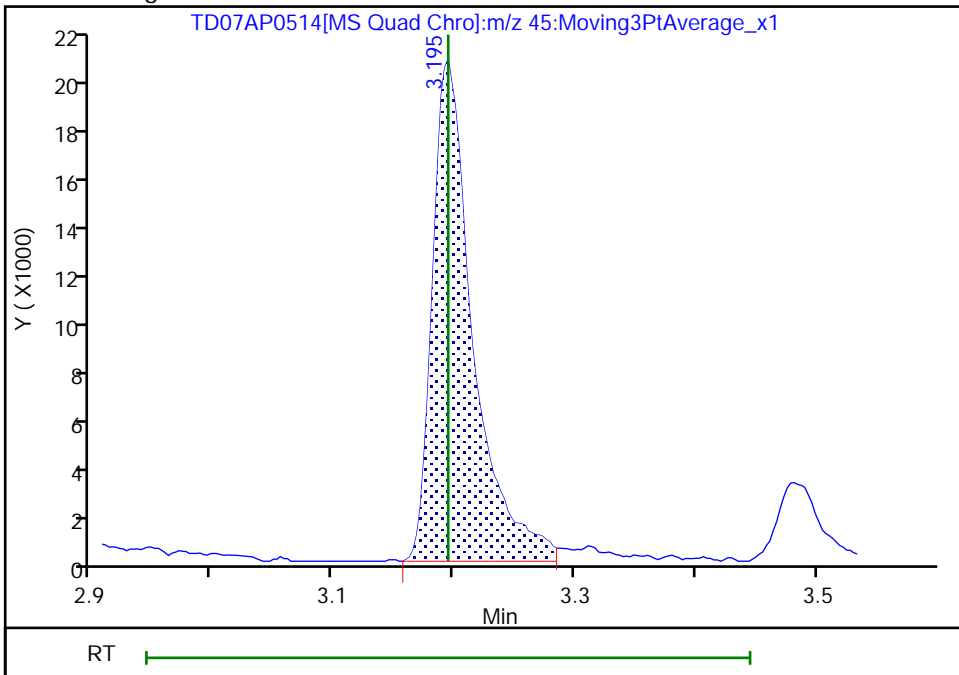
Not Detected
Expected RT: 3.20

Processing Integration Results



RT: 3.20
Area: 46992
Amount: 432.7193
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:52:55
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

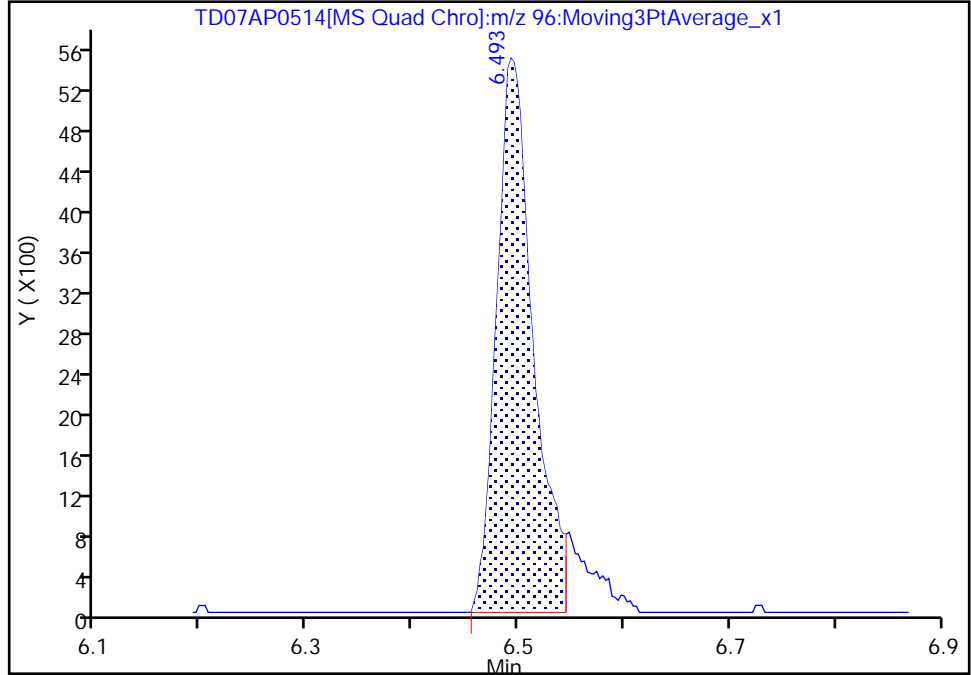
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD07AP0514.D
Injection Date: 14-May-2022 15:27:41 Instrument ID: CMS29
Lims ID: STD07AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

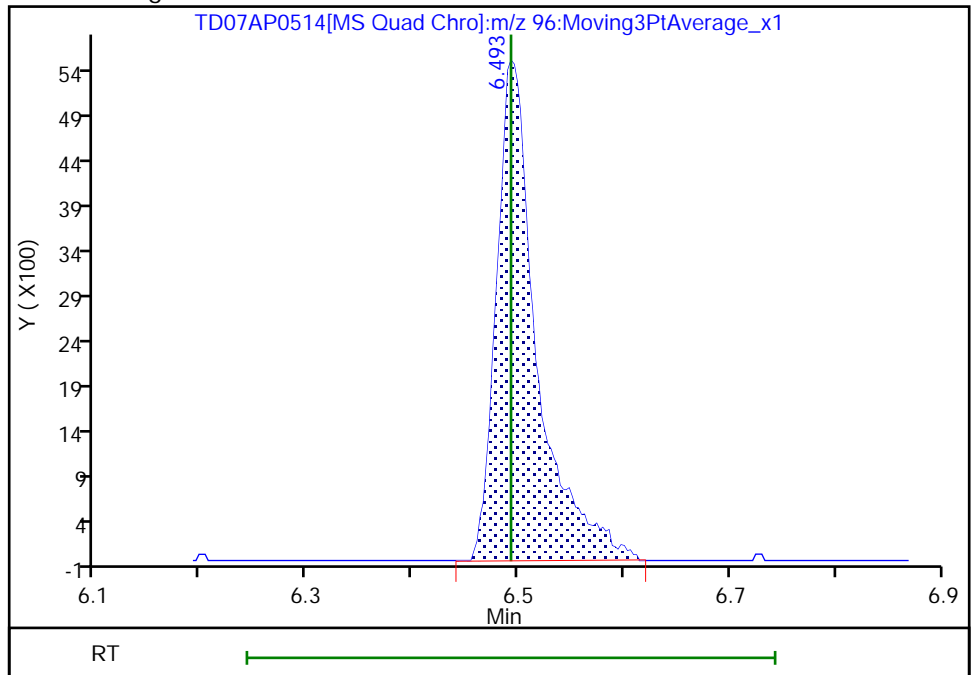
RT: 6.49
Area: 13202
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 14542
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:09:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD08AP0514.D
 Lims ID: STD08AP
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-May-2022 15:51:16 ALS Bottle#: 0 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD08AP
 Misc. Info.: 500-0085710-019
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:29 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:50:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.732	2.732	0.000	94	67746	4000.0	4058.4	M
18 Isopropyl alcohol	45	3.192	3.195	-0.003	98	105602	1000.0	919.8	a
19 Acetonitrile	41	3.302	3.308	-0.006	99	166430	1000.0	1023.3	
* 23 TBA-d9 (IS)	65	3.482	3.482	0.000	0	192750	1000.0	1000.0	
31 Isopropyl ether	45	4.136	4.139	-0.003	92	667255	100.0	95.4	
32 2-Chloro-1,3-butadiene	53	4.159	4.165	-0.006	89	325829	100.0	98.6	
33 Tert-butyl ethyl ether	59	4.478	4.481	-0.003	96	645615	100.0	96.2	
38 Ethyl acetate	43	4.695	4.698	-0.003	99	324100	200.0	194.1	
37 Propionitrile	54	4.703	4.706	-0.003	94	229214	1000.0	976.6	
39 Methacrylonitrile	41	4.851	4.854	-0.003	89	1030200	1000.0	1068.3	
52 Isooctane	57	5.569	5.572	-0.003	97	845915	100.0	96.7	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	95	638574	100.0	96.5	
* 55 Fluorobenzene (IS)	96	5.775	5.778	-0.003	99	451802	50.0	50.0	
56 n-Butanol	56	6.076	6.076	0.000	88	138564	2500.0	2402.2	
58 Ethyl acrylate	55	6.270	6.270	0.000	98	210836	100.0	92.9	
61 2,3-Dichloro-1-propene	75	6.452	6.455	-0.003	89	340279	100.0	101.0	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	14940	1000.0	1000.0	M
64 Methyl methacrylate	41	6.525	6.525	0.000	87	270452	200.0	187.8	
67 2-Nitropropane	43	6.965	6.965	0.000	93	93187	200.0	203.0	
80 n-Butyl acetate	43	8.557	8.560	-0.003	95	250688	100.0	93.7	
* 82 Chlorobenzene-d5	117	9.301	9.304	-0.003	81	346299	50.0	50.0	
83 1-Chlorohexane	91	9.313	9.313	0.000	93	313052	100.0	90.5	
92 Cyclohexanone	55	10.633	10.633	0.000	95	613563	10000	10718	
103 2-Ethyltoluene	105	11.342	11.340	0.002	97	1174777	100.0	107.0	
105 Pentachloroethane	167	11.476	11.476	0.000	90	190477	100.0	125.4	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	187075	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	94	1009254	100.0	105.3	
113 Benzyl chloride	126	11.968	11.968	0.000	96	106611	100.0	106.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	449290	100.0	102.5	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	91	549779	100.0	92.9	
123 1-Methylnaphthalene	142	14.718	14.718	0.000	89	454674	100.0	93.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

2ETTOL WK STD_00173	Amount Added: 5.00	Units: uL
8260 23DCP WK_00233	Amount Added: 5.00	Units: uL
8260/624STD2_00328	Amount Added: 5.00	Units: uL
8260POLR ADDS_00286	Amount Added: 5.00	Units: uL
8260CYCHXWK_00324	Amount Added: 5.00	Units: uL
8260ADDS 2016_00214	Amount Added: 5.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD08AP0514.D

Injection Date: 14-May-2022 15:51:16

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD08AP

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

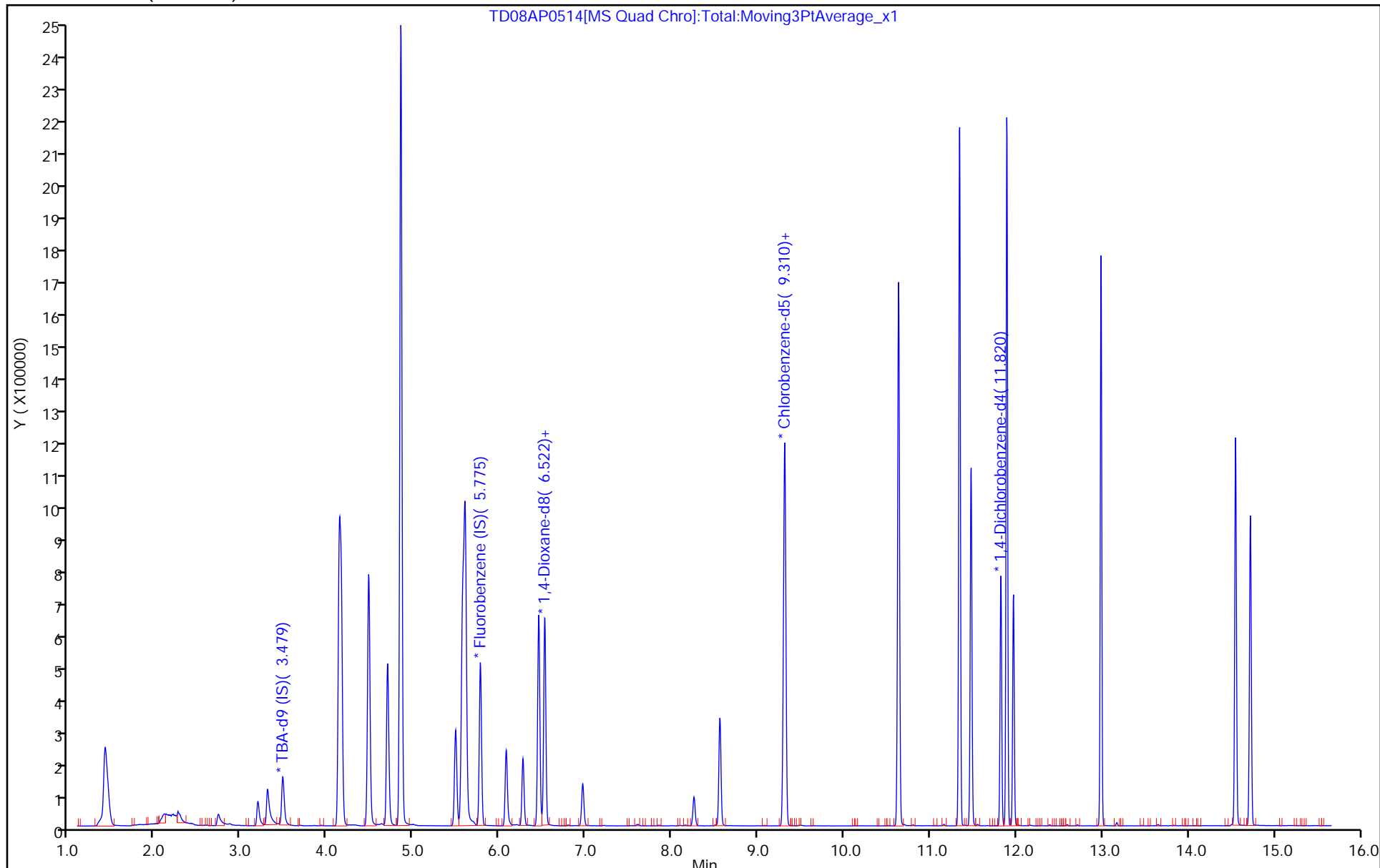
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

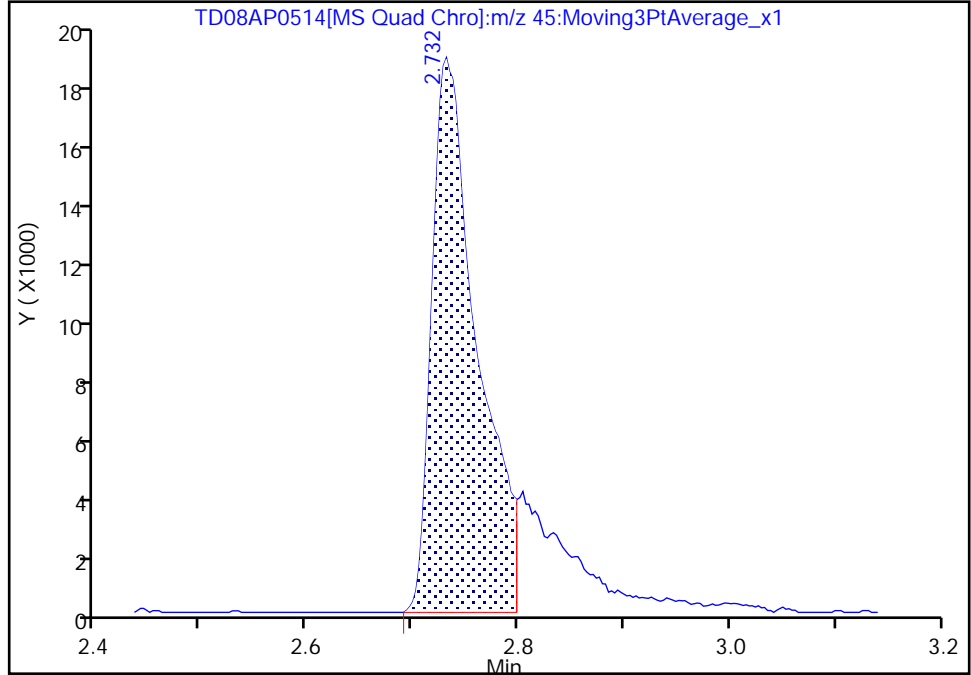
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD08AP0514.D
Injection Date: 14-May-2022 15:51:16 Instrument ID: CMS29
Lims ID: STD08AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

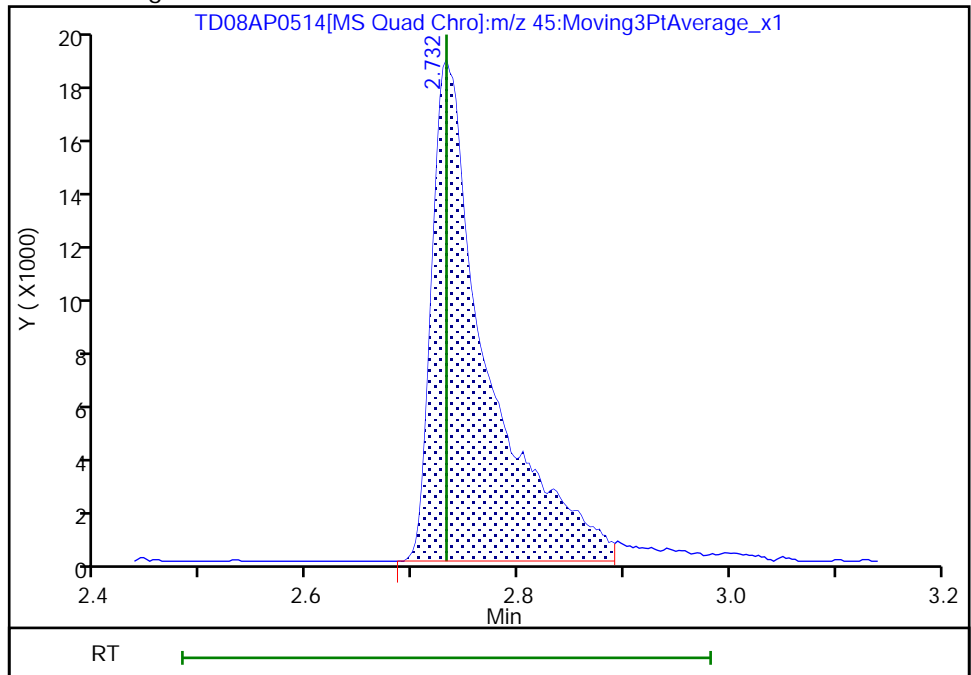
RT: 2.73
Area: 55877
Amount: 3644.5309
Amount Units: ug/l

Processing Integration Results



RT: 2.73
Area: 67746
Amount: 4058.4013
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:50:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

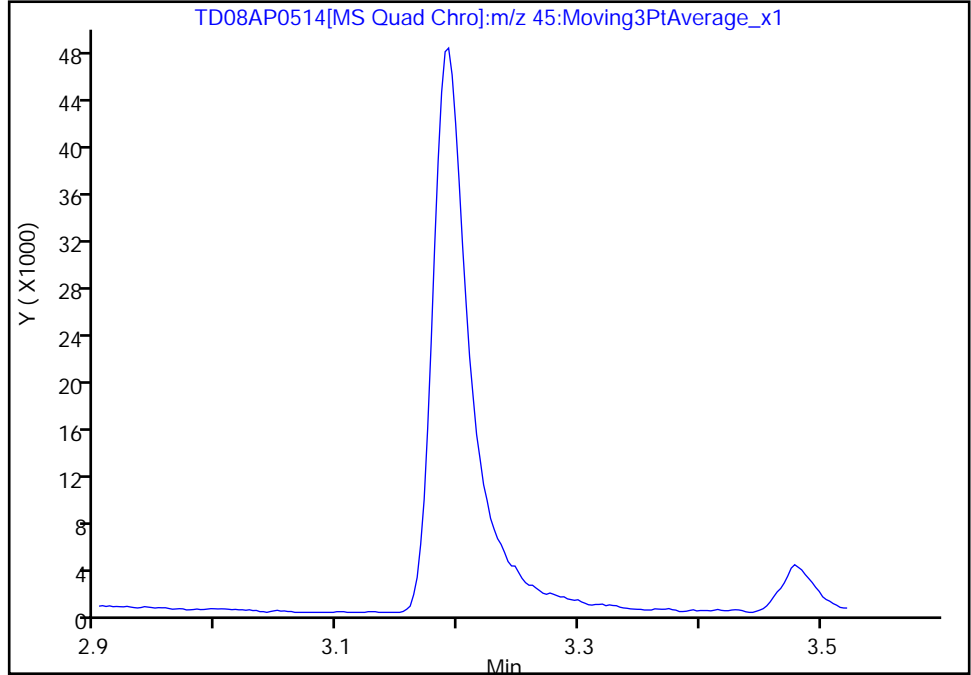
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD08AP0514.D
Injection Date: 14-May-2022 15:51:16 Instrument ID: CMS29
Lims ID: STD08AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

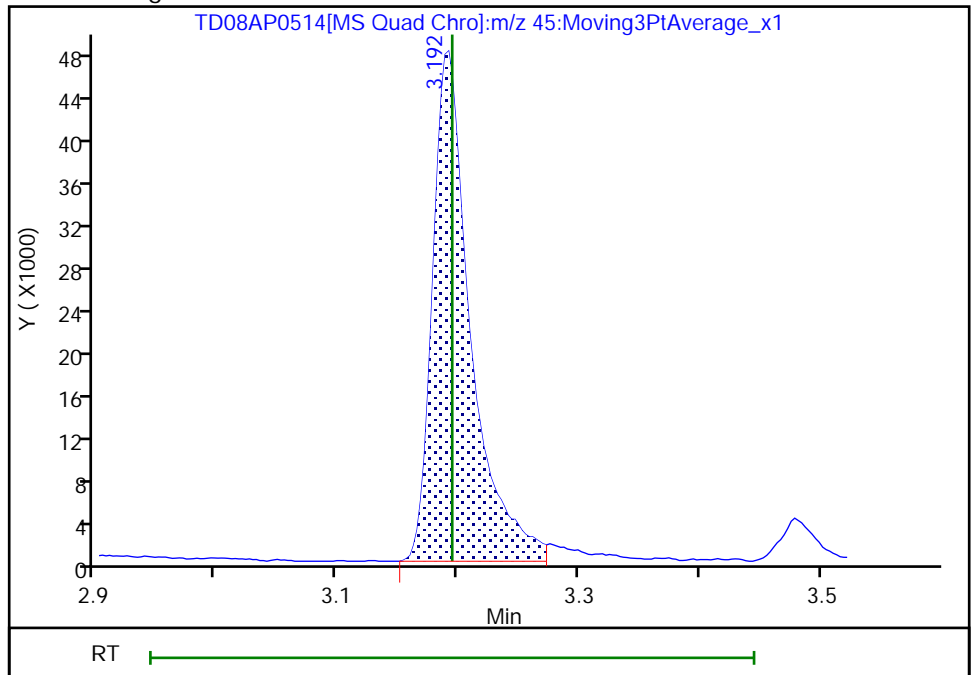
Not Detected
Expected RT: 3.20

Processing Integration Results



RT: 3.19
Area: 105602
Amount: 919.8123
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:54:03
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

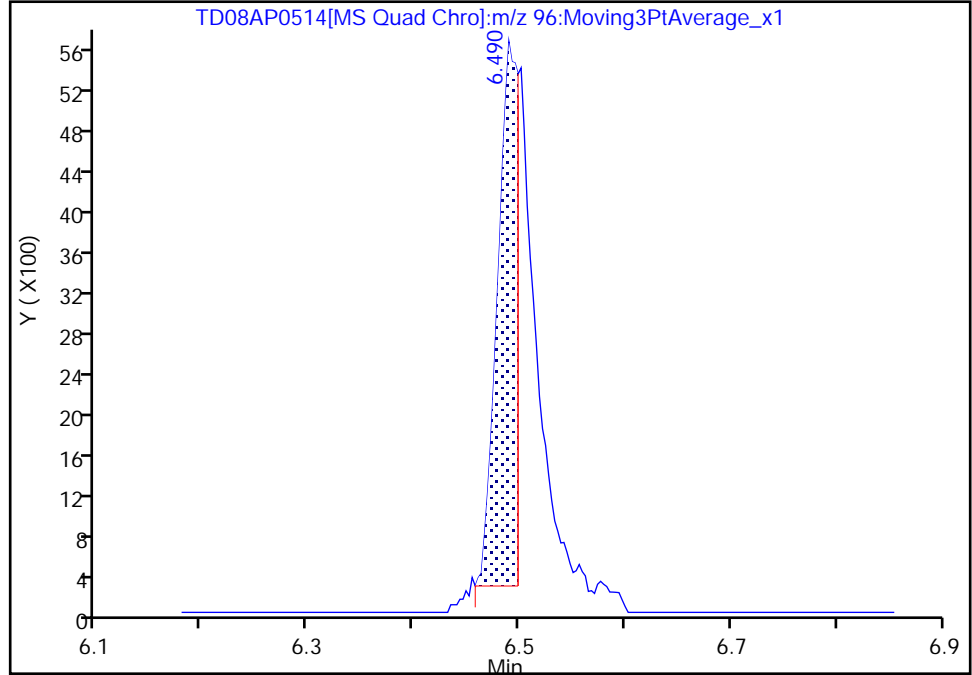
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD08AP0514.D
Injection Date: 14-May-2022 15:51:16 Instrument ID: CMS29
Lims ID: STD08AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

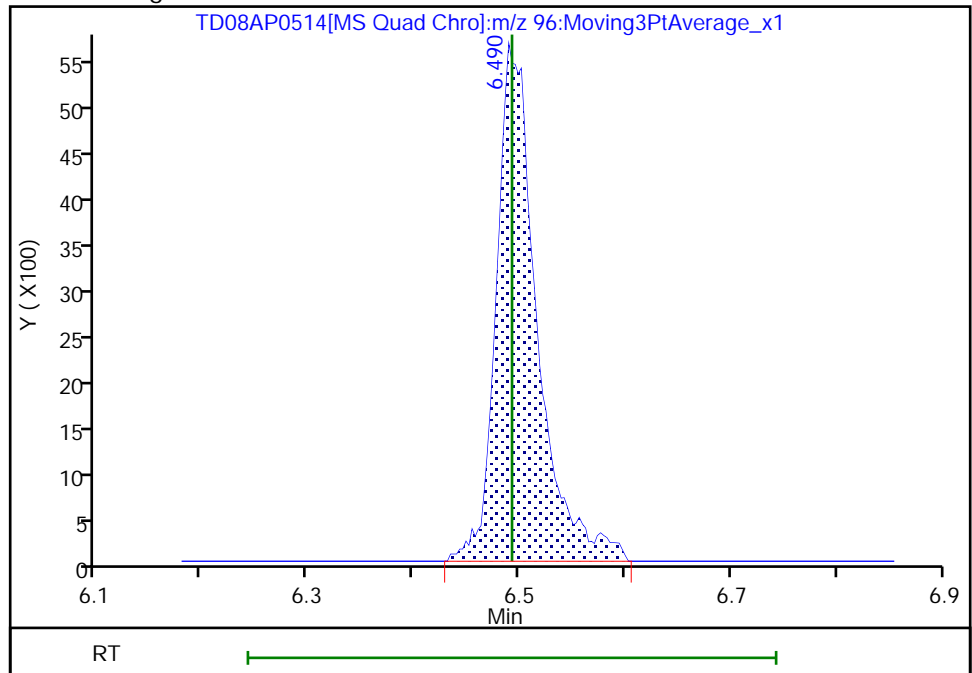
RT: 6.49
Area: 7083
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 14940
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:49:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D
 Lims ID: STD09AP
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-May-2022 16:14:52 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD09AP
 Misc. Info.: 500-0085710-020
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:32 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:50:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.746	2.732	0.014	98	105637	6000.0	6182.8	M
18 Isopropyl alcohol	45	3.201	3.195	0.006	98	172859	1500.0	1467.6	a
19 Acetonitrile	41	3.311	3.308	0.003	99	252298	1500.0	1429.4	
* 23 TBA-d9 (IS)	65	3.490	3.482	0.008	0	197743	1000.0	1000.0	
31 Isopropyl ether	45	4.142	4.139	0.003	91	1074219	150.0	141.5	
32 2-Chloro-1,3-butadiene	53	4.165	4.165	0.000	89	563705	150.0	157.2	
33 Tert-butyl ethyl ether	59	4.483	4.481	0.002	96	1041727	150.0	143.1	
38 Ethyl acetate	43	4.698	4.698	0.000	99	535473	300.0	296.7	
37 Propionitrile	54	4.709	4.706	0.003	94	357441	1500.0	1403.3	
39 Methacrylonitrile	41	4.857	4.854	0.003	89	1716437	1500.0	1640.2	
52 Isooctane	57	5.575	5.572	0.003	97	1480301	150.0	155.9	a
53 Tert-amyl methyl ether	73	5.604	5.601	0.003	93	1062645	150.0	148.0	
* 55 Fluorobenzene (IS)	96	5.777	5.778	-0.001	100	490314	50.0	50.0	
56 n-Butanol	56	6.079	6.076	0.003	89	232085	3750.0	3928.1	
58 Ethyl acrylate	55	6.273	6.270	0.003	98	353664	150.0	143.6	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	89	566529	150.0	155.0	
* 62 1,4-Dioxane-d8	96	6.498	6.493	0.005	0	17244	1000.0	1000.0	M
64 Methyl methacrylate	41	6.524	6.525	-0.001	86	467443	300.0	299.0	
67 2-Nitropropane	43	6.967	6.965	0.002	95	153207	300.0	298.4	
80 n-Butyl acetate	43	8.557	8.560	-0.003	96	406671	150.0	135.7	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	80	388003	50.0	50.0	
83 1-Chlorohexane	91	9.316	9.313	0.003	92	543502	150.0	140.3	
92 Cyclohexanone	55	10.636	10.633	0.003	95	1046034	15000	16650	
103 2-Ethyltoluene	105	11.342	11.340	0.002	97	2132936	150.0	177.1	
105 Pentachloroethane	167	11.476	11.476	0.000	91	284324	150.0	170.6	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	91	205313	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.892	11.890	0.002	94	1907347	150.0	181.3	
113 Benzyl chloride	126	11.968	11.968	0.000	97	183939	150.0	167.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	852206	150.0	177.2	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	92	1026526	150.0	157.6	
123 1-Methylnaphthalene	142	14.718	14.718	0.000	92	840225	150.0	156.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

2ETTOL WK STD_00173	Amount Added: 7.50	Units: uL
8260 23DCP WK_00233	Amount Added: 7.50	Units: uL
8260/624STD2_00328	Amount Added: 7.50	Units: uL
8260ADDS 2016_00214	Amount Added: 7.50	Units: uL
8260CYCHXWK_00324	Amount Added: 7.50	Units: uL
8260POLR ADDS_00286	Amount Added: 7.50	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D

Injection Date: 14-May-2022 16:14:52

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD09AP

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

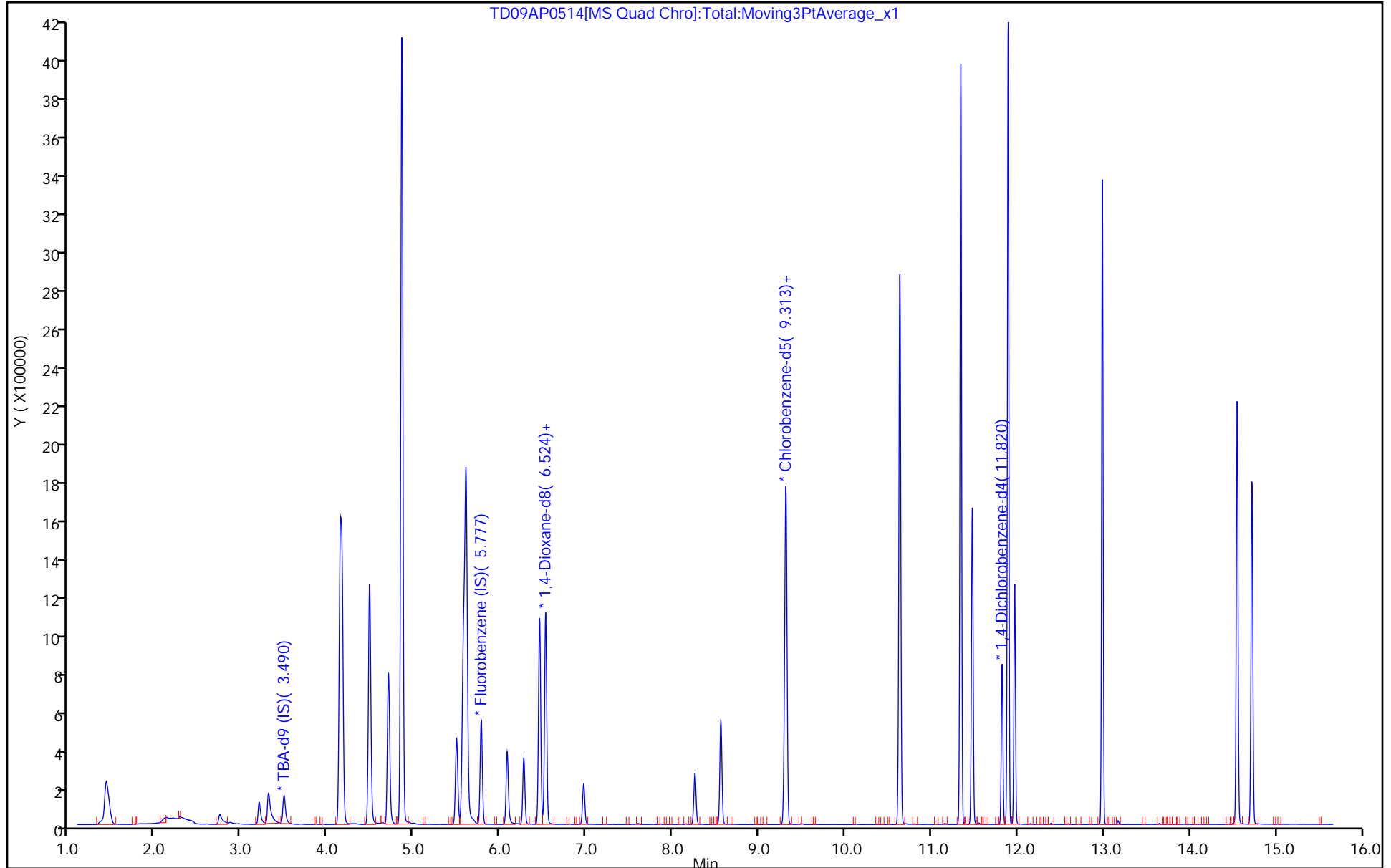
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

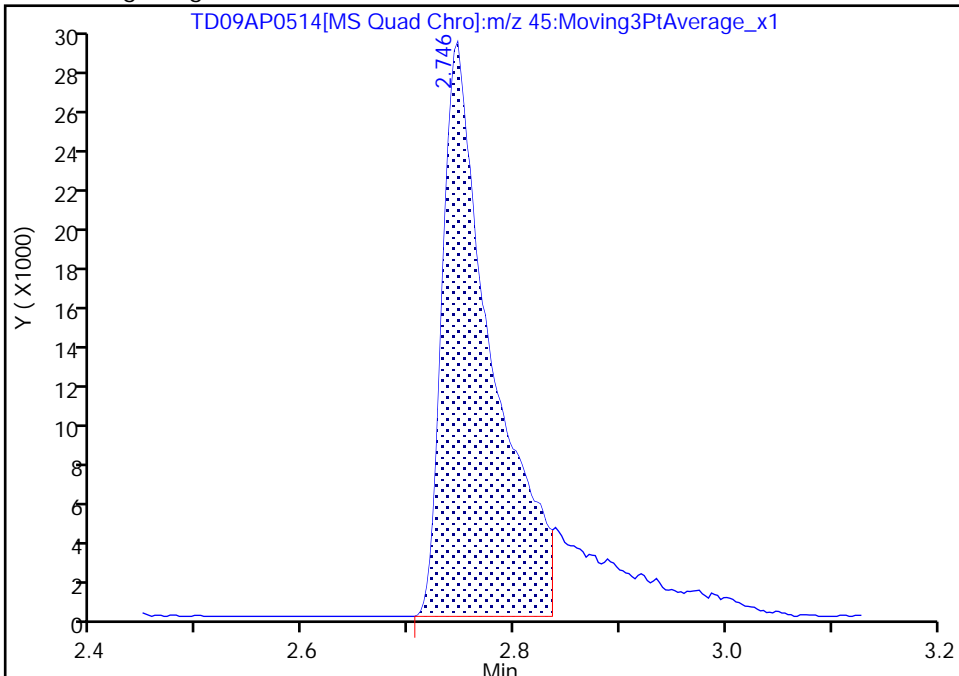
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D
Injection Date: 14-May-2022 16:14:52 Instrument ID: CMS29
Lims ID: STD09AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

10 Ethanol, CAS: 64-17-5

Signal: 1

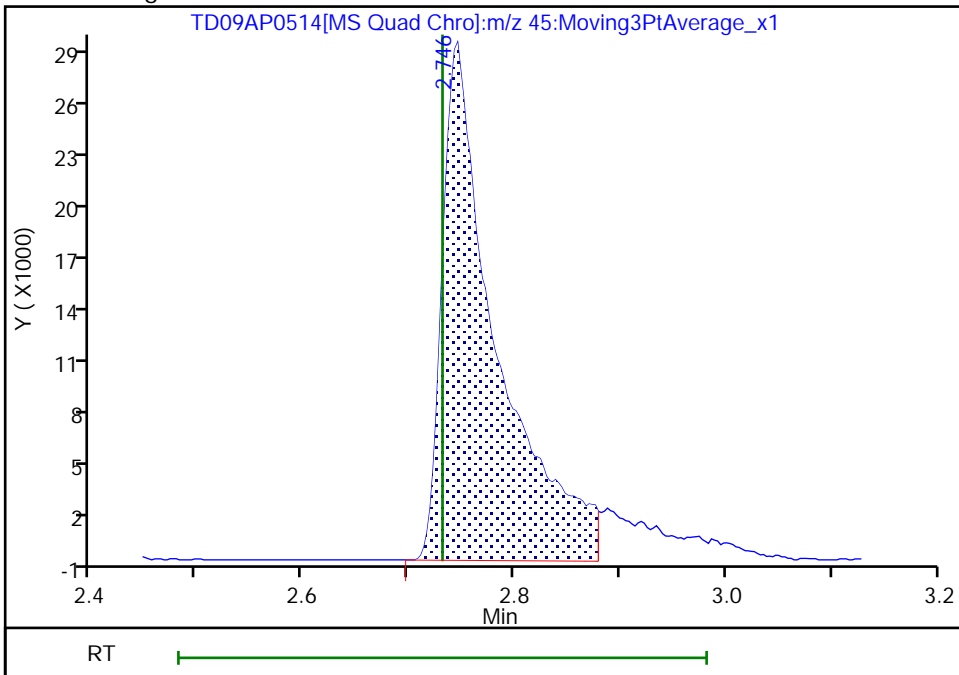
RT: 2.75
Area: 95860
Amount: 5768.4434
Amount Units: ug/l

Processing Integration Results



RT: 2.75
Area: 105637
Amount: 6182.7682
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:11:42

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Chicago

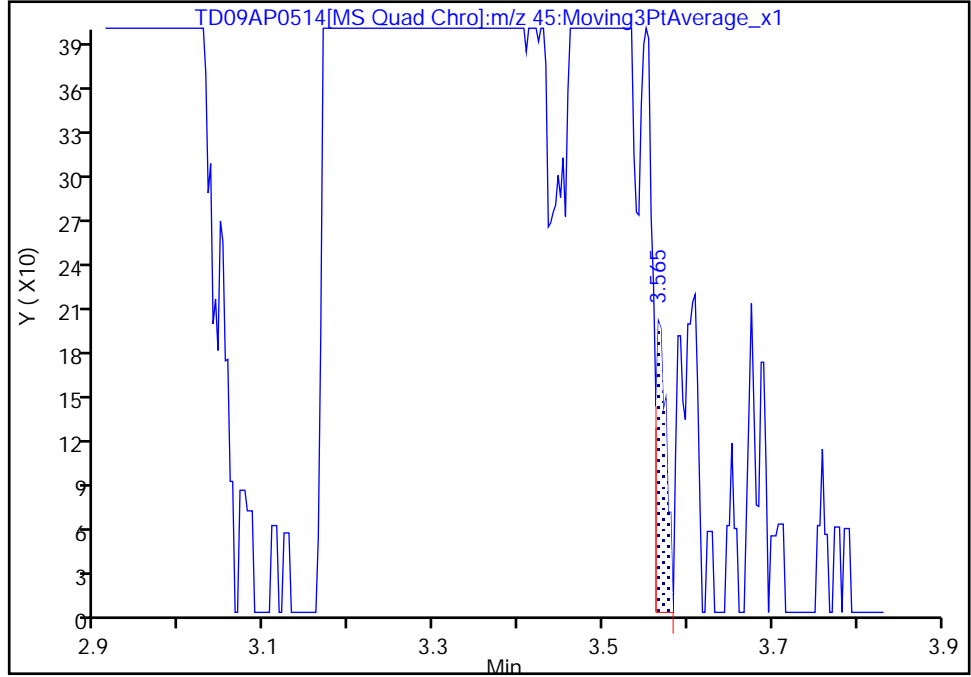
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D
Injection Date: 14-May-2022 16:14:52 Instrument ID: CMS29
Lims ID: STD09AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

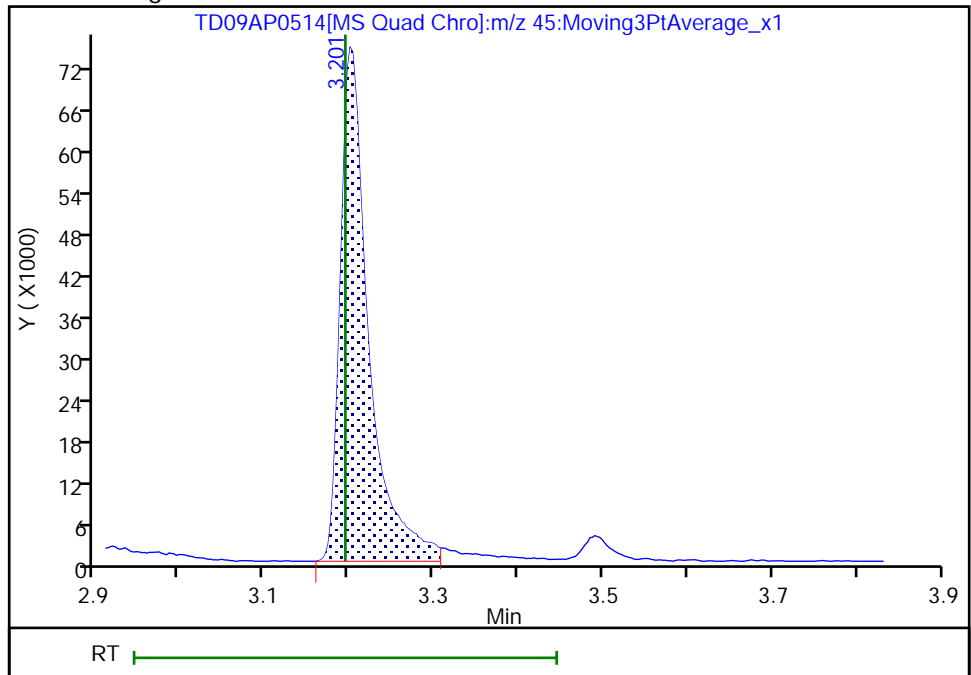
RT: 3.57
Area: 165
Amount: 0.853420
Amount Units: ug/l

Processing Integration Results



RT: 3.20
Area: 172859
Amount: 1467.6156
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

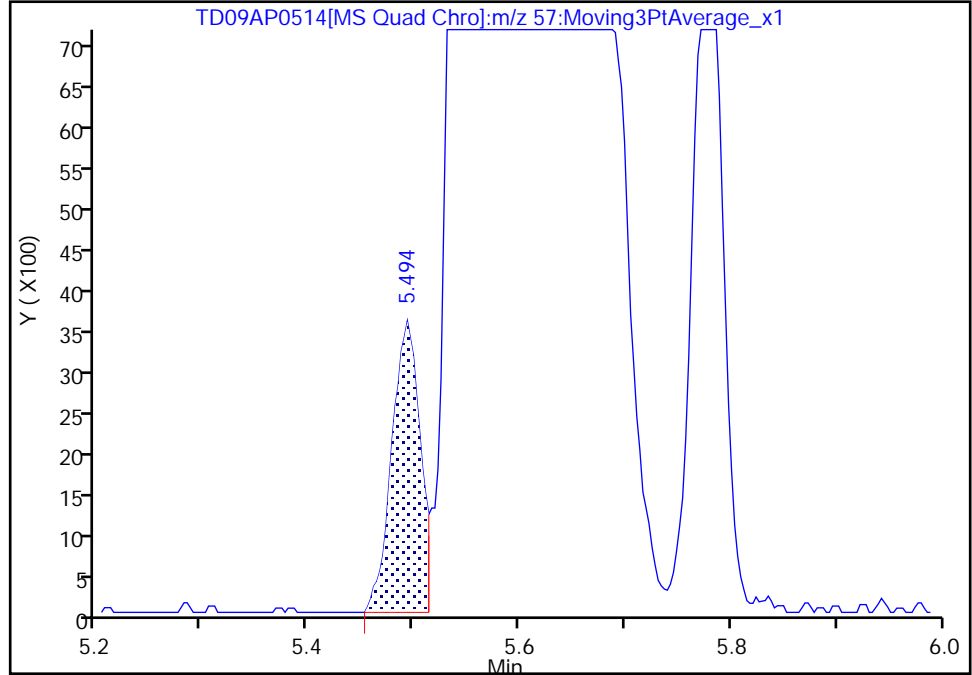
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D
Injection Date: 14-May-2022 16:14:52 Instrument ID: CMS29
Lims ID: STD09AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

52 Isooctane, CAS: 540-84-1

Signal: 1

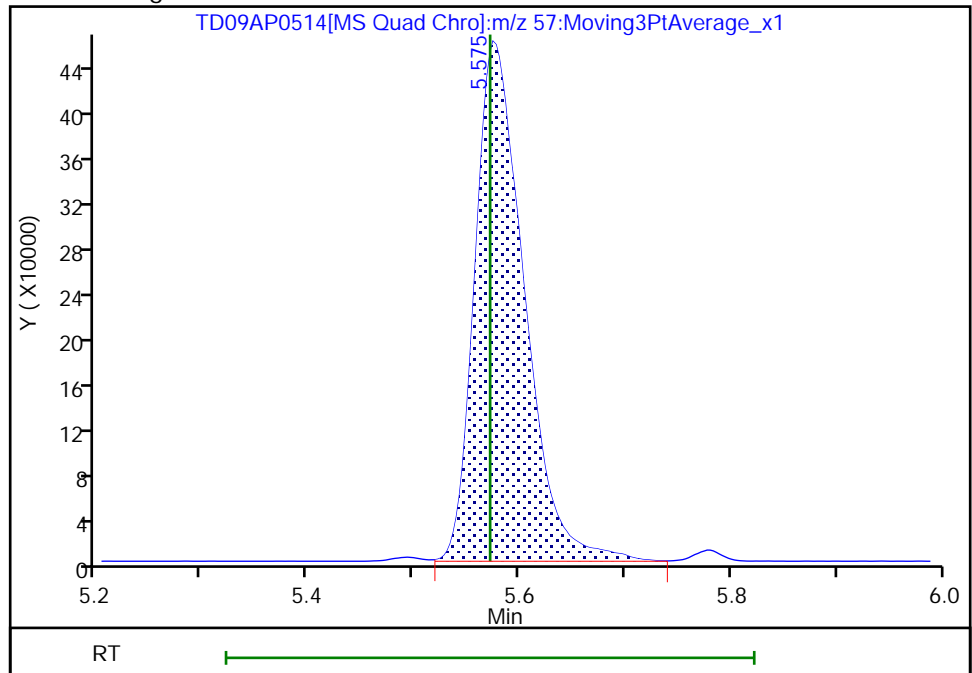
RT: 5.49
Area: 6675
Amount: 0.944169
Amount Units: ug/l

Processing Integration Results



RT: 5.57
Area: 1480301
Amount: 155.8510
Amount Units: ug/l

Manual Integration Results



Reviewer: ficarello, 15-May-2022 13:50:28
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

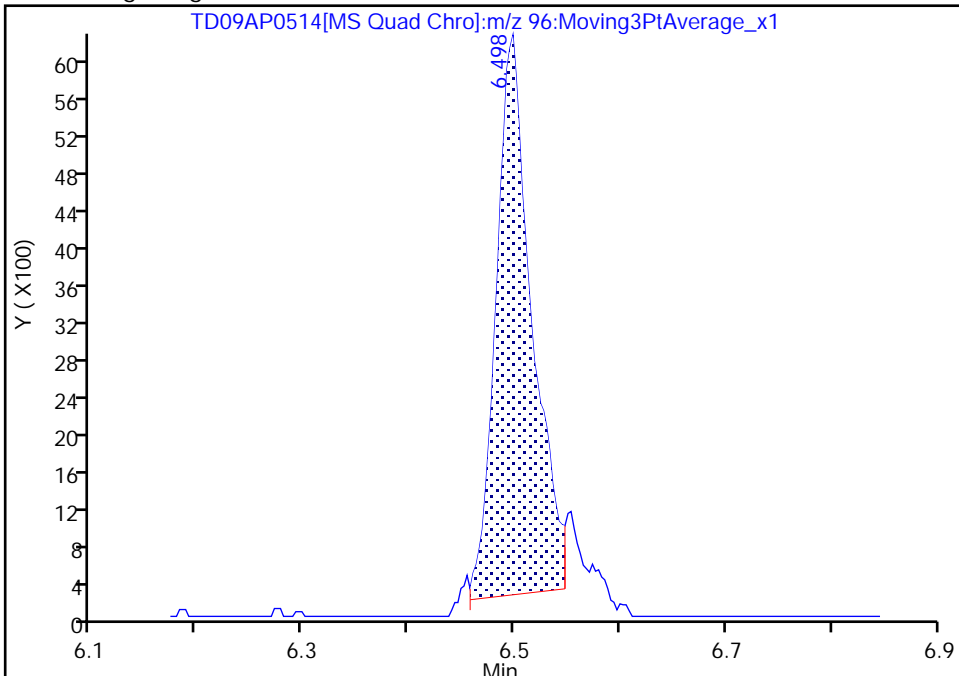
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD09AP0514.D
Injection Date: 14-May-2022 16:14:52 Instrument ID: CMS29
Lims ID: STD09AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

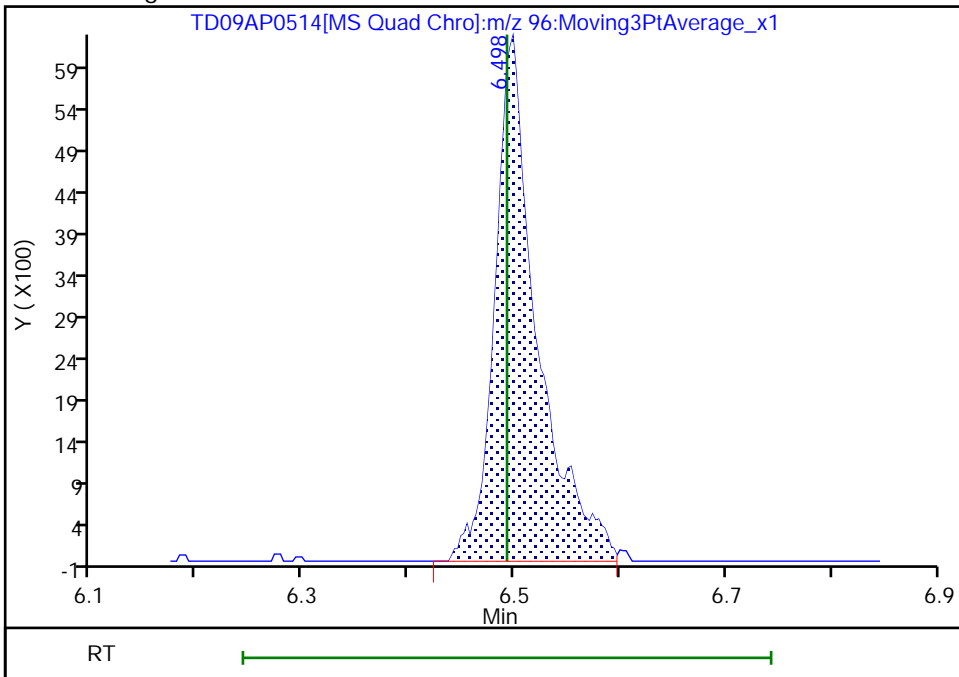
RT: 6.50
Area: 14074
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 17244
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 19:11:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Lims ID: STD010AP
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 14-May-2022 16:38:30 ALS Bottle#: 0 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD010AP
 Misc. Info.: 500-0085710-021
 Operator ID: EA Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub4
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:36 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop

Date: 15-May-2022 13:51:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.738	2.732	0.006	97	128810	8000.0	7816.3	
18 Isopropyl alcohol	45	3.195	3.195	0.000	99	214408	2000.0	1885.6	a
19 Acetonitrile	41	3.305	3.308	-0.003	99	337461	2000.0	2058.5	
* 23 TBA-d9 (IS)	65	3.485	3.482	0.003	0	190906	1000.0	1000.0	
31 Isopropyl ether	45	4.139	4.139	0.000	90	1393550	200.0	197.6	
32 2-Chloro-1,3-butadiene	53	4.162	4.165	-0.003	90	687549	200.0	206.4	
33 Tert-butyl ethyl ether	59	4.481	4.481	0.000	96	1353027	200.0	200.0	
38 Ethyl acetate	43	4.695	4.698	-0.003	99	699224	400.0	418.0	
37 Propionitrile	54	4.706	4.706	0.000	96	487639	2000.0	2061.2	
39 Methacrylonitrile	41	4.857	4.854	0.003	88	2189078	2000.0	2252.2	
52 Isooctane	57	5.578	5.572	0.006	97	1794711	200.0	203.4	a
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	93	1446739	200.0	216.9	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	455397	50.0	50.0	
56 n-Butanol	56	6.079	6.076	0.003	89	292270	5000.0	5126.8	
58 Ethyl acrylate	55	6.270	6.270	0.000	99	470723	200.0	205.7	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	89	732343	200.0	215.7	
* 62 1,4-Dioxane-d8	96	6.496	6.493	0.003	0	15934	1000.0	1000.0	
64 Methyl methacrylate	41	6.525	6.525	0.000	83	630819	400.0	434.5	
67 2-Nitropropane	43	6.968	6.965	0.003	95	201548	400.0	408.7	
80 n-Butyl acetate	43	8.557	8.560	-0.003	96	540759	200.0	187.7	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	72	372946	50.0	50.0	
83 1-Chlorohexane	91	9.316	9.313	0.003	92	692369	200.0	185.9	
92 Cyclohexanone	55	10.636	10.633	0.003	95	1328619	20000	21592	
103 2-Ethyltoluene	105	11.343	11.340	0.003	95	2793368	200.0	236.8	
105 Pentachloroethane	167	11.476	11.476	0.000	91	308159	200.0	188.8	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	92	201090	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.893	11.890	0.003	93	2483073	200.0	241.0	
113 Benzyl chloride	126	11.968	11.968	0.000	97	248767	200.0	231.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	1059229	200.0	224.8	
122 2-Methylnaphthalene	142	14.548	14.548	0.000	90	1356223	200.0	212.3	
123 1-Methylnaphthalene	142	14.718	14.718	0.000	89	1120634	200.0	212.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

2ETTOL WK STD_00173	Amount Added: 10.00	Units: uL
8260 23DCP WK_00233	Amount Added: 10.00	Units: uL
8260/624STD2_00328	Amount Added: 10.00	Units: uL
8260ADDS 2016_00214	Amount Added: 10.00	Units: uL
8260CYCHXWK_00324	Amount Added: 10.00	Units: uL
8260POLR ADDS_00286	Amount Added: 10.00	Units: uL
8260 LOWIS1_00164	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D

Injection Date: 14-May-2022 16:38:30

Instrument ID: CMS29

Operator ID: EA

Lims ID: STD010AP

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

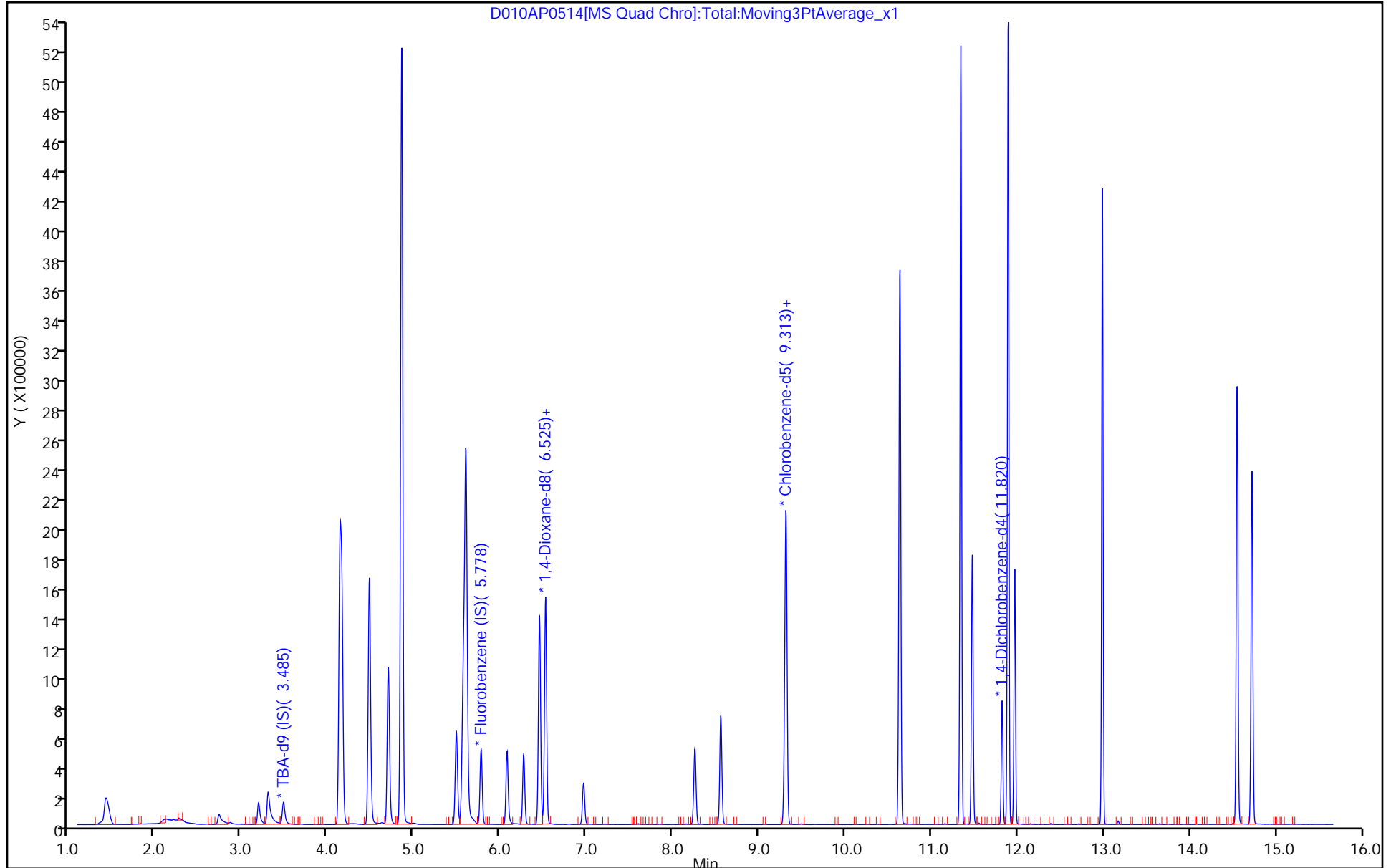
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

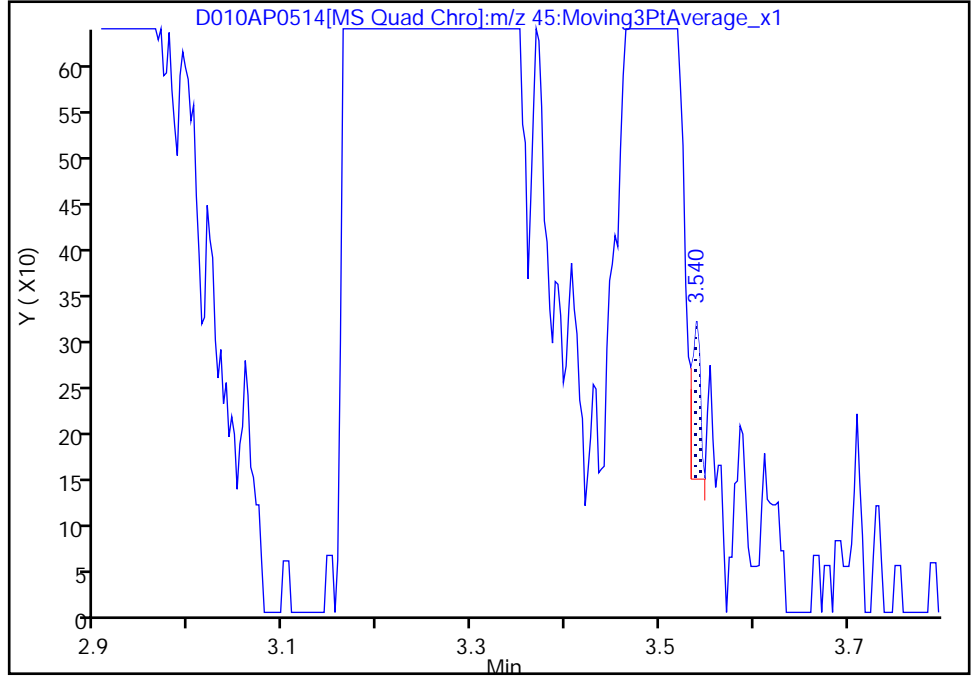
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
Injection Date: 14-May-2022 16:38:30 Instrument ID: CMS29
Lims ID: STD010AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

18 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

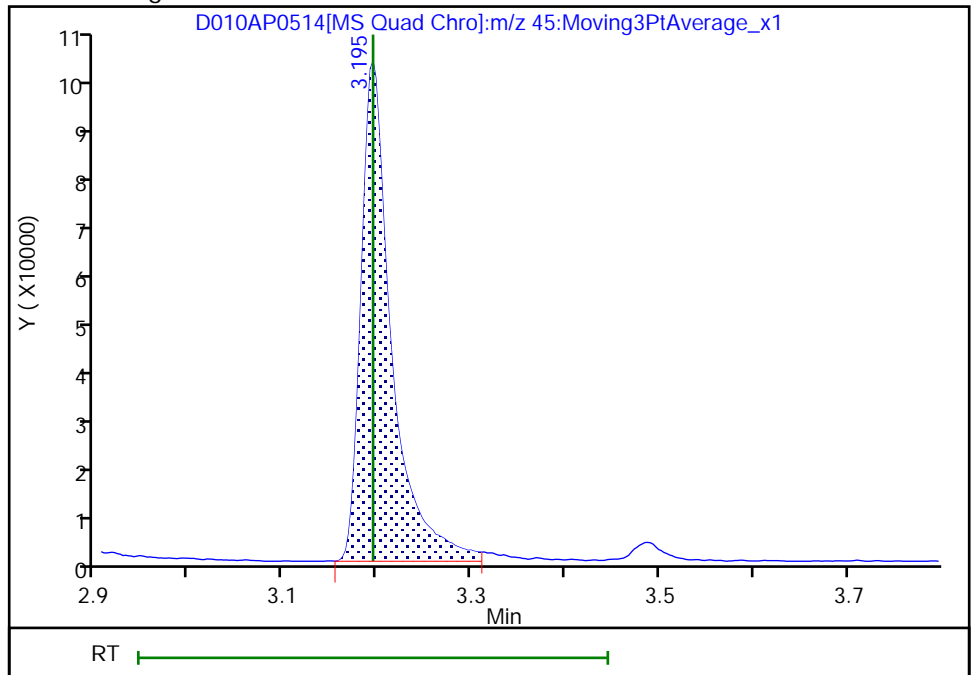
RT: 3.54
Area: 104
Amount: 1.036725
Amount Units: ug/l

Processing Integration Results



RT: 3.20
Area: 214408
Amount: 1885.5708
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

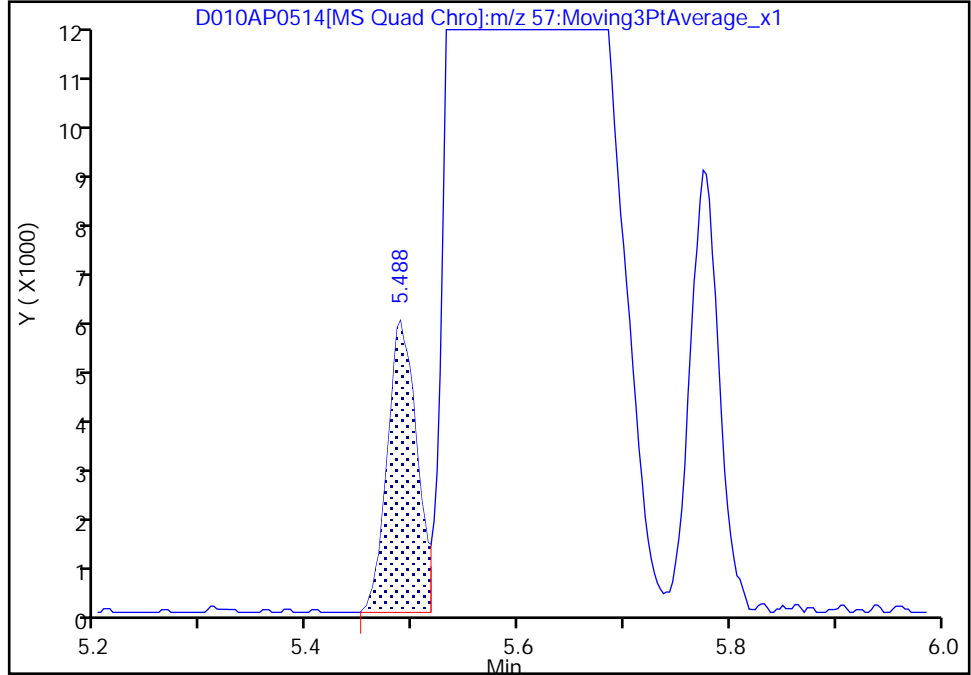
Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
Injection Date: 14-May-2022 16:38:30 Instrument ID: CMS29
Lims ID: STD010AP
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

52 Isooctane, CAS: 540-84-1

Signal: 1

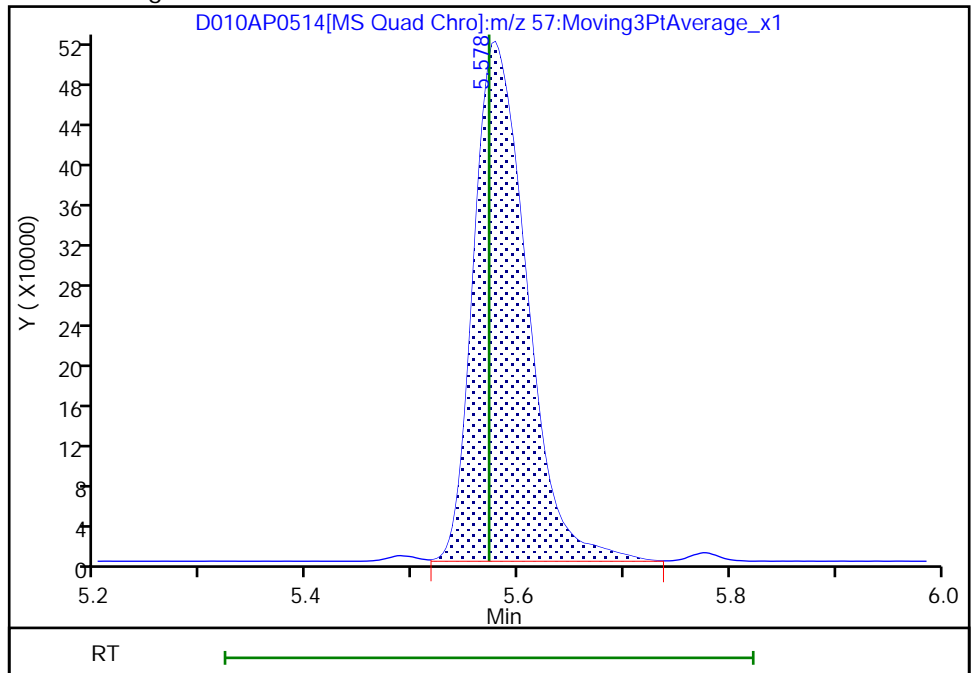
RT: 5.49
Area: 10778
Amount: 1.398501
Amount Units: ug/l

Processing Integration Results



RT: 5.58
Area: 1794711
Amount: 203.4409
Amount Units: ug/l

Manual Integration Results



Calibration

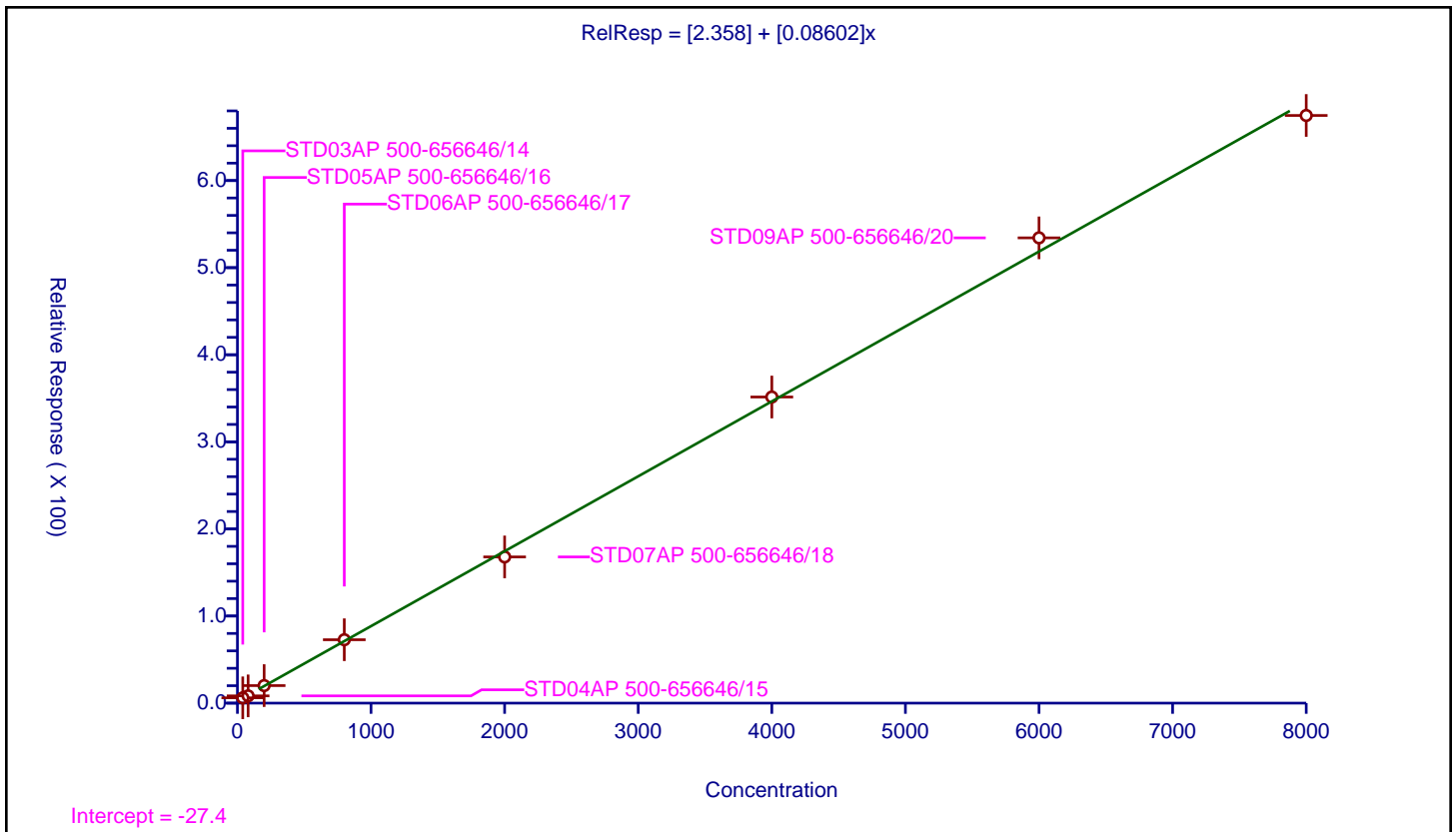
/ Ethanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	2.358
Slope:	0.08602

Error Coefficients	
Standard Error:	74300
Relative Standard Error:	7.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	40.0	6.106109	1000.0	192594.0	0.152653	Y
2	STD04AP 500-656646/15	80.0	8.341084	1000.0	202132.0	0.104264	Y
3	STD05AP 500-656646/16	200.0	20.144374	1000.0	191170.0	0.100722	Y
4	STD06AP 500-656646/17	800.0	72.791363	1000.0	180145.0	0.090989	Y
5	STD07AP 500-656646/18	2000.0	167.856869	1000.0	182322.0	0.083928	Y
6	STD08AP 500-656646/19	4000.0	351.470817	1000.0	192750.0	0.087868	Y
7	STD09AP 500-656646/20	6000.0	534.2136	1000.0	197743.0	0.089036	Y
8	STD10AP 500-656646/21	8000.0	674.729972	1000.0	190906.0	0.084341	Y



Calibration

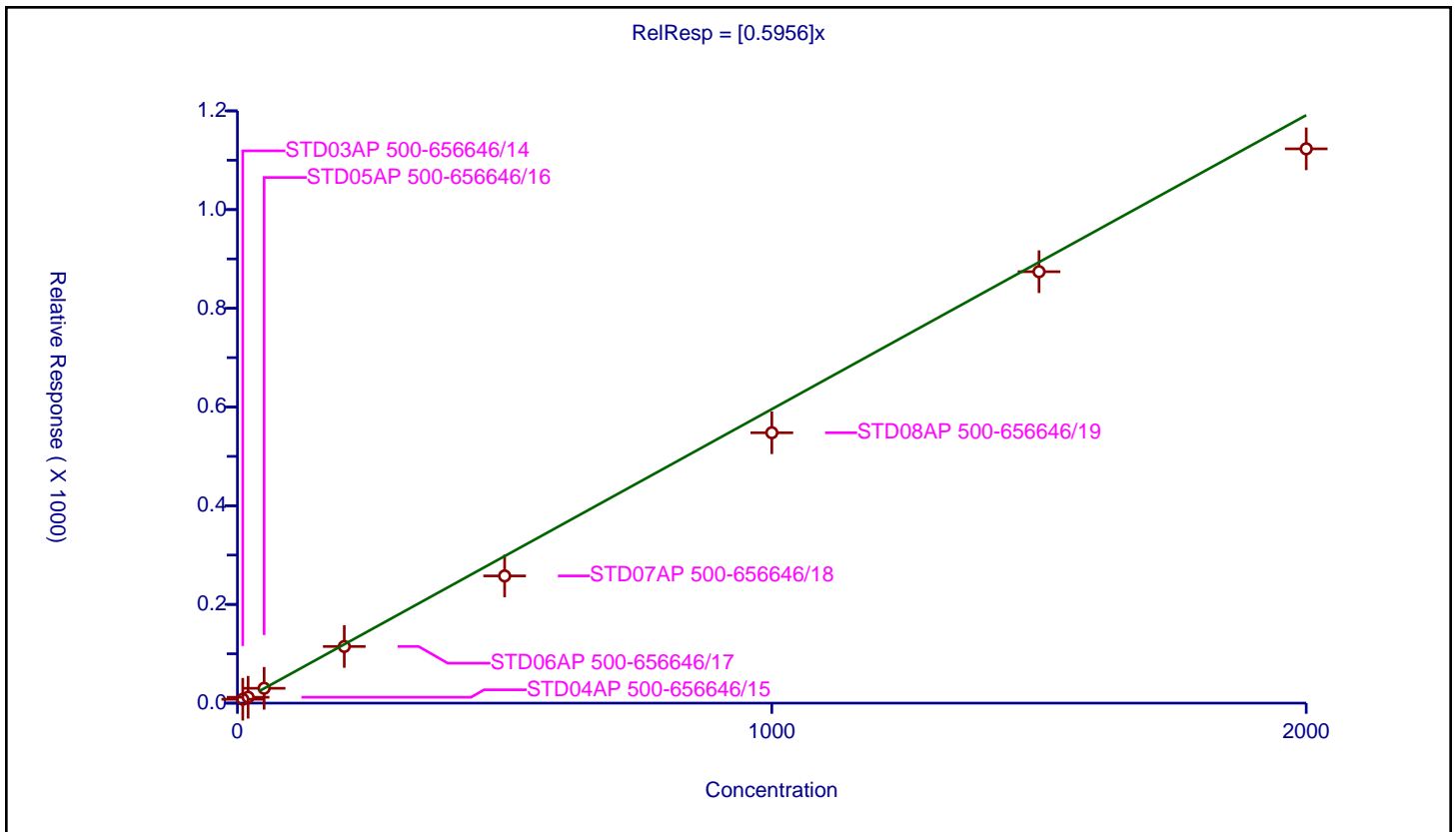
/ Isopropyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5956

Error Coefficients	
Standard Error:	113000
Relative Standard Error:	13.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	10.0	7.861096	1000.0	192594.0	0.78611	Y
2	STD04AP 500-656646/15	20.0	11.898166	1000.0	202132.0	0.594908	Y
3	STD05AP 500-656646/16	50.0	30.109327	1000.0	191170.0	0.602187	Y
4	STD06AP 500-656646/17	200.0	114.835272	1000.0	180145.0	0.574176	Y
5	STD07AP 500-656646/18	500.0	257.741797	1000.0	182322.0	0.515484	Y
6	STD08AP 500-656646/19	1000.0	547.870298	1000.0	192750.0	0.54787	Y
7	STD09AP 500-656646/20	1500.0	874.159894	1000.0	197743.0	0.582773	Y
8	STD010AP 500-656646/21	2000.0	1123.107707	1000.0	190906.0	0.561554	Y



Calibration

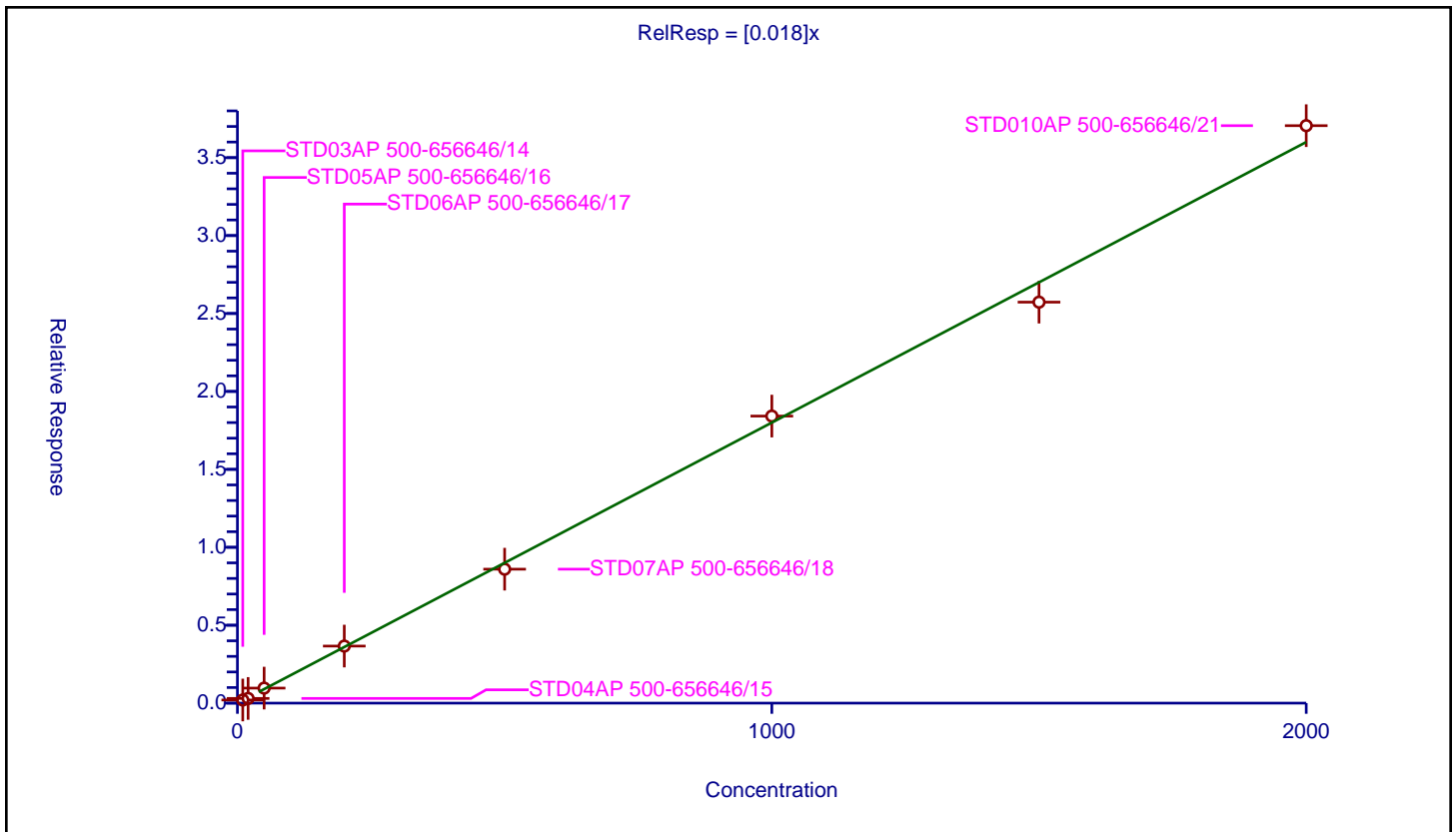
/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.018

Error Coefficients	
Standard Error:	174000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	10.0	0.200424	50.0	442812.0	0.020042	Y
2	STD04AP 500-656646/15	20.0	0.301504	50.0	468319.0	0.015075	Y
3	STD05AP 500-656646/16	50.0	0.964435	50.0	450108.0	0.019289	Y
4	STD06AP 500-656646/17	200.0	3.661121	50.0	460583.0	0.018306	Y
5	STD07AP 500-656646/18	500.0	8.59409	50.0	434281.0	0.017188	Y
6	STD08AP 500-656646/19	1000.0	18.418466	50.0	451802.0	0.018418	Y
7	STD09AP 500-656646/20	1500.0	25.728207	50.0	490314.0	0.017152	Y
8	STD10AP 500-656646/21	2000.0	37.051298	50.0	455397.0	0.018526	Y



Calibration

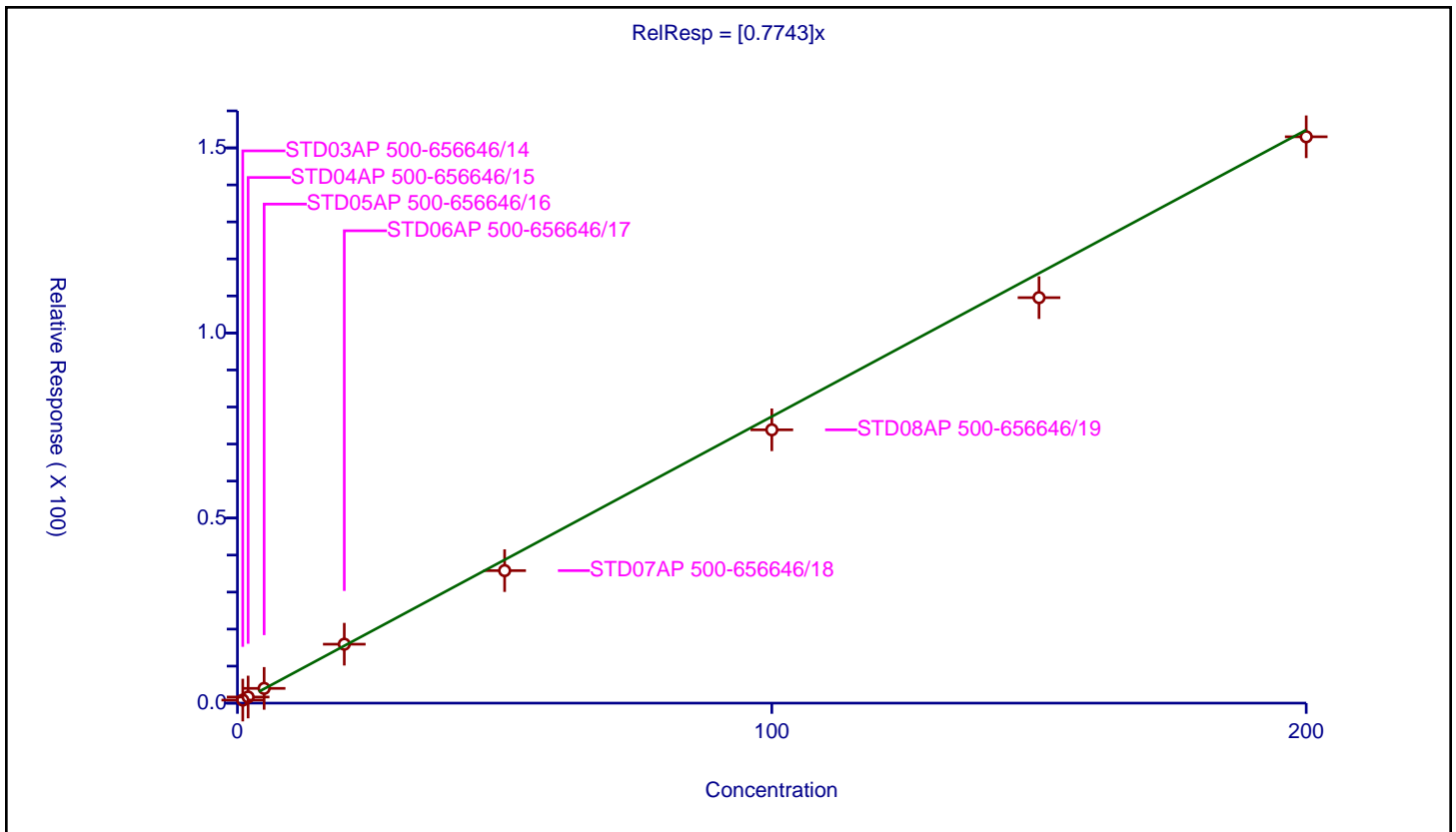
/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7743

Error Coefficients	
Standard Error:	723000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.825745	50.0	442812.0	0.825745	Y
2	STD04AP 500-656646/15	2.0	1.653253	50.0	468319.0	0.826627	Y
3	STD05AP 500-656646/16	5.0	3.980045	50.0	450108.0	0.796009	Y
4	STD06AP 500-656646/17	20.0	15.919498	50.0	460583.0	0.795975	Y
5	STD07AP 500-656646/18	50.0	35.797329	50.0	434281.0	0.715947	Y
6	STD08AP 500-656646/19	100.0	73.843741	50.0	451802.0	0.738437	Y
7	STD09AP 500-656646/20	150.0	109.543986	50.0	490314.0	0.730293	Y
8	STD10AP 500-656646/21	200.0	153.003863	50.0	455397.0	0.765019	Y



Calibration

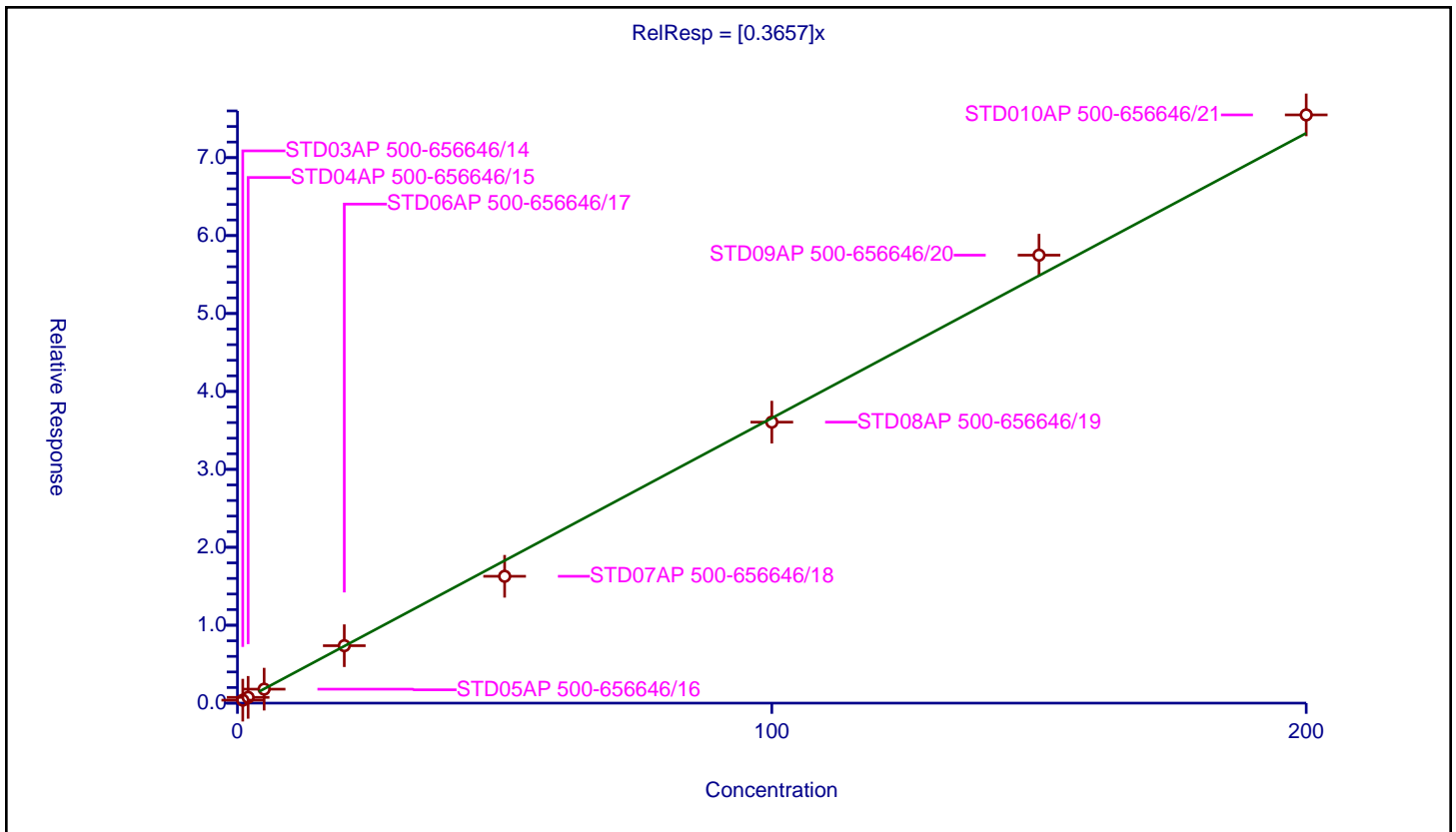
/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3657

Error Coefficients	
Standard Error:	363000
Relative Standard Error:	5.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.380861	50.0	442812.0	0.380861	Y
2	STD04AP 500-656646/15	2.0	0.741375	50.0	468319.0	0.370688	Y
3	STD05AP 500-656646/16	5.0	1.793792	50.0	450108.0	0.358758	Y
4	STD06AP 500-656646/17	20.0	7.371527	50.0	460583.0	0.368576	Y
5	STD07AP 500-656646/18	50.0	16.278861	50.0	434281.0	0.325577	Y
6	STD08AP 500-656646/19	100.0	36.058827	50.0	451802.0	0.360588	Y
7	STD09AP 500-656646/20	150.0	57.484082	50.0	490314.0	0.383227	Y
8	STD10AP 500-656646/21	200.0	75.488969	50.0	455397.0	0.377445	Y



Calibration

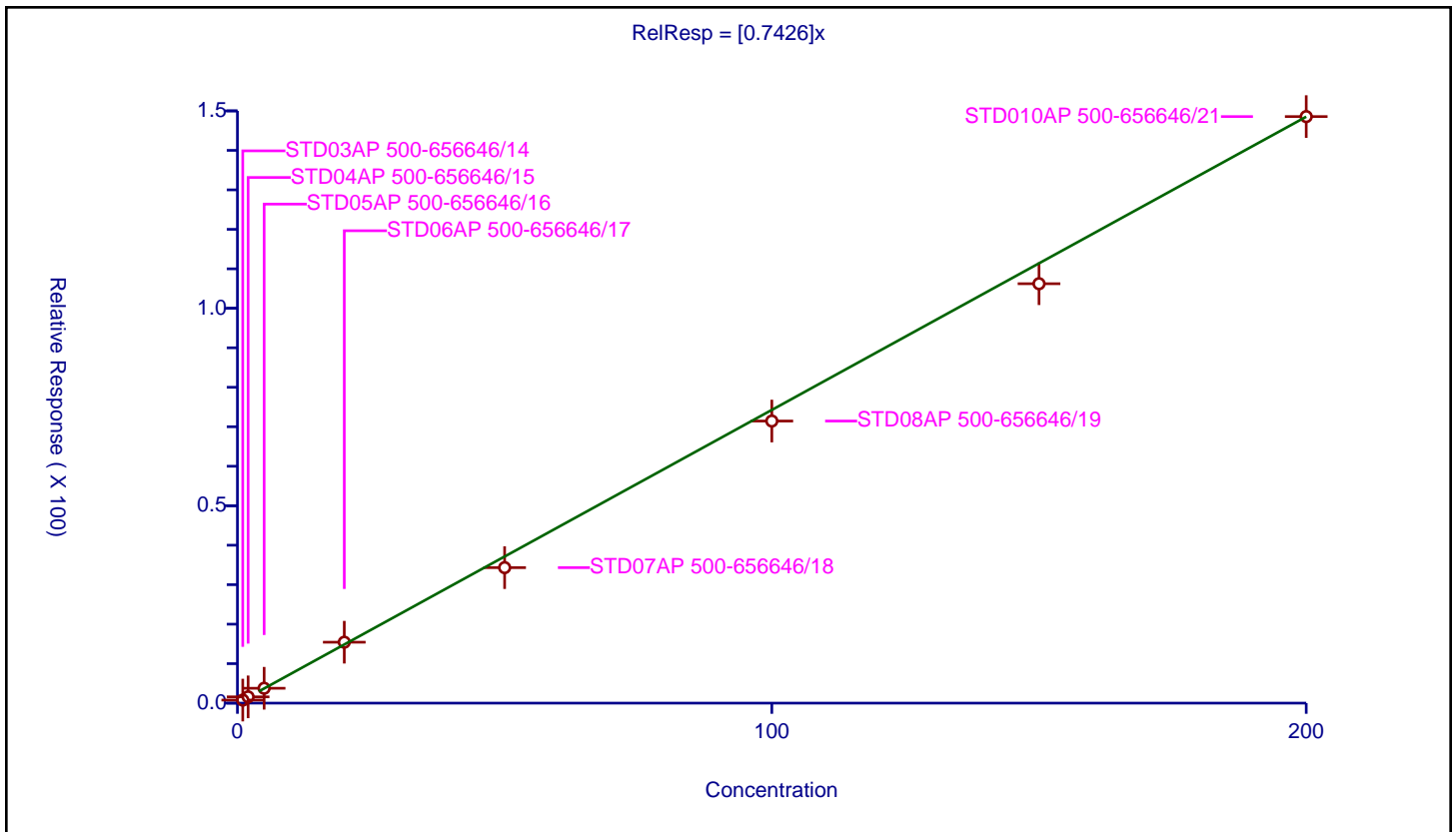
/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7426

Error Coefficients	
Standard Error:	701000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.769175	50.0	442812.0	0.769175	Y
2	STD04AP 500-656646/15	2.0	1.590689	50.0	468319.0	0.795345	Y
3	STD05AP 500-656646/16	5.0	3.764208	50.0	450108.0	0.752842	Y
4	STD06AP 500-656646/17	20.0	15.431963	50.0	460583.0	0.771598	Y
5	STD07AP 500-656646/18	50.0	34.320405	50.0	434281.0	0.686408	Y
6	STD08AP 500-656646/19	100.0	71.448887	50.0	451802.0	0.714489	Y
7	STD09AP 500-656646/20	150.0	106.230599	50.0	490314.0	0.708204	Y
8	STD10AP 500-656646/21	200.0	148.554668	50.0	455397.0	0.742773	Y



Calibration

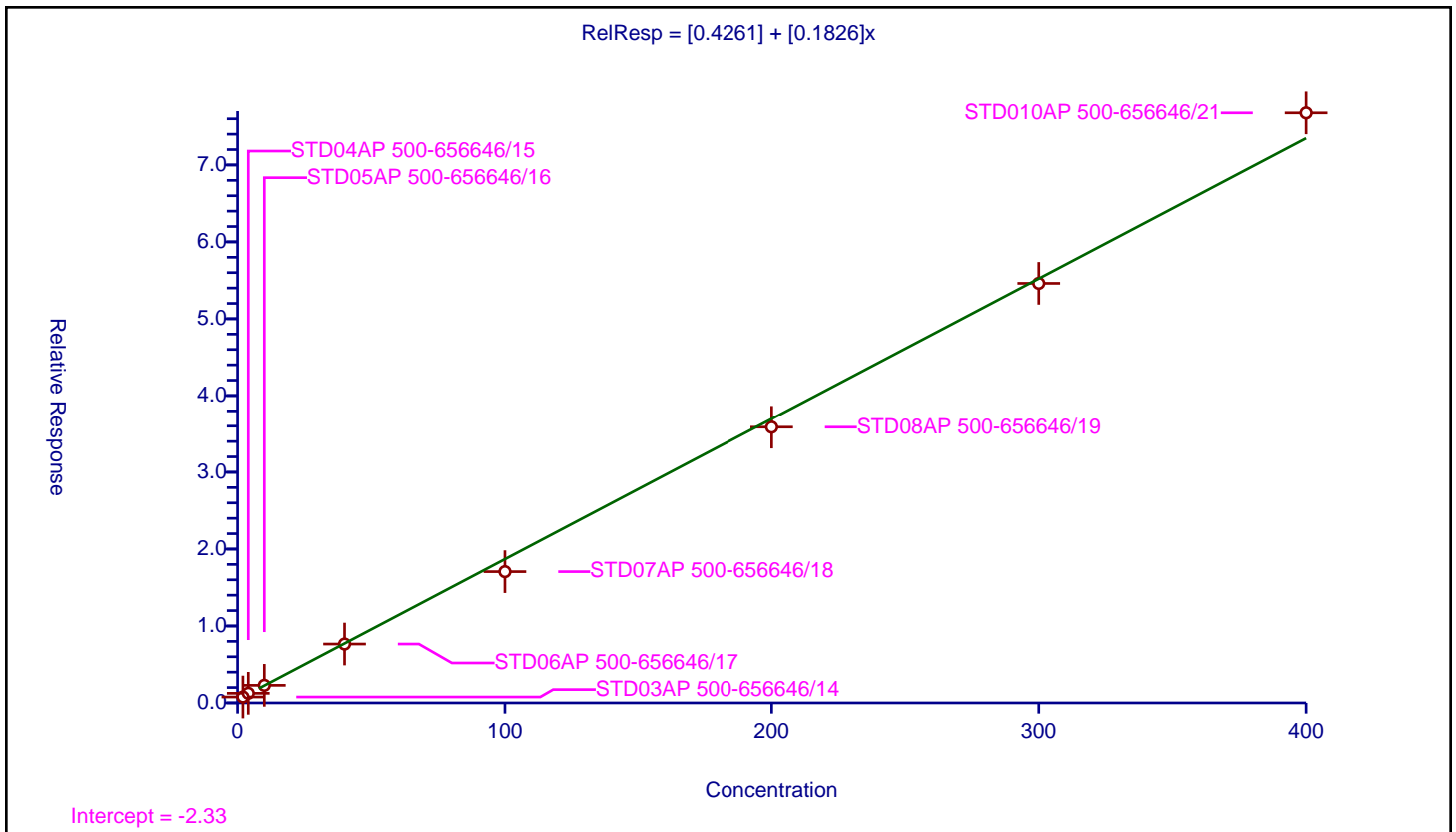
/ Ethyl acetate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.4261
Slope:	0.1826

Error Coefficients	
Standard Error:	389000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	2.0	0.771659	50.0	442812.0	0.38583	Y
2	STD04AP 500-656646/15	4.0	1.252138	50.0	468319.0	0.313034	Y
3	STD05AP 500-656646/16	10.0	2.286673	50.0	450108.0	0.228667	Y
4	STD06AP 500-656646/17	40.0	7.654104	50.0	460583.0	0.191353	Y
5	STD07AP 500-656646/18	100.0	17.061879	50.0	434281.0	0.170619	Y
6	STD08AP 500-656646/19	200.0	35.867482	50.0	451802.0	0.179337	Y
7	STD09AP 500-656646/20	300.0	54.60511	50.0	490314.0	0.182017	Y
8	STD010AP 500-656646/21	400.0	76.770818	50.0	455397.0	0.191927	Y



Calibration

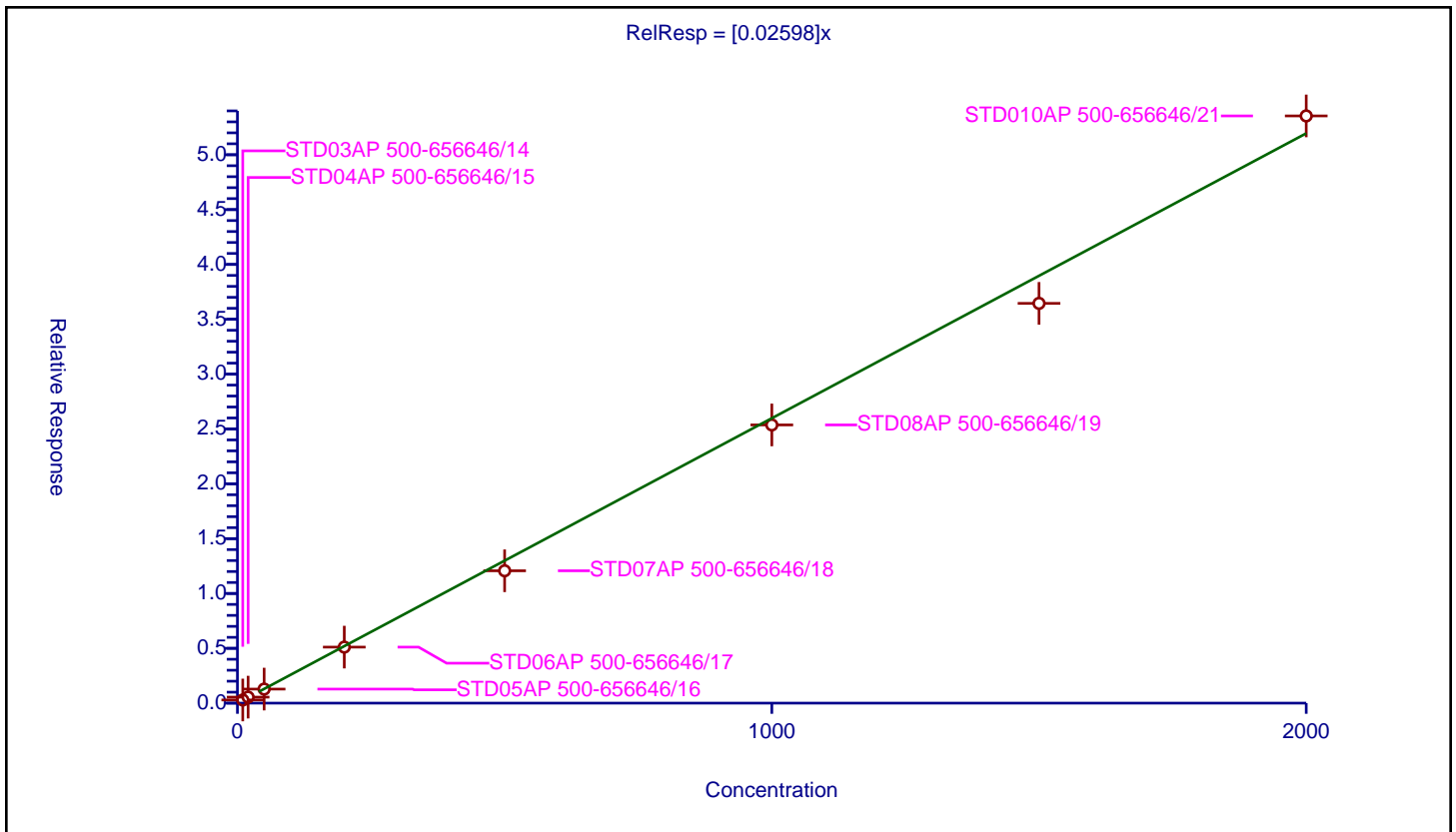
/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02598

Error Coefficients	
Standard Error:	248000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	10.0	0.286916	50.0	442812.0	0.028692	Y
2	STD04AP 500-656646/15	20.0	0.548024	50.0	468319.0	0.027401	Y
3	STD05AP 500-656646/16	50.0	1.279915	50.0	450108.0	0.025598	Y
4	STD06AP 500-656646/17	200.0	5.107766	50.0	460583.0	0.025539	Y
5	STD07AP 500-656646/18	500.0	12.067072	50.0	434281.0	0.024134	Y
6	STD08AP 500-656646/19	1000.0	25.366643	50.0	451802.0	0.025367	Y
7	STD09AP 500-656646/20	1500.0	36.450214	50.0	490314.0	0.0243	Y
8	STD10AP 500-656646/21	2000.0	53.539988	50.0	455397.0	0.02677	Y



Calibration

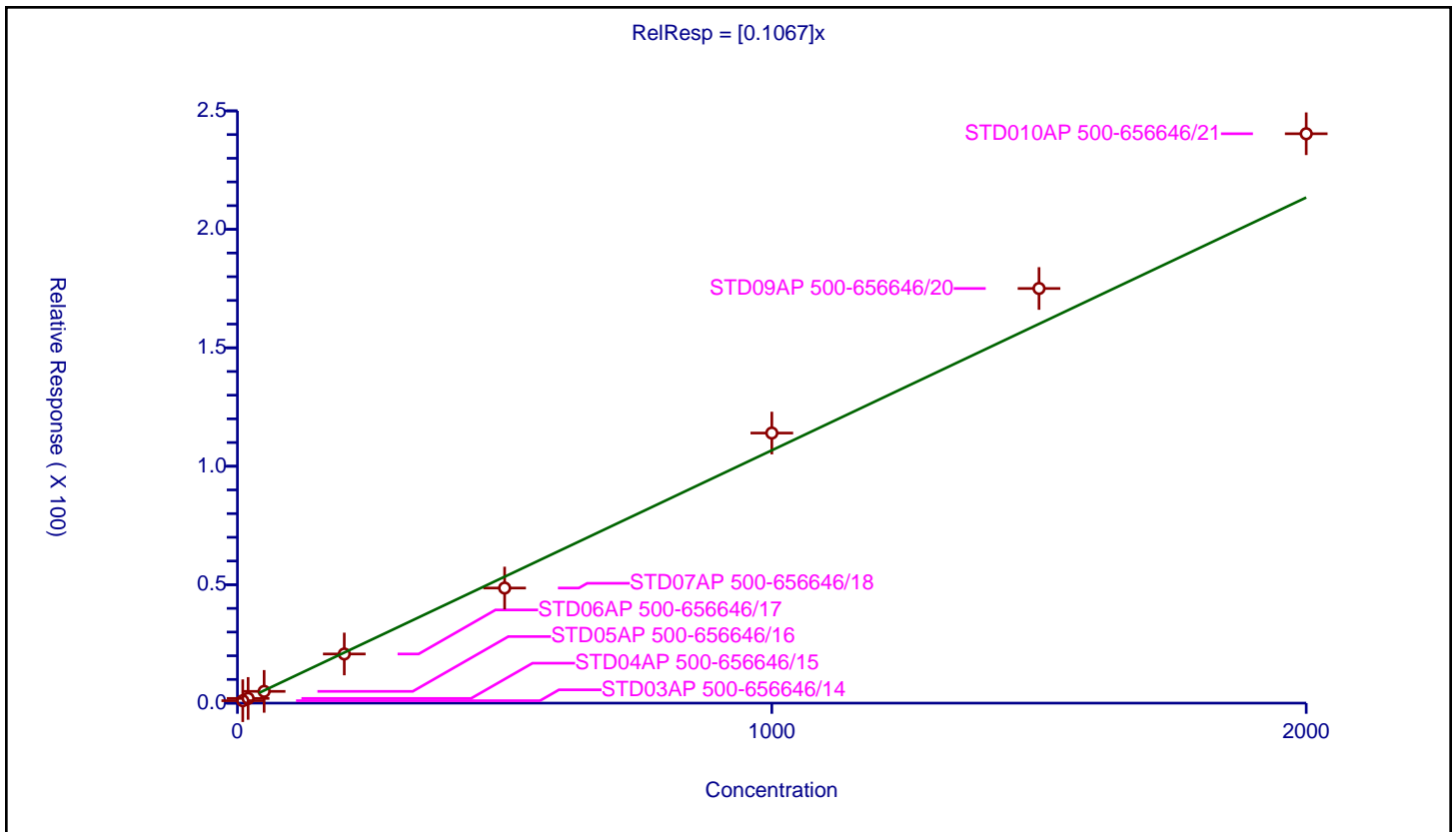
/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1067

Error Coefficients	
Standard Error:	1130000
Relative Standard Error:	8.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	10.0	1.033621	50.0	442812.0	0.103362	Y
2	STD04AP 500-656646/15	20.0	1.986466	50.0	468319.0	0.099323	Y
3	STD05AP 500-656646/16	50.0	4.96392	50.0	450108.0	0.099278	Y
4	STD06AP 500-656646/17	200.0	20.744144	50.0	460583.0	0.103721	Y
5	STD07AP 500-656646/18	500.0	48.590659	50.0	434281.0	0.097181	Y
6	STD08AP 500-656646/19	1000.0	114.010119	50.0	451802.0	0.11401	Y
7	STD09AP 500-656646/20	1500.0	175.034468	50.0	490314.0	0.11669	Y
8	STD10AP 500-656646/21	2000.0	240.348311	50.0	455397.0	0.120174	Y



Calibration

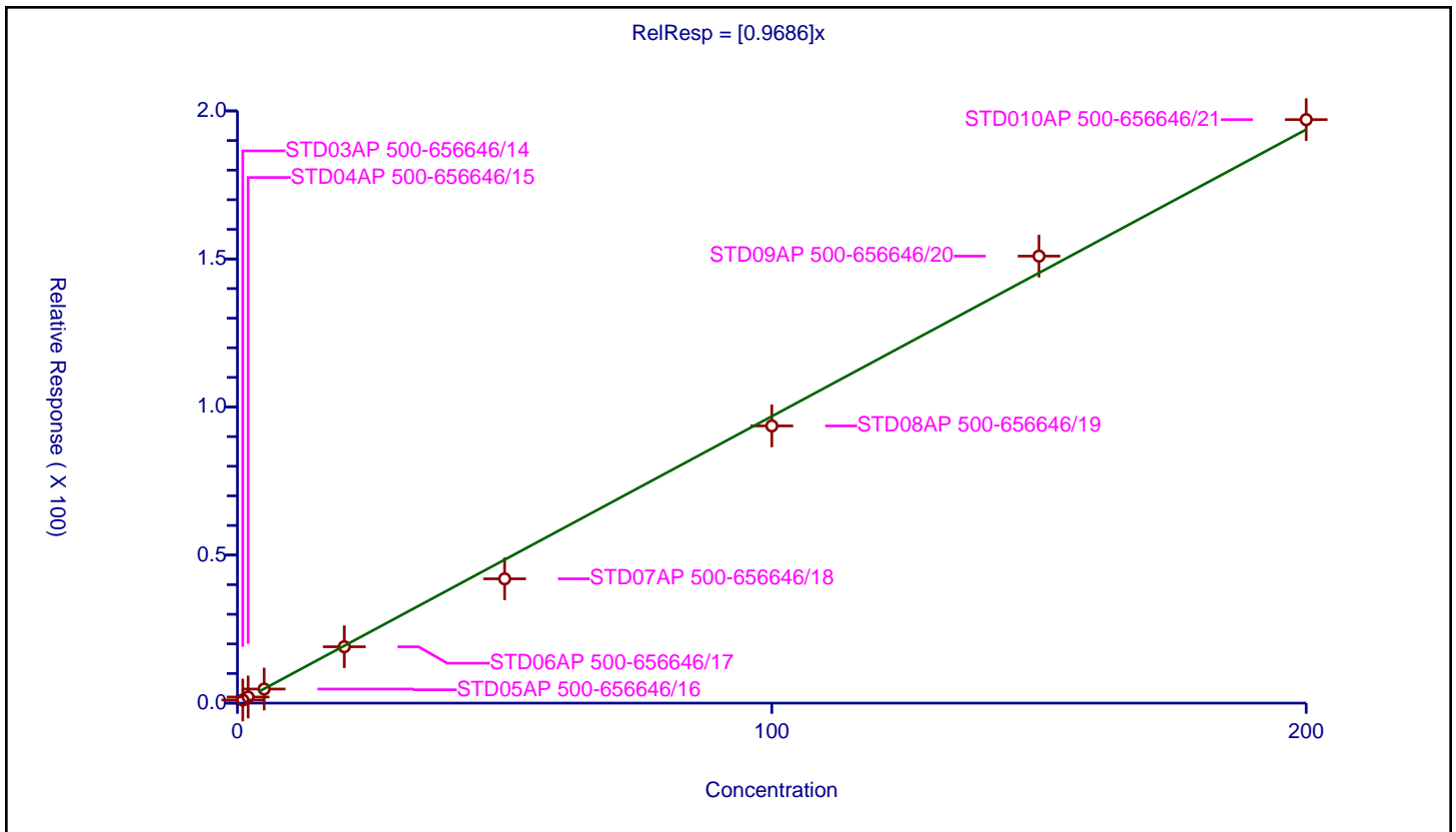
/ Isooctane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9686

Error Coefficients	
Standard Error:	948000
Relative Standard Error:	6.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	1.048978	50.0	442812.0	1.048978	Y
2	STD04AP 500-656646/15	2.0	2.060348	50.0	468319.0	1.030174	Y
3	STD05AP 500-656646/16	5.0	4.751971	50.0	450108.0	0.950394	Y
4	STD06AP 500-656646/17	20.0	19.035657	50.0	460583.0	0.951783	Y
5	STD07AP 500-656646/18	50.0	41.97789	50.0	434281.0	0.839558	Y
6	STD08AP 500-656646/19	100.0	93.615677	50.0	451802.0	0.936157	Y
7	STD09AP 500-656646/20	150.0	150.954388	50.0	490314.0	1.006363	Y
8	STD10AP 500-656646/21	200.0	197.049058	50.0	455397.0	0.985245	Y



Calibration

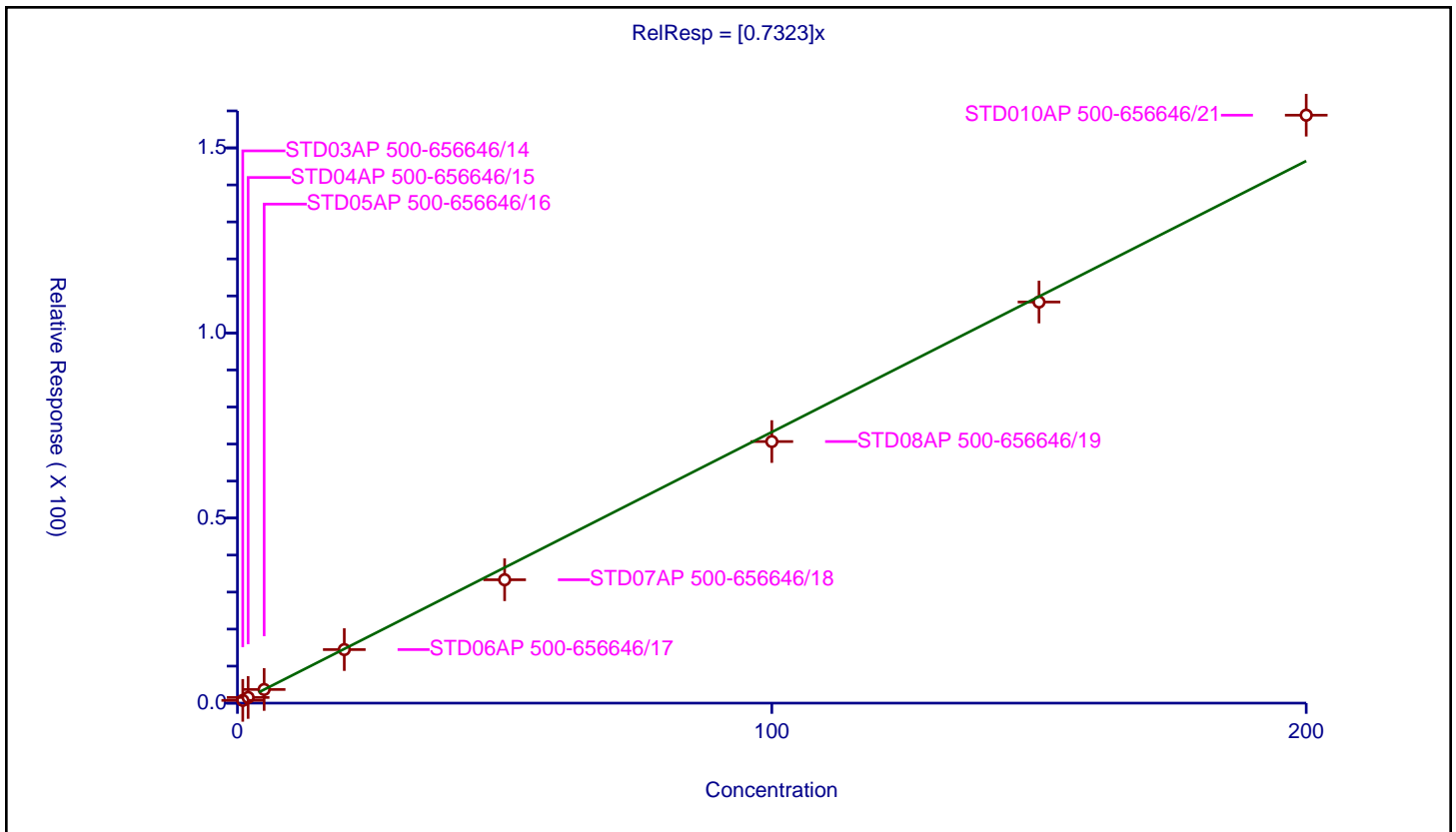
/ Tert-amyl methyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7323

Error Coefficients	
Standard Error:	730000
Relative Standard Error:	5.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.744447	50.0	442812.0	0.744447	Y
2	STD04AP 500-656646/15	2.0	1.526951	50.0	468319.0	0.763475	Y
3	STD05AP 500-656646/16	5.0	3.687226	50.0	450108.0	0.737445	Y
4	STD06AP 500-656646/17	20.0	14.464494	50.0	460583.0	0.723225	Y
5	STD07AP 500-656646/18	50.0	33.333257	50.0	434281.0	0.666665	Y
6	STD08AP 500-656646/19	100.0	70.669674	50.0	451802.0	0.706697	Y
7	STD09AP 500-656646/20	150.0	108.363722	50.0	490314.0	0.722425	Y
8	STD10AP 500-656646/21	200.0	158.843712	50.0	455397.0	0.794219	Y



Calibration

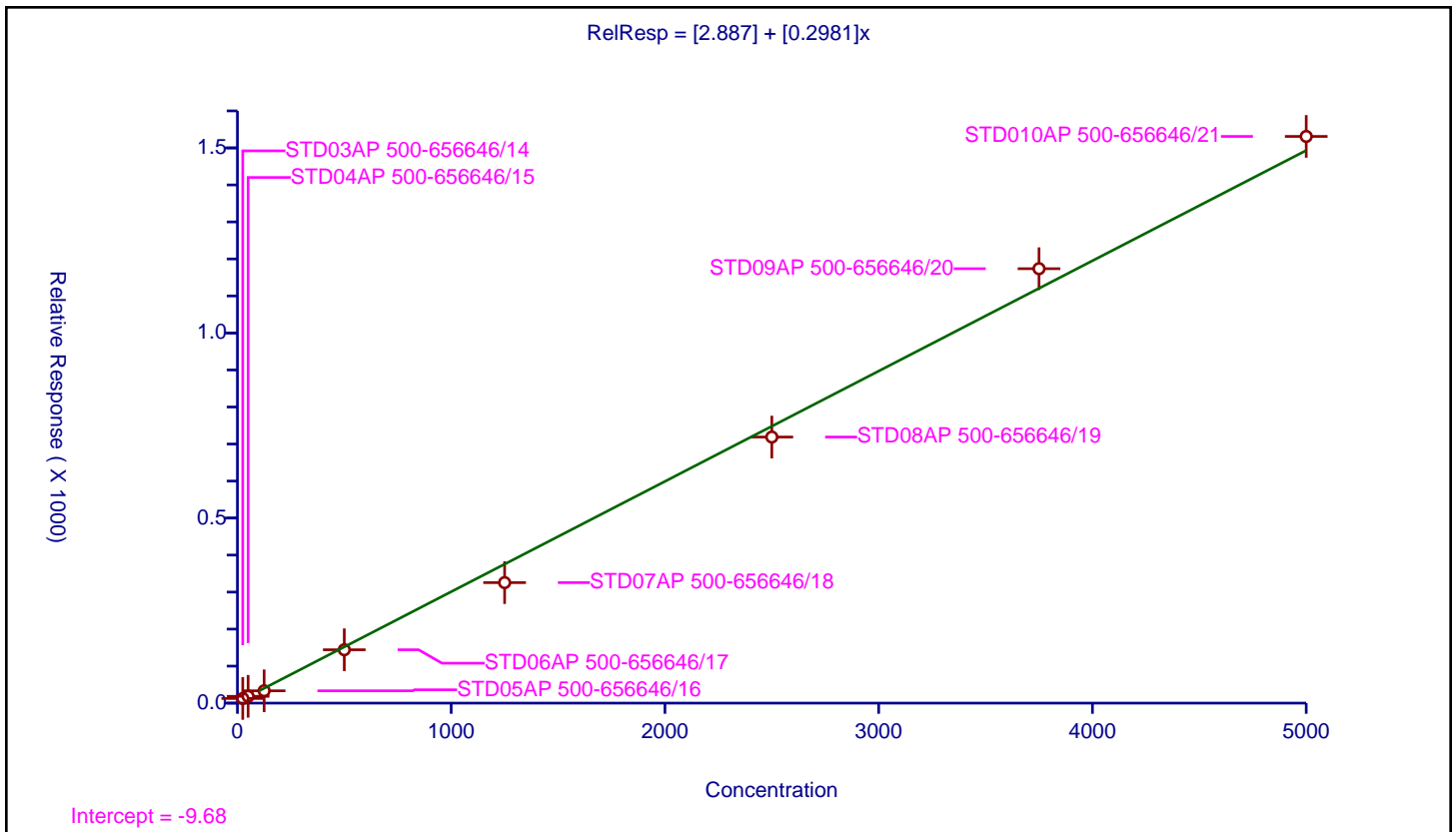
/ n-Butanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	2.887
Slope:	0.2981

Error Coefficients	
Standard Error:	164000
Relative Standard Error:	15.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	25.0	12.534139	1000.0	192594.0	0.501366	Y
2	STD04AP 500-656646/15	50.0	18.418657	1000.0	202132.0	0.368373	Y
3	STD05AP 500-656646/16	125.0	33.258356	1000.0	191170.0	0.266067	Y
4	STD06AP 500-656646/17	500.0	144.183852	1000.0	180145.0	0.288368	Y
5	STD07AP 500-656646/18	1250.0	325.528461	1000.0	182322.0	0.260423	Y
6	STD08AP 500-656646/19	2500.0	718.879377	1000.0	192750.0	0.287552	Y
7	STD09AP 500-656646/20	3750.0	1173.669864	1000.0	197743.0	0.312979	Y
8	STD10AP 500-656646/21	5000.0	1530.962882	1000.0	190906.0	0.306193	Y



Calibration

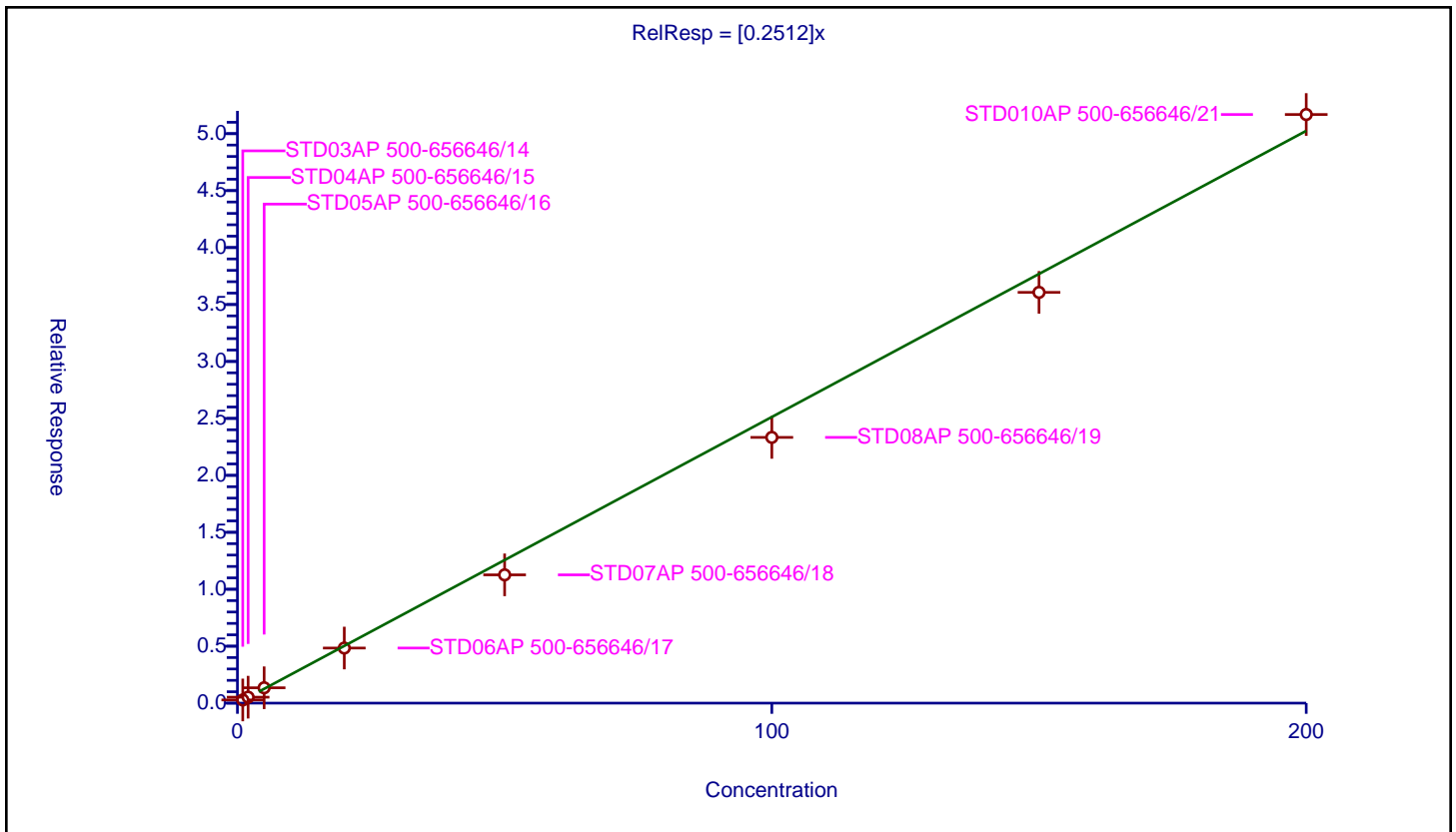
/ Ethyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2512

Error Coefficients	
Standard Error:	240000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.279238	50.0	442812.0	0.279238	Y
2	STD04AP 500-656646/15	2.0	0.523254	50.0	468319.0	0.261627	Y
3	STD05AP 500-656646/16	5.0	1.348121	50.0	450108.0	0.269624	Y
4	STD06AP 500-656646/17	20.0	4.837999	50.0	460583.0	0.2419	Y
5	STD07AP 500-656646/18	50.0	11.262524	50.0	434281.0	0.22525	Y
6	STD08AP 500-656646/19	100.0	23.332787	50.0	451802.0	0.233328	Y
7	STD09AP 500-656646/20	150.0	36.065052	50.0	490314.0	0.240434	Y
8	STD10AP 500-656646/21	200.0	51.682708	50.0	455397.0	0.258414	Y



Calibration

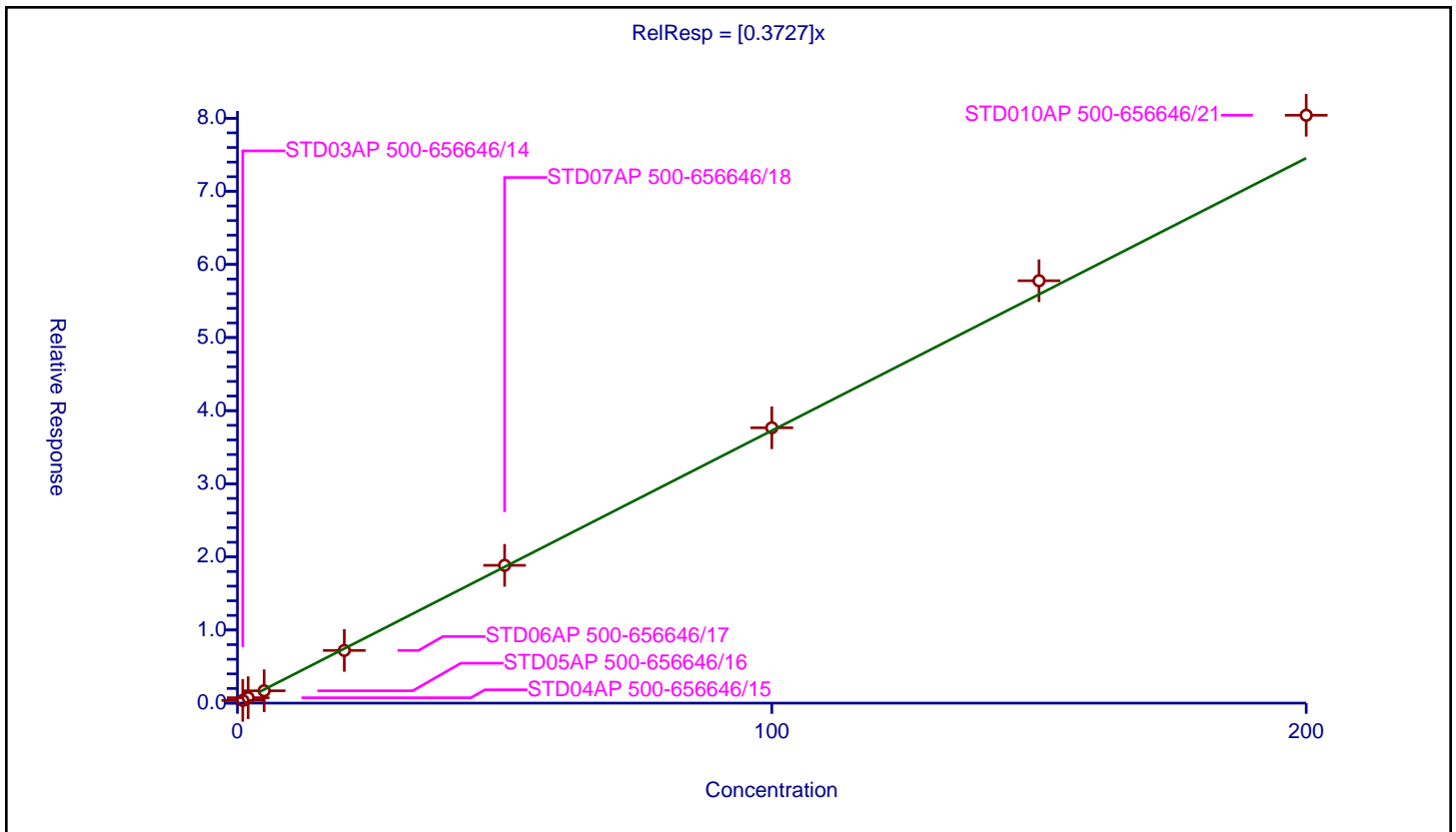
/ 2,3-Dichloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3727

Error Coefficients	
Standard Error:	379000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.373974	50.0	442812.0	0.373974	Y
2	STD04AP 500-656646/15	2.0	0.737745	50.0	468319.0	0.368872	Y
3	STD05AP 500-656646/16	5.0	1.688261	50.0	450108.0	0.337652	Y
4	STD06AP 500-656646/17	20.0	7.208039	50.0	460583.0	0.360402	Y
5	STD07AP 500-656646/18	50.0	18.845862	50.0	434281.0	0.376917	Y
6	STD08AP 500-656646/19	100.0	37.657978	50.0	451802.0	0.37658	Y
7	STD09AP 500-656646/20	150.0	57.77206	50.0	490314.0	0.385147	Y
8	STD10AP 500-656646/21	200.0	80.407095	50.0	455397.0	0.402035	Y



Calibration

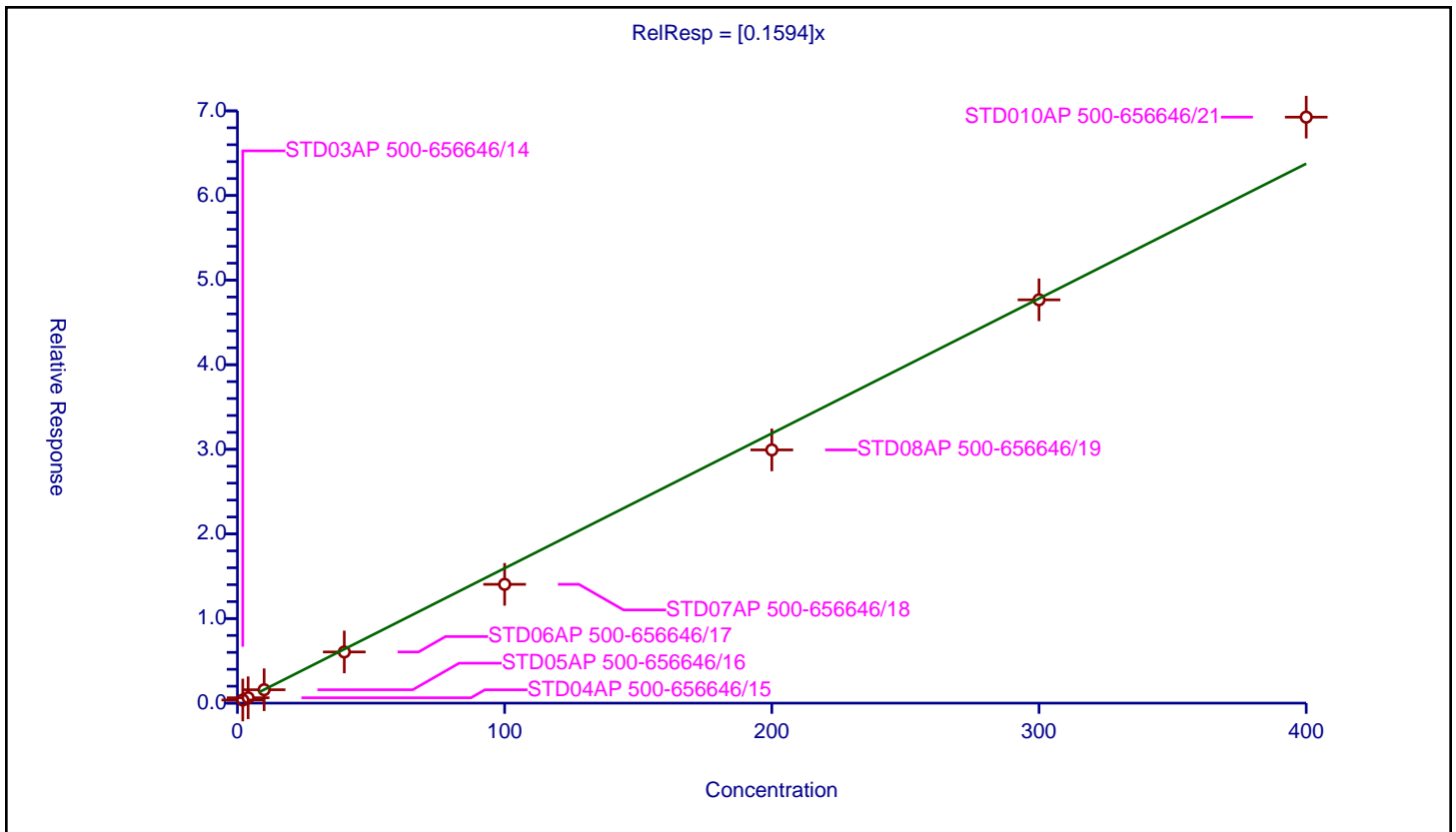
/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1594

Error Coefficients	
Standard Error:	318000
Relative Standard Error:	8.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	2.0	0.370473	50.0	442812.0	0.185237	Y
2	STD04AP 500-656646/15	4.0	0.63429	50.0	468319.0	0.158572	Y
3	STD05AP 500-656646/16	10.0	1.580954	50.0	450108.0	0.158095	Y
4	STD06AP 500-656646/17	40.0	6.048421	50.0	460583.0	0.151211	Y
5	STD07AP 500-656646/18	100.0	14.041139	50.0	434281.0	0.140411	Y
6	STD08AP 500-656646/19	200.0	29.930368	50.0	451802.0	0.149652	Y
7	STD09AP 500-656646/20	300.0	47.667719	50.0	490314.0	0.158892	Y
8	STD10AP 500-656646/21	400.0	69.260338	50.0	455397.0	0.173151	Y



Calibration

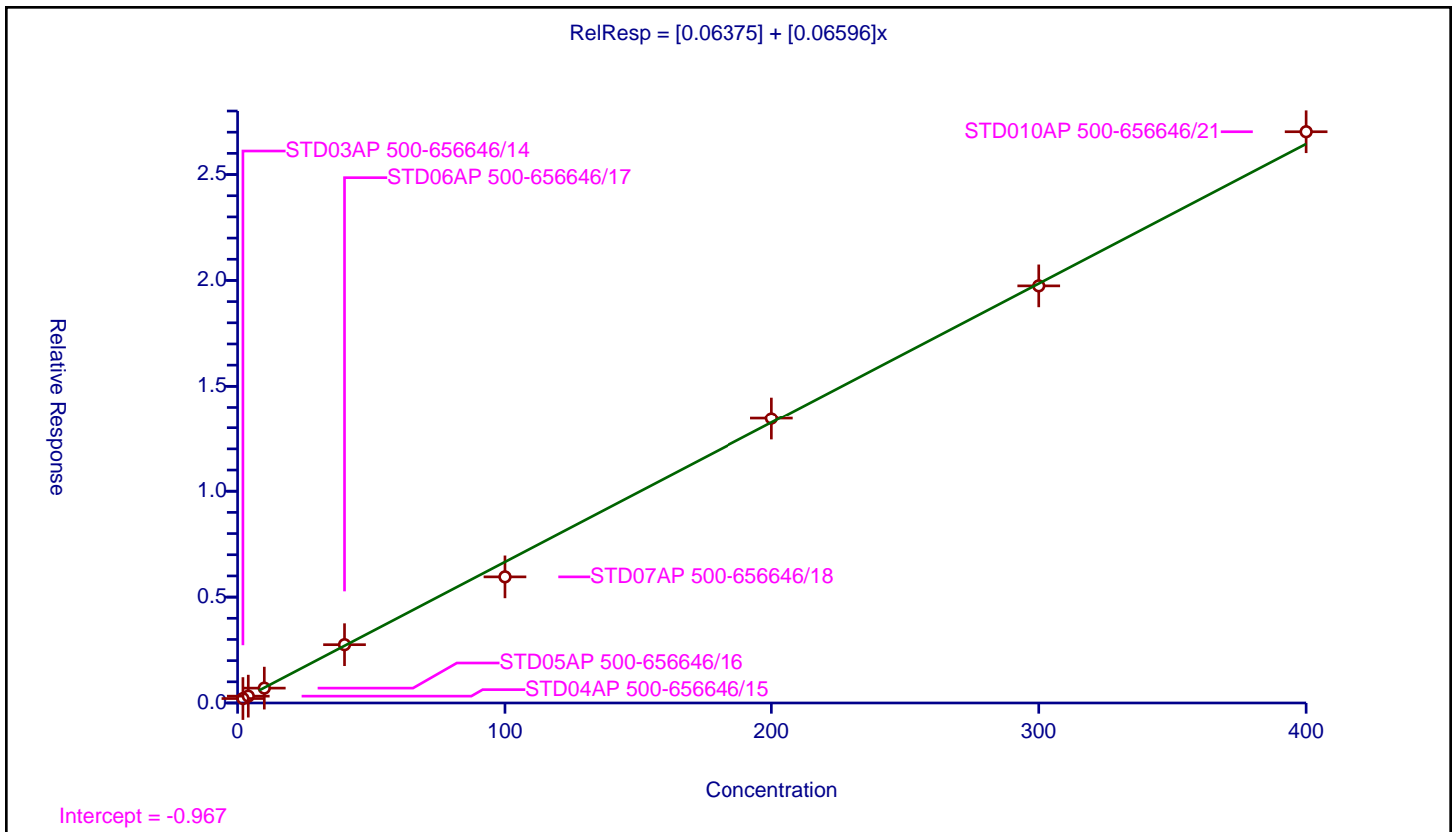
/ 2-Nitropropane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.06375
Slope:	0.06596

Error Coefficients	
Standard Error:	112000
Relative Standard Error:	6.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	2.0	0.209459	50.0	348756.0	0.104729	Y
2	STD04AP 500-656646/15	4.0	0.323472	50.0	360773.0	0.080868	Y
3	STD05AP 500-656646/16	10.0	0.701663	50.0	357294.0	0.070166	Y
4	STD06AP 500-656646/17	40.0	2.752872	50.0	354339.0	0.068822	Y
5	STD07AP 500-656646/18	100.0	5.954722	50.0	342241.0	0.059547	Y
6	STD08AP 500-656646/19	200.0	13.454702	50.0	346299.0	0.067274	Y
7	STD09AP 500-656646/20	300.0	19.743017	50.0	388003.0	0.06581	Y
8	STD10AP 500-656646/21	400.0	27.02107	50.0	372946.0	0.067553	Y



Calibration

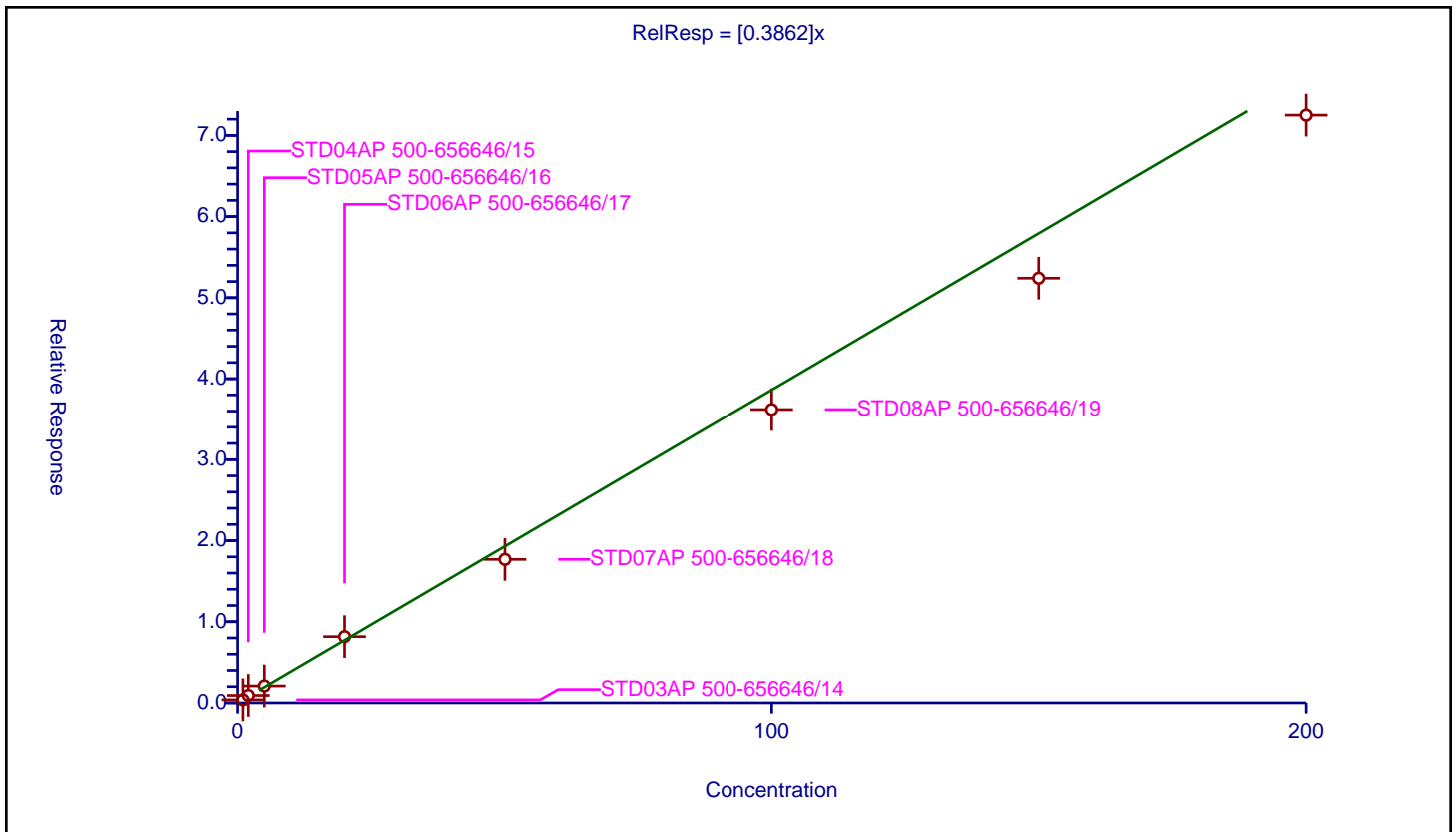
/ n-Butyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3862

Error Coefficients	
Standard Error:	277000
Relative Standard Error:	9.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.378918	50.0	348756.0	0.378918	Y
2	STD04AP 500-656646/15	2.0	0.916504	50.0	360773.0	0.458252	Y
3	STD05AP 500-656646/16	5.0	2.083858	50.0	357294.0	0.416772	Y
4	STD06AP 500-656646/17	20.0	8.162805	50.0	354339.0	0.40814	Y
5	STD07AP 500-656646/18	50.0	17.688851	50.0	342241.0	0.353777	Y
6	STD08AP 500-656646/19	100.0	36.195311	50.0	346299.0	0.361953	Y
7	STD09AP 500-656646/20	150.0	52.405652	50.0	388003.0	0.349371	Y
8	STD10AP 500-656646/21	200.0	72.498297	50.0	372946.0	0.362491	Y



Calibration

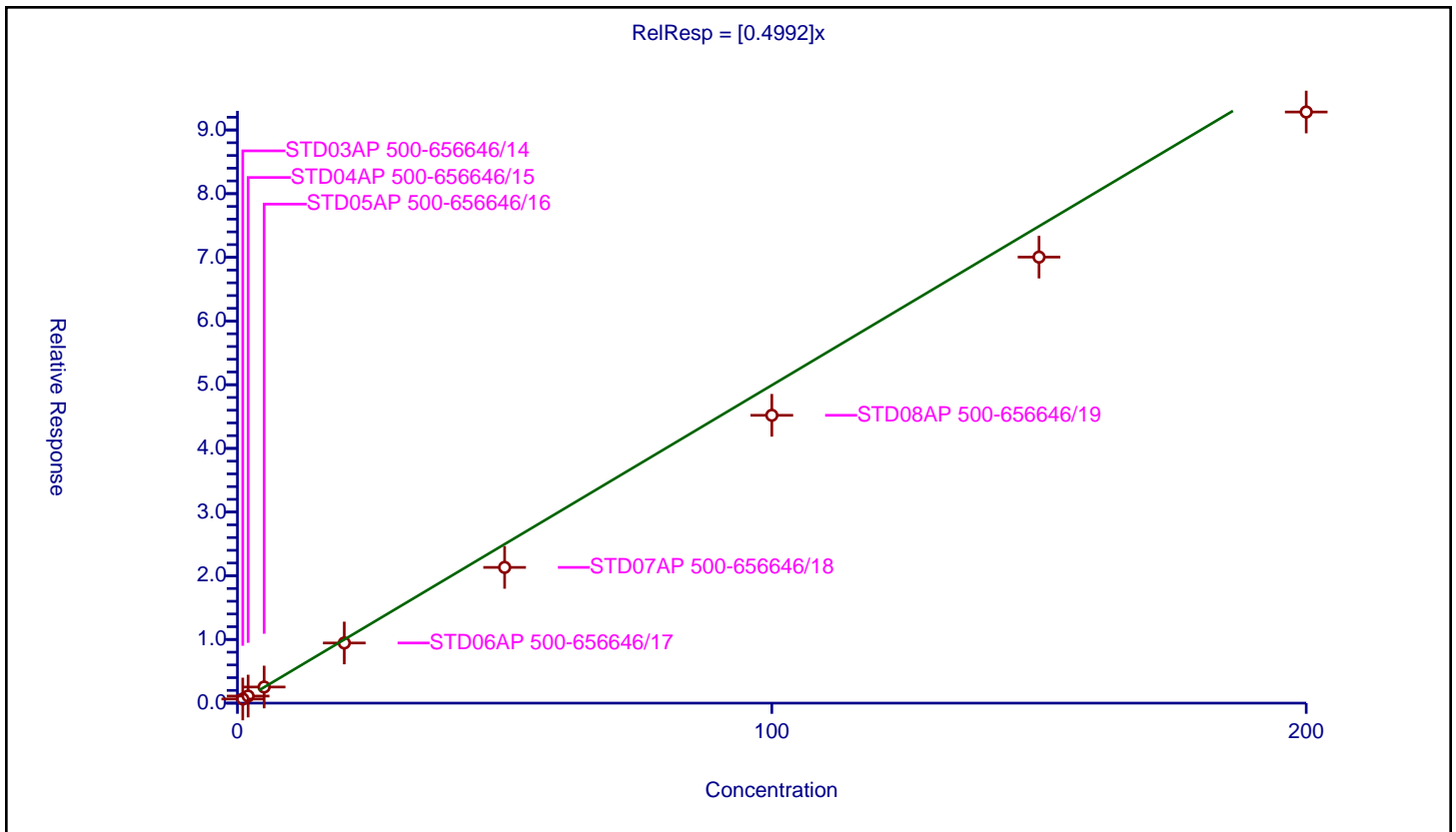
/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4992

Error Coefficients	
Standard Error:	358000
Relative Standard Error:	14.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.649738	50.0	348756.0	0.649738	Y
2	STD04AP 500-656646/15	2.0	1.111779	50.0	360773.0	0.55589	Y
3	STD05AP 500-656646/16	5.0	2.532508	50.0	357294.0	0.506502	Y
4	STD06AP 500-656646/17	20.0	9.446745	50.0	354339.0	0.472337	Y
5	STD07AP 500-656646/18	50.0	21.313782	50.0	342241.0	0.426276	Y
6	STD08AP 500-656646/19	100.0	45.199668	50.0	346299.0	0.451997	Y
7	STD09AP 500-656646/20	150.0	70.038376	50.0	388003.0	0.466923	Y
8	STD10AP 500-656646/21	200.0	92.824296	50.0	372946.0	0.464121	Y



Calibration

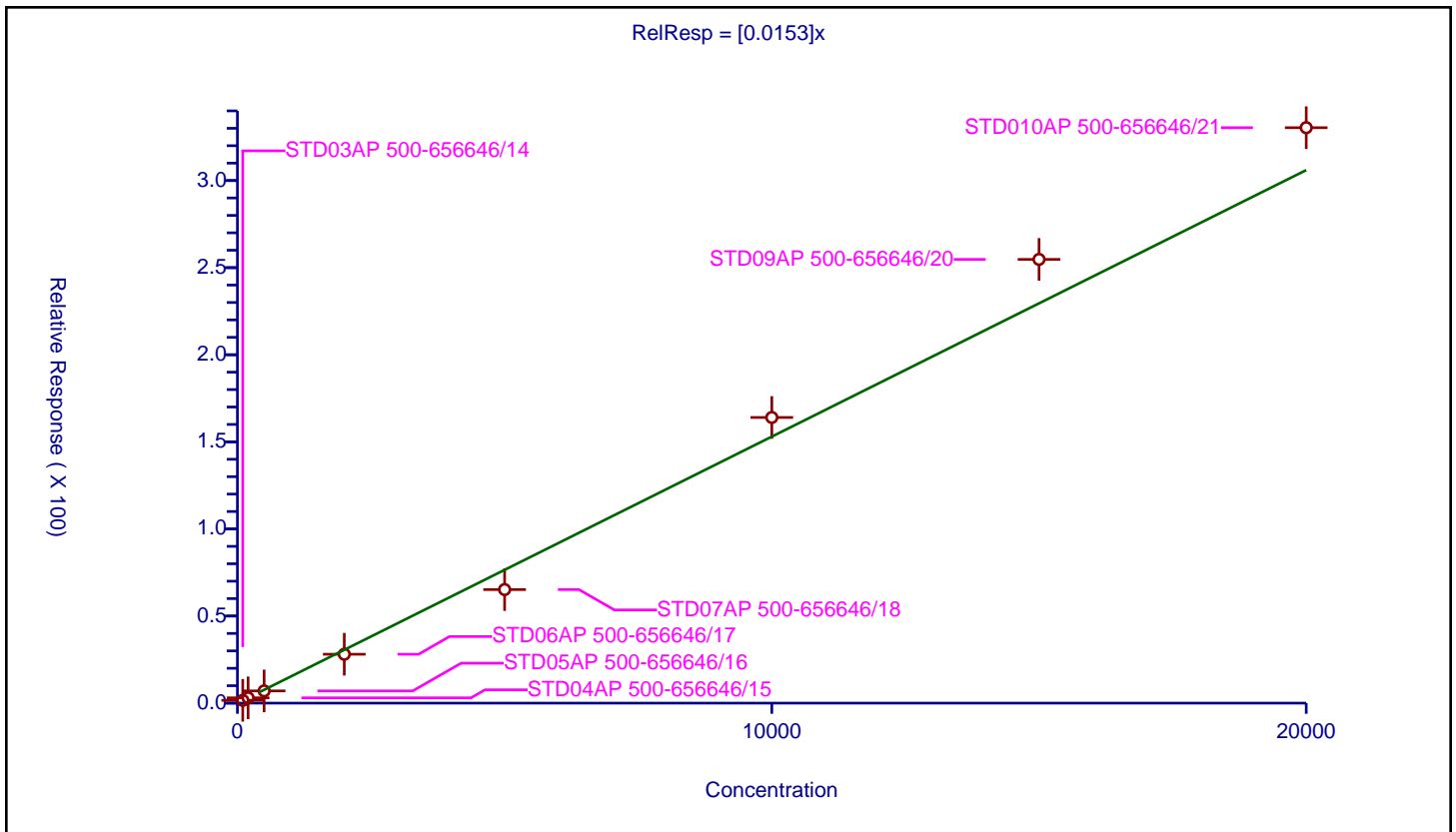
/ Cyclohexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0153

Error Coefficients	
Standard Error:	688000
Relative Standard Error:	9.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	100.0	1.616441	50.0	200626.0	0.016164	Y
2	STD04AP 500-656646/15	200.0	3.042695	50.0	210915.0	0.015213	Y
3	STD05AP 500-656646/16	500.0	7.025318	50.0	206254.0	0.014051	Y
4	STD06AP 500-656646/17	2000.0	28.066217	50.0	202546.0	0.014033	Y
5	STD07AP 500-656646/18	5000.0	65.195266	50.0	193761.0	0.013039	Y
6	STD08AP 500-656646/19	10000.0	163.988507	50.0	187075.0	0.016399	Y
7	STD09AP 500-656646/20	15000.0	254.741297	50.0	205313.0	0.016983	Y
8	STD10AP 500-656646/21	20000.0	330.354319	50.0	201090.0	0.016518	Y



Calibration

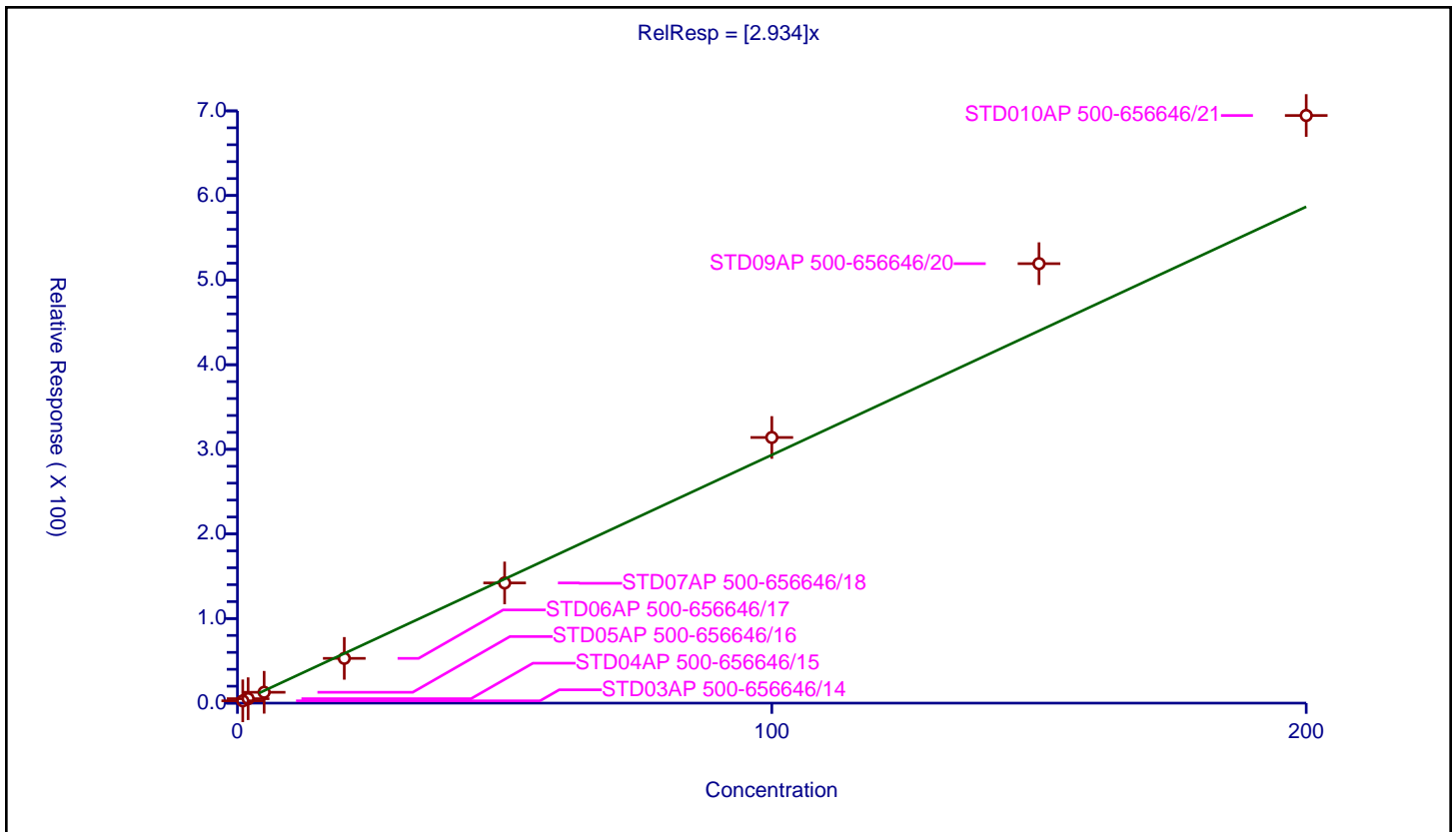
/ 2-Ethyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.934

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	12.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	2.714005	50.0	200626.0	2.714005	Y
2	STD04AP 500-656646/15	2.0	5.249508	50.0	210915.0	2.624754	Y
3	STD05AP 500-656646/16	5.0	12.840236	50.0	206254.0	2.568047	Y
4	STD06AP 500-656646/17	20.0	52.895392	50.0	202546.0	2.64477	Y
5	STD07AP 500-656646/18	50.0	142.058773	50.0	193761.0	2.841175	Y
6	STD08AP 500-656646/19	100.0	313.985567	50.0	187075.0	3.139856	Y
7	STD09AP 500-656646/20	150.0	519.435204	50.0	205313.0	3.462901	Y
8	STD10AP 500-656646/21	200.0	694.556666	50.0	201090.0	3.472783	Y



Calibration

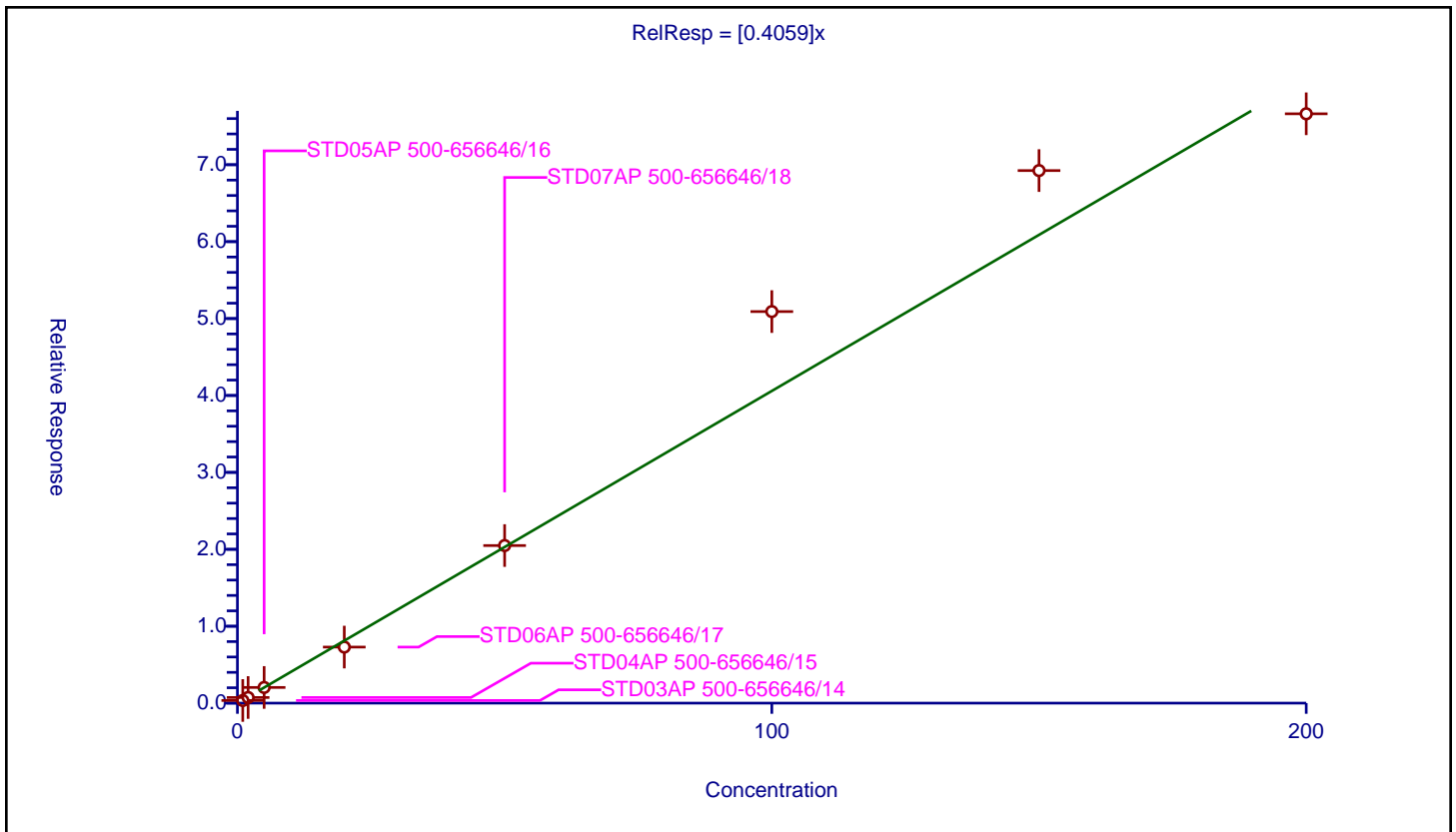
/ Pentachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4059

Error Coefficients	
Standard Error:	177000
Relative Standard Error:	13.6
Correlation Coefficient:	0.980
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.344173	50.0	200626.0	0.344173	Y
2	STD04AP 500-656646/15	2.0	0.733708	50.0	210915.0	0.366854	Y
3	STD05AP 500-656646/16	5.0	2.039233	50.0	206254.0	0.407847	Y
4	STD06AP 500-656646/17	20.0	7.287727	50.0	202546.0	0.364386	Y
5	STD07AP 500-656646/18	50.0	20.489159	50.0	193761.0	0.409783	Y
6	STD08AP 500-656646/19	100.0	50.909261	50.0	187075.0	0.509093	Y
7	STD09AP 500-656646/20	150.0	69.241597	50.0	205313.0	0.461611	Y
8	STD10AP 500-656646/21	200.0	76.622159	50.0	201090.0	0.383111	Y



Calibration

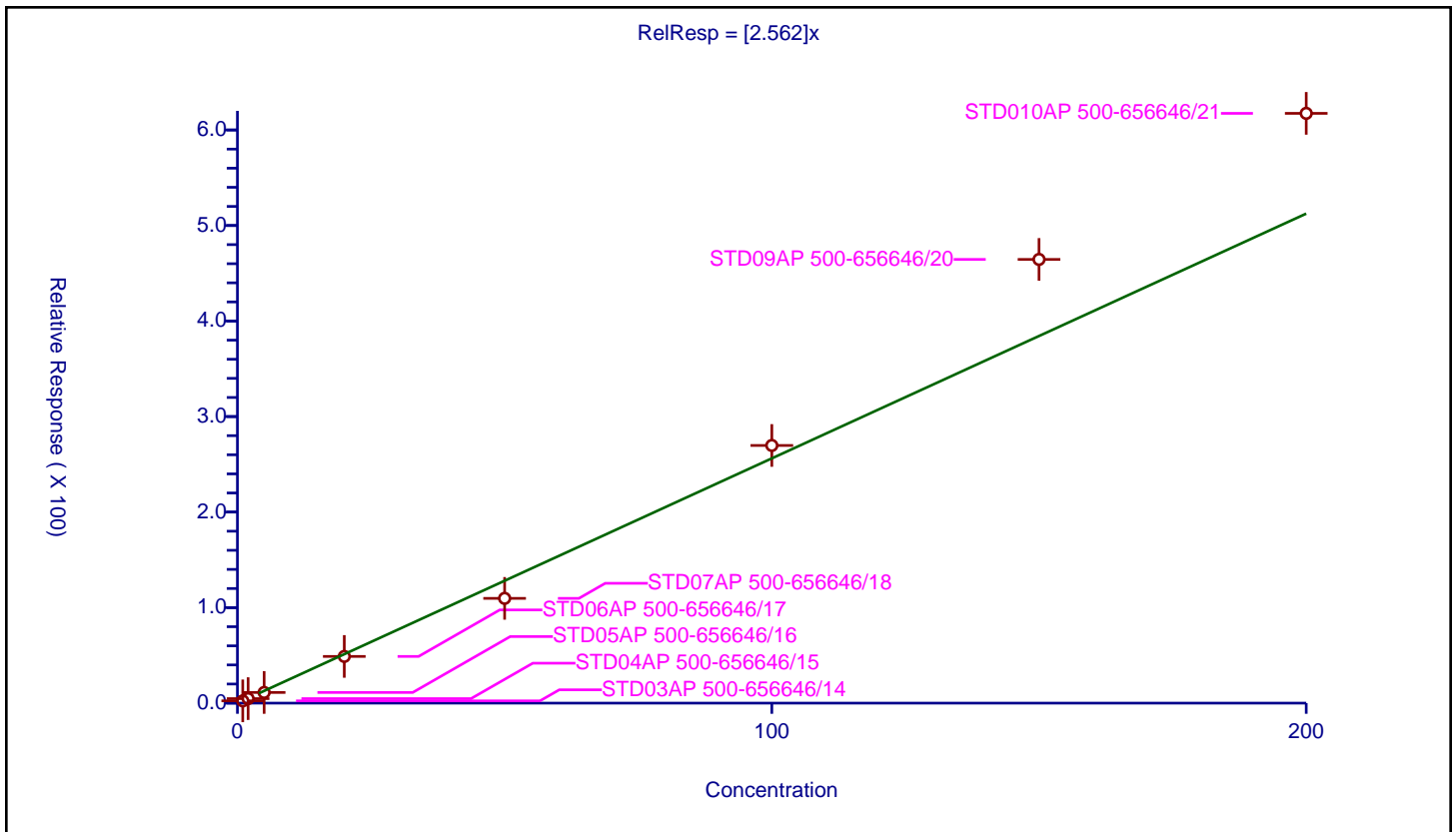
/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.562

Error Coefficients	
Standard Error:	1260000
Relative Standard Error:	14.1
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	2.375814	50.0	200626.0	2.375814	Y
2	STD04AP 500-656646/15	2.0	4.732949	50.0	210915.0	2.366475	Y
3	STD05AP 500-656646/16	5.0	11.175541	50.0	206254.0	2.235108	Y
4	STD06AP 500-656646/17	20.0	48.903212	50.0	202546.0	2.445161	Y
5	STD07AP 500-656646/18	50.0	109.683063	50.0	193761.0	2.193661	Y
6	STD08AP 500-656646/19	100.0	269.745824	50.0	187075.0	2.697458	Y
7	STD09AP 500-656646/20	150.0	464.497377	50.0	205313.0	3.096649	Y
8	STD10AP 500-656646/21	200.0	617.403401	50.0	201090.0	3.087017	Y



Calibration

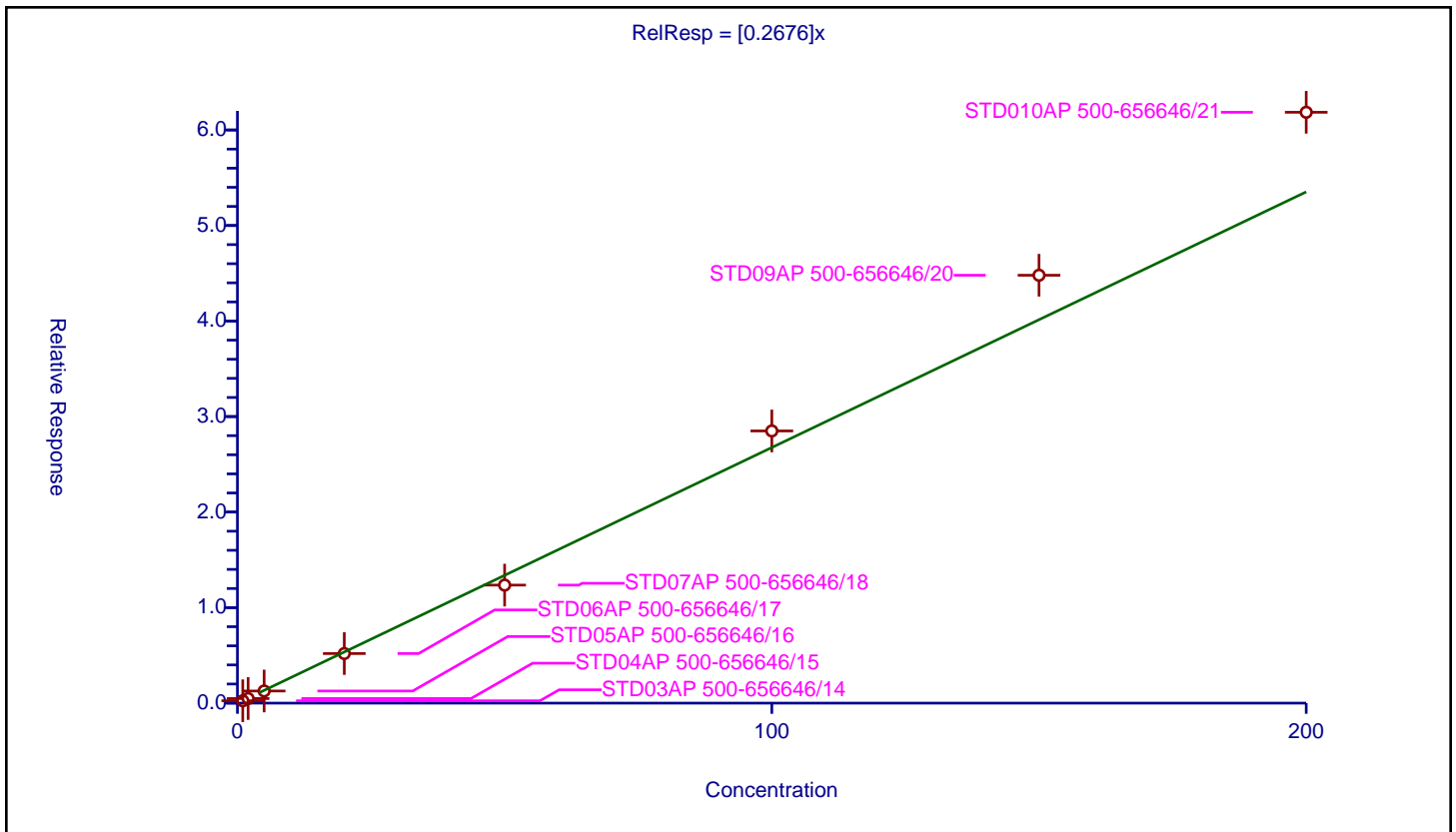
/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2676

Error Coefficients	
Standard Error:	125000
Relative Standard Error:	9.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.246728	50.0	200626.0	0.246728	Y
2	STD04AP 500-656646/15	2.0	0.480999	50.0	210915.0	0.2405	Y
3	STD05AP 500-656646/16	5.0	1.270521	50.0	206254.0	0.254104	Y
4	STD06AP 500-656646/17	20.0	5.190426	50.0	202546.0	0.259521	Y
5	STD07AP 500-656646/18	50.0	12.355686	50.0	193761.0	0.247114	Y
6	STD08AP 500-656646/19	100.0	28.494187	50.0	187075.0	0.284942	Y
7	STD09AP 500-656646/20	150.0	44.794777	50.0	205313.0	0.298632	Y
8	STD010AP 500-656646/21	200.0	61.854642	50.0	201090.0	0.309273	Y



Calibration

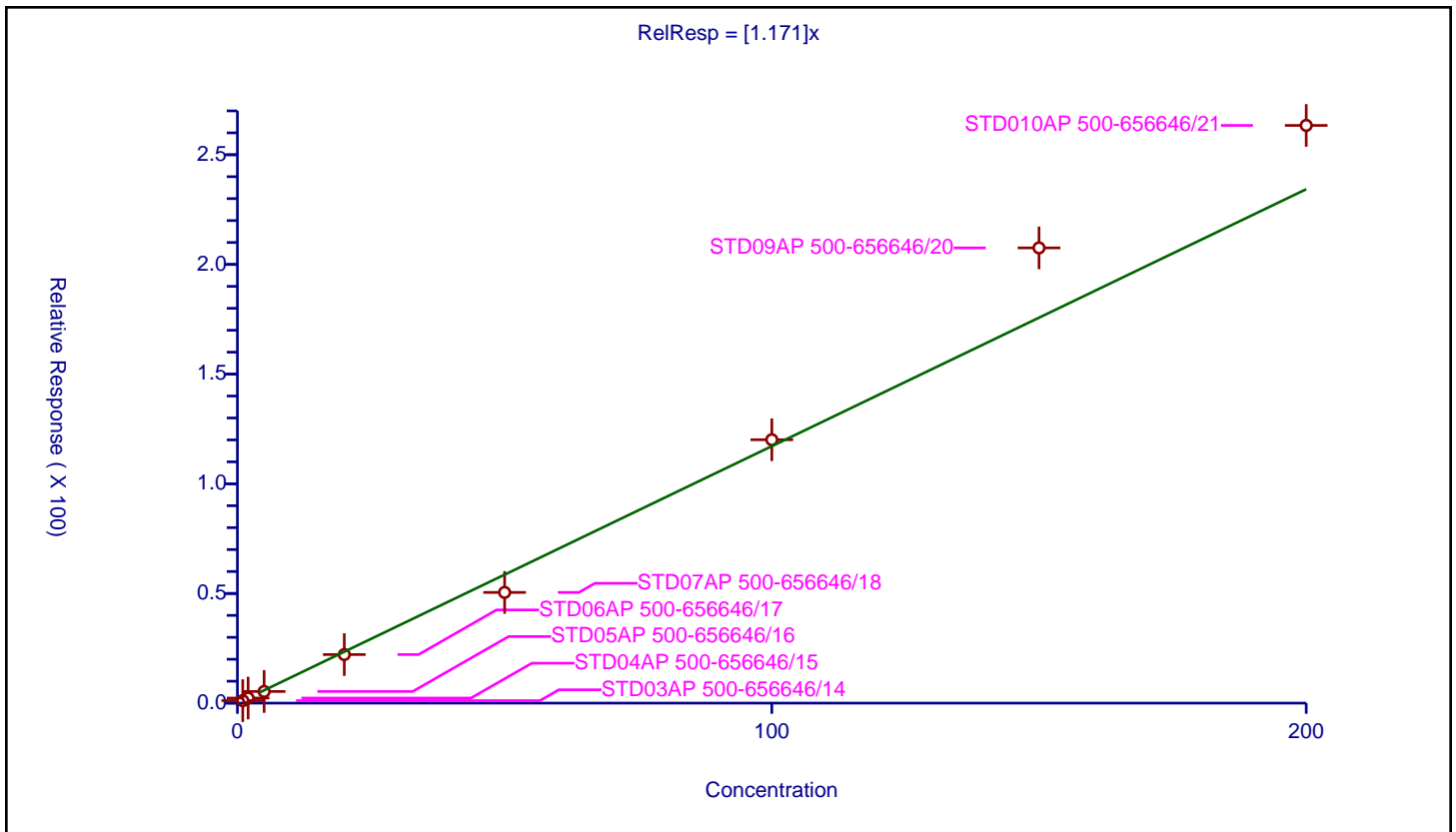
/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.171

Error Coefficients	
Standard Error:	547000
Relative Standard Error:	10.7
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	1.133951	50.0	200626.0	1.133951	Y
2	STD04AP 500-656646/15	2.0	2.315862	50.0	210915.0	1.157931	Y
3	STD05AP 500-656646/16	5.0	5.310927	50.0	206254.0	1.062185	Y
4	STD06AP 500-656646/17	20.0	22.138675	50.0	202546.0	1.106934	Y
5	STD07AP 500-656646/18	50.0	50.466812	50.0	193761.0	1.009336	Y
6	STD08AP 500-656646/19	100.0	120.082854	50.0	187075.0	1.200829	Y
7	STD09AP 500-656646/20	150.0	207.538246	50.0	205313.0	1.383588	Y
8	STD10AP 500-656646/21	200.0	263.371873	50.0	201090.0	1.316859	Y



Calibration

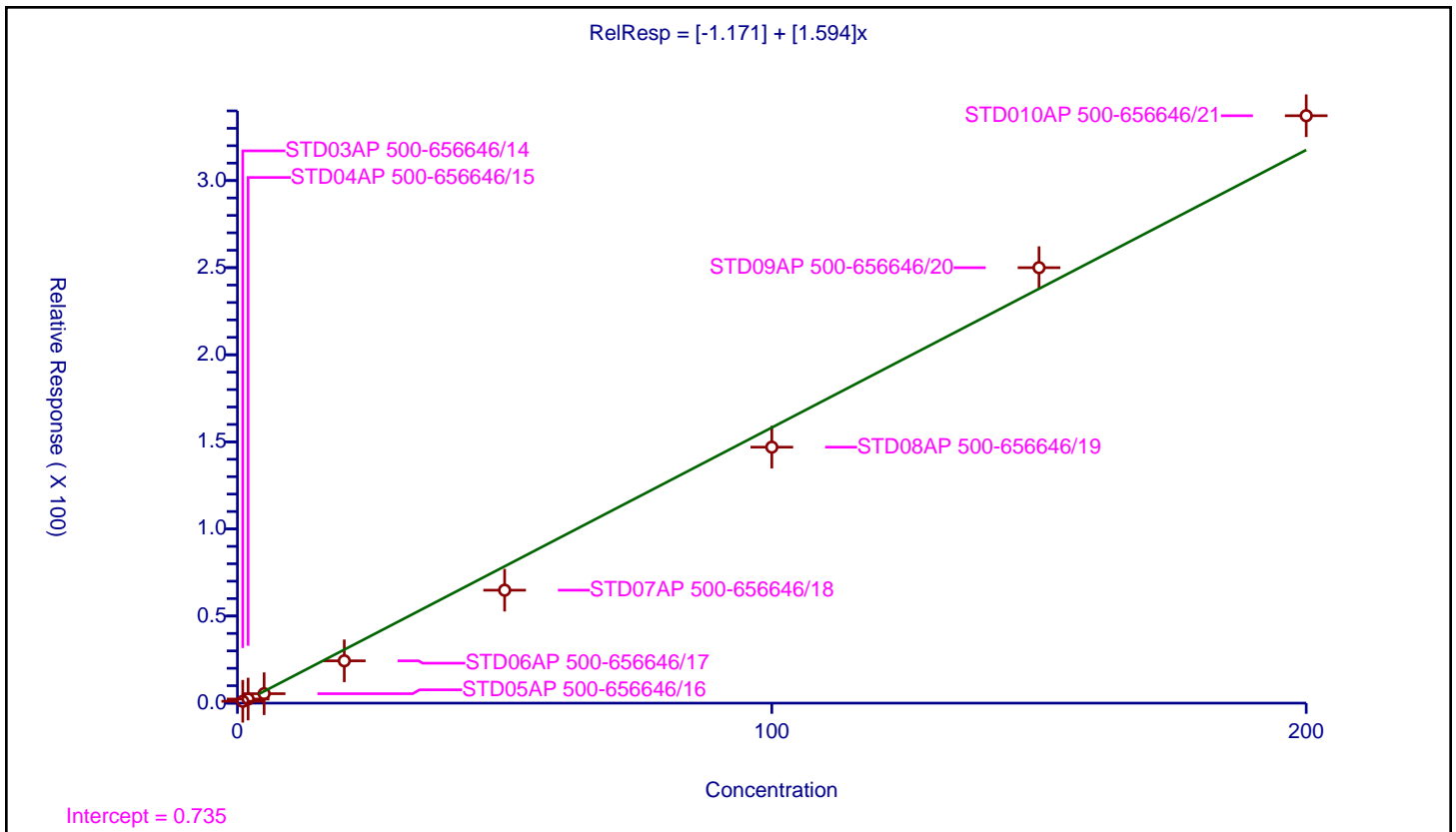
/ 2-Methylnaphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-1.171
Slope:	1.594

Error Coefficients	
Standard Error:	738000
Relative Standard Error:	21.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	1.058686	50.0	200626.0	1.058686	Y
2	STD04AP 500-656646/15	2.0	2.353792	50.0	210915.0	1.176896	Y
3	STD05AP 500-656646/16	5.0	5.414925	50.0	206254.0	1.082985	Y
4	STD06AP 500-656646/17	20.0	24.292506	50.0	202546.0	1.214625	Y
5	STD07AP 500-656646/18	50.0	64.843802	50.0	193761.0	1.296876	Y
6	STD08AP 500-656646/19	100.0	146.940799	50.0	187075.0	1.469408	Y
7	STD09AP 500-656646/20	150.0	249.990502	50.0	205313.0	1.666603	Y
8	STD10AP 500-656646/21	200.0	337.217912	50.0	201090.0	1.68609	Y



Calibration

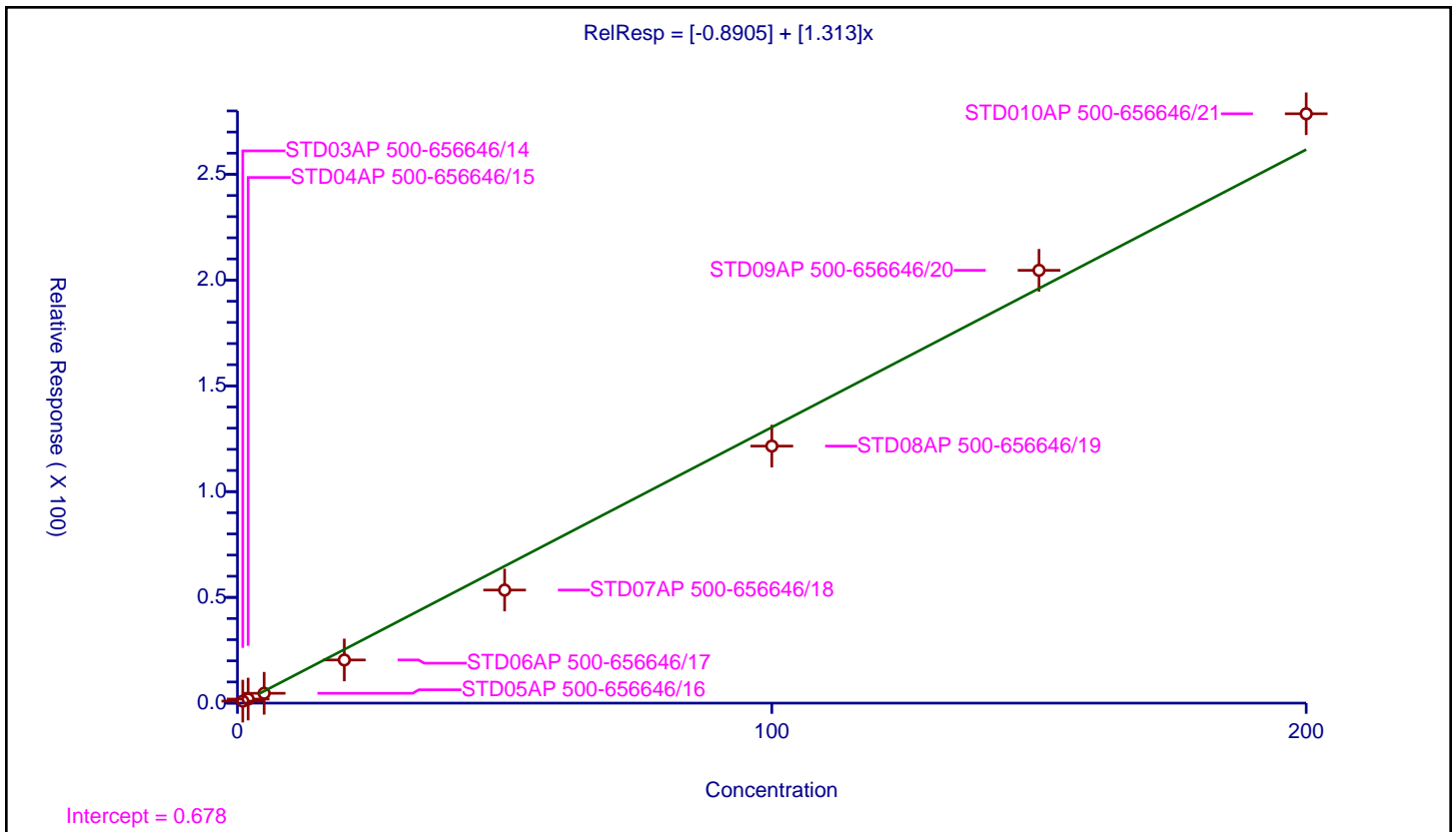
/ 1-Methylnaphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.8905
Slope:	1.313

Error Coefficients	
Standard Error:	608000
Relative Standard Error:	21.2
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03AP 500-656646/14	1.0	0.955509	50.0	200626.0	0.955509	Y
2	STD04AP 500-656646/15	2.0	1.923287	50.0	210915.0	0.961643	Y
3	STD05AP 500-656646/16	5.0	4.649607	50.0	206254.0	0.929921	Y
4	STD06AP 500-656646/17	20.0	20.404007	50.0	202546.0	1.0202	Y
5	STD07AP 500-656646/18	50.0	53.453997	50.0	193761.0	1.06908	Y
6	STD08AP 500-656646/19	100.0	121.52185	50.0	187075.0	1.215218	Y
7	STD09AP 500-656646/20	150.0	204.620506	50.0	205313.0	1.364137	Y
8	STD10AP 500-656646/21	200.0	278.639912	50.0	201090.0	1.3932	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-663160/2	std010628.D
Level 2	STD02 500-663160/3	std020628.D
Level 3	STD03 500-663160/4	std030628.D
Level 4	STD04 500-663160/5	std040628.D
Level 5	STD05 500-663160/6	std050628.D
Level 6	STD06 500-663160/7	std060628.D
Level 7	STD07 500-663160/8	std070628.D
Level 8	STD08 500-663160/9	std080628.D
Level 9	STD09 500-663160/10	std090628.D
Level 10	STD010 500-663160/11	std0100628.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2923	0.3591	0.3328 0.3318	0.3681 0.3145	0.3205 0.3108	Ave		0.328 7		0.0100	7.6		15.0				
Chloromethane	0.2010	0.2389	0.2476 0.2297	0.2299 0.2056	0.2478 0.2036	Ave		0.225 5		0.1000	8.7		15.0				
Vinyl chloride	++++ 0.2229	++++ 0.2892	0.3105 0.2813	0.2545 0.2348	0.2621 0.2463	Ave		0.262 7		0.0100	11.2		15.0				
Butadiene	0.2113	0.2449	0.1761 0.2355	0.2637 0.2118	0.2208 0.2085	Ave		0.221 6		0.0100	12.0		15.0				
Bromomethane	0.3409	0.3821	++++ 0.3561	0.4563 0.3083	0.4049 0.2929	Lin1	0.419 1	0.315 7		0.0100				0.9900		0.9900	
Chloroethane	0.2413	0.3065	0.3438 0.3006	0.3167 ++++	0.3137 ++++	Ave		0.303 7		0.0100	11.2		15.0				
Dichlorofluoromethane	0.5425	0.6052	0.7121 0.5629	0.6399 0.5076	0.5649 0.4795	Ave		0.576 8		0.0100	12.9		15.0				
Trichlorofluoromethane	0.5508	0.6504	0.7810 0.6093	0.6760 0.5467	0.5898 0.5269	Ave		0.616 4		0.0100	13.7		15.0				
Ethyl ether	0.1781	0.1871	0.2217 0.1592	0.1713 0.1553	0.1829 0.1463	Ave		0.175 2		0.0100	13.4		15.0				
Acrolein	0.0193	0.0205	0.0163 0.0189	0.0180 0.0194	0.0182 0.0181	Ave		0.018 6		0.0010	6.7		15.0				
1,1-Dichloroethene	0.2893	0.3144	0.3683 0.2903	0.2859 0.2734	0.3018 0.2602	Ave		0.297 9		0.0100	11.0		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3532	0.3848	0.4317 0.3431	0.3787 0.3280	0.3721 0.3080	Ave		0.362 4		0.0100	10.6		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Acetone	0.0415	0.0434	++++ 0.0432	++++ 0.0452	0.0720 0.0434	Lin1	0.108 5	0.042 8		0.0100				0.9980		0.9900	
Iodomethane	0.5480	0.5965	0.6538 0.5387	0.5749 0.5142	0.5655 0.4881	Ave		0.560 0		0.0100	9.1		15.0				
Carbon disulfide	0.9605	1.0373	1.1351 0.9409	1.0408 0.8832	0.9850 0.8307	Ave		0.976 7		0.0100	9.8		15.0				
3-Chloropropene	0.1660	0.1845	0.1809 0.1713	0.1829 0.1605	0.1600 0.1582	Ave		0.170 5		0.0100	6.4		15.0				
Methyl acetate	0.1006	0.1102	0.1288 0.0994	0.1171 0.0964	0.0964 0.0911	Ave		0.105 0		0.0100	12.1		15.0				
Methylene Chloride	0.3148	0.3235	++++ 0.2902	++++ 0.2816	0.3334 0.2669	Ave		0.301 7		0.0100	8.6		15.0				
tert-Butyl alcohol	1.0104	1.1587	1.1586 1.0464	1.1271 1.0332	1.0697 1.0149	Ave		1.077 4		0.0100	5.8		15.0				
Acrylonitrile	0.0551	0.0606	0.0645 0.0543	0.0583 0.0525	0.0551 0.0493	Ave		0.056 2		0.0010	8.5		15.0				
trans-1,2-Dichloroethene	0.3135	0.3519	0.3689 0.3300	0.3395 0.3143	0.3229 0.2990	Ave		0.330 0		0.0100	6.9		15.0				
Methyl tert-butyl ether	0.6877	0.7932	0.7718 0.7337	0.7181 0.7201	0.6669 0.6849	Ave		0.722 1		0.0100	6.0		15.0				
Hexane	0.3386	0.3774	0.5605 0.3498	0.4038 0.3301	0.3512 0.3181	Lin1	0.209 2	0.331 8		0.0100				0.9970		0.9900	
1,1-Dichloroethane	0.4775	0.5130	0.5761 0.4701	0.4975 0.4503	0.4757 0.4314	Ave		0.486 4		0.1000	9.1		15.0				
Vinyl acetate	0.2796	0.3404	0.3462 0.3361	0.2676 0.3230	0.2777 0.3140	Ave		0.310 6		0.0100	10.1		15.0				
cis-1,2-Dichloroethene	0.3122	0.3352	0.3642 0.3062	0.3394 0.2977	0.3319 0.2910	Ave		0.322 2		0.0100	7.7		15.0				
2,2-Dichloropropane	0.3742	0.4245	0.4869 0.3947	0.4133 0.4006	0.3938 0.3693	Ave		0.407 1		0.0100	9.1		15.0				
2-Butanone (MEK)	0.0519	0.0573	++++ 0.0546	++++ 0.0579	0.0429 0.0549	Ave		0.053 2		0.0100	10.4		15.0				
Bromochloromethane	0.1468	0.1587	0.1729 0.1439	0.1406 0.1385	0.1572 0.1356	Ave		0.149 3		0.0100	8.5		15.0				
Tetrahydrofuran	0.0381	0.0425	++++ 0.0370	++++ 0.0363	0.0461 0.0347	Ave		0.039 1		0.0100	11.0		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Chloroform	0.5521	0.5753	++++ 0.5258	0.7193 0.5083	0.5817 0.4867	Ave	0.564 2			0.0100	13.6		15.0				
1,1,1-Trichloroethane	0.4876	0.5345	0.5606 0.4963	0.5279 0.4811	0.5082 0.4611	Ave	0.507 2			0.0100	6.4		15.0				
Cyclohexane	0.3862	0.4264	0.4316 0.3924	0.3484 0.3695	0.3613 0.3555	Ave	0.383 9			0.0100	8.2		15.0				
1,1-Dichloropropene	0.3739	0.4074	0.3981 0.3784	0.3878 0.3649	0.3705 0.3552	Ave	0.379 5			0.0100	4.6		15.0				
Carbon tetrachloride	0.4653	0.5201	0.5305 0.4779	0.4750 0.4619	0.4739 0.4477	Ave	0.481 5			0.0100	6.0		15.0				
Isobutyl alcohol	0.3467	0.3944	0.4314 0.3569	0.3797 0.3475	0.3445 0.3389	Ave	0.367 5			0.0010	8.8		15.0				
Benzene	1.0417 0.9620	1.0883 1.0725	1.0676 0.9758	0.9815 0.9481	0.9586 0.9258	Ave	1.002 2			0.0100	5.9		15.0				
1,2-Dichloroethane	0.3169	0.3584	0.3684 0.3253	0.3034 0.3177	0.3281 0.3065	Ave	0.328 1			0.0100	7.2		15.0				
Heptane	0.2539	0.2965	0.3019 0.2614	0.2612 0.2498	0.2458 0.2448	Ave	0.264 4			0.0100	8.5		15.0				
Trichloroethene	++++ 0.2833	0.3099 0.3136	0.3461 0.2778	0.3165 0.2665	0.3146 0.2613	Ave	0.298 9			0.0100	9.4		15.0				
Methylcyclohexane	0.4499	0.5093	0.5342 0.4761	0.4469 0.4592	0.4571 0.4500	Ave	0.472 8			0.0100	6.8		15.0				
1,2-Dichloropropane	0.2135	0.2279	0.2015 0.2051	0.2309 0.1942	0.2208 0.1942	Ave	0.211 0			0.0100	6.9		15.0				
Dibromomethane	0.1527	0.1683	0.1656 0.1486	0.1872 0.1446	0.1647 0.1387	Ave	0.158 8			0.0100	9.9		15.0				
1,4-Dioxane	1.2744	1.1256	++++ 1.1020	++++ 1.1532	1.2705 1.1755	Ave	1.183 5			0.0010	6.2		15.0				
Bromodichloromethane	0.3557	0.3934	0.4244 0.3494	0.3920 0.3436	0.3677 0.3352	Ave	0.370 2			0.0100	8.3		15.0				
2-Chloroethyl vinyl ether	0.1031	0.1329	0.1073 0.1289	0.1021 0.1271	0.1044 0.1212	Ave	0.115 9			0.0100	11.2		15.0				
cis-1,3-Dichloropropene	0.4724	0.5543	0.4686 0.5200	0.4635 0.5096	0.4672 0.5020	Ave	0.494 7			0.0100	6.6		15.0				
4-Methyl-2-pentanone (MIBK)	0.1595	0.1964	++++ 0.1810	++++ 0.1896	0.1485 0.1855	Ave	0.176 7			0.0100	10.5		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Toluene	0.8890 0.8110	0.6927 0.9385	0.8620 0.8819	0.8538 0.8532	0.7997 0.8359	Ave	0.841 8			0.0100	7.8		15.0				
trans-1,3-Dichloropropene	0.4169	0.4940	0.4244 0.4598	0.4314 0.4542	0.4159 0.4384	Ave	0.441 9			0.0100	6.0		15.0				
Ethyl methacrylate	0.2858	0.3403	0.3096 0.3109	0.2708 0.3069	0.2643 0.2970	Ave	0.298 2			0.0100	8.2		15.0				
1,1,2-Trichloroethane	0.2391	0.2749	0.3199 0.2483	0.2675 0.2489	0.2504 0.2380	Ave	0.260 9			0.0100	10.4		15.0				
Tetrachloroethene	0.3801	0.4261	0.3821 0.3898	0.3884 0.3728	0.4035 0.3588	Ave	0.387 7			0.0100	5.2		15.0				
1,3-Dichloropropane	0.4064	0.4572	0.4653 0.4120	0.4706 0.4065	0.4035 0.3895	Ave	0.426 4			0.0100	7.6		15.0				
2-Hexanone	0.1147	0.1361	++++ 0.1222	++++ 0.1235	0.1191 0.1215	Ave	0.122 9			0.0100	5.8		15.0				
Dibromochloromethane	0.3569	0.4085	0.3960 0.3709	0.3630 0.3681	0.3563 0.3546	Ave	0.371 8			0.0100	5.4		15.0				
1,2-Dibromoethane	0.2568	0.2904	0.2859 0.2686	0.2721 0.2636	0.2578 0.2544	Ave	0.268 7			0.0100	5.0		15.0				
Chlorobenzene	0.9630	1.0740	1.1222 0.9879	0.9811 0.9609	0.9770 0.9460	Ave	1.001 5			0.3000	6.2		15.0				
1,1,1,2-Tetrachloroethane	0.3852	0.4265	0.4178 0.3947	0.3853 0.3800	0.3807 0.3750	Ave	0.393 2			0.0100	4.8		15.0				
Ethylbenzene	1.6335 1.5644	1.4938 1.8394	1.6852 1.7105	1.5235 1.6522	1.5157 1.5997	Ave	1.621 8			0.0100	6.5		15.0				
m&p-Xylene	1.0895 1.2201	1.0443 1.4567	1.2235 1.3811	1.1633 1.3273	1.1282 1.3004	Ave	1.233 4			0.0100	10.7		15.0				
o-Xylene	1.1953 1.2833	1.0771 1.5425	1.3055 1.4864	1.2046 1.4372	1.2169 1.4226	Ave	1.317 1			0.0100	11.4		15.0				
Styrene	1.0232	1.2320	0.8337 1.1875	0.9265 1.1473	0.9072 1.1218	Ave	1.047 4			0.0100	14.0		15.0				
Bromoform	0.2363	0.2620	0.2076 0.2534	0.2178 0.2459	0.2232 0.2397	Ave	0.235 7			0.1000	7.8		15.0				
Isopropylbenzene	2.7736	3.0441	2.9213 2.8170	2.6102 2.8876	2.6450 2.8067	Ave	2.813 2			0.0100	5.1		15.0				
Bromobenzene	0.6849	0.7113	0.7185 0.6324	0.7643 0.6606	0.6696 0.6609	Ave	0.687 8			0.0100	6.1		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,2,2-Tetrachloroethane	0.5920	0.6018	0.7339 0.5368	0.6359 0.5492	0.6266 0.5291	Ave	0.600 7			0.3000	11.2		15.0				
1,2,3-Trichloropropane	0.1787	0.1821	++++ 0.1644	0.1780 0.1648	0.1792 0.1602	Ave	0.172 5			0.0100	5.2		15.0				
trans-1,4-Dichloro-2-butene	0.1314	0.1468	++++ 0.1301	0.1564 0.1318	0.1340 0.1273	Ave	0.136 8			0.0100	7.8		15.0				
N-Propylbenzene	3.3588	3.7407	3.4180 3.4041	3.1677 3.3871	3.2613 3.2670	Ave	3.375 6			0.0100	5.1		15.0				
2-Chlorotoluene	1.9090	2.1191	2.1082 1.9526	1.9322 1.9610	1.8894 1.8986	Ave	1.971 3			0.0100	4.6		15.0				
1,3,5-Trimethylbenzene	2.4650	2.7830	2.3873 2.5937	2.2783 2.5883	2.2788 2.5514	Ave	2.490 7			0.0100	7.0		15.0				
4-Chlorotoluene	2.3522	2.6328	2.5142 2.4115	2.2170 2.3776	2.2359 2.3341	Ave	2.384 4			0.0100	5.8		15.0				
tert-Butylbenzene	2.1169	2.4067	2.1909 2.2444	2.0006 2.2745	2.0015 2.2043	Ave	2.180 0			0.0100	6.3		15.0				
1,2,4-Trimethylbenzene	2.5343	2.9136	2.4396 2.6961	2.2401 2.6532	2.3470 2.6131	Ave	2.554 6			0.0100	8.3		15.0				
sec-Butylbenzene	3.3388	3.7646	3.3927 3.5322	3.1534 3.4820	3.1646 3.3668	Ave	3.399 4			0.0100	5.9		15.0				
1,3-Dichlorobenzene	1.3999	1.5199	1.6443 1.3825	1.5448 1.3922	1.4156 1.3609	Ave	1.457 5			0.0100	6.9		15.0				
p-Isopropyltoluene	2.8909	3.2935	2.6853 3.0678	2.5906 2.9910	2.6959 2.9250	Ave	2.892 5			0.0100	8.0		15.0				
1,4-Dichlorobenzene	1.4196	1.5986	1.7506 1.4380	1.5805 1.4061	1.5078 1.3881	Ave	1.511 2			0.0100	8.3		15.0				
n-Butylbenzene	2.6394	3.0549	2.6253 2.8516	2.4955 2.7724	2.5765 2.7368	Ave	2.719 1			0.0100	6.5		15.0				
1,2-Dichlorobenzene	1.3333	1.4943	1.5464 1.3540	1.3942 1.3339	1.3426 1.3597	Ave	1.394 8			0.0100	5.8		15.0				
1,2-Dibromo-3-Chloropropane	0.1055	0.1197	0.1338 0.1099	0.1113 0.1123	0.1084 0.1078	Ave	0.113 6			0.0100	8.1		15.0				
1,2,4-Trichlorobenzene	0.8457	0.9022	1.0331 0.8053	0.8879 0.7898	0.8317 0.8023	Ave	0.862 2			0.0100	9.3		15.0				
Hexachlorobutadiene	0.5196	0.5328	0.6763 0.4799	0.5763 0.4686	0.5651 0.4658	Ave	0.535 5			0.0100	13.2		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Naphthalene	1.4675	1.6317	1.6429 1.5245	1.4715 1.5595	1.3919 1.5463	Ave	1.529 5			0.0100	5.6		15.0				
1,2,3-Trichlorobenzene	0.7538	0.7734	0.8867 0.7051	0.7764 0.7071	0.7453 0.7173	Ave	0.758 1			0.0100	7.8		15.0				
Dibromofluoromethane	0.3071	0.3019	0.2903	0.3187 0.2865	0.3119 0.2780	Ave	0.299 2			0.0100	4.9		15.0				
1,2-Dichloroethane-d4 (Surr)	0.2818	0.2842	0.2741	0.2950 0.2684	0.2823 0.2595	Ave	0.277 9			0.0100	4.2		15.0				
Toluene-d8 (Surr)	1.2483	1.3305	1.2799	1.2096 1.2478	1.2273 1.2349	Ave	1.254 0			0.0100	3.2		15.0				
4-Bromofluorobenzene (Surr)	0.7605	0.7738	0.7410	0.7723 0.7700	0.7798 0.7560	Ave	0.764 8			0.0100	1.7		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-663160/2	std010628.D
Level 2	STD02 500-663160/3	std020628.D
Level 3	STD03 500-663160/4	std030628.D
Level 4	STD04 500-663160/5	std040628.D
Level 5	STD05 500-663160/6	std050628.D
Level 6	STD06 500-663160/7	std060628.D
Level 7	STD07 500-663160/8	std070628.D
Level 8	STD08 500-663160/9	std080628.D
Level 9	STD09 500-663160/10	std090628.D
Level 10	STD010 500-663160/11	std0100628.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	76533	249688	3985 511035	9079 785385	19933 1112426	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloromethane	FB	Ave	52624	166139	2965 353758	5669 513386	15409 728799	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl chloride	FB	Ave	++++ 58376	++++ 201067	3718 433185	6276 586211	16304 881500	++++ 20.0	++++ 50.0	1.00 100	2.00 150	5.00 200
Butadiene	FB	Ave	55336	170275	2109 362682	6505 528784	13734 746356	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromomethane	FB	Lin1	89273	265690	++++ 548498	11255 769997	25185 1048410	20.0	50.0	++++ 100	2.00 150	5.00 200
Chloroethane	FB	Ave	63189	213111	4116 462937	7810 ++++	19509 ++++	20.0	50.0	1.00 100	2.00 ++++	5.00 ++++
Dichlorofluoromethane	FB	Ave	142041	420822	8526 866885	15782 1267575	35136 1716093	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichlorofluoromethane	FB	Ave	144222	452210	9351 938346	16673 1365101	36685 1885916	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl ether	FB	Ave	46622	130090	2654 245244	4226 387685	11377 523628	20.0	50.0	1.00 100	2.00 150	5.00 200
Acrolein	FB	Ave	202414	570931	7806 1163350	17799 1935011	45159 2591553	800	2000	40.0 4000	80.0 6000	200 8000
1,1-Dichloroethene	FB	Ave	75754	218579	4410 447074	7051 682653	18772 931122	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave			5169	9340	23144			1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
			92479	267525	528380	818961	1102179	20.0	50.0	100	150	200
Acetone	FB	Lin1	10857	30149	66594	112902	155366	20.0	50.0	100	150	200
Iodomethane	FB	Ave	143493	414772	829677	1284111	1747065	20.0	50.0	100	150	200
Carbon disulfide	FB	Ave	251502	721218	1449144	2205598	2972981	20.0	50.0	100	150	200
3-Chloropropene	FB	Ave	43461	128305	263786	400709	566313	20.0	50.0	100	150	200
Methyl acetate	FB	Ave	52708	153199	306212	481493	651811	40.0	100	200	300	400
Methylene Chloride	FB	Ave	82433	224919	446902	703214	955324	20.0	50.0	100	150	200
tert-Butyl alcohol	TBAd 9	Ave	48682	137906	272944	466483	619574	200	500	1000	1500	2000
Acrylonitrile	FB	Ave	144284	421055	836322	1311509	1763290	200	500	1000	1500	2000
trans-1,2-Dichloroethene	FB	Ave	82095	244693	508282	784982	1070192	20.0	50.0	100	150	200
Methyl tert-butyl ether	FB	Ave	180079	551535	1129996	1798252	2451223	20.0	50.0	100	150	200
Hexane	FB	Lin1	88647	262418	538790	824420	1138382	20.0	50.0	100	150	200
1,1-Dichloroethane	FB	Ave	125019	356684	723967	1124527	1544076	20.0	50.0	100	150	200
Vinyl acetate	FB	Ave	73210	236672	517650	806659	1123938	20.0	50.0	100	150	200
cis-1,2-Dichloroethene	FB	Ave	81750	233093	471605	743411	1041527	20.0	50.0	100	150	200
2,2-Dichloropropane	FB	Ave	97983	295130	607827	1000253	1321734	20.0	50.0	100	150	200
2-Butanone (MEK)	FB	Ave	13585	39864	84057	144474	196574	20.0	50.0	100	150	200
Bromochloromethane	FB	Ave	38446	110369	221664	345772	485315	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Tetrahydrofuran	FB	Ave	19964	59033	113840	181077	248513	40.0	100	200	300	400
Chloroform	FB	Ave	144559	400028	809879	1269203	1741954	20.0	50.0	100	150	200
1,1,1-Trichloroethane	FB	Ave	127665	371655	764410	1201324	1650224	20.0	50.0	100	150	200
Cyclohexane	FB	Ave	101115	296454	604320	922606	1272159	20.0	50.0	100	150	200
1,1-Dichloropropene	FB	Ave	97910	283279	582807	911200	1271422	20.0	50.0	100	150	200
Carbon tetrachloride	FB	Ave	121842	361639	736017	1153399	1602346	20.0	50.0	100	150	200
Isobutyl alcohol	TBAd 9	Ave	41766	117350	232720	392274	517320	500	1250	2500	3750	5000
Benzene	FB	Ave	2893	6205	12783	24207	59623	0.250	0.500	1.00	2.00	5.00
			251899	745703	1502821	2367527	3313491	20.0	50.0	100	150	200
1,2-Dichloroethane	FB	Ave	82978	249175	501019	793301	1097110	20.0	50.0	100	150	200
Heptane	FB	Ave	66494	206184	402611	623807	876302	20.0	50.0	100	150	200
Trichloroethene	FB	Ave	74174	218066	427929	665540	935334	20.0	50.0	100	150	200
Methylcyclohexane	FB	Ave	117797	354107	733218	1146746	1610694	20.0	50.0	100	150	200
1,2-Dichloropropane	FB	Ave	55896	158491	315830	485027	694948	20.0	50.0	100	150	200
Dibromomethane	FB	Ave	39987	117014	228941	360992	496328	20.0	50.0	100	150	200
1,4-Dioxane	DXE	Ave	9313	22789	45190	82368	109330	400	1000	2000	3000	4000
Bromodichloromethane	FB	Ave	93129	273556	538085	858065	1199550	20.0	50.0	100	150	200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	19119	64284	133083	214494	295074	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
cis-1,3-Dichloropropene	CBNZ d5	Ave			4179	8341	21154			1.00	2.00	5.00
			87607	268058	536726	860044	1222589	20.0	50.0	100	150	200
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave			+++++	+++++	6725			+++++	+++++	5.00
			29581	94986	186820	319954	451649	20.0	50.0	100	150	200
Toluene	CBNZ d5	Ave	1840	2957	7687	15365	36205	0.250	0.500	1.00	2.00	5.00
			150420	453899	910249	1440126	2035498	20.0	50.0	100	150	200
trans-1,3-Dichloropropene	CBNZ d5	Ave			3785	7764	18830			1.00	2.00	5.00
			77321	238898	474582	766650	1067690	20.0	50.0	100	150	200
Ethyl methacrylate	CBNZ d5	Ave			2761	4874	11964			1.00	2.00	5.00
			53008	164559	320891	517917	723305	20.0	50.0	100	150	200
1,1,2-Trichloroethane	CBNZ d5	Ave			2853	4814	11336			1.00	2.00	5.00
			44342	132930	256279	420041	579530	20.0	50.0	100	150	200
Tetrachloroethene	CBNZ d5	Ave			3407	6989	18270			1.00	2.00	5.00
			70489	206057	402387	629242	873770	20.0	50.0	100	150	200
1,3-Dichloropropane	CBNZ d5	Ave			4149	8468	18266			1.00	2.00	5.00
			75379	221122	425288	686050	948427	20.0	50.0	100	150	200
2-Hexanone	CBNZ d5	Ave			+++++	+++++	5394			+++++	+++++	5.00
			21277	65803	126172	208492	295934	20.0	50.0	100	150	200
Dibromochloromethane	CBNZ d5	Ave			3531	6533	16132			1.00	2.00	5.00
			66188	197568	382855	621318	863580	20.0	50.0	100	150	200
1,2-Dibromoethane	CBNZ d5	Ave			2550	4896	11671			1.00	2.00	5.00
			47622	140431	277201	444932	619565	20.0	50.0	100	150	200
Chlorobenzene	CBNZ d5	Ave			10007	17656	44235			1.00	2.00	5.00
			178606	519441	1019654	1621800	2303635	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave			3726	6934	17235			1.00	2.00	5.00
			71443	206293	407370	641304	913265	20.0	50.0	100	150	200
Ethylbenzene	CBNZ d5	Ave	3381	6377	15028	27416	68623	0.250	0.500	1.00	2.00	5.00
			290148	889582	1765496	2788664	3895694	20.0	50.0	100	150	200
m&p-Xylene	CBNZ d5	Ave	2255	4458	10911	20934	51078	0.250	0.500	1.00	2.00	5.00
			226296	704529	1425561	2240225	3166733	20.0	50.0	100	150	200
o-Xylene	CBNZ d5	Ave	2474	4598	11642	21678	55094	0.250	0.500	1.00	2.00	5.00
			238016	746015	1534175	2425802	3464234	20.0	50.0	100	150	200
Styrene	CBNZ d5	Ave			7435	16672	41073			1.00	2.00	5.00
			189765	595853	1225674	1936514	2731813	20.0	50.0	100	150	200
Bromoform	CBNZ d5	Ave			1851	3919	10107			1.00	2.00	5.00
			43824	126707	261575	414977	583716	20.0	50.0	100	150	200
Isopropylbenzene	DCBd 4	Ave			14410	26797	68735			1.00	2.00	5.00
			311401	959690	1993934	3176627	4466113	20.0	50.0	100	150	200
Bromobenzene	DCBd 4	Ave			3544	7846	17401			1.00	2.00	5.00
			76890	224243	447591	726679	1051623	20.0	50.0	100	150	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave			3620	6528	16282			1.00	2.00	5.00
			66469	189735	379963	604166	841894	20.0	50.0	100	150	200
1,2,3-Trichloropropane	DCBd 4	Ave			++++	1827	4656			++++	2.00	5.00
			20064	57418	116340	181246	254950	20.0	50.0	100	150	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave			++++	1606	3483			++++	2.00	5.00
			14755	46265	92058	144990	202540	20.0	50.0	100	150	200
N-Propylbenzene	DCBd 4	Ave			16860	32520	84749			1.00	2.00	5.00
			377098	1179310	2409498	3726054	5198555	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Chlorotoluene	DCBd 4	Ave			10399	19836	49098			1.00	2.00	5.00
			214322	668075	1382107	2157263	3021139	20.0	50.0	100	150	200
1,3,5-Trimethylbenzene	DCBd 4	Ave			11776	23389	59218			1.00	2.00	5.00
			276753	877380	1835834	2847364	4059792	20.0	50.0	100	150	200
4-Chlorotoluene	DCBd 4	Ave			12402	22760	58104			1.00	2.00	5.00
			264087	830025	1706877	2615603	3714100	20.0	50.0	100	150	200
tert-Butylbenzene	DCBd 4	Ave			10807	20538	52011			1.00	2.00	5.00
			237672	758747	1588594	2502132	3507452	20.0	50.0	100	150	200
1,2,4-Trimethylbenzene	DCBd 4	Ave			12034	22997	60990			1.00	2.00	5.00
			284530	918541	1908338	2918771	4157929	20.0	50.0	100	150	200
sec-Butylbenzene	DCBd 4	Ave			16735	32373	82238			1.00	2.00	5.00
			374857	1186854	2500106	3830510	5357361	20.0	50.0	100	150	200
1,3-Dichlorobenzene	DCBd 4	Ave			8111	15859	36786			1.00	2.00	5.00
			157174	479177	978515	1531503	2165503	20.0	50.0	100	150	200
p-Isopropyltoluene	DCBd 4	Ave			13246	26596	70056			1.00	2.00	5.00
			324569	1038332	2171399	3290413	4654277	20.0	50.0	100	150	200
1,4-Dichlorobenzene	DCBd 4	Ave			8635	16226	39182			1.00	2.00	5.00
			159376	503981	1017864	1546795	2208813	20.0	50.0	100	150	200
n-Butylbenzene	DCBd 4	Ave			12950	25619	66955			1.00	2.00	5.00
			296329	963087	2018397	3049926	4354805	20.0	50.0	100	150	200
1,2-Dichlorobenzene	DCBd 4	Ave			7628	14313	34890			1.00	2.00	5.00
			149688	471106	958391	1467400	2163572	20.0	50.0	100	150	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave			660	1143	2817			1.00	2.00	5.00
			11844	37726	77804	123572	171603	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2,4-Trichlorobenzene	DCBd 4	Ave			5096	9115	21612			1.00	2.00	5.00
			94943	284421	570010	868883	1276677	20.0	50.0	100	150	200
Hexachlorobutadiene	DCBd 4	Ave			3336	5916	14685			1.00	2.00	5.00
			58332	167958	339689	515535	741231	20.0	50.0	100	150	200
Naphthalene	DCBd 4	Ave			8104	15107	36172			1.00	2.00	5.00
			164763	514423	1079058	1715618	2460534	20.0	50.0	100	150	200
1,2,3-Trichlorobenzene	DCBd 4	Ave			4374	7971	19369			1.00	2.00	5.00
			84631	243810	499060	777912	1141329	20.0	50.0	100	150	200
Dibromofluoromethane	FB	Ave			39297	77589				10.0	20.0	
			120627	167932	223575	286156	373162	30.0	40.0	50.0	60.0	75.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave			36380	70239				10.0	20.0	
			110700	158079	211099	268091	348250	30.0	40.0	50.0	60.0	75.0
Toluene-d8 (Surr)	CBNZ d5	Ave			108837	222251				10.0	20.0	
			347269	514798	660537	842442	1127690	30.0	40.0	50.0	60.0	75.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave			39642	81060				10.0	20.0	
			128066	195167	262237	338823	451130	30.0	40.0	50.0	60.0	75.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-663160/2	std010628.D
Level 2	STD02 500-663160/3	std020628.D
Level 3	STD03 500-663160/4	std030628.D
Level 4	STD04 500-663160/5	std040628.D
Level 5	STD05 500-663160/6	std050628.D
Level 6	STD06 500-663160/7	std060628.D
Level 7	STD07 500-663160/8	std070628.D
Level 8	STD08 500-663160/9	std080628.D
Level 9	STD09 500-663160/10	std090628.D
Level 10	STD010 500-663160/11	std0100628.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	9.2	0.9	1.2 -4.3	12.0 -5.5	-2.5	-11.1	30	30	50 30	30 30	30	30
Chloromethane	6.0	1.9	9.8 -8.8	1.9 -9.7	9.9	-10.9	30	30	50 30	30 30	30	30
Vinyl chloride	++++ 10.1	++++ 7.1	18.2 -10.6	-3.1 -6.2	-0.2	-15.1	30	30	50 30	30 30	30	30
Butadiene	10.5	6.3	-20.5 -4.4	19.0 -5.9	-0.3	-4.6	30	30	50 30	30 30	30	30
Bromomethane	18.4	11.5	++++ -3.2	-21.8 -7.9	1.7	1.4	30	30	30	50 30	30	30
Chloroethane	0.9	-1.0	13.2 ++++	4.3 ++++	3.3	-20.6	30	30	50	30	30	30
Dichlorofluoromethane	4.9	-2.4	23.4 -12.0	10.9 -16.9	-2.1	-6.0	30	30	50 30	30 30	30	30
Trichlorofluoromethane	5.5	-1.2	26.7 -11.3	9.7 -14.5	-4.3	-10.6	30	30	50 30	30 30	30	30
Ethyl ether	6.8	-9.1	26.5 -11.4	-2.2 -16.5	4.4	1.6	30	30	50 30	30 30	30	30
Acrolein	10.4	1.6	-12.3 4.2	-2.9 -2.6	-2.3	4.0	30	30	50 30	30 30	30	30
1,1-Dichloroethene	5.5	-2.6	23.6 -8.2	-4.0 -12.7	1.3	-2.9	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	-5.3	19.1 -9.5	4.5 -15.0	2.7	-2.6	30	30	50 30	30 30	30	30
Acetone	-3.9	-1.6	++++ 3.8	++++ 0.1	17.5	-15.9	30	30	30	30	50	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Iodomethane	6.5	-3.8	16.8 -8.2	2.7 -12.8	1.0	-2.1	30	30	50 30	30 30	30	30
Carbon disulfide	6.2	-3.7	16.2 -9.6	6.6 -14.9	0.9	-1.7	30	30	50 30	30 30	30	30
3-Chloropropene	8.2	0.4	6.1 -5.9	7.2 -7.2	-6.2	-2.7	30	30	50 30	30 30	30	30
Methyl acetate	4.9	-5.3	22.6 -8.2	11.5 -13.3	-8.2	-4.1	30	30	50 30	30 30	30	30
Methylene Chloride	7.2	-3.8	++++ -6.7	++++ -11.5	10.5	4.3	30	30	30	30	50	30
tert-Butyl alcohol	7.5	-2.9	7.5 -4.1	4.6 -5.8	-0.7	-6.2	30	30	50 30	30 30	30	30
Acrylonitrile	7.7	-3.4	14.8 -6.6	3.7 -12.3	-2.0	-2.0	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	6.6	0.0	11.8 -4.7	2.9 -9.4	-2.2	-5.0	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	9.9	1.6	6.9 -0.3	-0.5 -5.1	-7.6	-4.8	30	30	50 30	30 30	30	30
Hexane	12.5	4.8	5.9 -0.9	-9.8 -4.5	-6.8	-1.1	30	30	50 30	30 30	30	30
1,1-Dichloroethane	5.5	-3.4	18.4 -7.4	2.3 -11.3	-2.2	-1.8	30	30	50 30	30 30	30	30
Vinyl acetate	9.6	8.2	11.5 4.0	-13.8 1.1	-10.6	-10.0	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	4.0	-5.0	13.0 -7.6	5.3 -9.7	3.0	-3.1	30	30	50 30	30 30	30	30
2,2-Dichloropropane	4.3	-3.1	19.6 -1.6	1.5 -9.3	-3.3	-8.1	30	30	50 30	30 30	30	30
2-Butanone (MEK)	7.7	2.5	++++ 8.7	++++ 3.2	-19.5	-2.5	30	30	30	30	50	30
Bromochloromethane	6.3	-3.6	15.8 -7.2	-5.8 -9.2	5.3	-1.6	30	30	50 30	30 30	30	30
Tetrahydrofuran	8.6	-5.5	++++ -7.3	++++ -11.2	17.8	-2.5	30	30	30	30	50	30
Chloroform	2.0	-6.8	++++ -9.9	27.5 -13.7	3.1	-2.1	30	30	30	30	50	30
1,1,1-Trichloroethane	5.4	-2.1	10.5 -5.1	4.1 -9.1	0.2	-3.9	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
Cyclohexane	11.1	2.2	12.4 -3.8	-9.2 -7.4	-5.9	0.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	7.3	-0.3	4.9 -3.9	2.2 -6.4	-2.4	-1.5	30	30	50 30	30 30	30	30
Carbon tetrachloride	8.0	-0.8	10.2 -4.1	-1.4 -7.0	-1.6	-3.4	30	30	50 30	30 30	30	30
Isobutyl alcohol	7.3	-2.9	17.4 -5.4	3.3 -7.8	-6.2	-5.7	30	30	50 30	30 30	30	30
Benzene	3.9 7.0	8.6 -2.6	6.5 -5.4	-2.1 -7.6	-4.3	-4.0	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	9.2	-0.8	12.3 -3.2	-7.5 -6.6	0.0	-3.4	30	30	50 30	30 30	30	30
Heptane	12.1	-1.1	14.2 -5.5	-1.2 -7.4	-7.0	-4.0	30	30	50 30	30 30	30	30
Trichloroethene	++++ 4.9	3.7 -7.0	15.8 -10.8	5.9 -12.6	5.3	-5.2	30	50 30	30 30	30 30	30	30
Methylcyclohexane	7.7	0.7	13.0 -2.9	-5.5 -4.8	-3.3	-4.9	30	30	50 30	30 30	30	30
1,2-Dichloropropane	8.0	-2.8	-4.5 -8.0	9.4 -8.0	4.7	1.2	30	30	50 30	30 30	30	30
Dibromomethane	6.0	-6.4	4.3 -9.0	17.9 -12.7	3.7	-3.8	30	30	50 30	30 30	30	30
1,4-Dioxane	-4.9	-6.9	++++ -2.6	++++ -0.7	7.3	7.7	30	30	30	30	50	30
Bromodichloromethane	6.3	-5.6	14.7 -7.2	5.9 -9.5	-0.7	-3.9	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	14.7	11.3	-7.4 9.7	-11.9 4.6	-9.9	-11.0	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	12.0	5.1	-5.3 3.0	-6.3 1.5	-5.6	-4.5	30	30	50 30	30 30	30	30
4-Methyl-2-pentanone (MIBK)	11.1	2.4	++++ 7.3	++++ 4.9	-16.0	-9.8	30	30	30	30	50	30
Toluene	5.6 11.5	-17.7 4.8	2.4 1.4	1.4 -0.7	-5.0	-3.7	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	11.8	4.1	-3.9 2.8	-2.4 -0.8	-5.9	-5.7	30	30	50 30	30 30	30	30
Ethyl methacrylate	14.1	4.3	3.8 2.9	-9.2 -0.4	-11.4	-4.2	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
1,1,2-Trichloroethane	5.4	-4.8	22.6 -4.6	2.5 -8.8	-4.0	-8.3	30	30	50 30	30 30	30	30
Tetrachloroethene	9.9	0.6	-1.5 -3.8	0.2 -7.5	4.1	-2.0	30	30	50 30	30 30	30	30
1,3-Dichloropropane	7.2	-3.4	9.1 -4.7	10.4 -8.7	-5.4	-4.7	30	30	50 30	30 30	30	30
2-Hexanone	10.7	-0.5	++++ 0.5	++++ -1.1	-3.0	-6.6	30	30	30	30	50	30
Dibromochloromethane	9.9	-0.2	6.5 -1.0	-2.4 -4.6	-4.2	-4.0	30	30	50 30	30 30	30	30
1,2-Dibromoethane	8.1	0.0	6.4 -1.9	1.3 -5.3	-4.1	-4.4	30	30	50 30	30 30	30	30
Chlorobenzene	7.2	-1.4	12.0 -4.1	-2.0 -5.5	-2.4	-3.8	30	30	50 30	30 30	30	30
1,1,1,2-Tetrachloroethane	8.5	0.4	6.3 -3.4	-2.0 -4.6	-3.2	-2.0	30	30	50 30	30 30	30	30
Ethylbenzene	0.7 13.4	-7.9 5.5	3.9 1.9	-6.1 -1.4	-6.5	-3.5	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	-11.7 18.1	-15.3 12.0	-0.8 7.6	-5.7 5.4	-8.5	-1.1	50 30	30 30	30 30	30 30	30	30
o-Xylene	-9.3 17.1	-18.2 12.8	-0.9 9.1	-8.5 8.0	-7.6	-2.6	50 30	30 30	30 30	30 30	30	30
Styrene	17.6	13.4	-20.4 9.5	-11.5 7.1	-13.4	-2.3	30	30	50 30	30 30	30	30
Bromoform	11.1	7.5	-11.9 4.3	-7.6 1.7	-5.3	0.2	30	30	50 30	30 30	30	30
Isopropylbenzene	8.2	0.1	3.8 2.6	-7.2 -0.2	-6.0	-1.4	30	30	50 30	30 30	30	30
Bromobenzene	3.4	-8.1	4.5 -4.0	11.1 -3.9	-2.6	-0.4	30	30	50 30	30 30	30	30
1,1,2,2-Tetrachloroethane	0.2	-10.6	22.2 -8.6	5.9 -11.9	4.3	-1.4	30	30	50 30	30 30	30	30
1,2,3-Trichloropropane	5.6	-4.7	++++ -4.5	3.2 -7.1	3.9	3.6	30	30	30	50 30	30	30
trans-1,4-Dichloro-2-butene	7.3	-4.9	++++ -3.7	14.3 -7.0	-2.0	-3.9	30	30	30	50 30	30	30
N-Propylbenzene	10.8	0.8	1.3 0.3	-6.2 -3.2	-3.4	-0.5	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
2-Chlorotoluene	7.5	-0.9	6.9 -0.5	-2.0 -3.7	-4.2	-3.2	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	11.7	4.1	-4.2 3.9	-8.5 2.4	-8.5	-1.0	30	30	50 30	30 30	30	30
4-Chlorotoluene	10.4	1.1	5.4 -0.3	-7.0 -2.1	-6.2	-1.4	30	30	50 30	30 30	30	30
tert-Butylbenzene	10.4	3.0	0.5 4.3	-8.2 1.1	-8.2	-2.9	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	14.1	5.5	-4.5 3.9	-12.3 2.3	-8.1	-0.8	30	30	50 30	30 30	30	30
sec-Butylbenzene	10.7	3.9	-0.2 2.4	-7.2 -1.0	-6.9	-1.8	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	4.3	-5.1	12.8 -4.5	6.0 -6.6	-2.9	-3.9	30	30	50 30	30 30	30	30
p-Isopropyltoluene	13.9	6.1	-7.2 3.4	-10.4 1.1	-6.8	-0.1	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	5.8	-4.8	15.8 -7.0	4.6 -8.1	-0.2	-6.1	30	30	50 30	30 30	30	30
n-Butylbenzene	12.4	4.9	-3.4 2.0	-8.2 0.7	-5.2	-2.9	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	7.1	-2.9	10.9 -4.4	0.0 -2.5	-3.7	-4.4	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	5.3	-3.2	17.8 -1.1	-2.0 -5.1	-4.6	-7.1	30	30	50 30	30 30	30	30
1,2,4-Trichlorobenzene	4.6	-6.6	19.8 -8.4	3.0 -6.9	-3.5	-1.9	30	30	50 30	30 30	30	30
Hexachlorobutadiene	-0.5	-10.4	26.3 -12.5	7.6 -13.0	5.5	-3.0	30	30	50 30	30 30	30	30
Naphthalene	6.7	-0.3	7.4 2.0	-3.8 1.1	-9.0	-4.1	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	2.0	-7.0	17.0 -6.7	2.4 -5.4	-1.7	-0.6	30	30	50 30	30 30	30	30
Dibromofluoromethane	0.9	-3.0	-4.3	6.5 -7.1	4.2	2.6	30	30	30	50 30	30	30
1,2-Dichloroethane-d4 (Surr)	2.3	-1.4	-3.4	6.2 -6.6	1.6	1.4	30	30	30	50 30	30	30
Toluene-d8 (Surr)	6.1	2.1	-0.5	-3.5 -1.5	-2.1	-0.5	30	30	30	50 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Chicago Job No.: 500-221506-1 Analy Batch No.: 663160

SDG No.: _____

Instrument ID: CMS29 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2022 08:45 Calibration End Date: 06/28/2022 12:17 Calibration ID: 45495

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #			LVL 7	LVL 8	LVL 9	LVL 10		
4-Bromofluorobenzene (Surr)	1.2	-3.1	0.7	1.0 -1.1	2.0	-0.6	30	30	30	50 30	30	30

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D
 Lims ID: STD01
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Jun-2022 08:45:32 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std01
 Misc. Info.: 500-0086672-002
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:39:48 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0 Date: 28-Jun-2022 09:47:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 23 TBA-d9 (IS)	65	3.473	3.482	-0.009	0	158191	1000.0	1000.0	
50 Benzene	78	5.491	5.494	-0.003	18	2893	0.2500	0.2599	M
* 55 Fluorobenzene (IS)	96	5.775	5.775	-0.001	99	555448	50.0	50.0	
* 62 1,4-Dioxane-d8	96	6.493	6.496	-0.003	0	13015	1000.0	1000.0	
72 Toluene	92	7.599	7.602	-0.003	1	1840	0.2500	0.2640	M
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	85	413956	50.0	50.0	
86 Ethylbenzene	91	9.478	9.487	-0.009	1	3381	0.2500	0.2518	M
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	14	2255	0.2500	0.2208	
88 o-Xylene	91	10.120	10.118	0.002	31	2474	0.2500	0.2269	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	233011	50.0	50.0	
S 124 Xylenes, Total	1				0			0.4477	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 LOWIS1_00166 Amount Added: 5.00 Units: uL
 LEVEL1 8260_00012 Amount Added: 2.50 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D

Injection Date: 28-Jun-2022 08:45:32

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD01

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

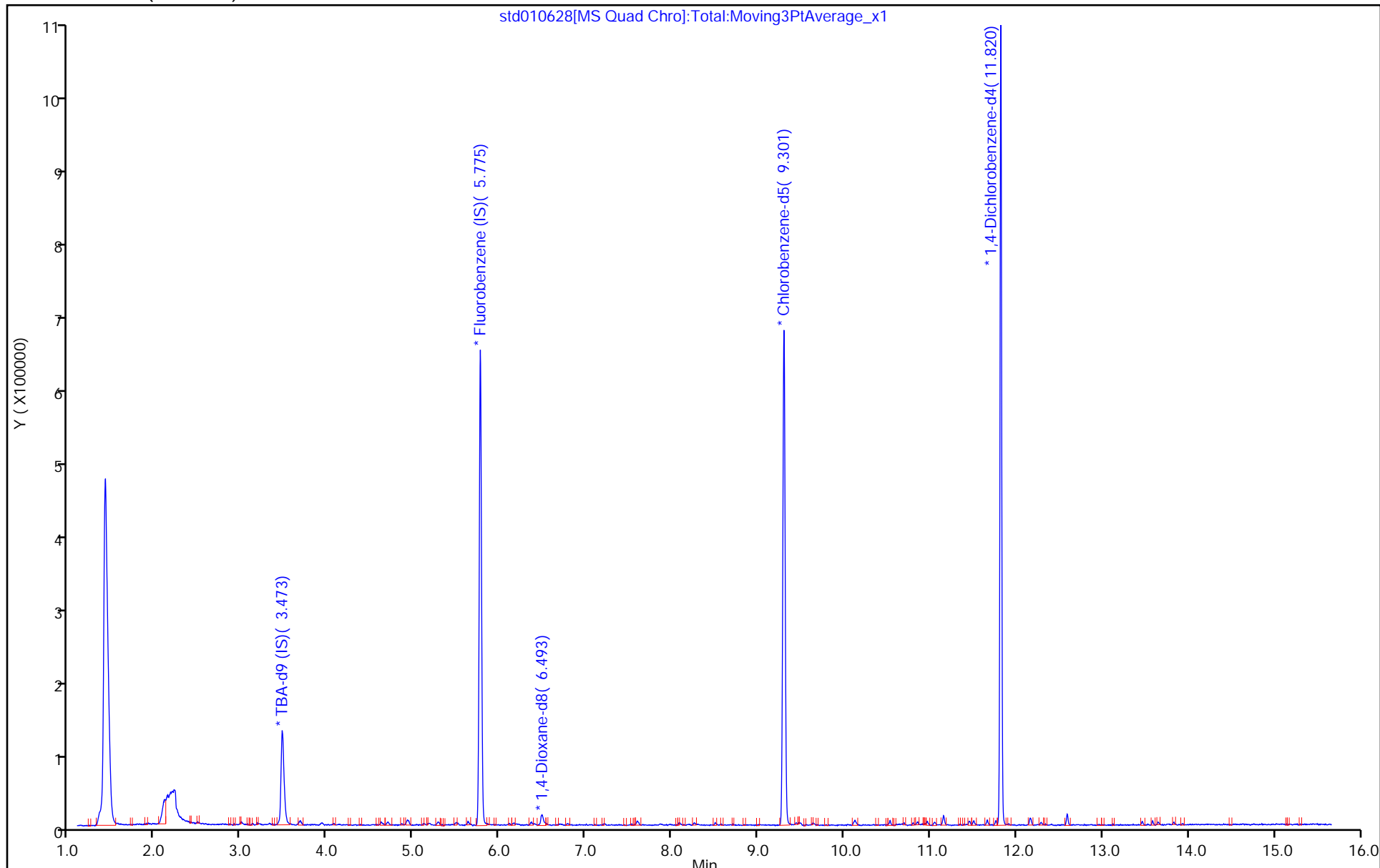
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

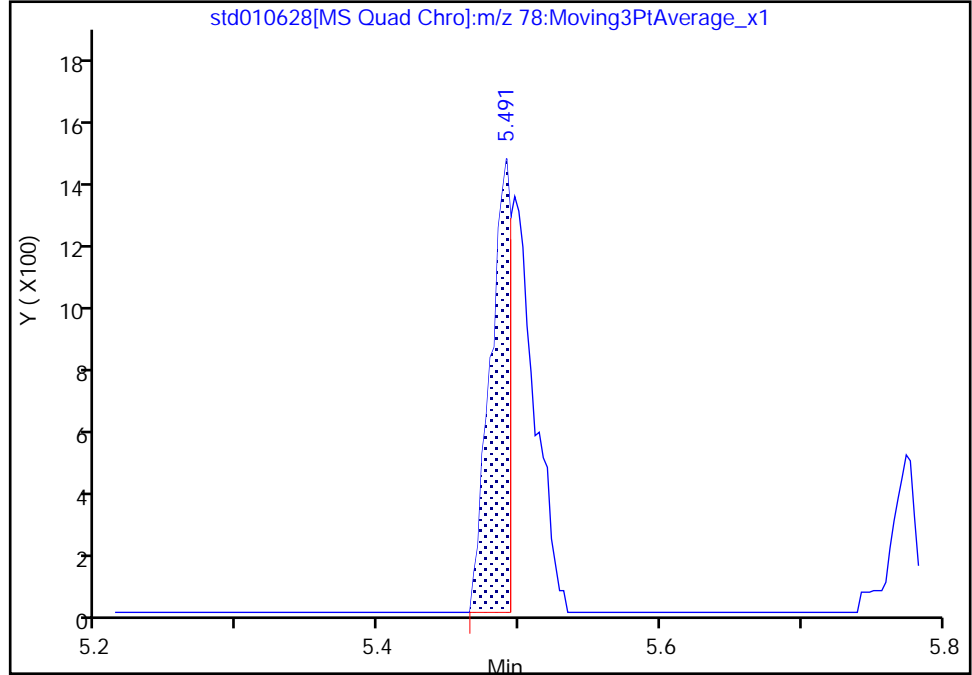
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D
Injection Date: 28-Jun-2022 08:45:32 Instrument ID: CMS29
Lims ID: STD01
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

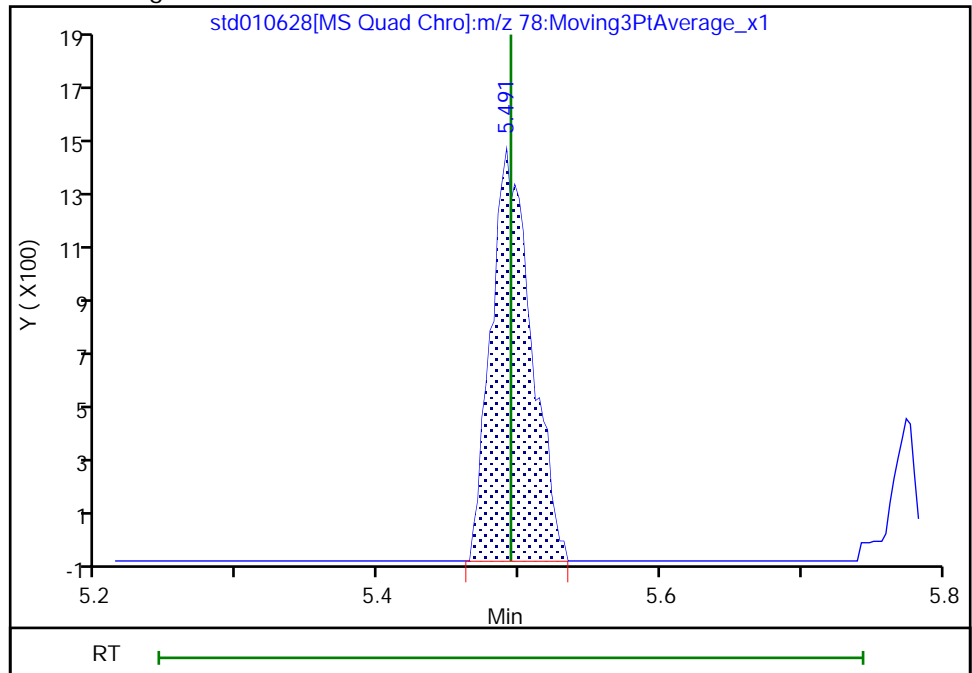
RT: 5.49
Area: 1473
Amount: 0.204317
Amount Units: ug/l

Processing Integration Results



RT: 5.49
Area: 2893
Amount: 0.259852
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:35:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

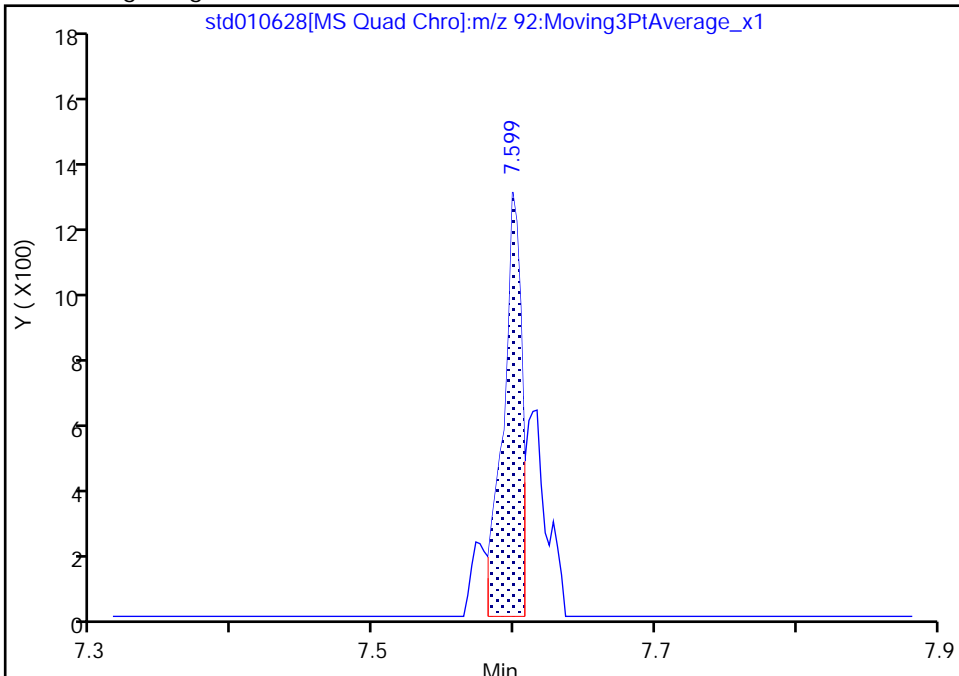
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D
Injection Date: 28-Jun-2022 08:45:32 Instrument ID: CMS29
Lims ID: STD01
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

72 Toluene, CAS: 108-88-3

Signal: 1

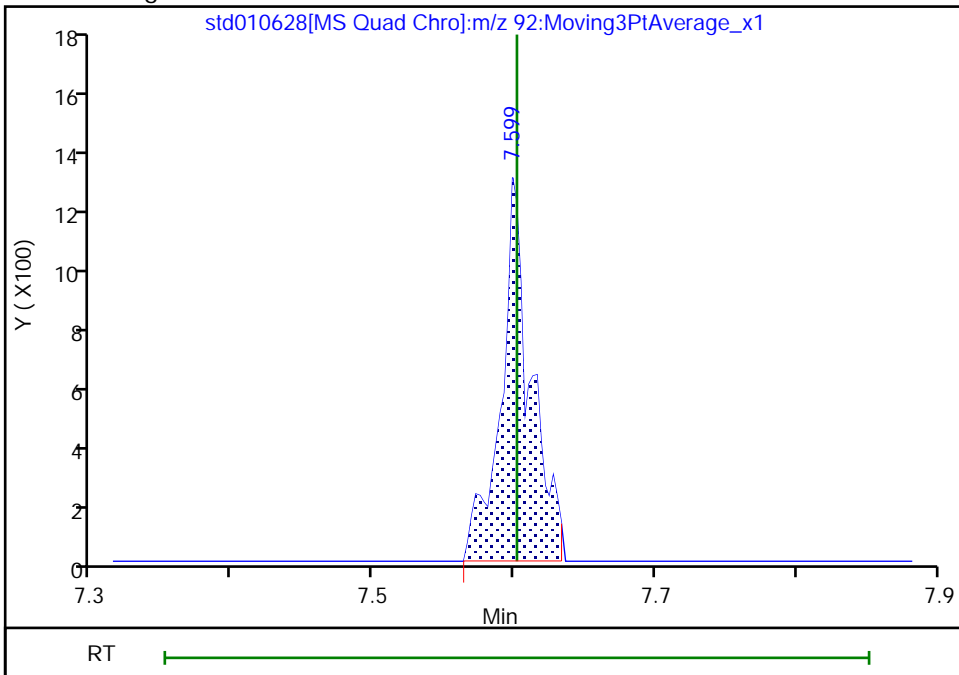
RT: 7.60
Area: 1133
Amount: 0.300923
Amount Units: ug/l

Processing Integration Results



RT: 7.60
Area: 1840
Amount: 0.264022
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:35:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

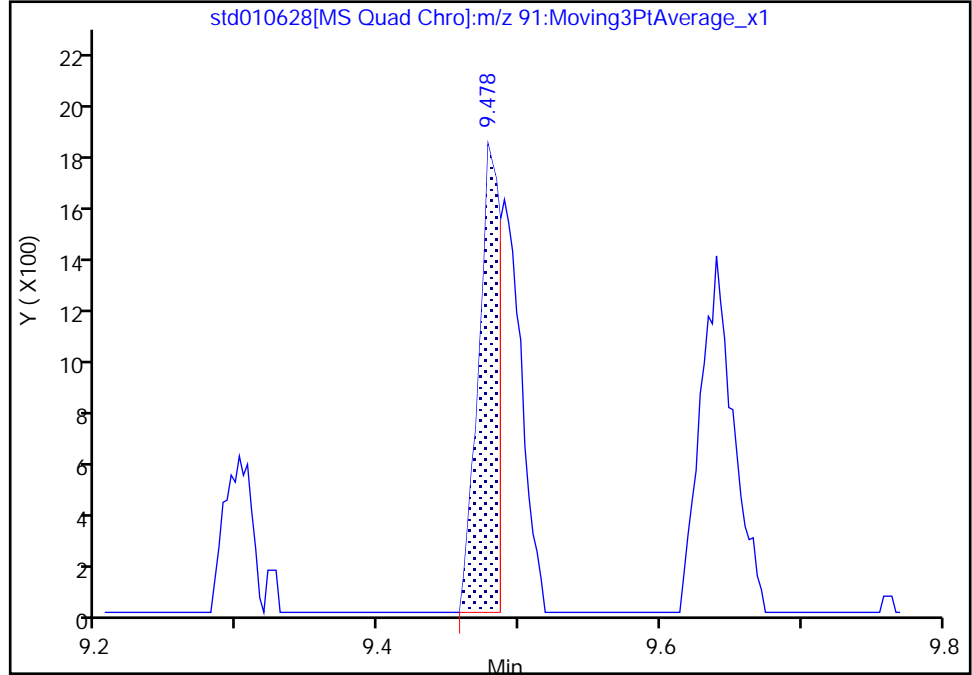
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D
Injection Date: 28-Jun-2022 08:45:32 Instrument ID: CMS29
Lims ID: STD01
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

86 Ethylbenzene, CAS: 100-41-4

Signal: 1

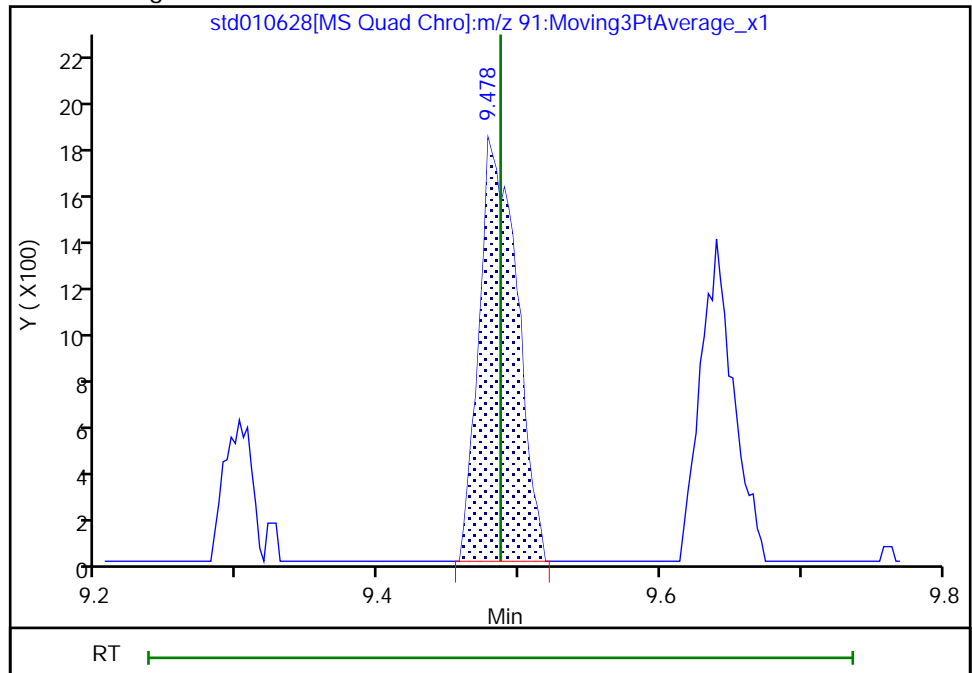
RT: 9.48
Area: 1899
Amount: 0.258248
Amount Units: ug/l

Processing Integration Results



RT: 9.48
Area: 3381
Amount: 0.251805
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:35:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D

Injection Date: 28-Jun-2022 08:45:32

Instrument ID: CMS29

Lims ID: STD01

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

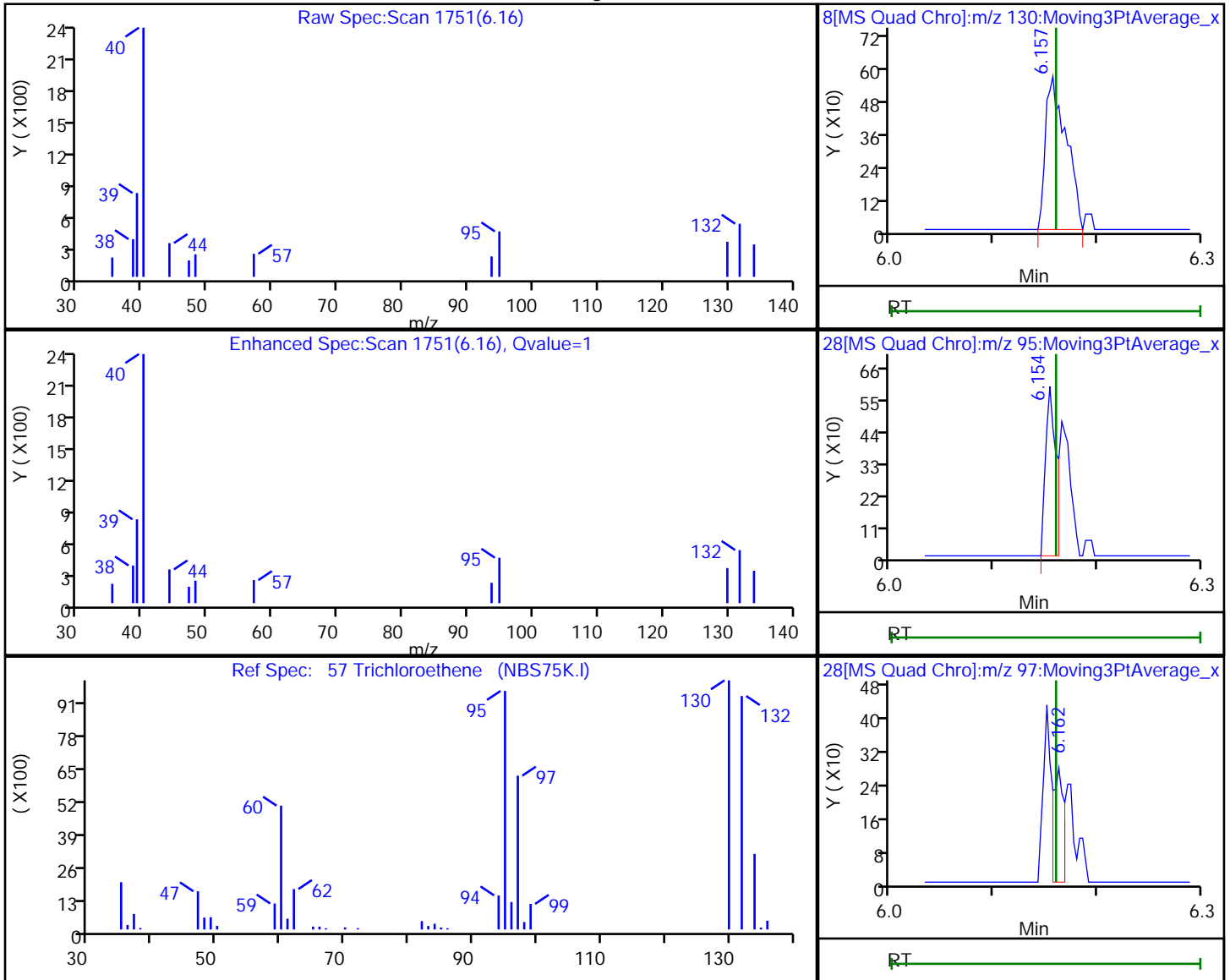
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
6.16	130.00	789	0.270101
6.15	95.00	419	
6.16	97.00	194	

Reviewer: BQP0, 28-Jun-2022 11:36:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std010628.D

Injection Date: 28-Jun-2022 08:45:32

Instrument ID: CMS29

Lims ID: STD01

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

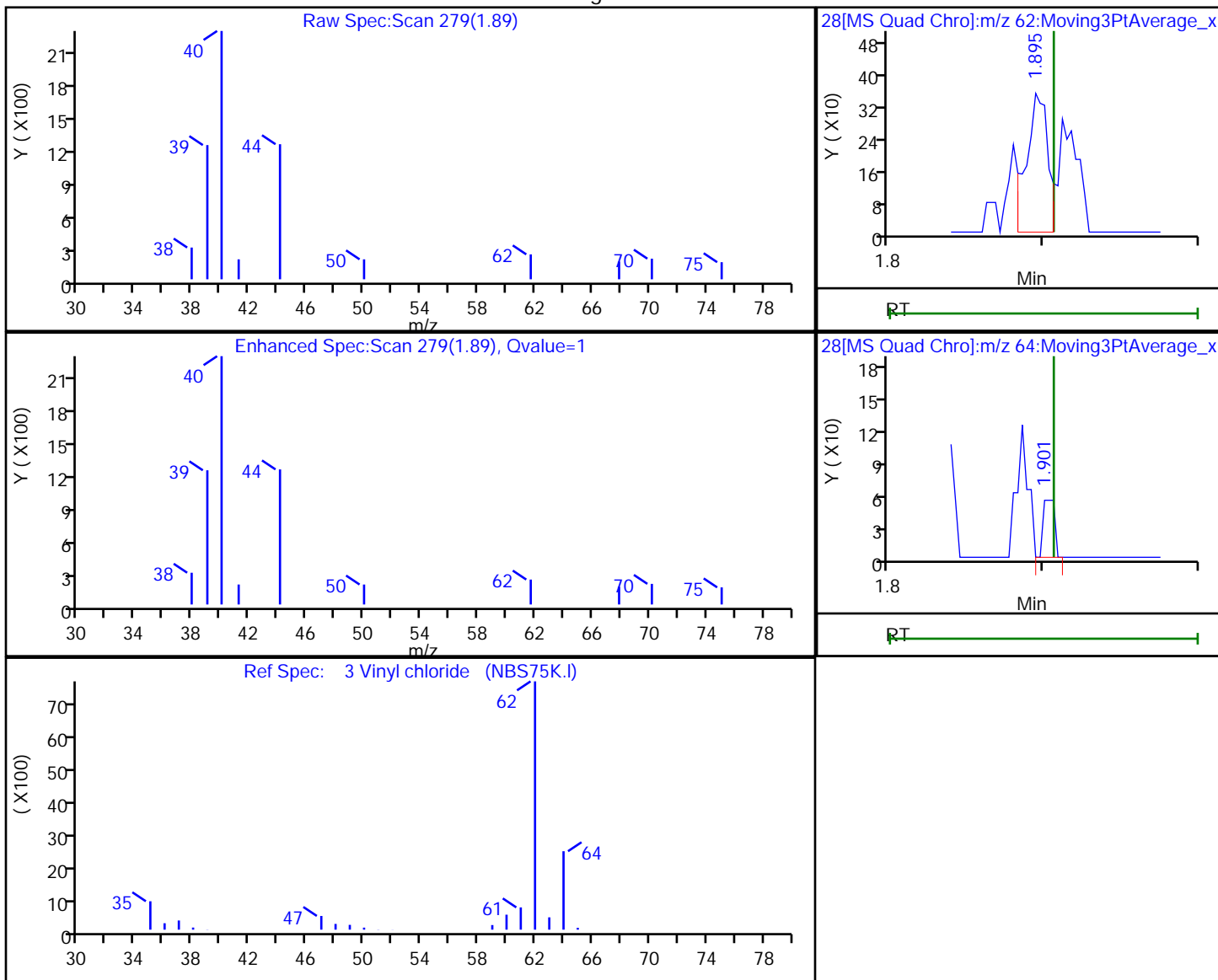
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.89	62.00	345	0.147696
1.90	64.00	28	

Reviewer: BQP0, 28-Jun-2022 11:35:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D
 Lims ID: STD02
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Jun-2022 09:09:09 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std02
 Misc. Info.: 500-0086672-003
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:39:51 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0 Date: 28-Jun-2022 09:48:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 23 TBA-d9 (IS)	65	3.479	3.482	-0.003	0	197766	1000.0	1000.0	
50 Benzene	78	5.497	5.494	0.003	75	6205	0.5000	0.5430	a
* 55 Fluorobenzene (IS)	96	5.777	5.775	0.002	99	570149	50.0	50.0	
57 Trichloroethene	130	6.163	6.160	0.003	17	1767	0.5000	0.5185	M
* 62 1,4-Dioxane-d8	96	6.490	6.496	-0.006	0	16441	1000.0	1000.0	
72 Toluene	92	7.604	7.602	0.002	42	2957	0.5000	0.4114	M
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	87	426898	50.0	50.0	
86 Ethylbenzene	91	9.484	9.487	-0.003	50	6377	0.5000	0.4605	
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	44	4458	0.5000	0.4233	
88 o-Xylene	91	10.115	10.118	-0.003	55	4598	0.5000	0.4089	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	239691	50.0	50.0	
S 124 Xylenes, Total	1				0			0.8322	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LEVEL1 8260_00012 Amount Added: 5.00 Units: uL
 8260 LOWIS1_00166 Amount Added: 5.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D

Injection Date: 28-Jun-2022 09:09:09

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD02

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

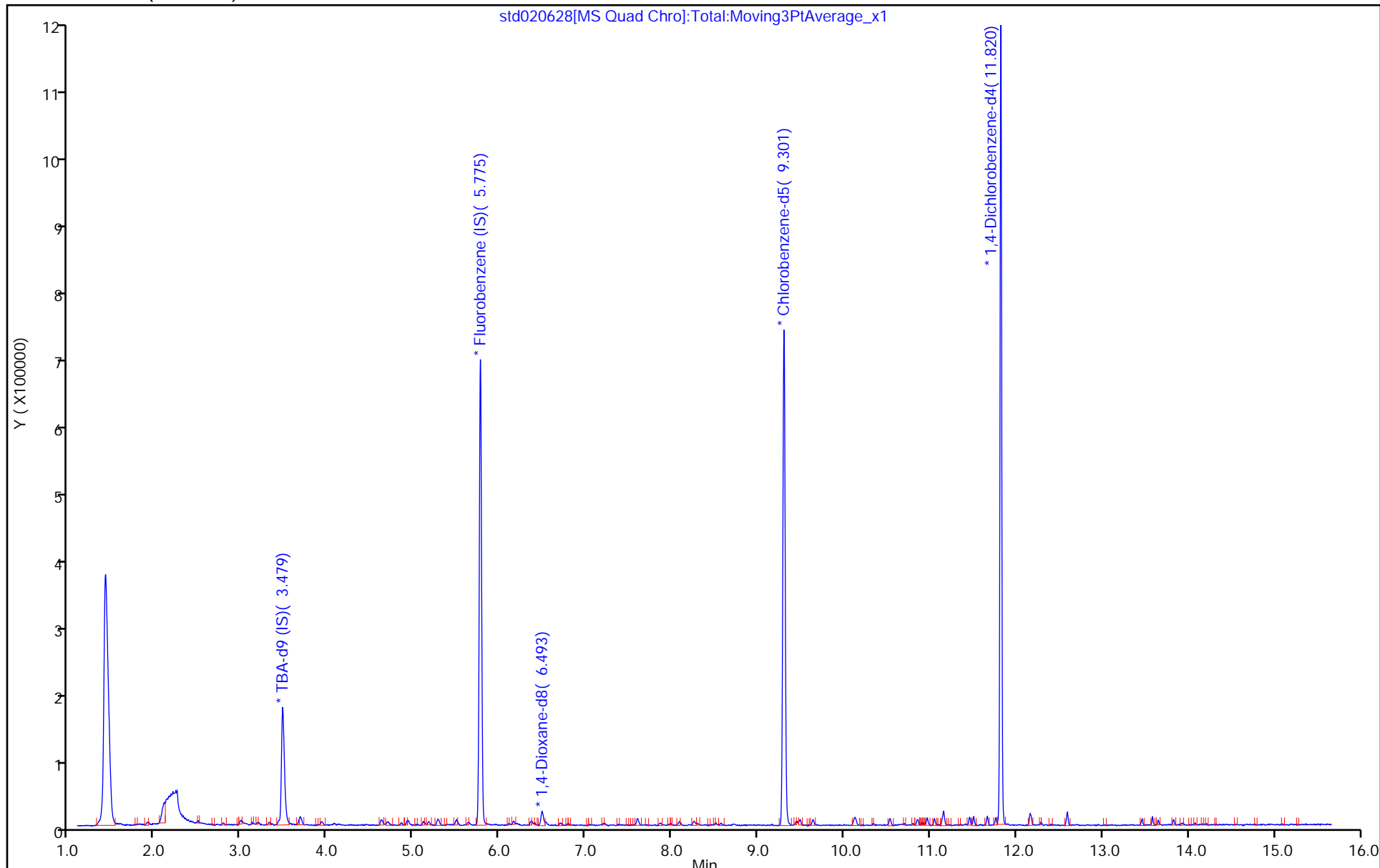
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

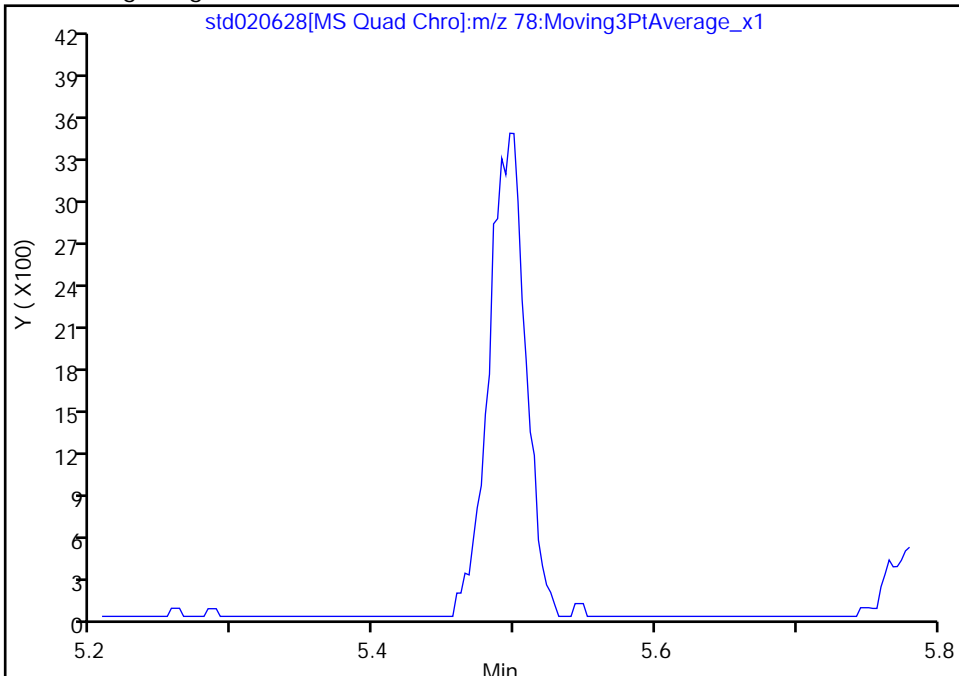
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D
Injection Date: 28-Jun-2022 09:09:09 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

50 Benzene, CAS: 71-43-2

Signal: 1

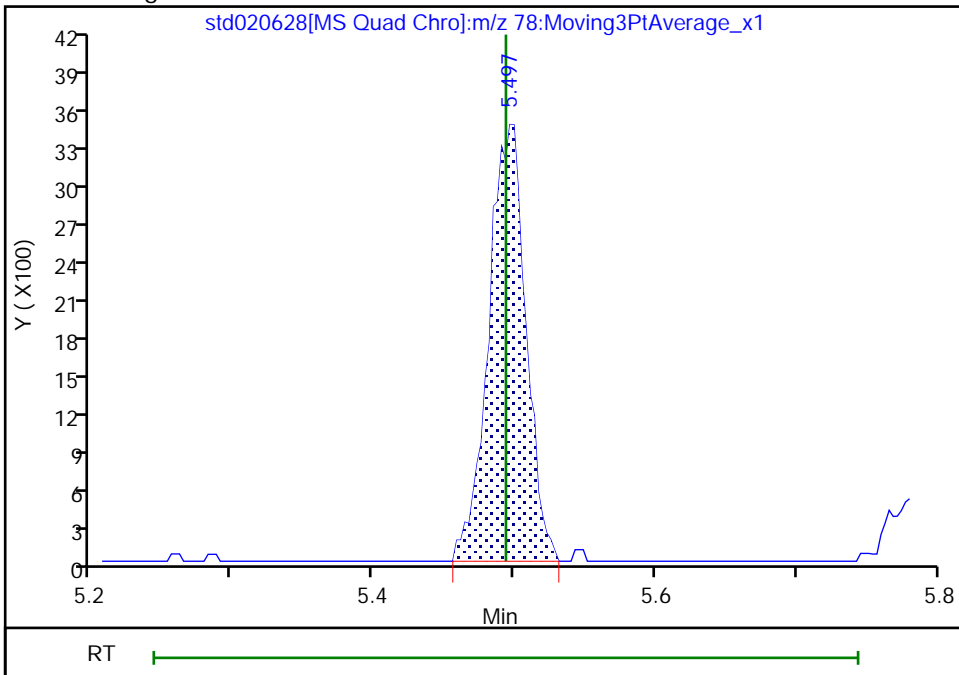
Not Detected
Expected RT: 5.49

Processing Integration Results



RT: 5.50
Area: 6205
Amount: 0.542968
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 09:47:58
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

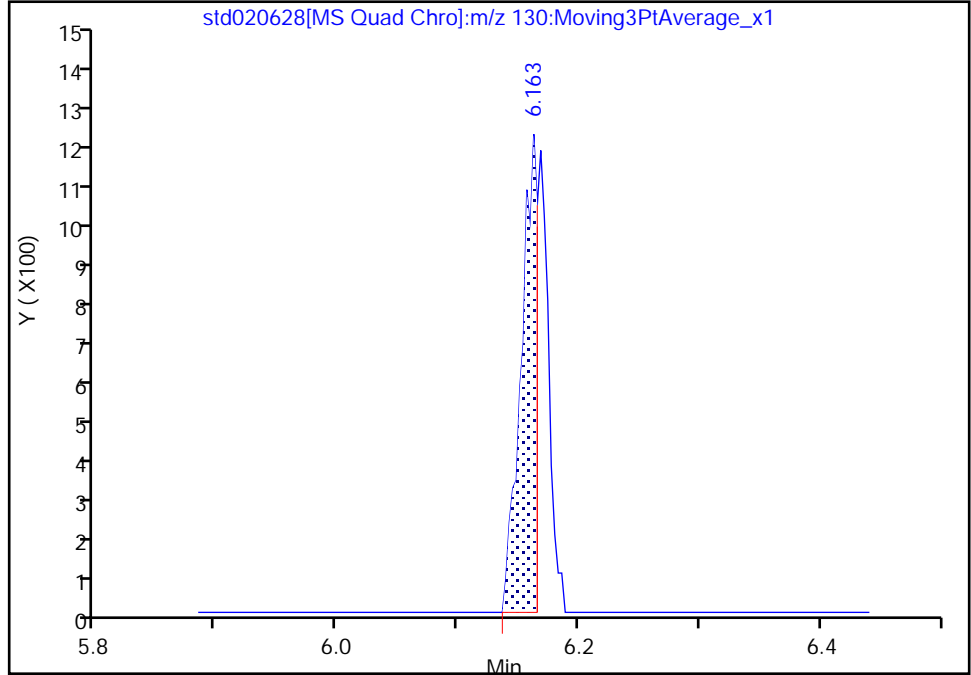
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D
Injection Date: 28-Jun-2022 09:09:09 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

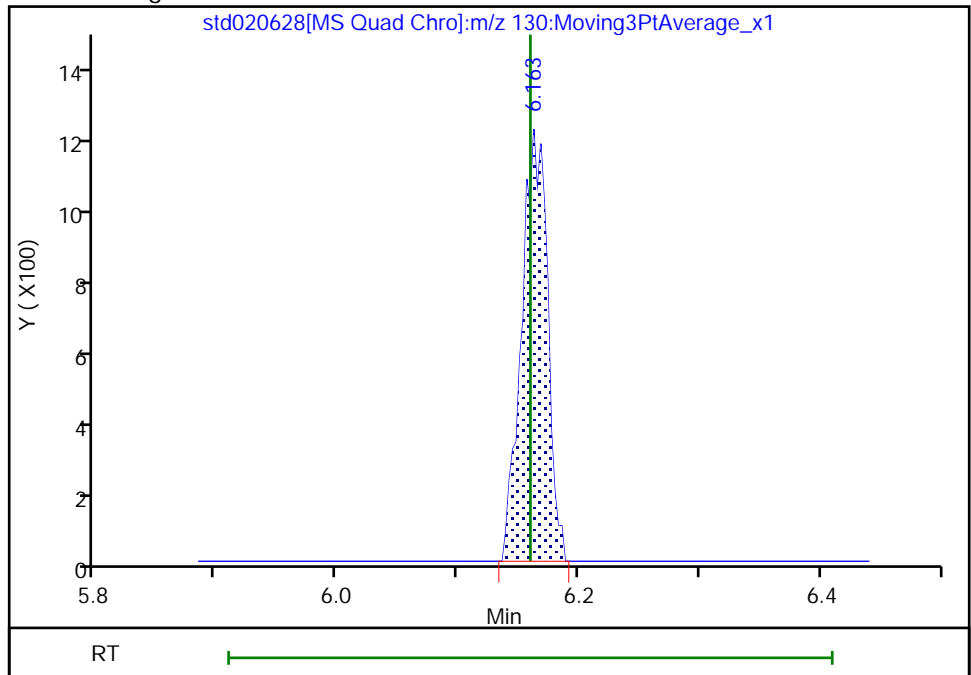
RT: 6.16
Area: 1122
Amount: 0.382571
Amount Units: ug/l

Processing Integration Results



RT: 6.16
Area: 1767
Amount: 0.518506
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:36:49
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

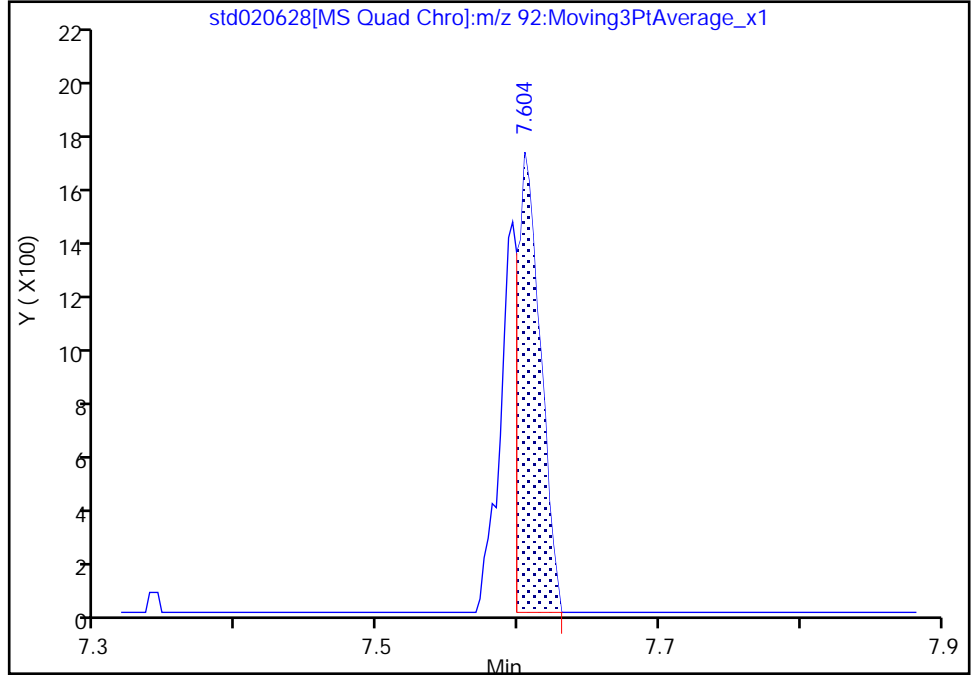
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D
Injection Date: 28-Jun-2022 09:09:09 Instrument ID: CMS29
Lims ID: STD02
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

72 Toluene, CAS: 108-88-3

Signal: 1

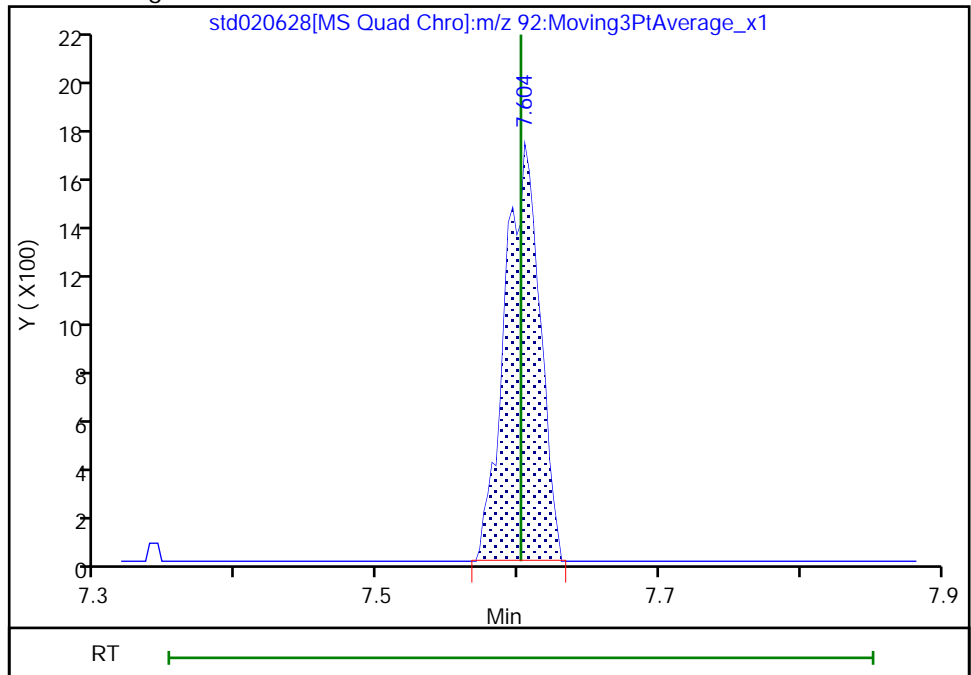
RT: 7.60
Area: 1943
Amount: 0.350900
Amount Units: ug/l

Processing Integration Results



RT: 7.60
Area: 2957
Amount: 0.411437
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:36:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std020628.D

Injection Date: 28-Jun-2022 09:09:09

Instrument ID: CMS29

Lims ID: STD02

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

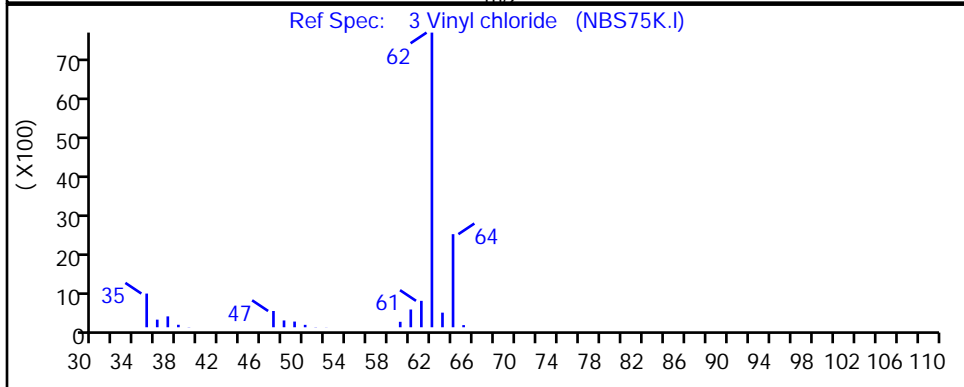
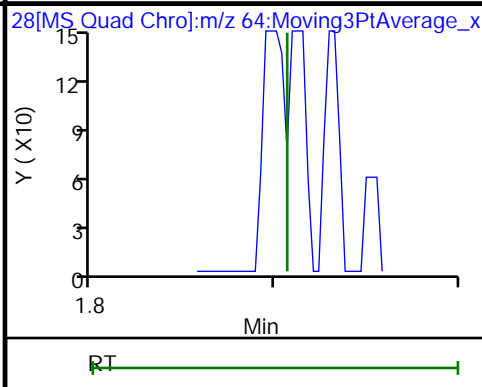
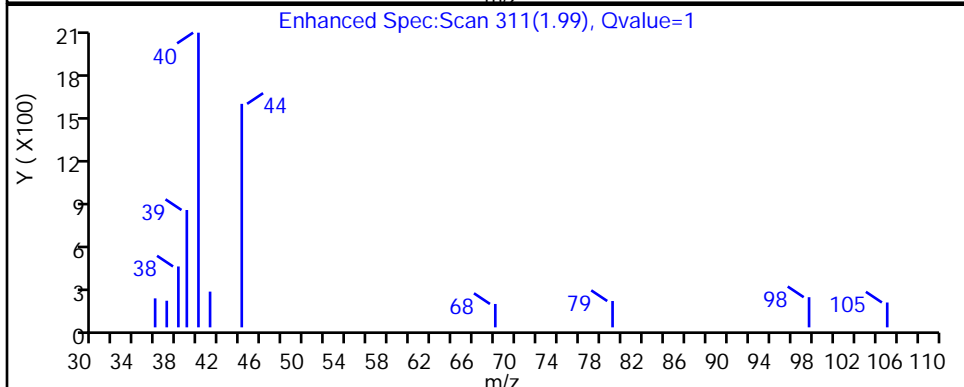
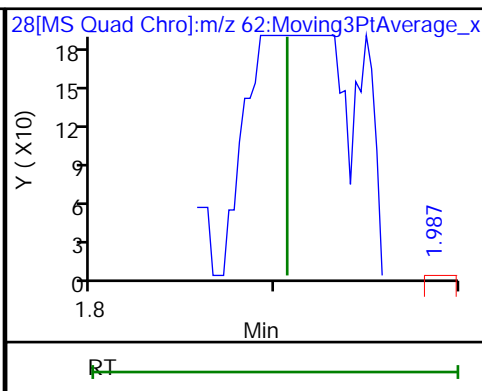
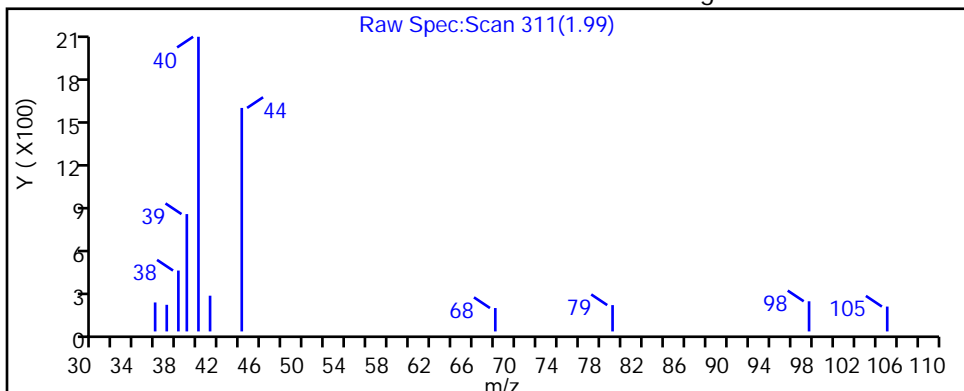
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.99	62.00	48	0.835674
1.99	64.00	65	

Reviewer: BQP0, 28-Jun-2022 11:36:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
 Lims ID: STD03
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 28-Jun-2022 09:32:34 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std03
 Misc. Info.: 500-0086672-004
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:39:54 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 10:18:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.591	1.588	0.003	10	3985	1.00	1.01	
2 Chloromethane	50	1.791	1.796	-0.005	6	2965	1.00	1.10	M
3 Vinyl chloride	62	1.898	1.907	-0.008	1	3718	1.00	1.18	M
4 Butadiene	39	1.912	1.915	-0.003	70	2109	1.00	0.7949	M
7 Chloroethane	64	2.260	2.268	-0.008	40	4116	1.00	1.13	M
8 Dichlorofluoromethane	67	2.489	2.494	-0.005	52	8526	1.00	1.23	M
9 Trichlorofluoromethane	101	2.497	2.497	0.000	67	9351	1.00	1.27	M
11 Ethyl ether	59	2.784	2.790	-0.006	43	2654	1.00	1.26	Ma
12 Acrolein	56	2.911	2.908	0.003	75	7806	40.0	35.1	
13 1,1-Dichloroethene	96	2.975	2.989	-0.014	62	4410	1.00	1.24	Ma
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.007	3.013	-0.006	28	5169	1.00	1.19	Ma
16 Iodomethane	142	3.126	3.128	-0.002	87	7829	1.00	1.17	
17 Carbon disulfide	76	3.183	3.189	-0.006	84	13591	1.00	1.16	
20 3-Chloro-1-propene	76	3.320	3.322	-0.002	58	2166	1.00	1.06	
21 Methyl acetate	43	3.354	3.345	0.009	32	3084	2.00	2.45	Ma
* 23 TBA-d9 (IS)	65	3.485	3.482	0.003	0	235881	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.554	3.557	-0.003	42	2733	10.0	10.8	M
25 Acrylonitrile	53	3.667	3.664	0.003	86	7728	10.0	11.5	
26 trans-1,2-Dichloroethene	96	3.684	3.687	-0.003	69	4417	1.00	1.12	
27 Methyl tert-butyl ether	73	3.693	3.690	0.003	78	9241	1.00	1.07	
28 Hexane	57	3.936	3.933	0.003	82	6711	1.00	1.06	a
29 1,1-Dichloroethane	63	4.078	4.078	0.000	64	6898	1.00	1.18	a
30 Vinyl acetate	43	4.124	4.121	0.003	60	4145	1.00	1.11	
35 cis-1,2-Dichloroethene	96	4.622	4.628	-0.006	69	4361	1.00	1.13	
34 2,2-Dichloropropane	77	4.625	4.628	-0.003	41	5830	1.00	1.20	M
40 Chlorobromomethane	128	4.854	4.860	-0.006	51	2070	1.00	1.16	M
44 1,1,1-Trichloroethane	97	5.120	5.123	-0.003	71	6713	1.00	1.11	
45 Cyclohexane	56	5.181	5.178	0.003	61	5168	1.00	1.12	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 1,1-Dichloropropene	75	5.288	5.282	0.006	49	4767	1.00	1.05	a
46 Carbon tetrachloride	117	5.280	5.285	-0.005	63	6352	1.00	1.10	M
48 Isobutyl alcohol	43	5.398	5.390	0.008	25	2544	25.0	29.3	M
50 Benzene	78	5.497	5.494	0.003	90	12783	1.00	1.07	
51 1,2-Dichloroethane	62	5.514	5.511	0.003	52	4411	1.00	1.12	
54 n-Heptane	43	5.749	5.754	-0.005	36	3615	1.00	1.14	Ma
* 55 Fluorobenzene (IS)	96	5.775	5.775	0.000	99	598685	50.0	50.0	
57 Trichloroethene	130	6.163	6.160	0.003	71	4144	1.00	1.16	a
59 Methylcyclohexane	83	6.363	6.368	-0.005	72	6396	1.00	1.13	
60 1,2-Dichloropropane	63	6.409	6.406	0.003	34	2413	1.00	0.9550	
* 62 1,4-Dioxane-d8	96	6.487	6.496	-0.009	0	19670	1000.0	1000.0	
63 Dibromomethane	93	6.533	6.533	0.000	38	1983	1.00	1.04	
66 Dichlorobromomethane	83	6.704	6.704	0.000	58	5082	1.00	1.15	
68 2-Chloroethyl vinyl ether	63	7.046	7.043	0.003	1	957	1.00	0.9261	
69 cis-1,3-Dichloropropene	75	7.205	7.211	-0.006	39	4179	1.00	0.9473	Ma
72 Toluene	92	7.602	7.602	0.000	78	7687	1.00	1.02	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	57	3785	1.00	0.9605	
74 Ethyl methacrylate	69	7.984	7.972	0.012	21	2761	1.00	1.04	M
75 1,1,2-Trichloroethane	97	8.088	8.085	0.003	16	2853	1.00	1.23	
76 Tetrachloroethene	166	8.256	8.259	-0.003	65	3407	1.00	0.9854	M
77 1,3-Dichloropropane	76	8.294	8.291	0.003	51	4149	1.00	1.09	
79 Chlorodibromomethane	129	8.569	8.569	0.000	25	3531	1.00	1.06	
81 Ethylene Dibromide	107	8.711	8.713	-0.002	12	2550	1.00	1.06	Ma
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	445883	50.0	50.0	
84 Chlorobenzene	112	9.333	9.339	-0.006	60	10007	1.00	1.12	M
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	54	3726	1.00	1.06	
86 Ethylbenzene	91	9.484	9.487	-0.003	85	15028	1.00	1.04	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	81	10911	1.00	0.99	
88 o-Xylene	91	10.118	10.118	0.000	79	11642	1.00	0.99	
89 Styrene	104	10.135	10.135	0.000	69	7435	1.00	0.7960	
90 Bromoform	173	10.335	10.341	-0.006	43	1851	1.00	0.8805	M
91 Isopropylbenzene	105	10.532	10.535	-0.003	85	14410	1.00	1.04	
95 Bromobenzene	156	10.850	10.850	0.000	77	3544	1.00	1.04	
96 1,1,2,2-Tetrachloroethane	83	10.850	10.853	-0.003	13	3620	1.00	1.22	Ma
99 N-Propylbenzene	91	10.966	10.966	0.000	92	16860	1.00	1.01	
100 2-Chlorotoluene	91	11.047	11.050	-0.003	81	10399	1.00	1.07	
101 1,3,5-Trimethylbenzene	105	11.143	11.146	-0.003	74	11776	1.00	0.9585	
102 4-Chlorotoluene	91	11.157	11.157	0.000	85	12402	1.00	1.05	
104 tert-Butylbenzene	119	11.461	11.461	0.000	77	10807	1.00	1.01	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	81	12034	1.00	0.9550	
107 sec-Butylbenzene	105	11.661	11.664	-0.003	81	16735	1.00	1.00	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	82	8111	1.00	1.13	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	84	13246	1.00	0.9284	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	246636	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.841	11.843	-0.002	54	8635	1.00	1.16	a
115 n-Butylbenzene	91	12.156	12.159	-0.003	86	12950	1.00	0.9655	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.001	85	7628	1.00	1.11	
116 1,2-Dibromo-3-Chloropropane	75	12.816	12.822	-0.006	1	660	1.00	1.18	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	53	5096	1.00	1.20	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	61	3336	1.00	1.26	
120 Naphthalene	128	13.647	13.647	0.000	85	8104	1.00	1.07	
121 1,2,3-Trichlorobenzene	180	13.830	13.827	0.003	57	4374	1.00	1.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 124 Xylenes, Total	1				0			1.98	
S 125 Trihalomethanes, Total	1				0			3.09	
S 126 1,2-Dichloroethene, Total	1				0			2.25	
S 127 Trimethylbenzene, Total	1				0			1.91	
S 128 1,3-Dichloropropene, Total	1				0			1.91	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWIS1_00166	Amount Added: 5.00	Units: uL
LOW8260ACR_00321	Amount Added: 1.00	Units: uL
LO8260/624STD_00540	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D

Injection Date: 28-Jun-2022 09:32:34

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD03

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

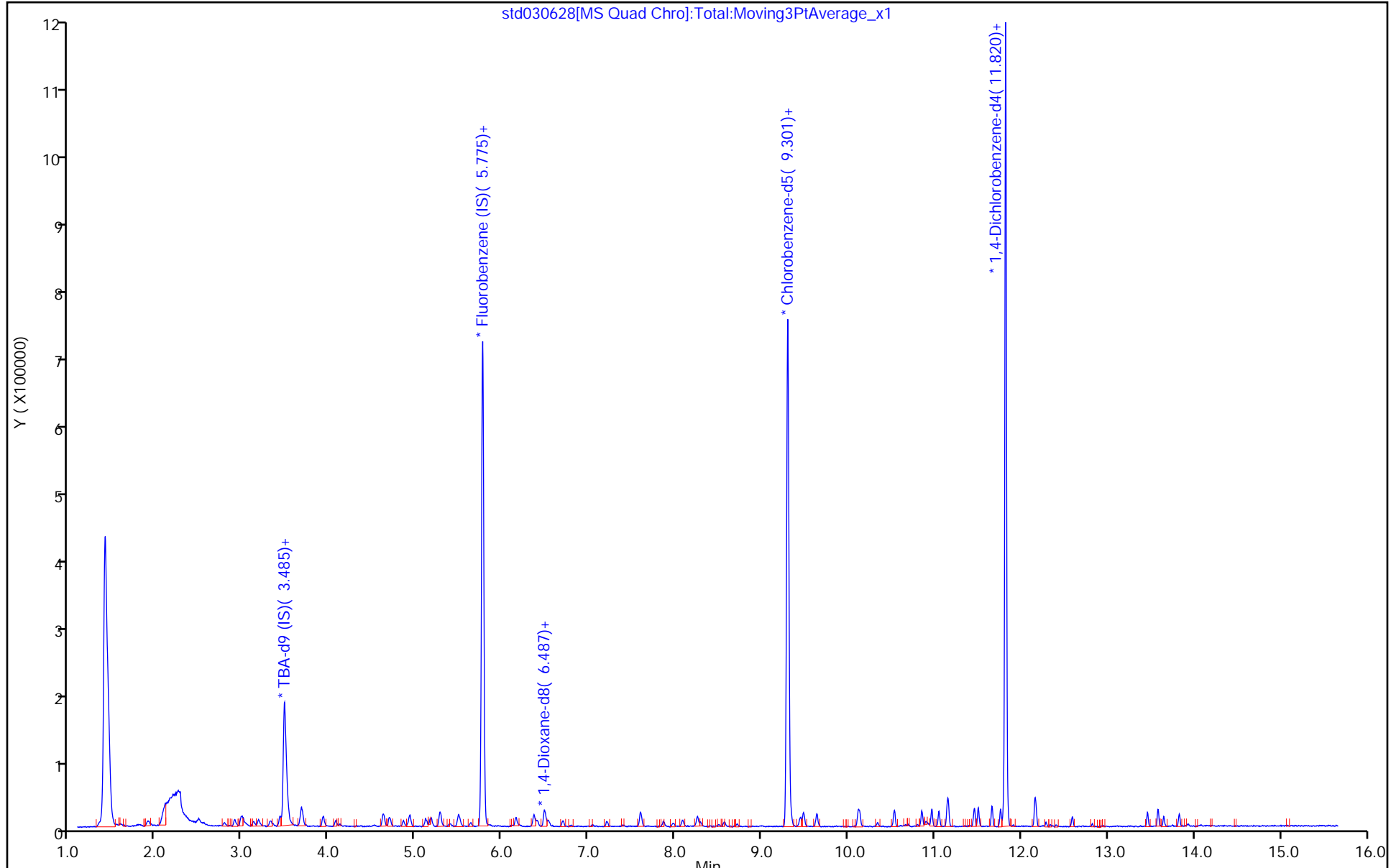
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D

Injection Date: 28-Jun-2022 09:32:34

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

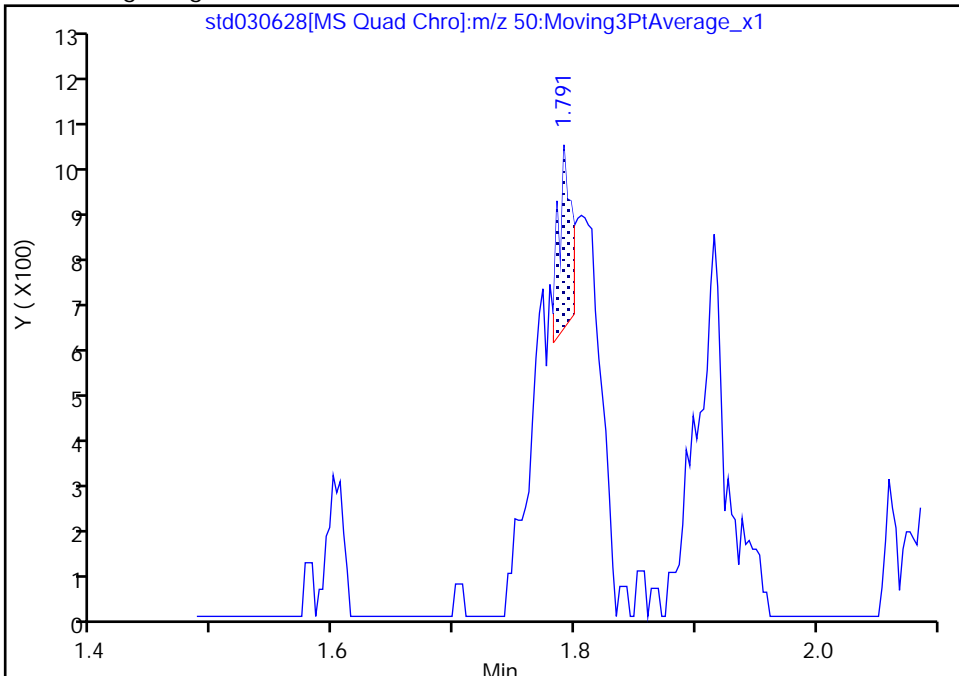
Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

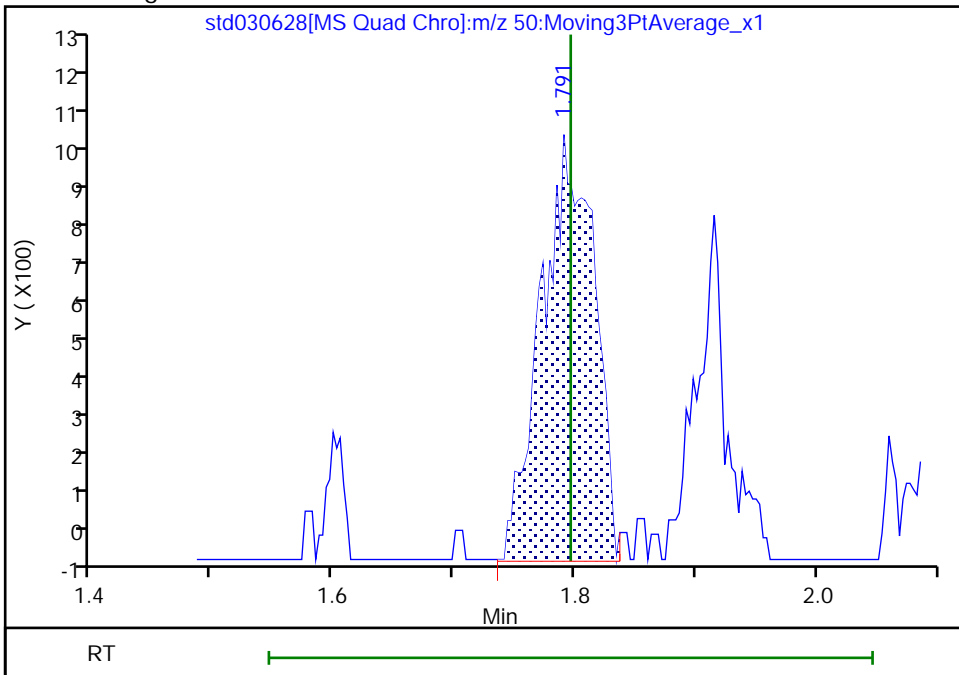
RT: 1.79
Area: 266
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 1.79
Area: 2965
Amount: 1.098084
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

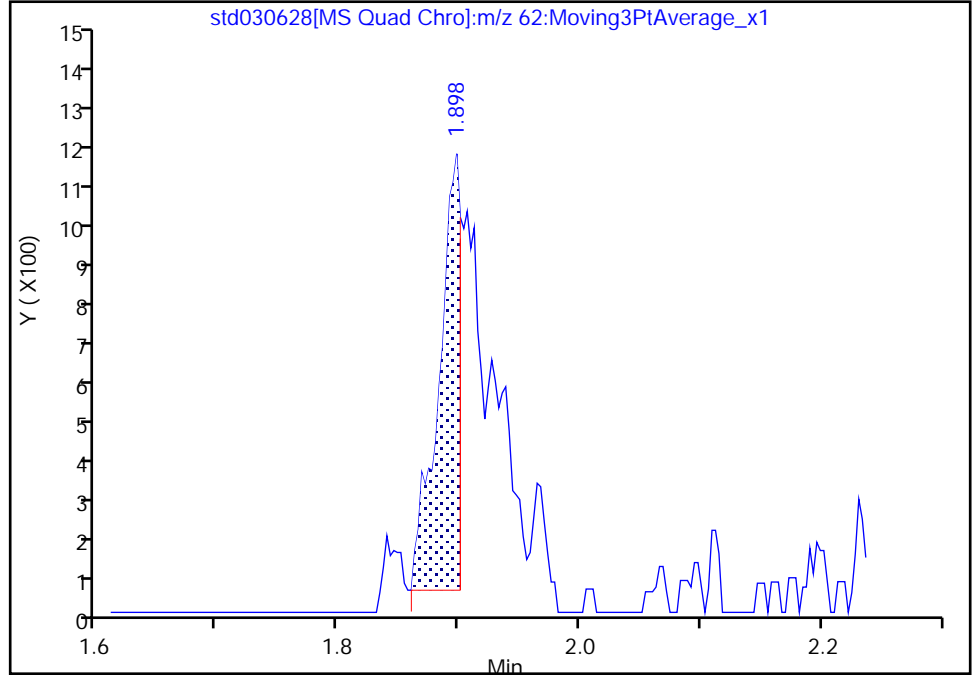
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

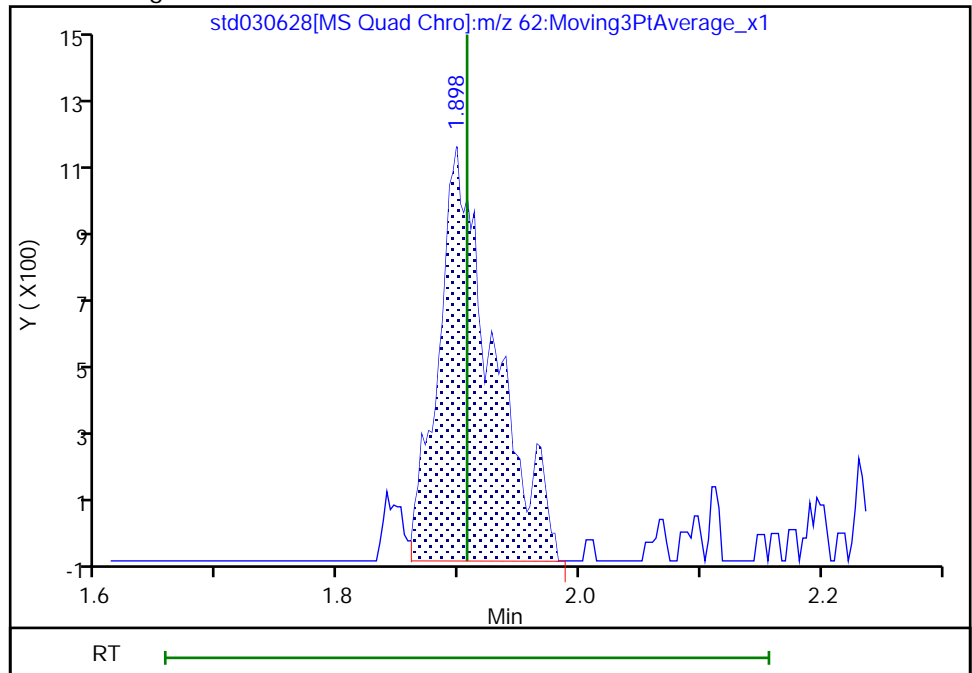
RT: 1.90
Area: 1381
Amount: 1.395313
Amount Units: ug/l

Processing Integration Results



RT: 1.90
Area: 3718
Amount: 1.182038
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:14:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

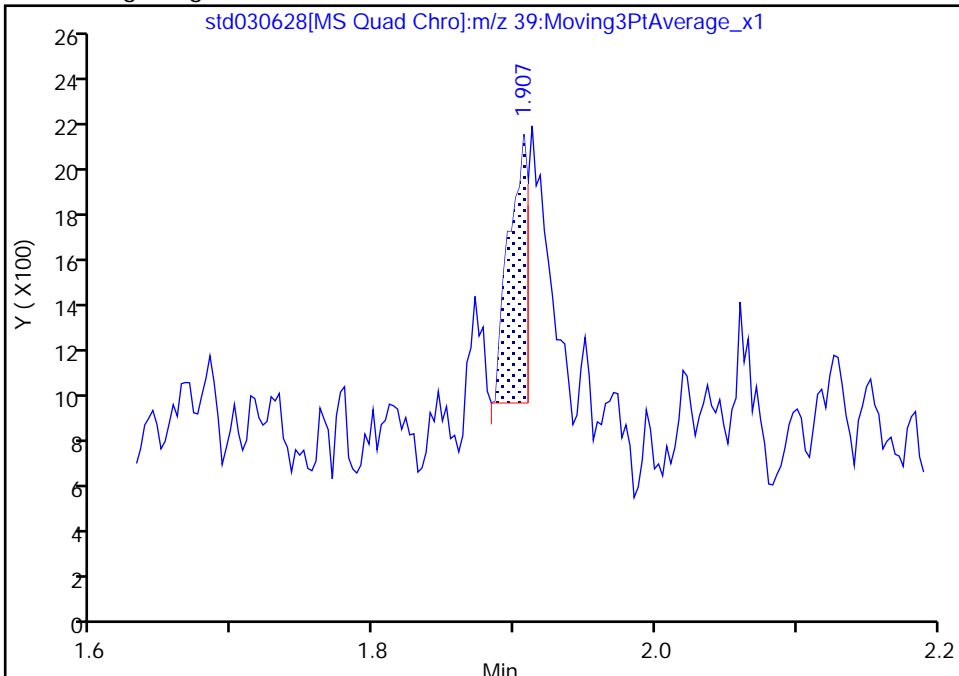
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

4 Butadiene, CAS: 106-99-0

Signal: 1

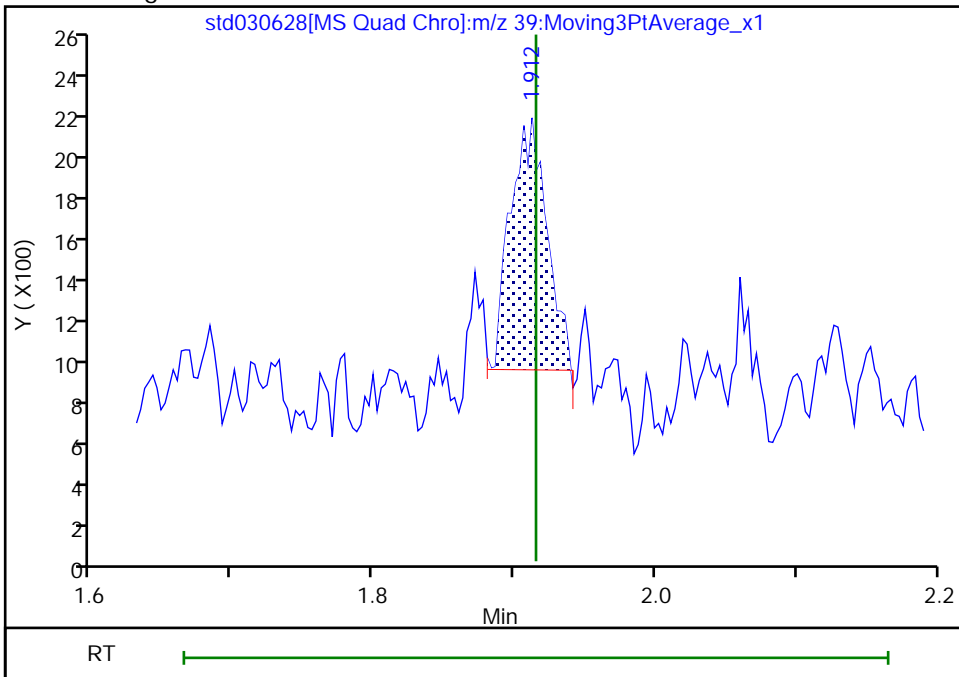
RT: 1.91
Area: 1082
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 1.91
Area: 2109
Amount: 0.794880
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:14:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

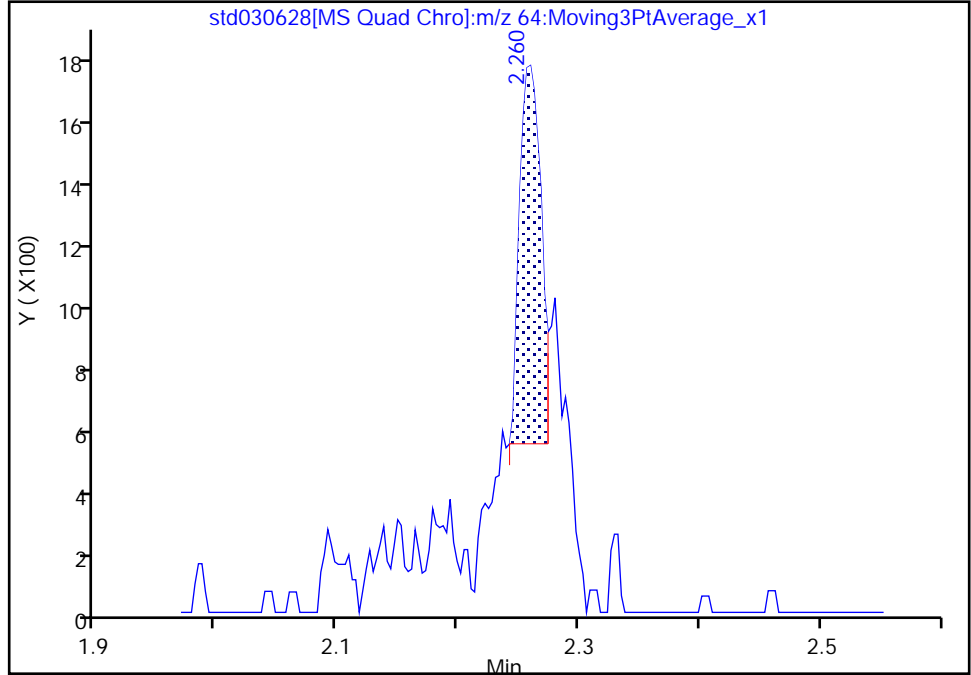
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

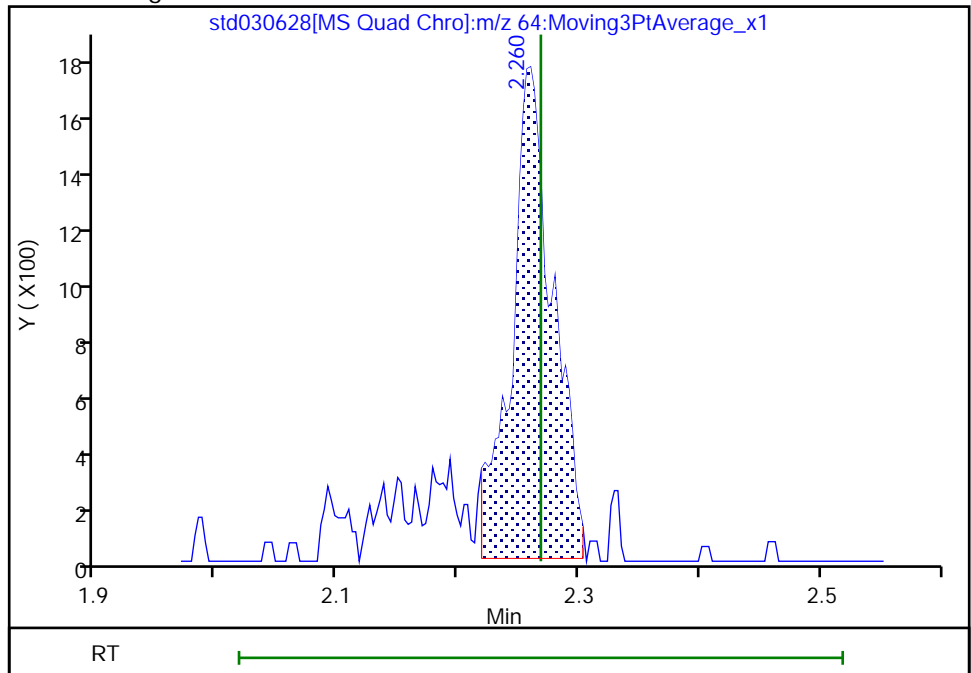
RT: 2.26
Area: 1487
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 2.26
Area: 4116
Amount: 1.131705
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:22:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

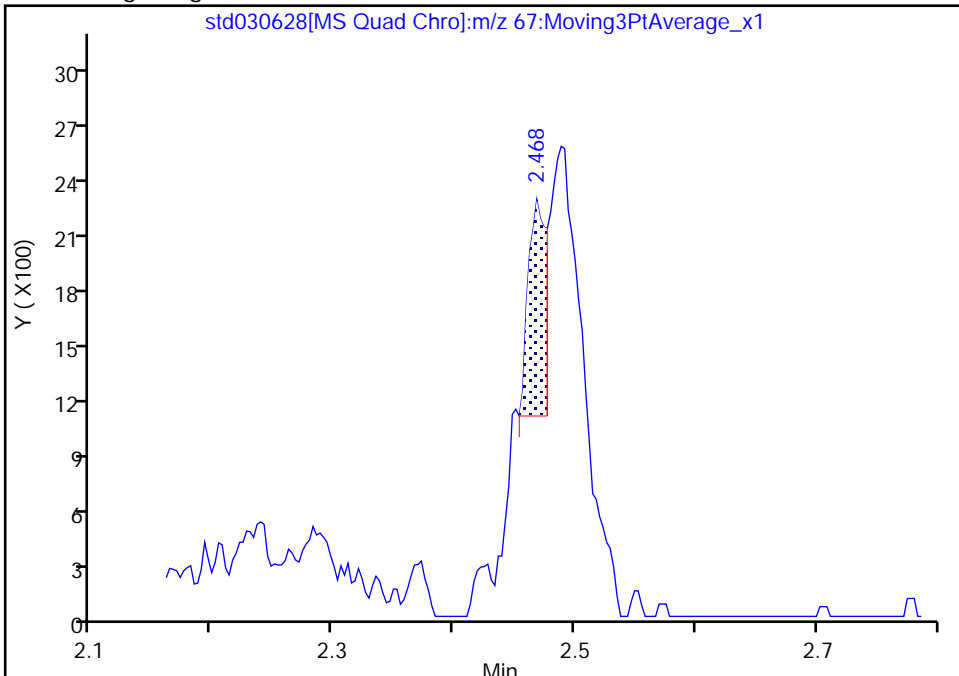
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

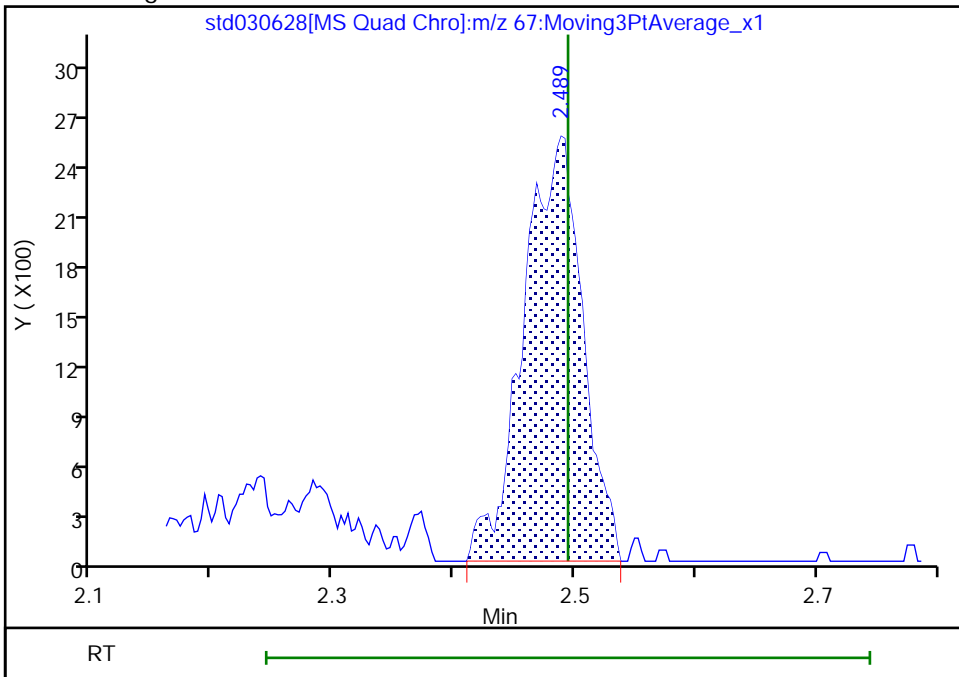
RT: 2.47
Area: 1191
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 8526
Amount: 1.234466
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:22:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

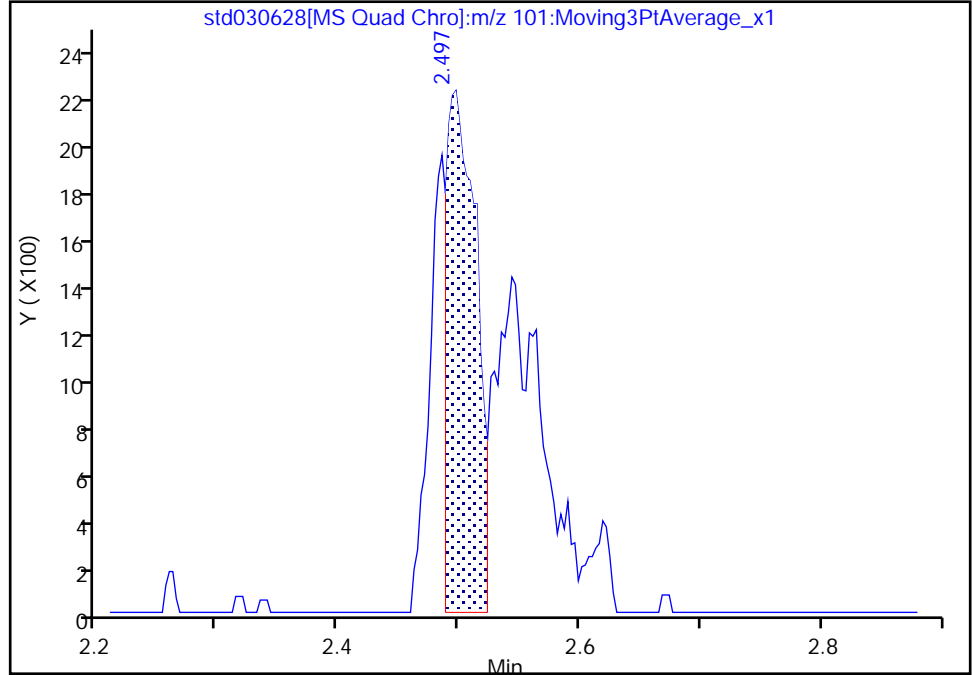
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

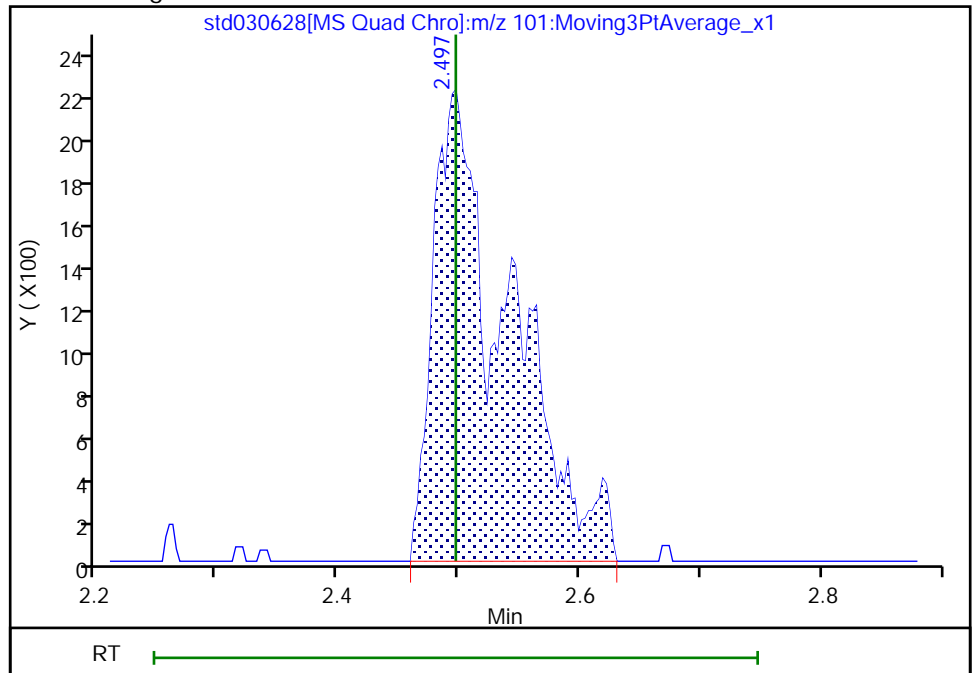
RT: 2.50
Area: 3750
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 9351
Amount: 1.267065
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:21:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

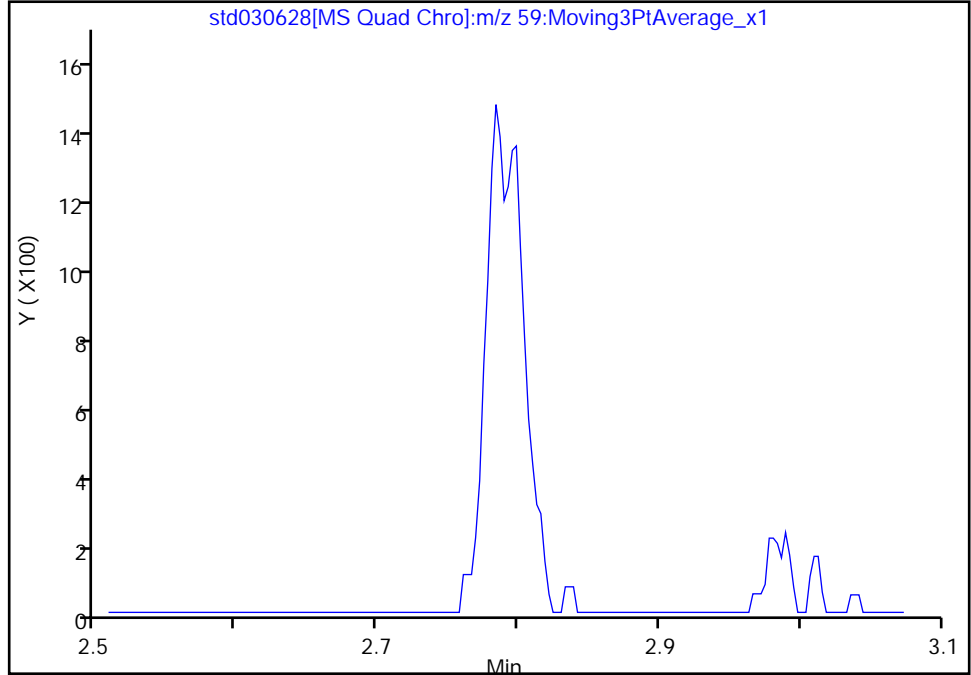
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

11 Ethyl ether, CAS: 60-29-7

Signal: 1

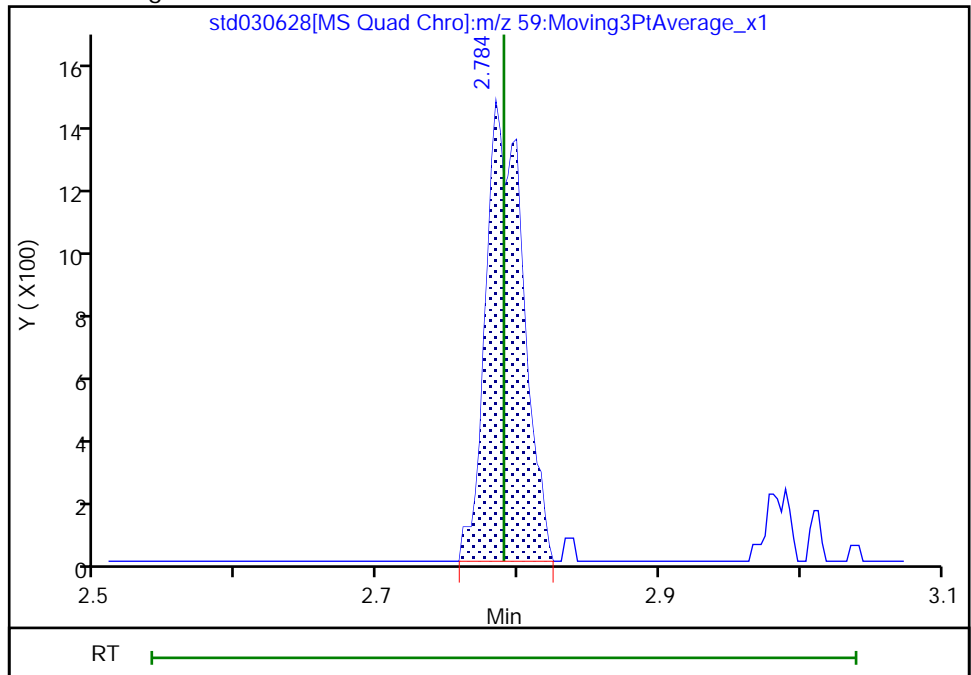
Not Detected
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 2654
Amount: 1.264903
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:15:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

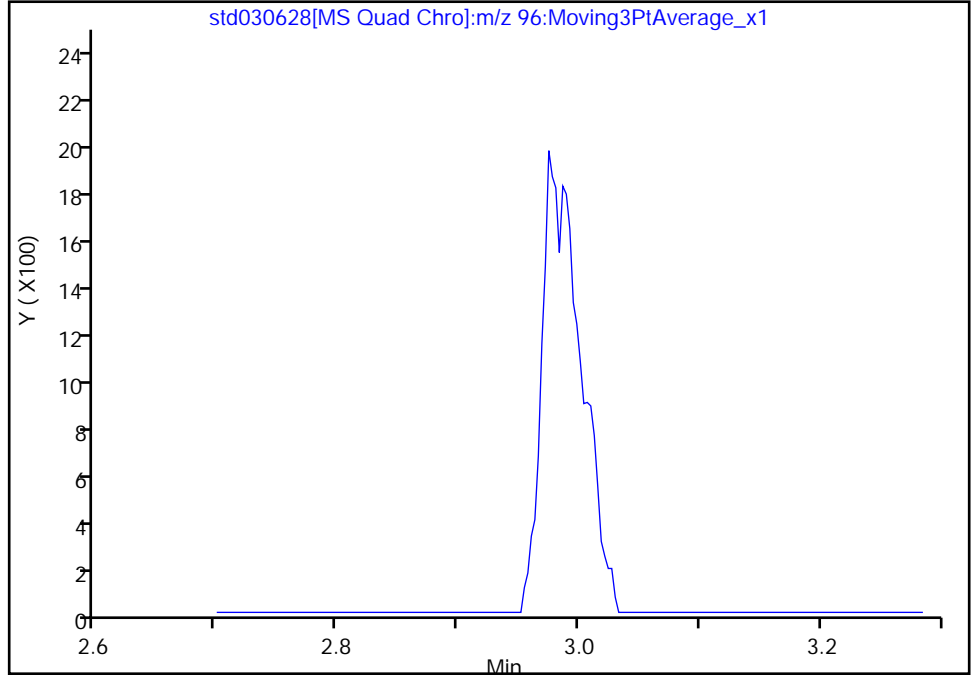
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

13 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

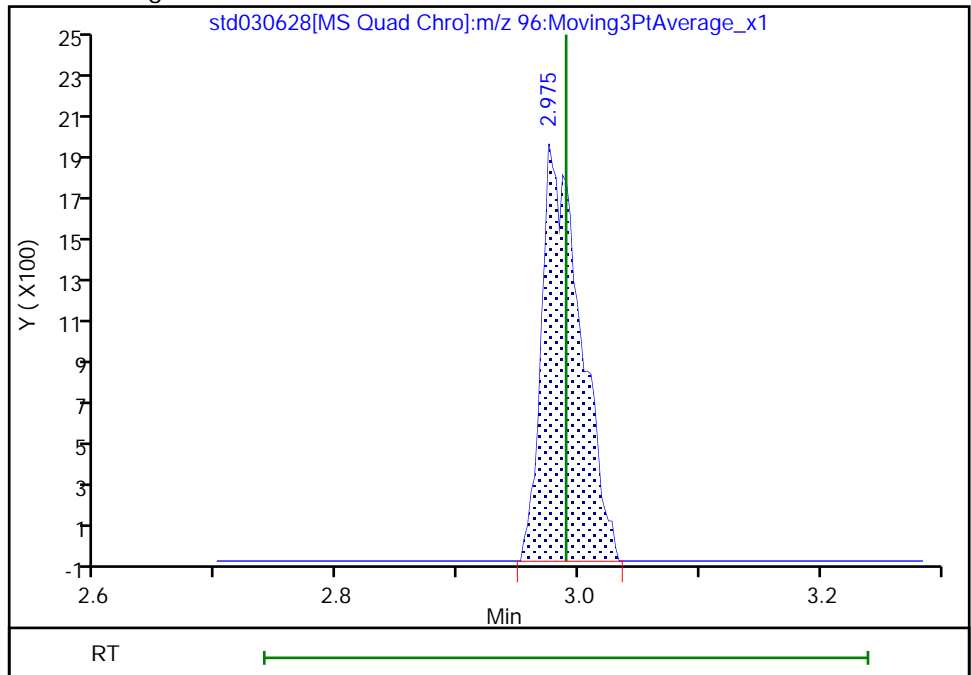
Processing Integration Results

Not Detected
Expected RT: 2.99



Manual Integration Results

RT: 2.98
Area: 4410
Amount: 1.236187
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:15:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

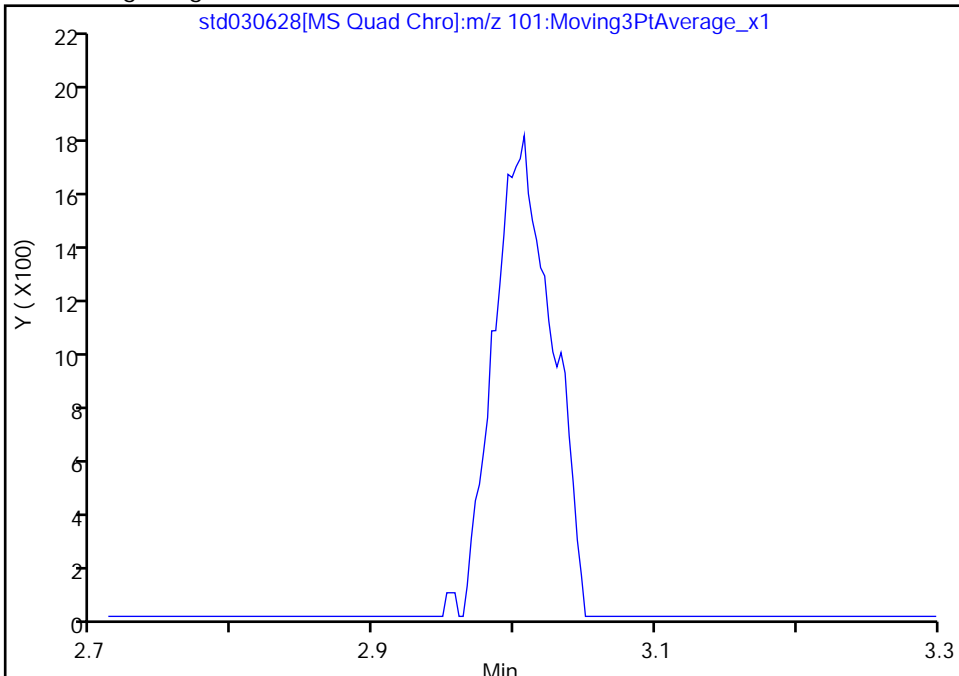
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

14 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

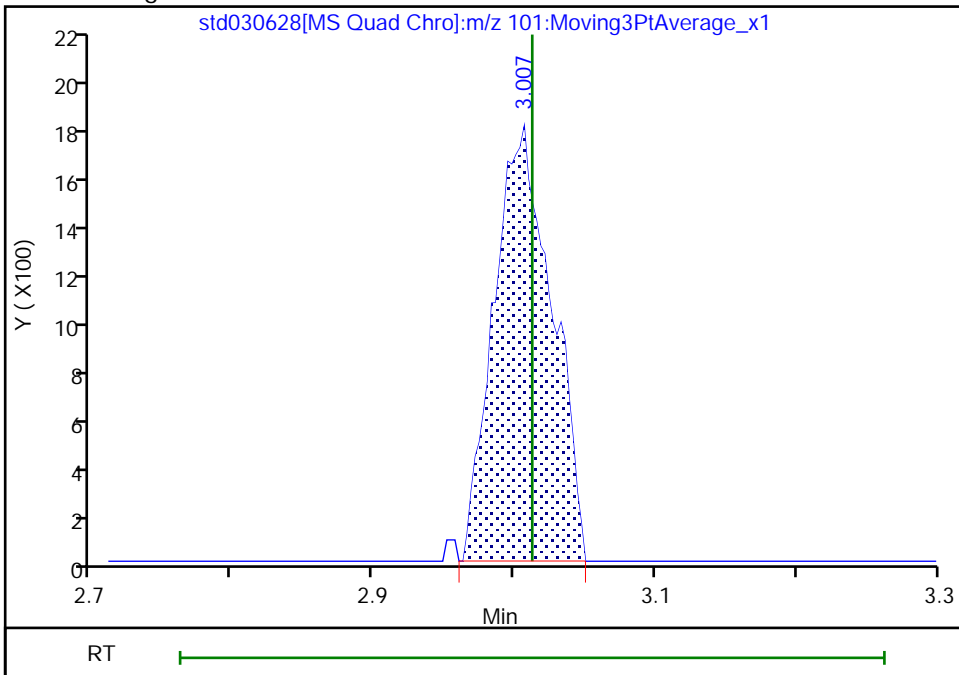
Not Detected
Expected RT: 3.01

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 5169
Amount: 1.191117
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:14:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

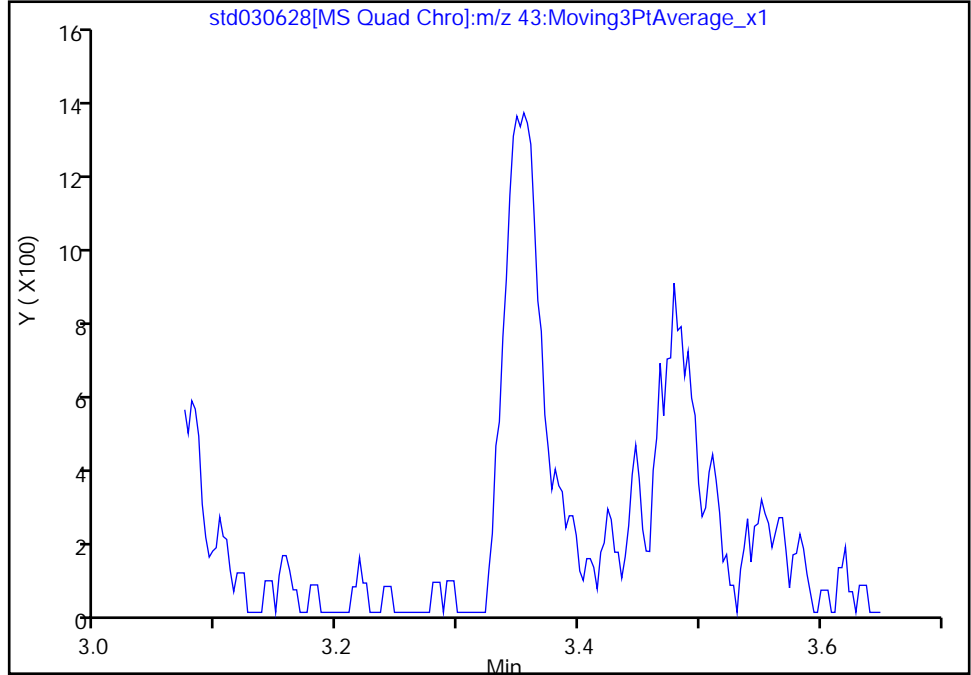
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

21 Methyl acetate, CAS: 79-20-9

Signal: 1

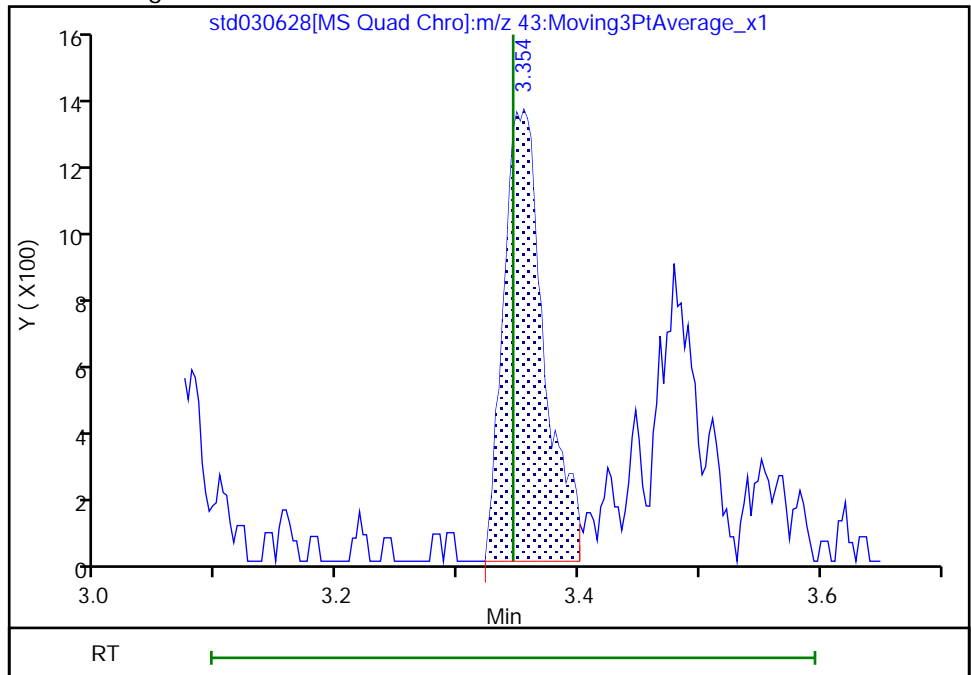
Not Detected
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35
Area: 3084
Amount: 2.452934
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:14:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

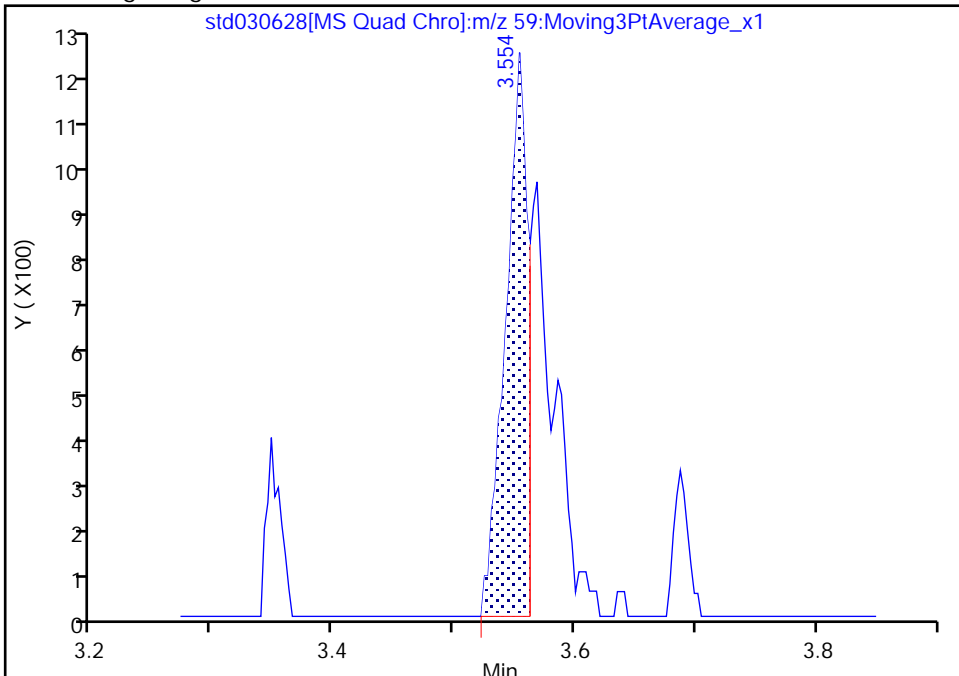
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

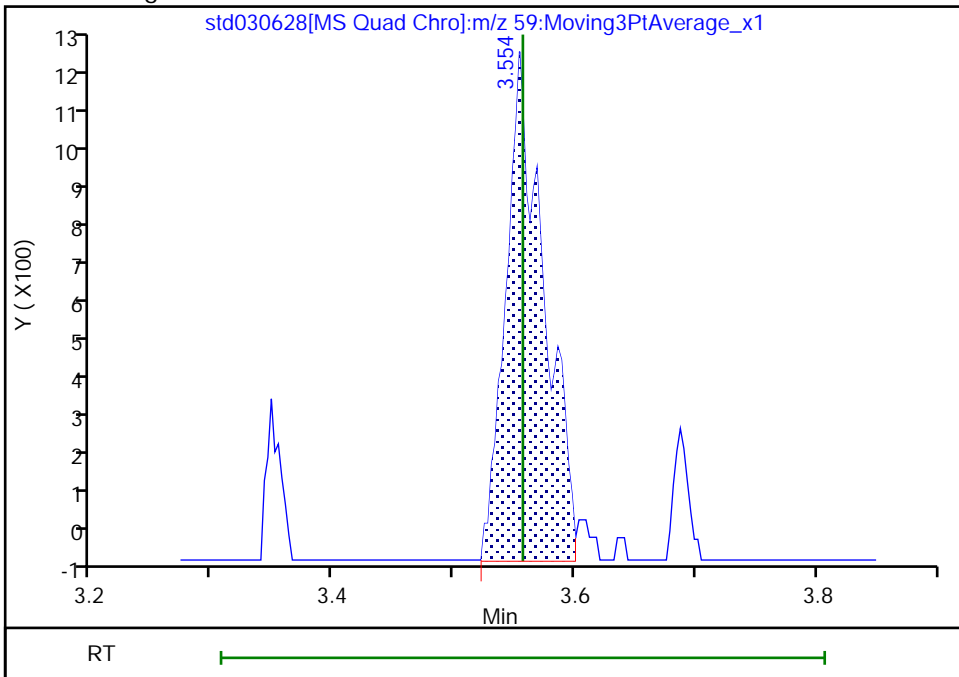
RT: 3.55
Area: 1585
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.55
Area: 2733
Amount: 10.754162
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:21:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

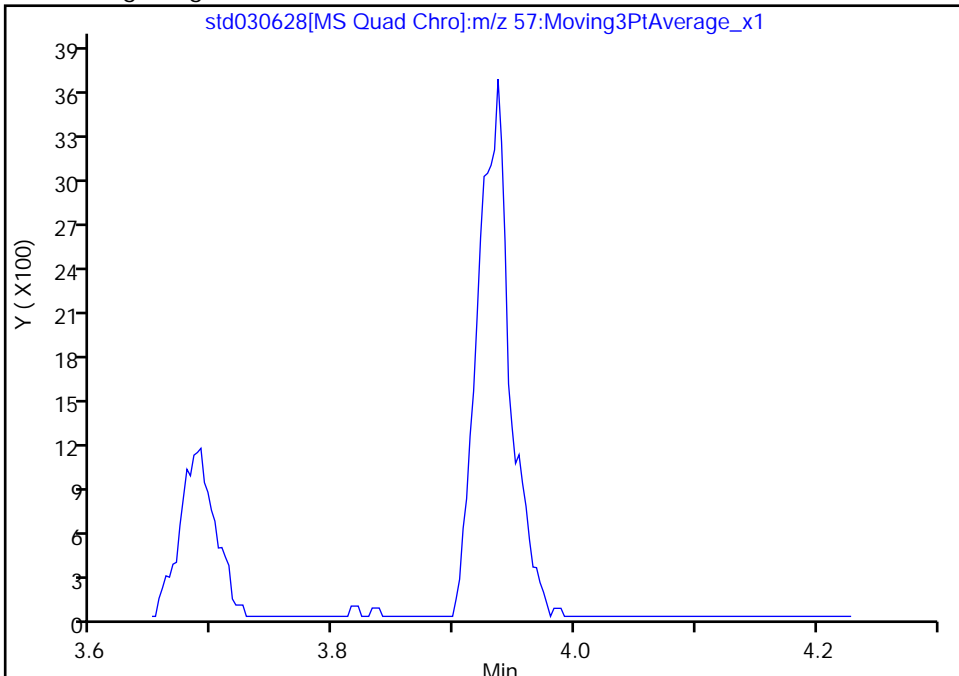
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

28 Hexane, CAS: 110-54-3

Signal: 1

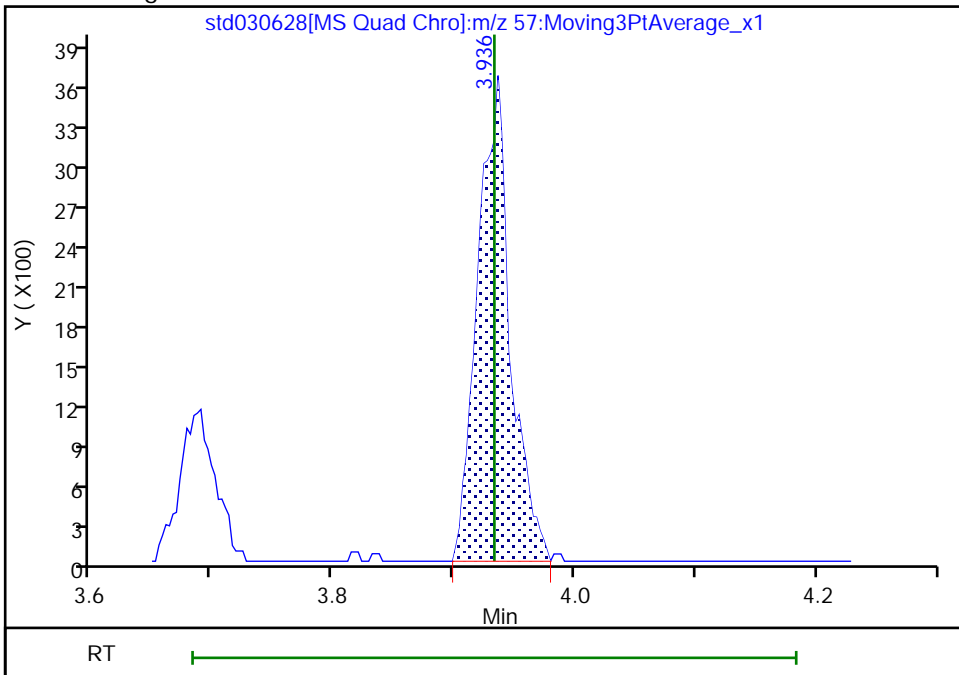
Not Detected
Expected RT: 3.93

Processing Integration Results



Manual Integration Results

RT: 3.94
Area: 6711
Amount: 1.058593
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:14:27
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

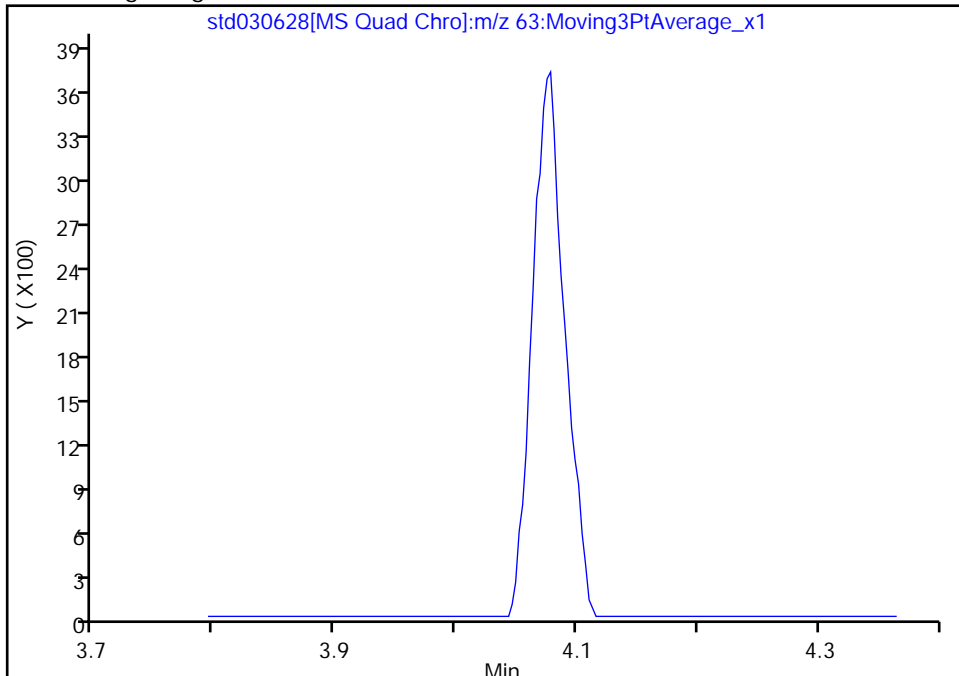
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

29 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

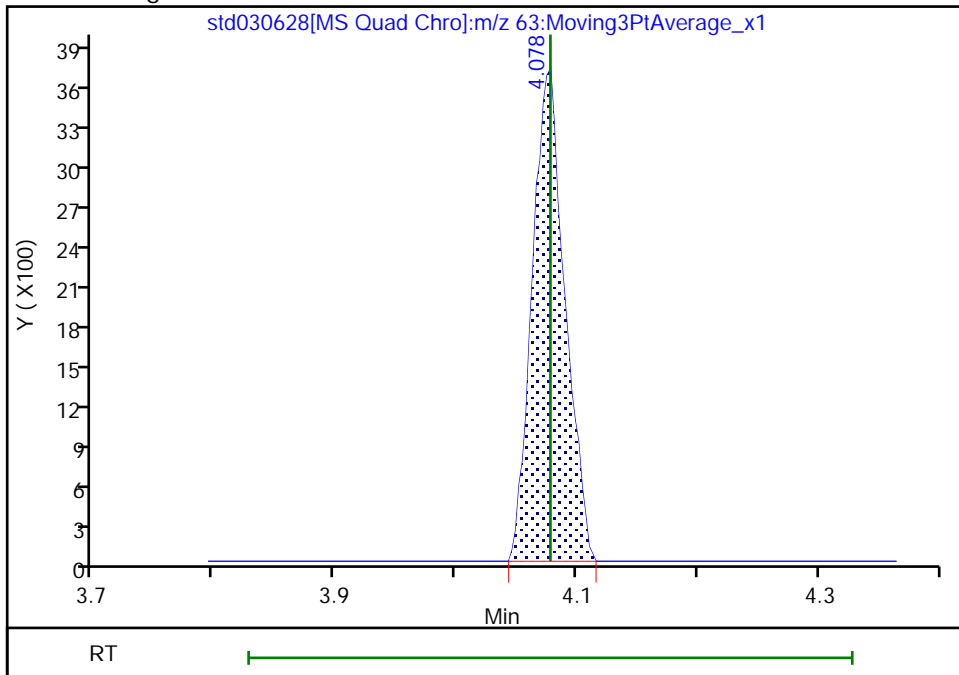
Not Detected
Expected RT: 4.08

Processing Integration Results



RT: 4.08
Area: 6898
Amount: 1.184301
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:14:16
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

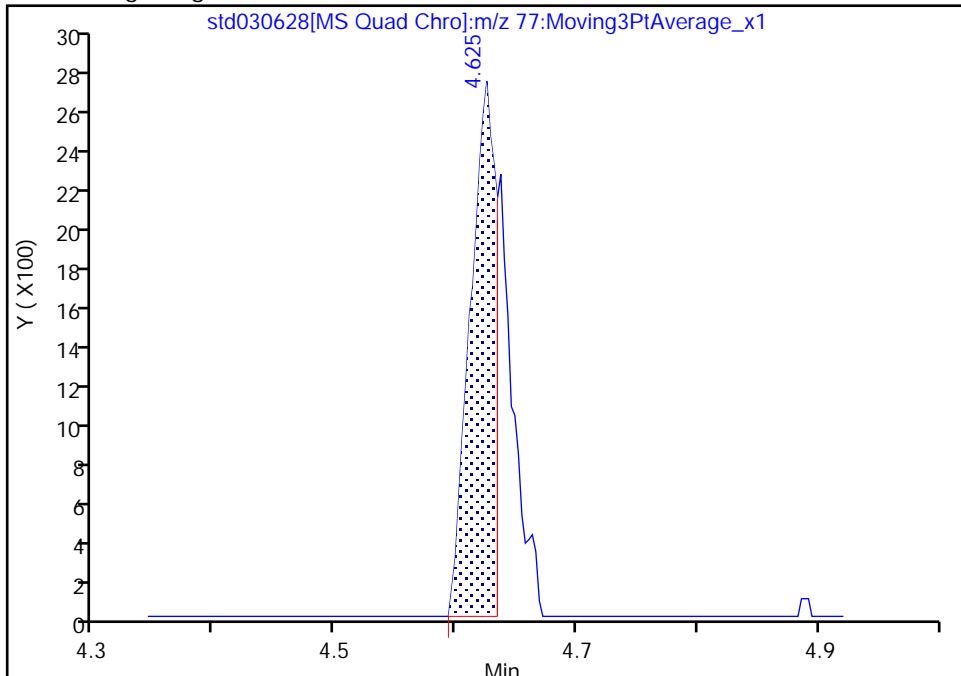
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

34 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

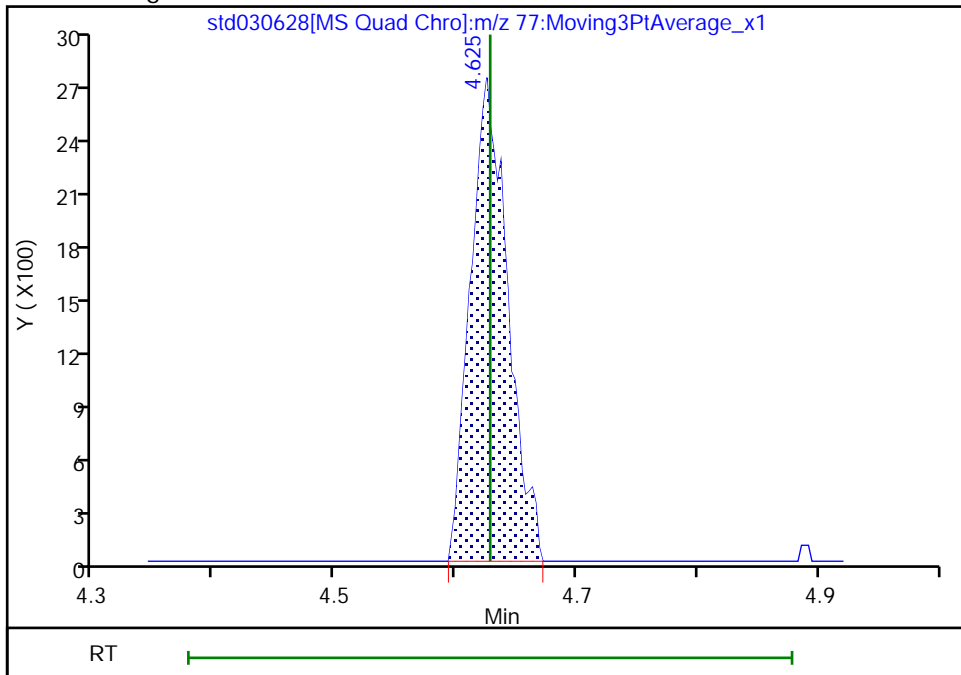
RT: 4.63
Area: 3980
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 4.63
Area: 5830
Amount: 1.195890
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:20:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

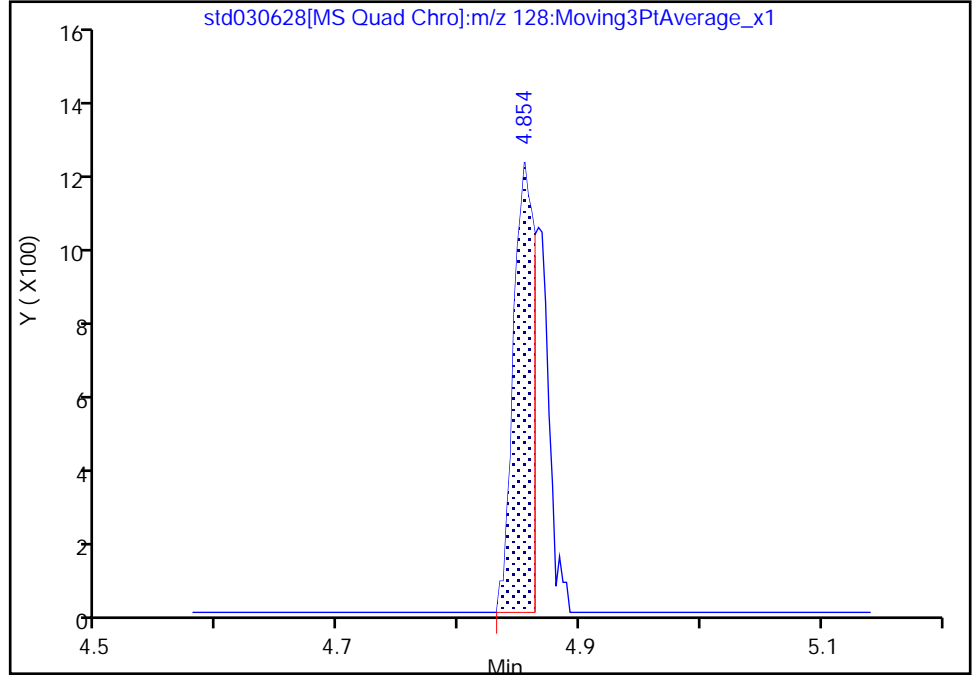
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

40 Chlorobromomethane, CAS: 74-97-5

Signal: 1

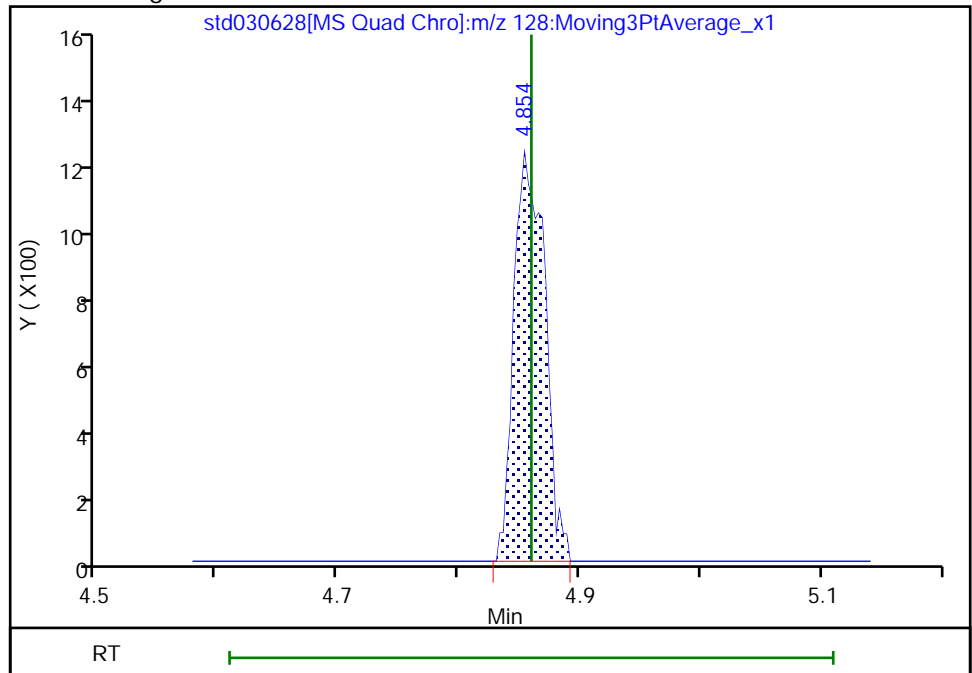
RT: 4.85
Area: 1372
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 4.85
Area: 2070
Amount: 1.158036
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:20:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

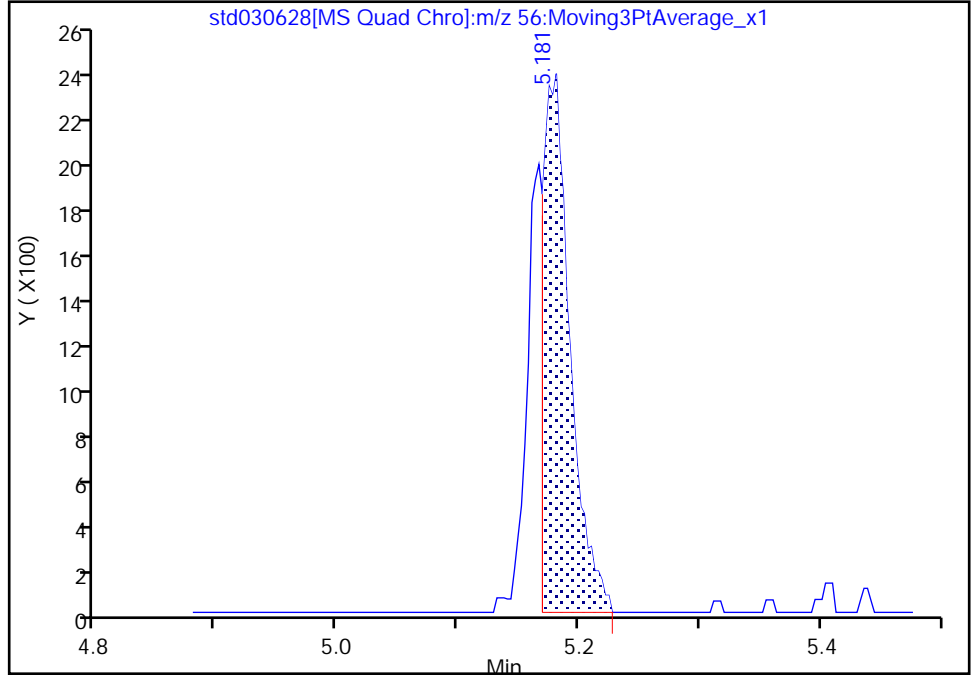
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

45 Cyclohexane, CAS: 110-82-7

Signal: 1

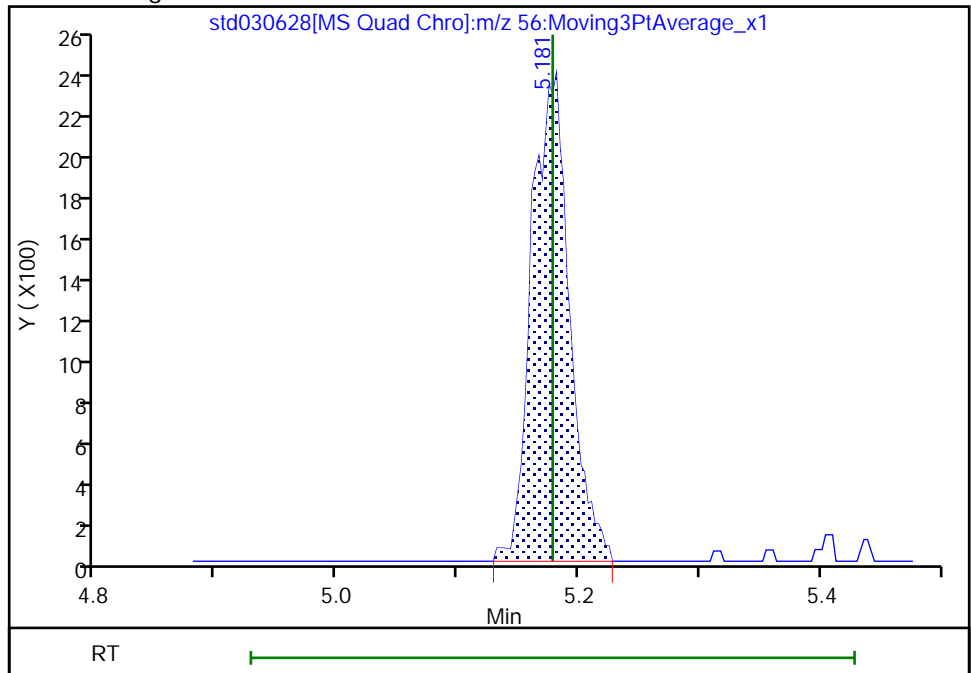
RT: 5.18
Area: 3636
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 5.18
Area: 5168
Amount: 1.124318
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:20:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

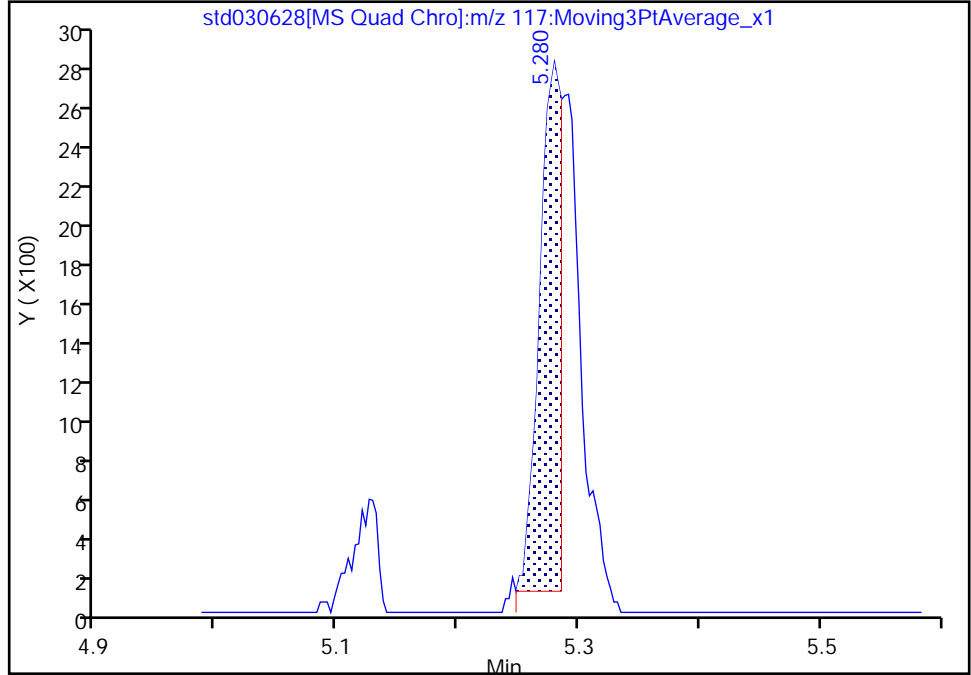
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

46 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

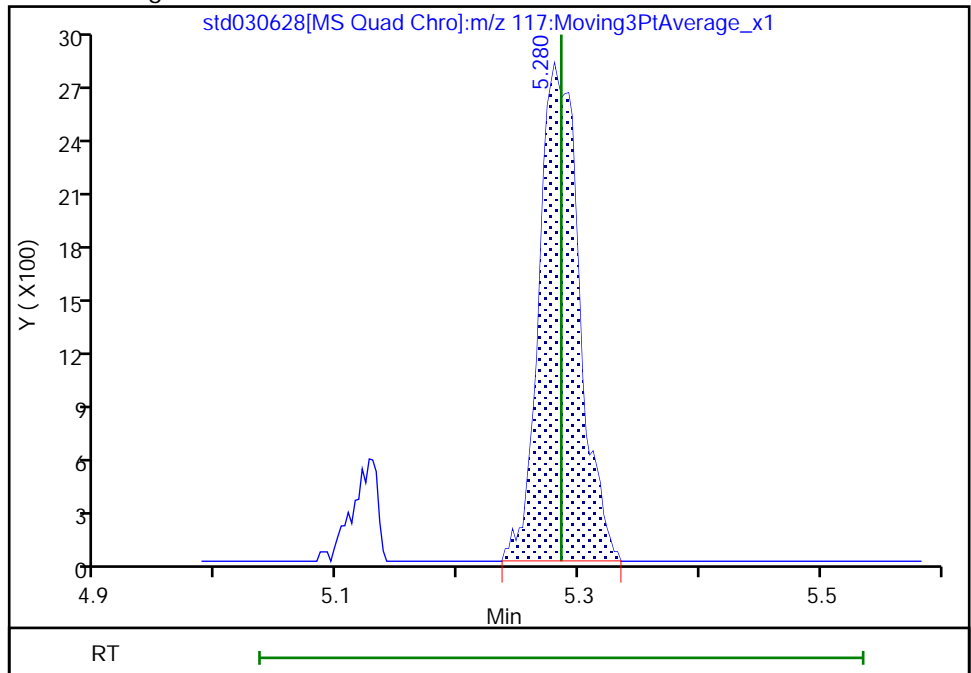
RT: 5.28
Area: 3316
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 5.28
Area: 6352
Amount: 1.101674
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:20:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

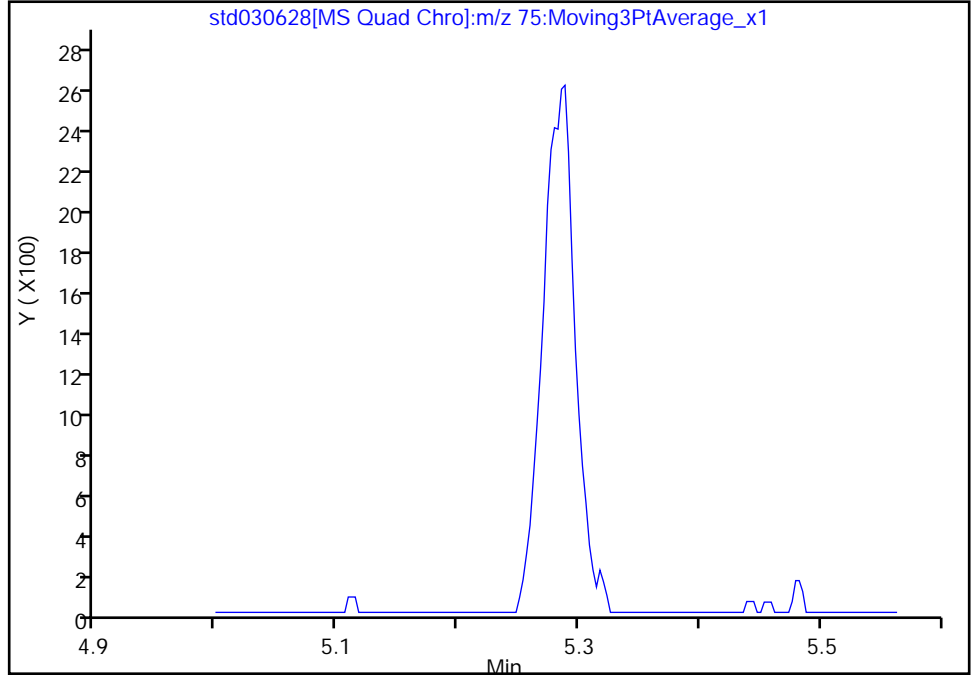
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

47 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

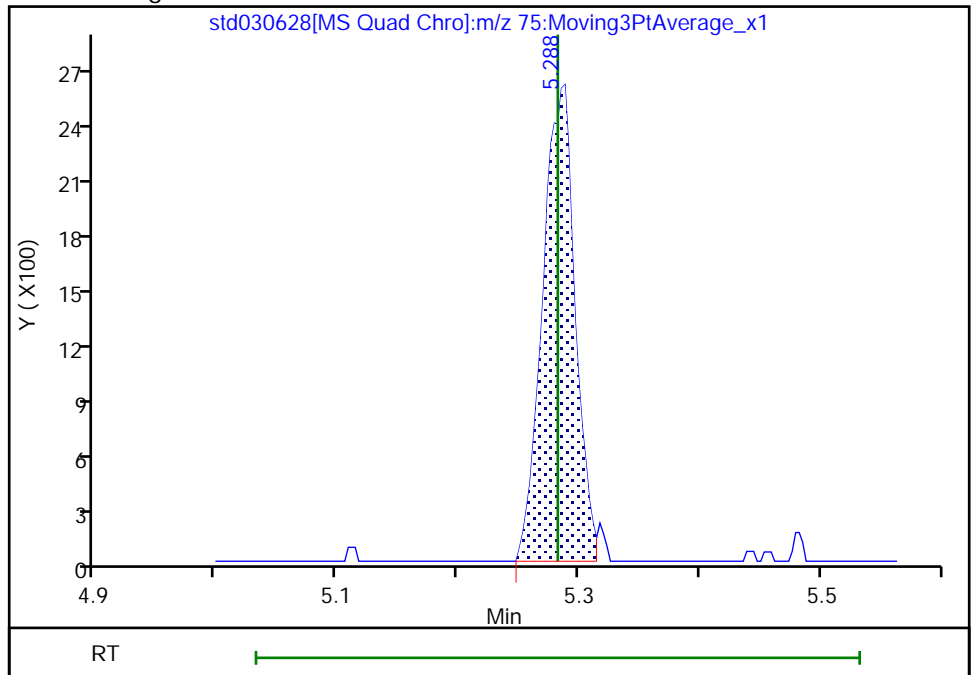
Not Detected
Expected RT: 5.28

Processing Integration Results



Manual Integration Results

RT: 5.29
Area: 4767
Amount: 1.048962
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:13:59
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

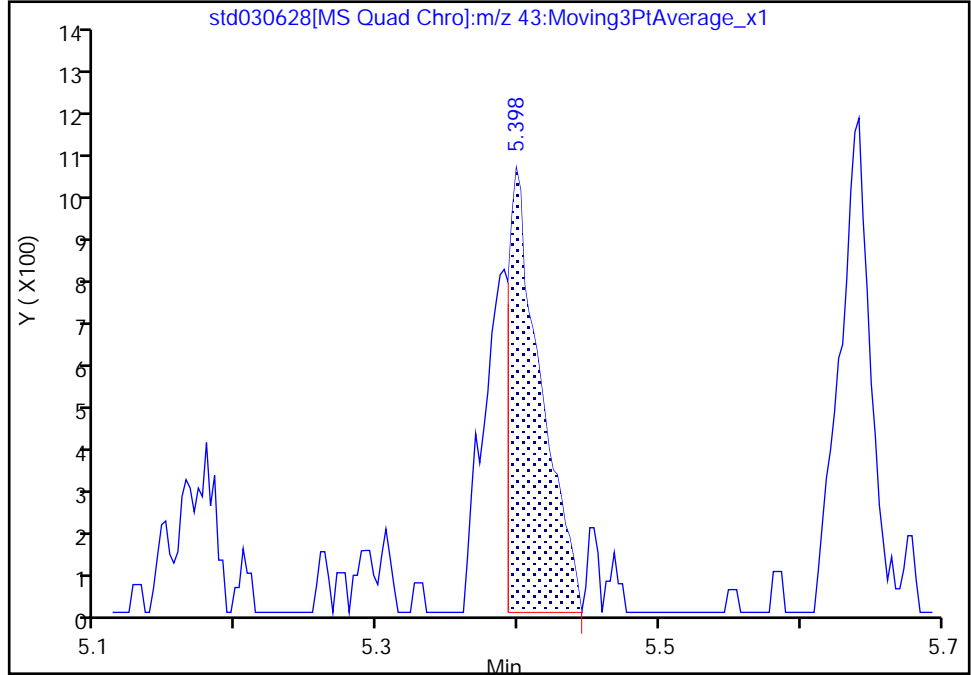
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

48 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

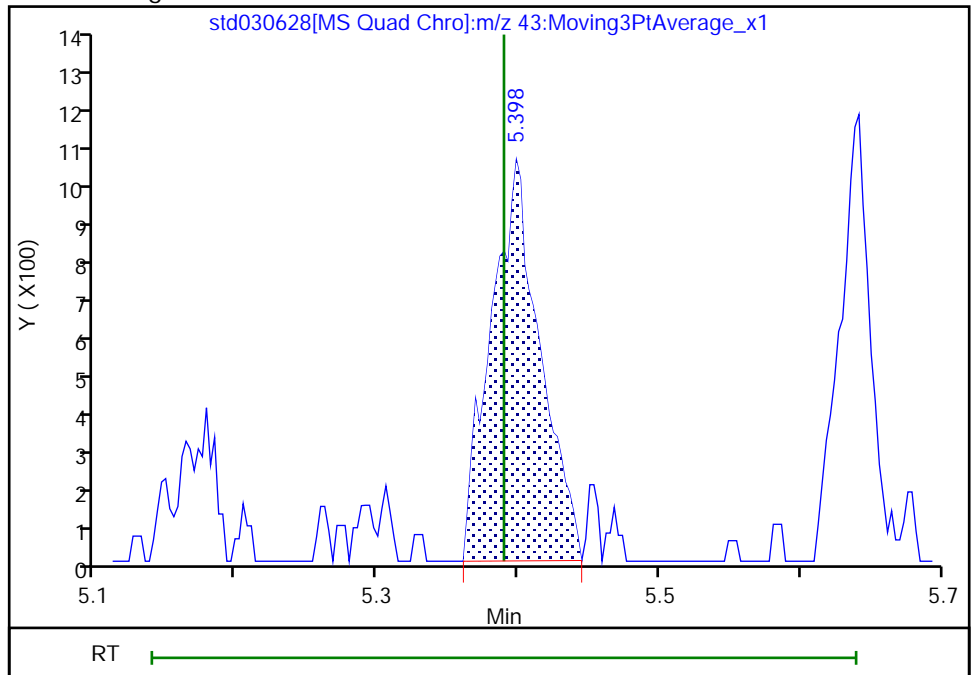
RT: 5.40
Area: 1652
Amount: 25.000000
Amount Units: ug/l

Processing Integration Results



RT: 5.40
Area: 2544
Amount: 29.345930
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:19:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

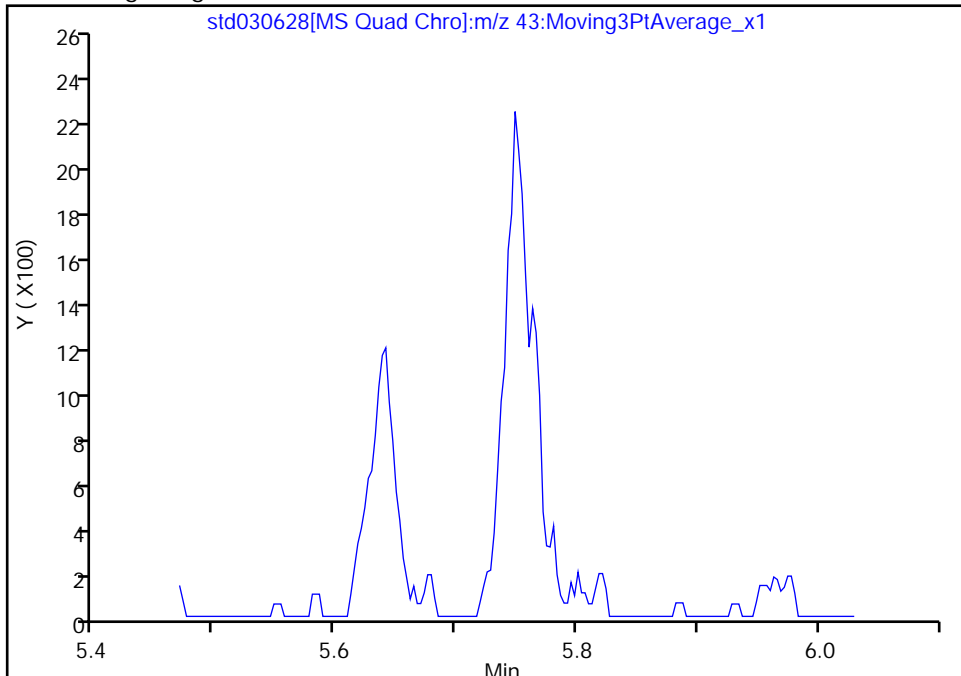
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

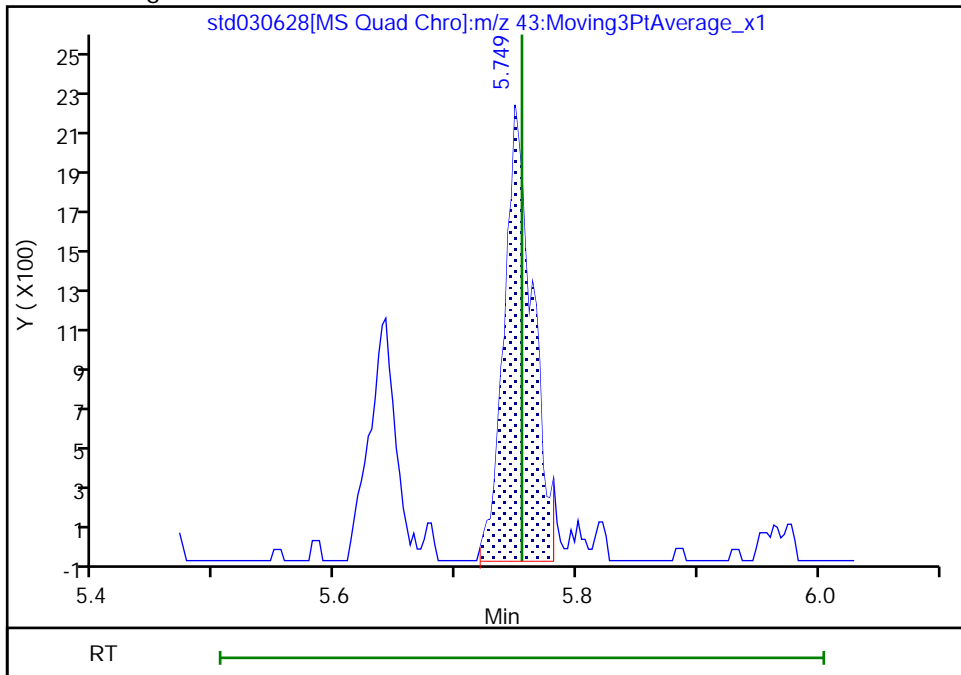
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 3615
Amount: 1.141741
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:13:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

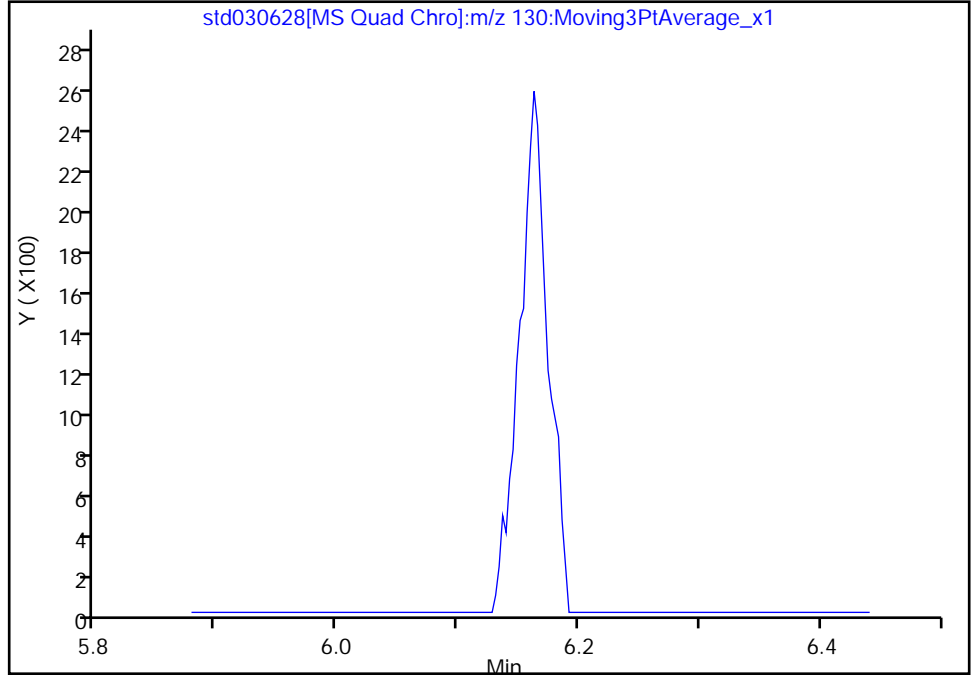
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

Signal: 1

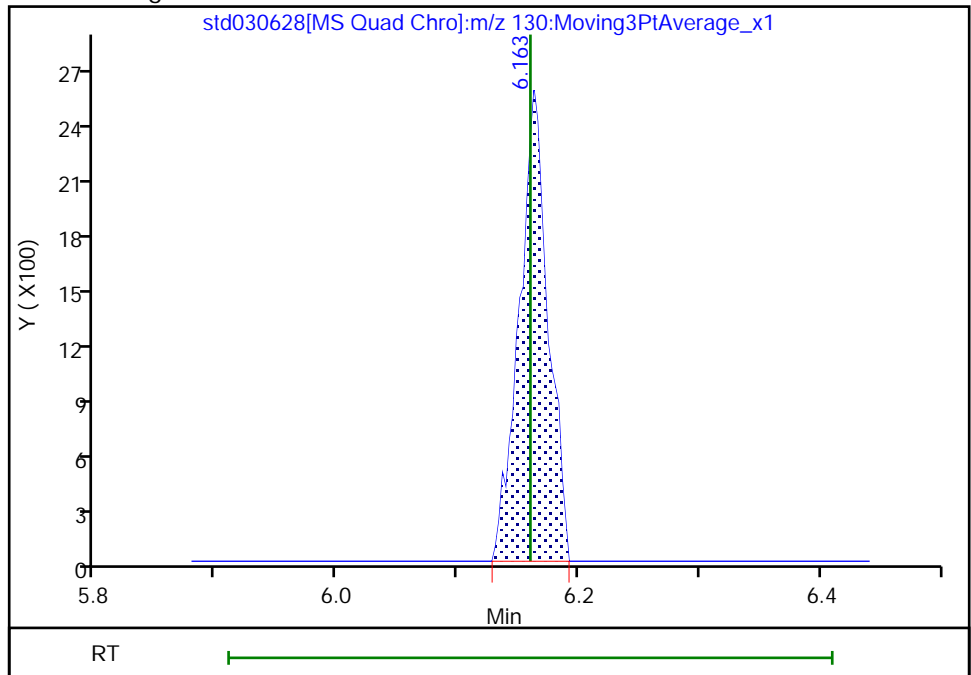
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.16
Area: 4144
Amount: 1.158050
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:17:29
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

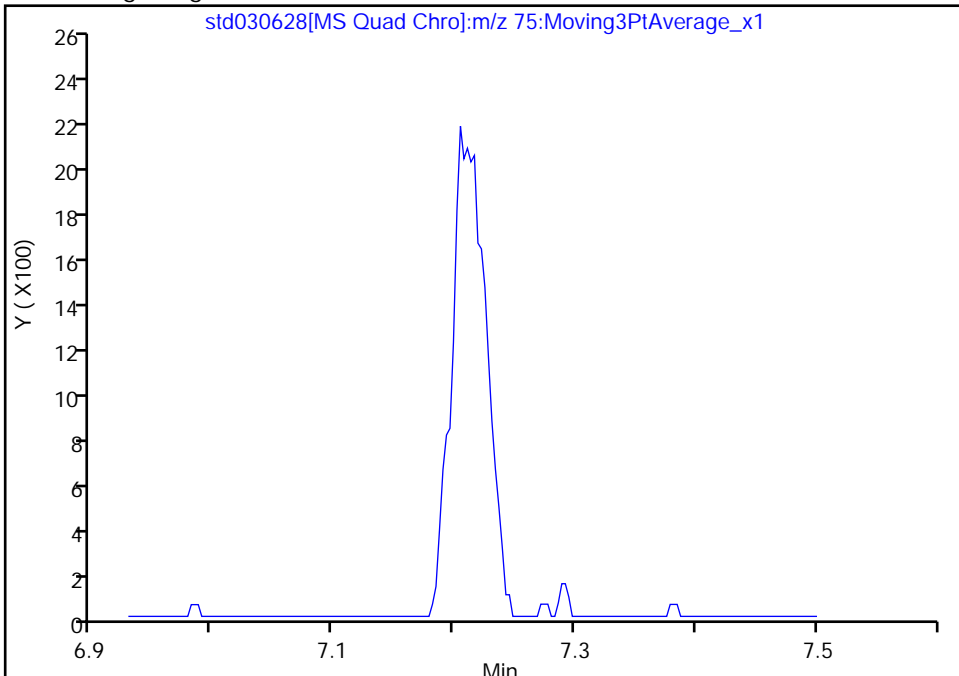
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

69 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

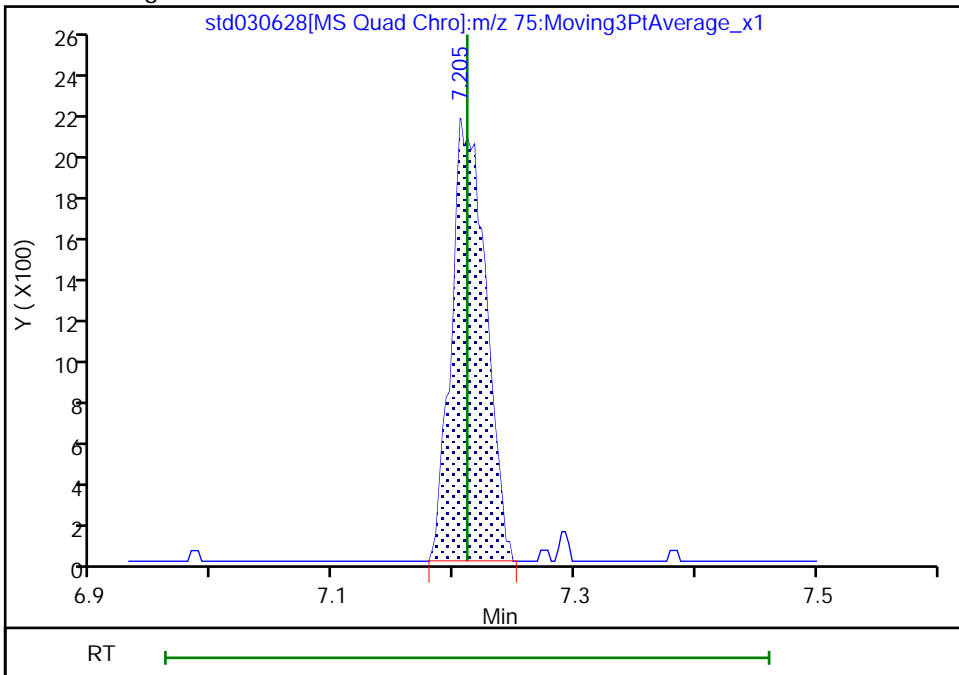
Processing Integration Results

Not Detected
Expected RT: 7.21



Manual Integration Results

RT: 7.21
Area: 4179
Amount: 0.947284
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:13:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

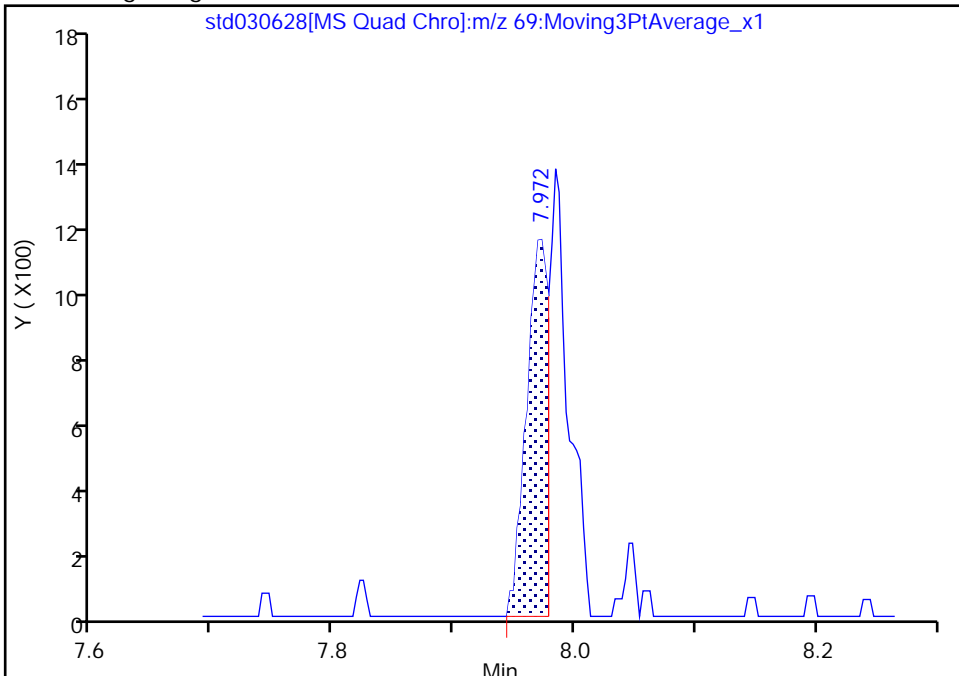
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

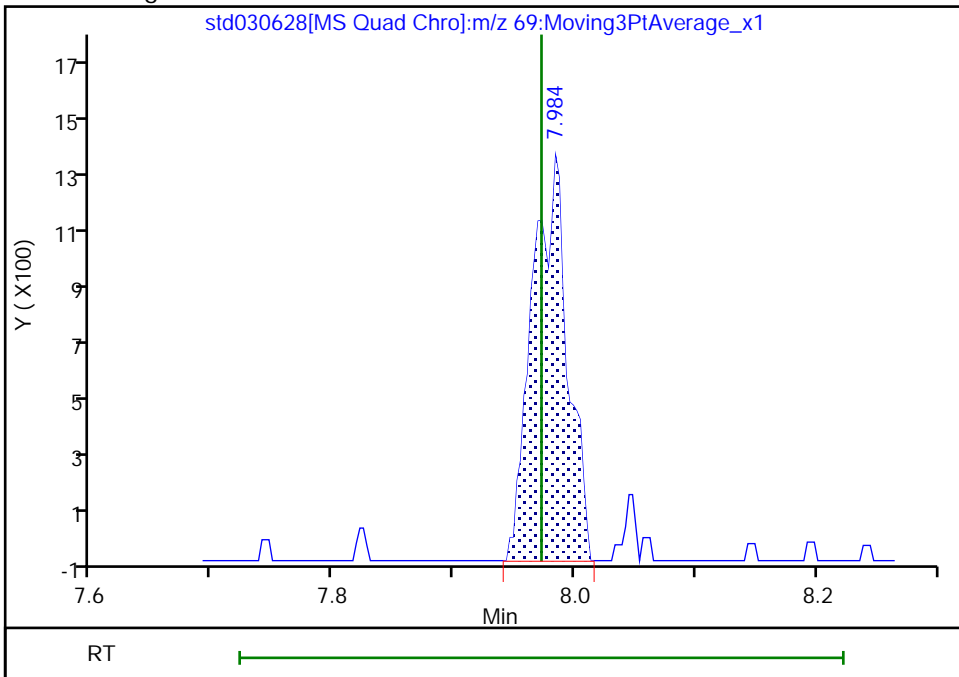
RT: 7.97
Area: 1415
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 7.98
Area: 2761
Amount: 1.038288
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:17:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

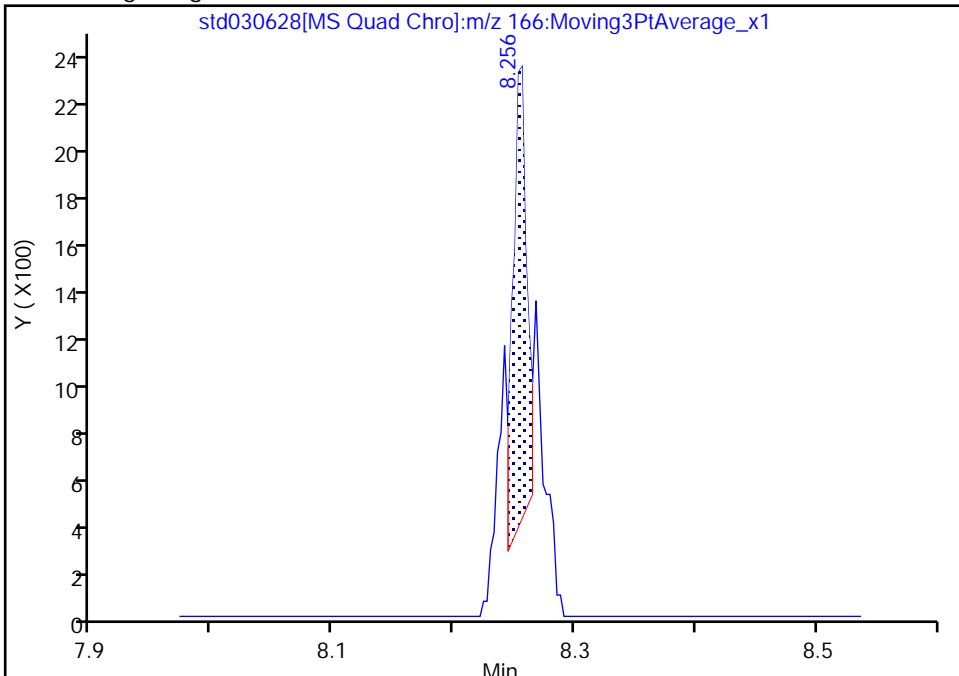
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4

Signal: 1

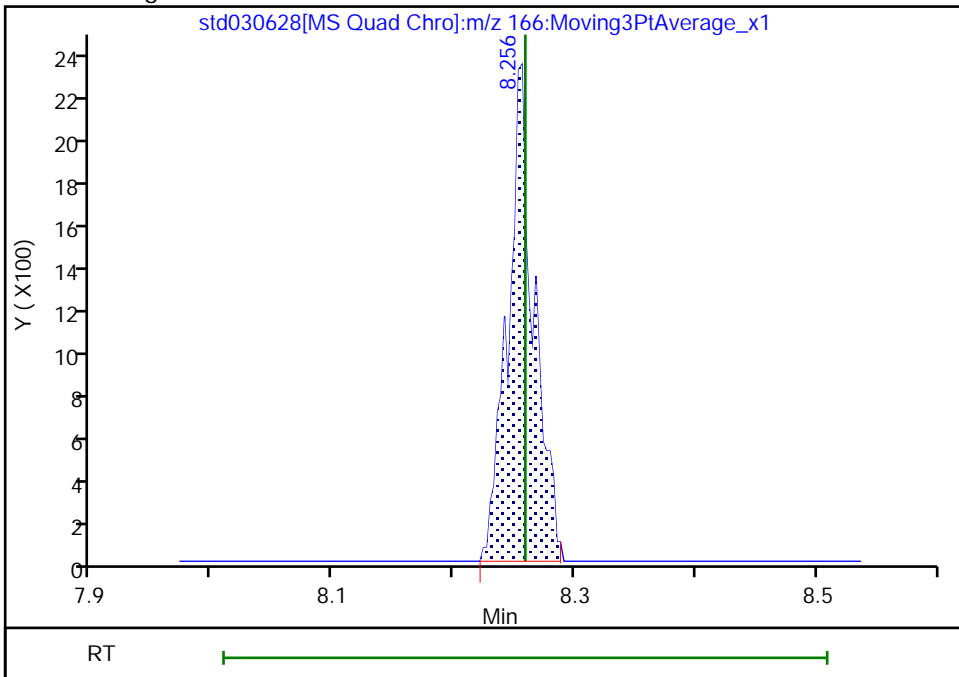
RT: 8.26
Area: 1524
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 3407
Amount: 0.985442
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:16:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

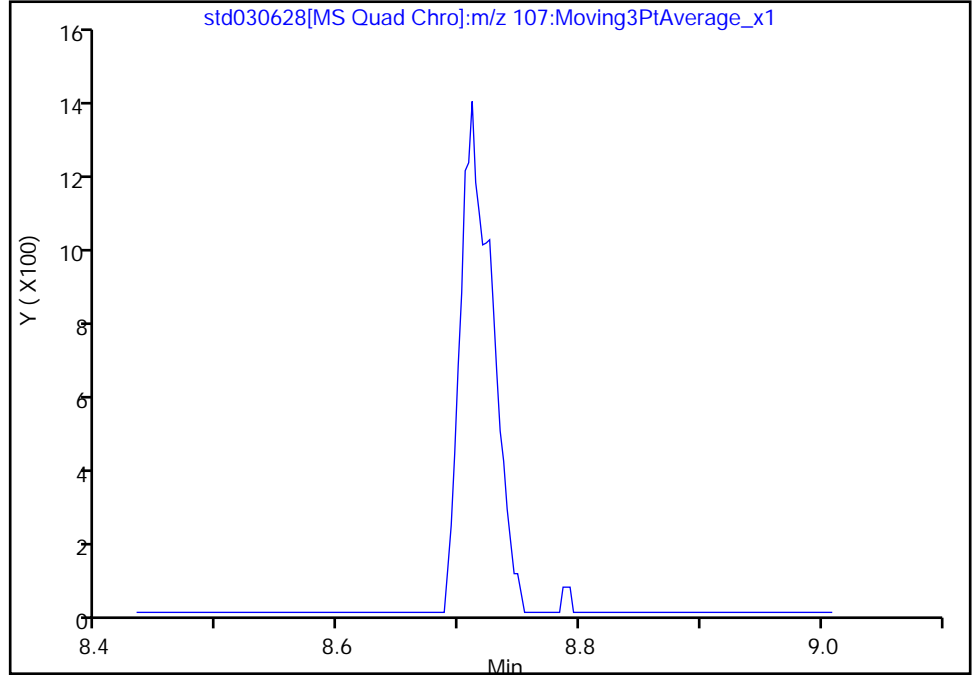
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

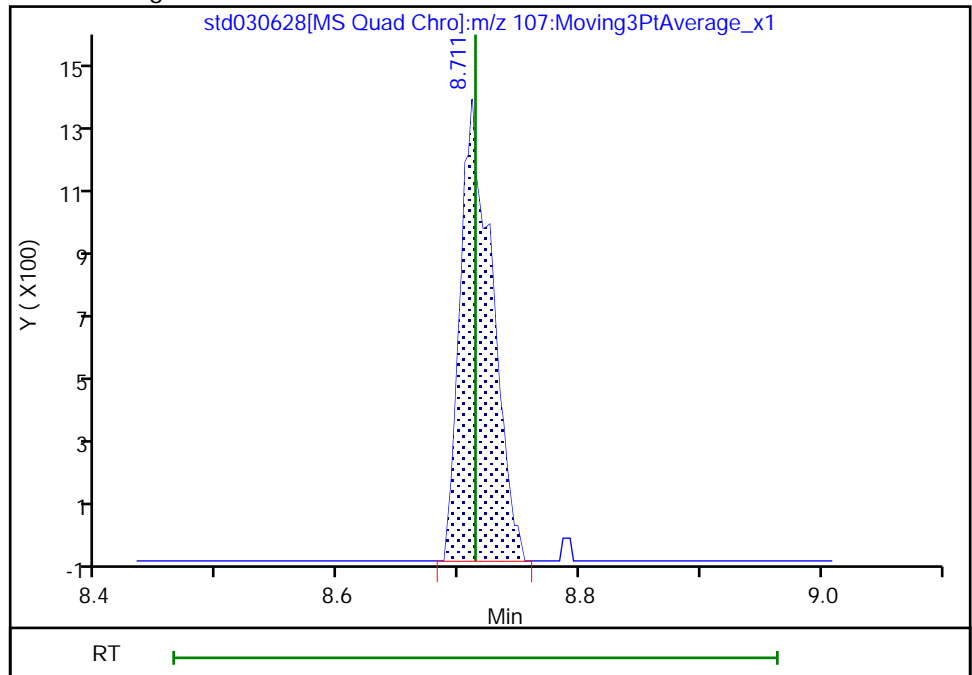
Not Detected
Expected RT: 8.71

Processing Integration Results



Manual Integration Results

RT: 8.71
Area: 2550
Amount: 1.064228
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:13:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

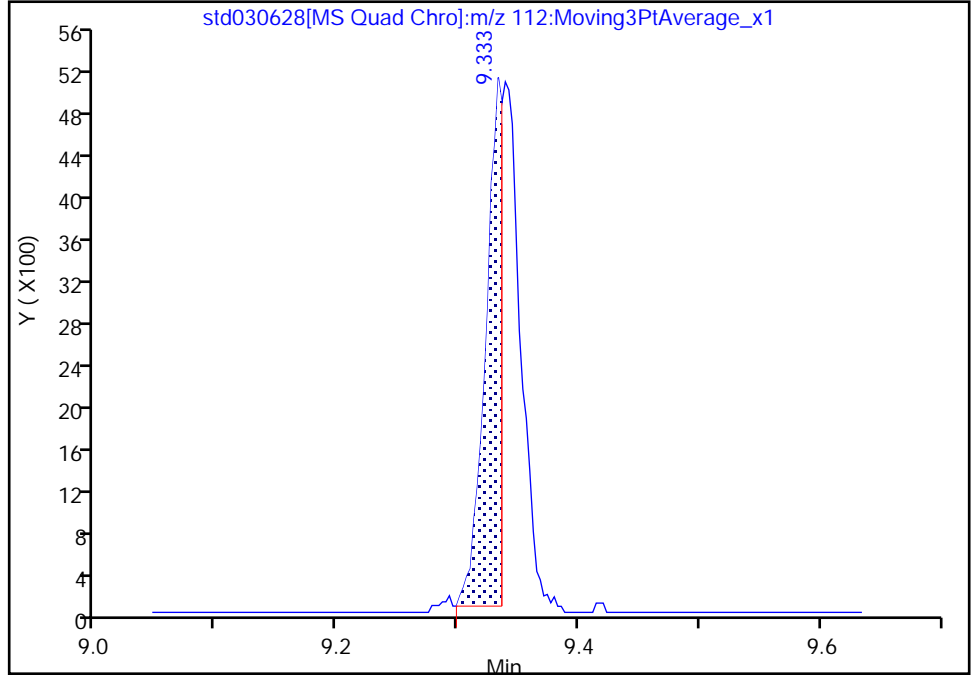
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

84 Chlorobenzene, CAS: 108-90-7

Signal: 1

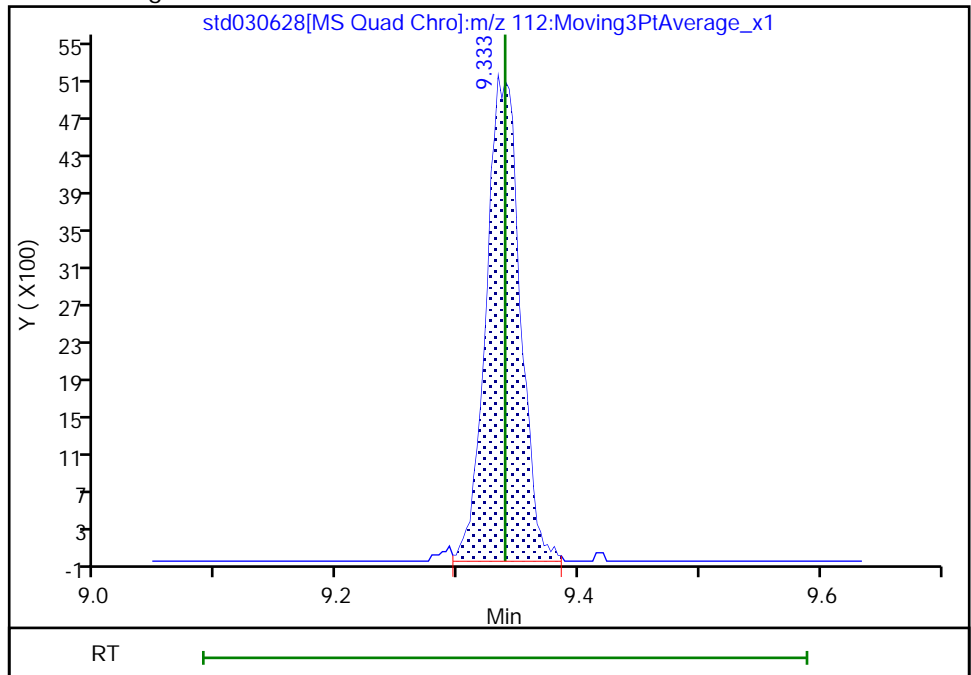
RT: 9.33
Area: 4855
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 9.33
Area: 10007
Amount: 1.120458
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:16:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

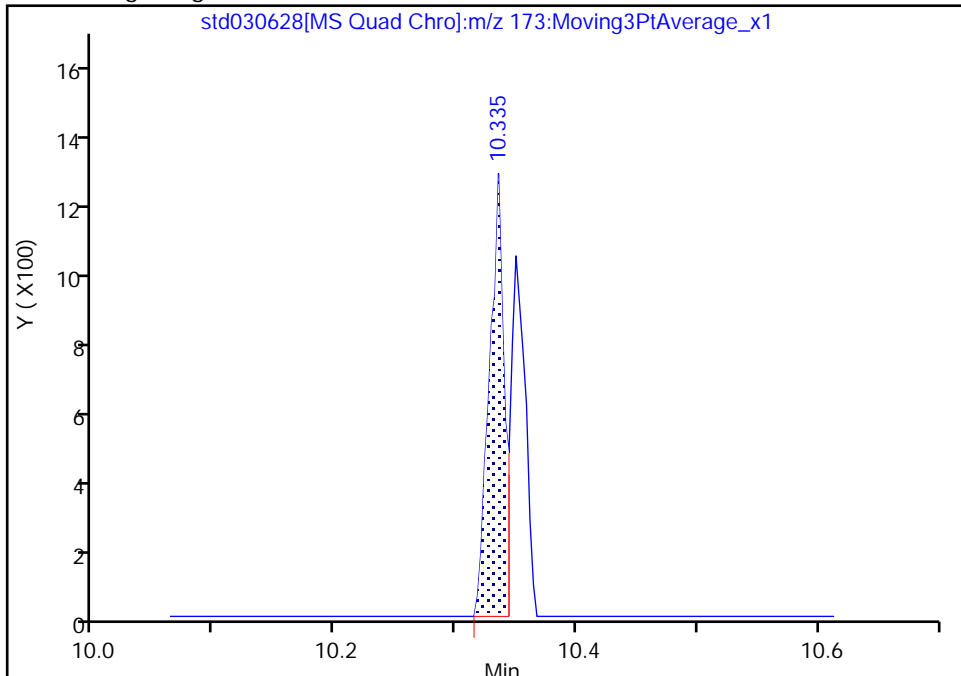
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

90 Bromoform, CAS: 75-25-2

Signal: 1

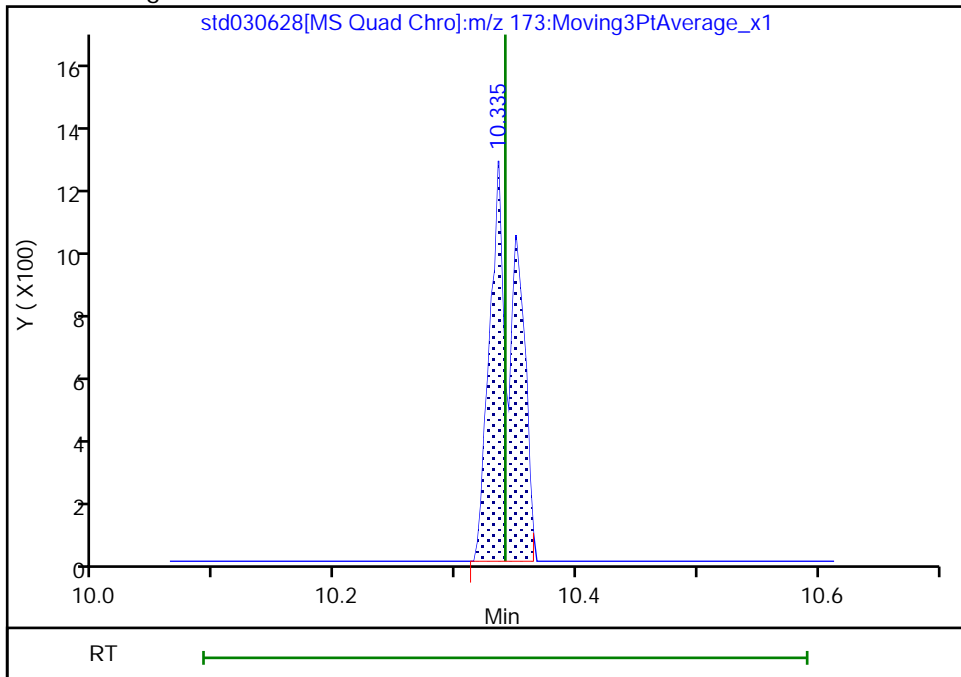
RT: 10.34
Area: 1079
Amount: 1.000000
Amount Units: ug/l

Processing Integration Results



RT: 10.34
Area: 1851
Amount: 0.880518
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 10:16:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

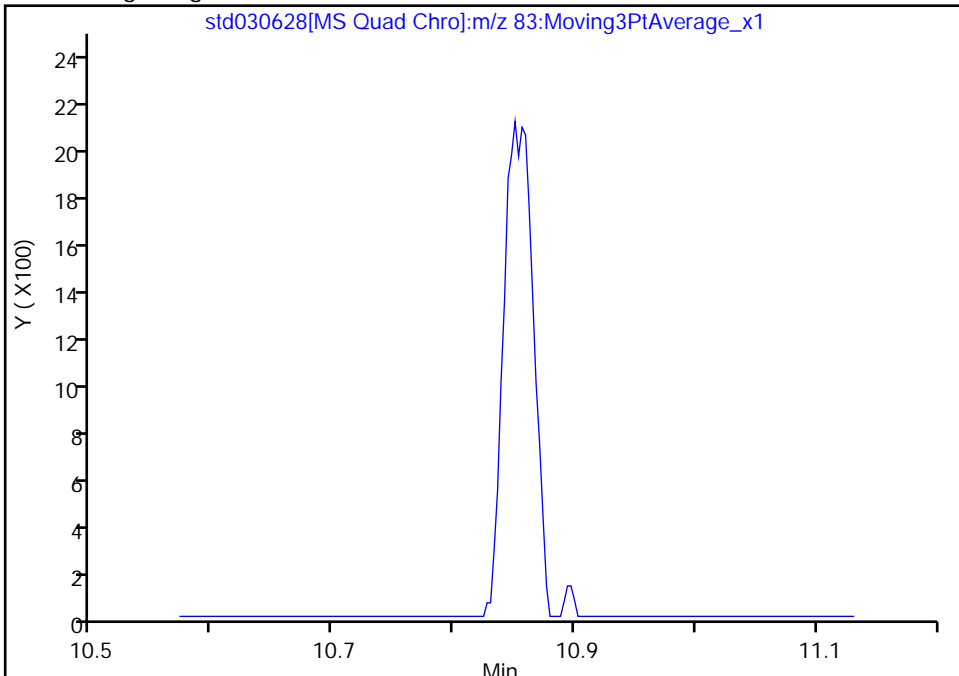
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

96 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

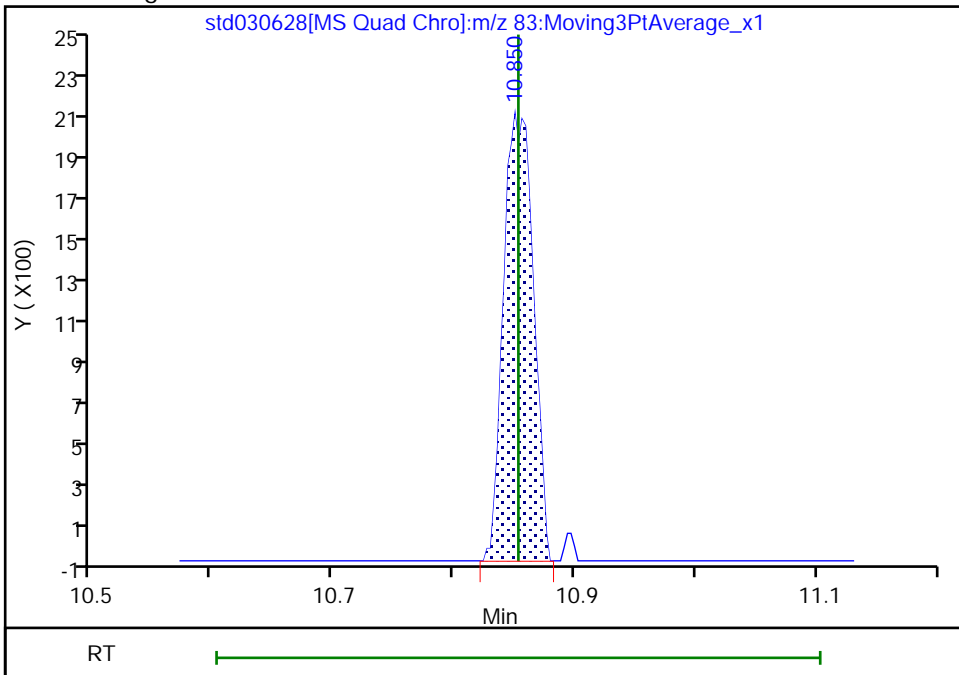
Not Detected
Expected RT: 10.85

Processing Integration Results



Manual Integration Results

RT: 10.85
Area: 3620
Amount: 1.221783
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 10:13:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

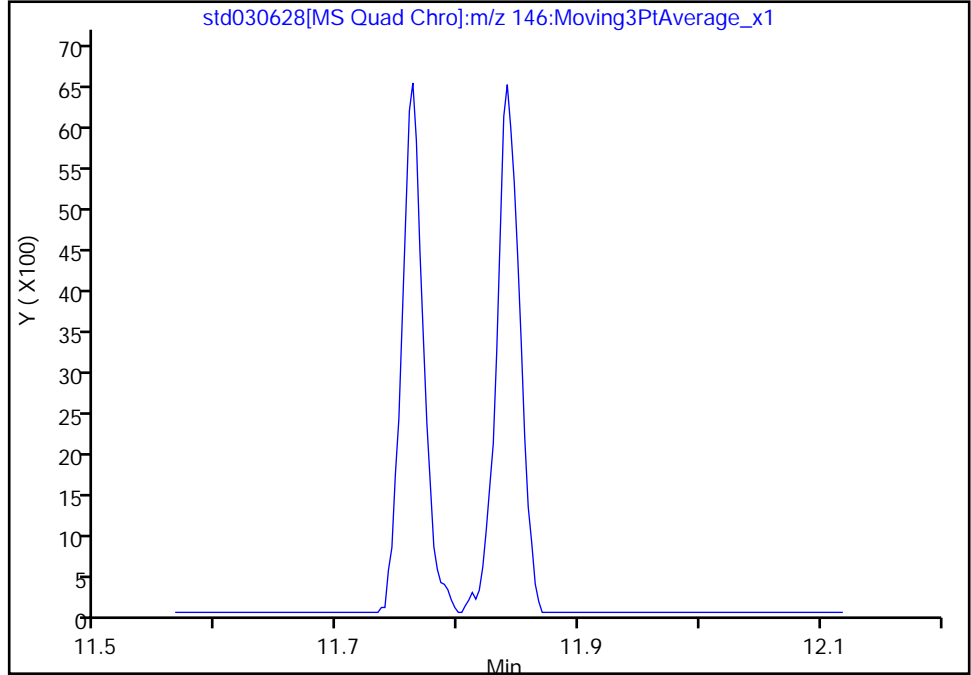
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
Lims ID: STD03
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

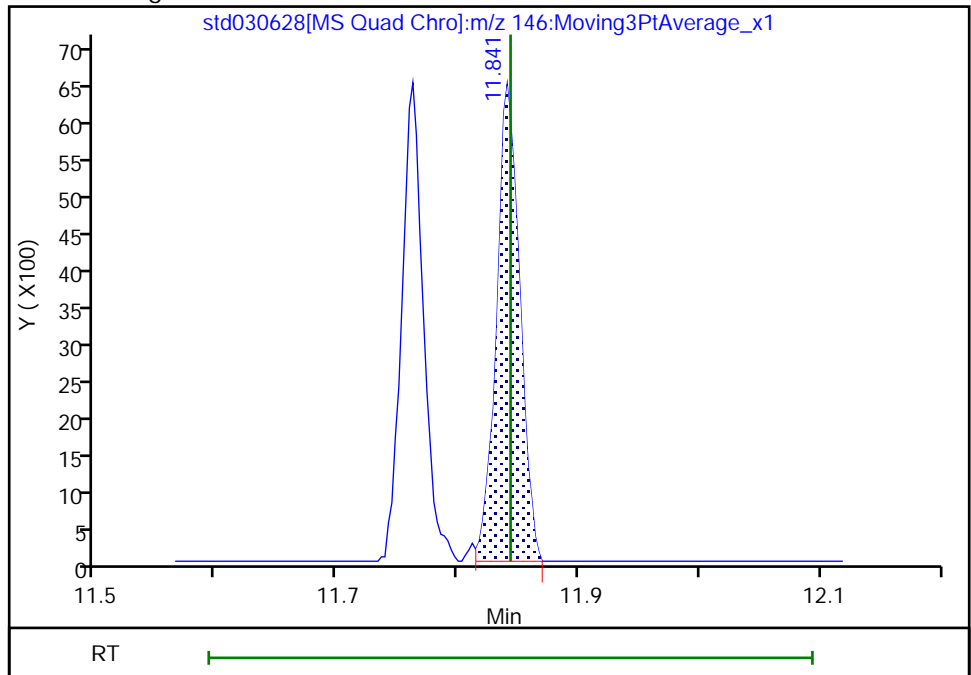
Processing Integration Results

Not Detected
Expected RT: 11.84



Manual Integration Results

RT: 11.84
Area: 8635
Amount: 1.158420
Amount Units: ug/l

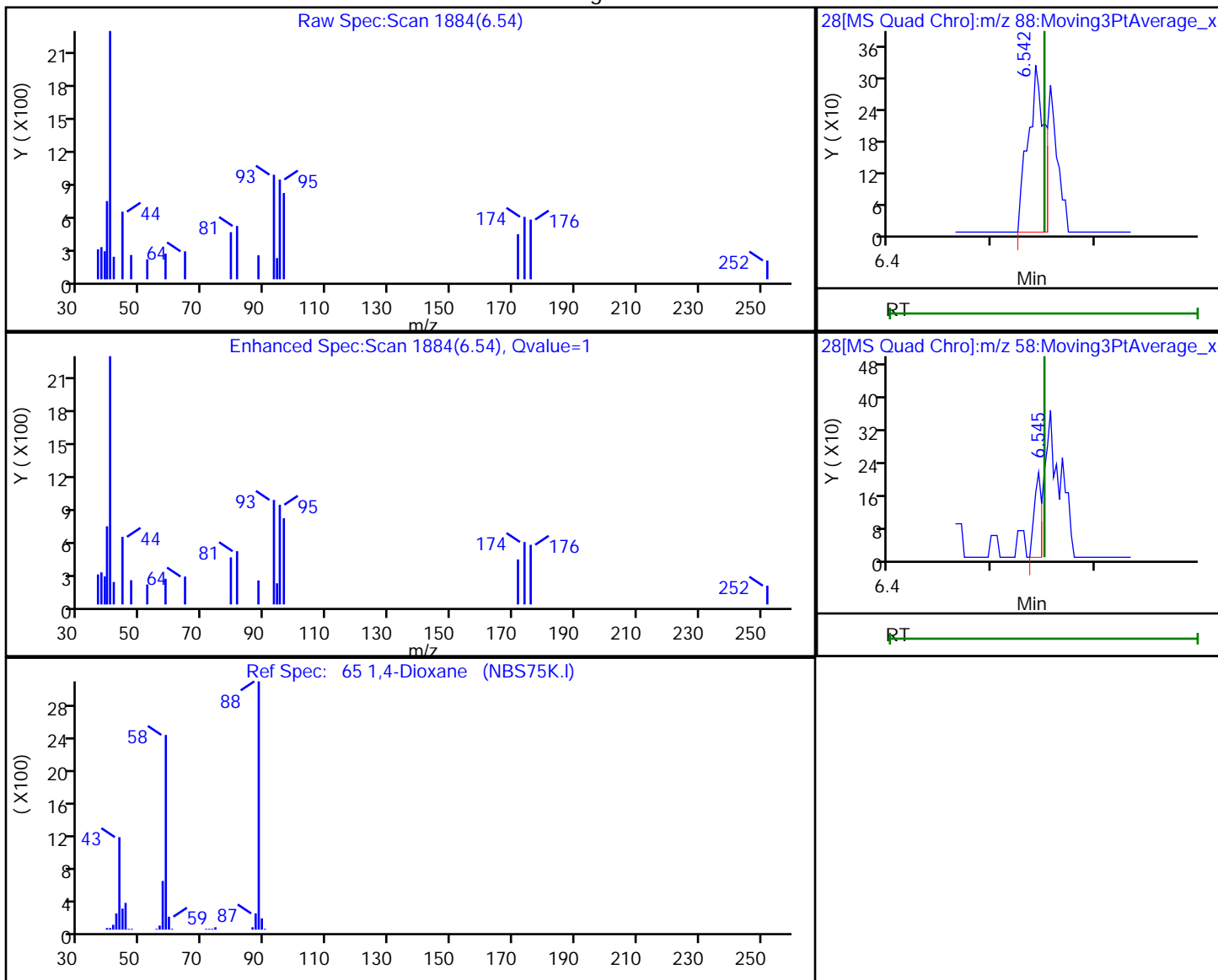


Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
 Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
 Lims ID: STD03
 Client ID:
 Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.54	88.00	345	20.000000
6.54	58.00	101	

Reviewer: BQP0, 28-Jun-2022 10:17:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D

Injection Date: 28-Jun-2022 09:32:34

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

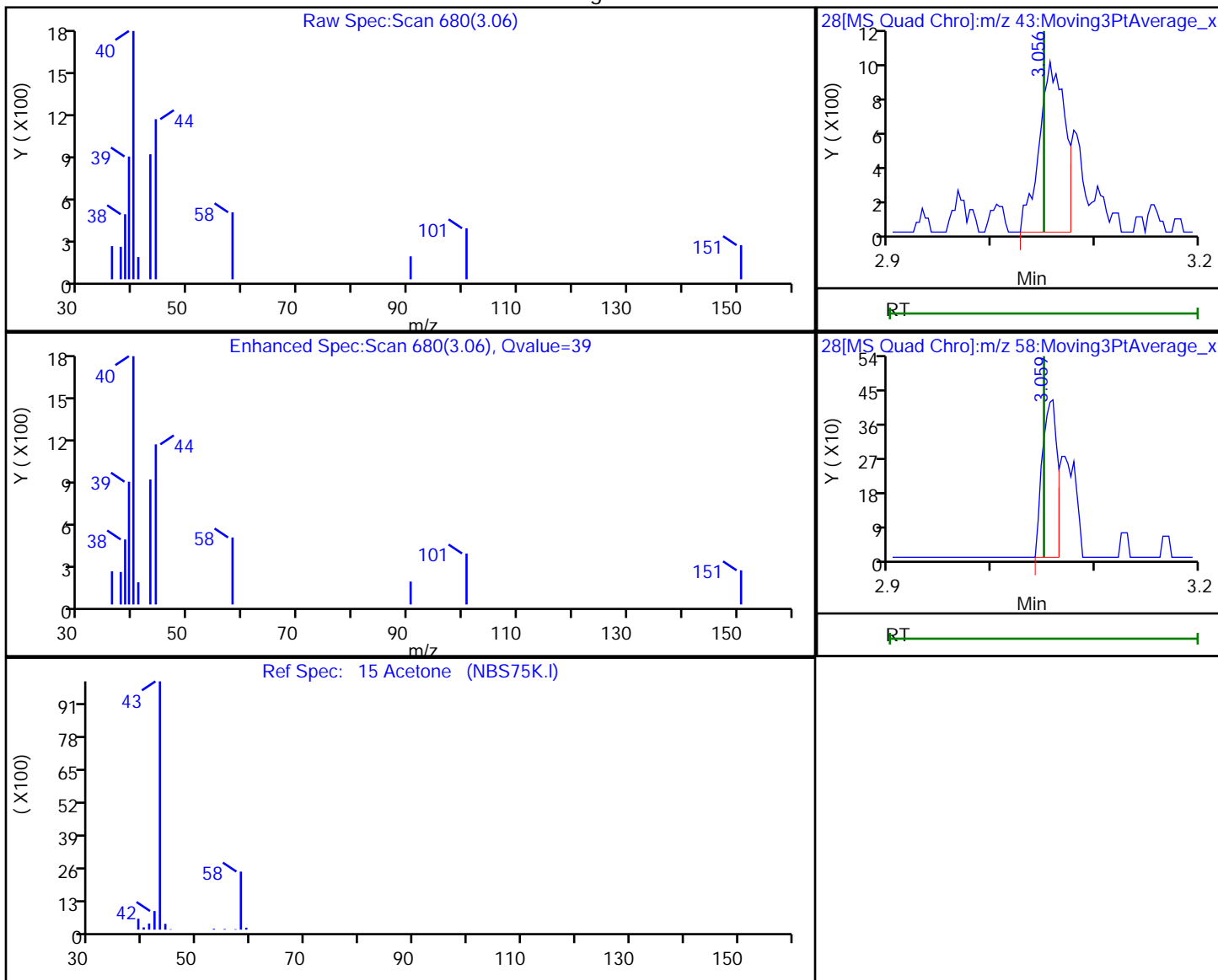
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.06	43.00	1635	1.000000
3.06	58.00	419	

Reviewer: BQP0, 28-Jun-2022 10:21:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D

Injection Date: 28-Jun-2022 09:32:34

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

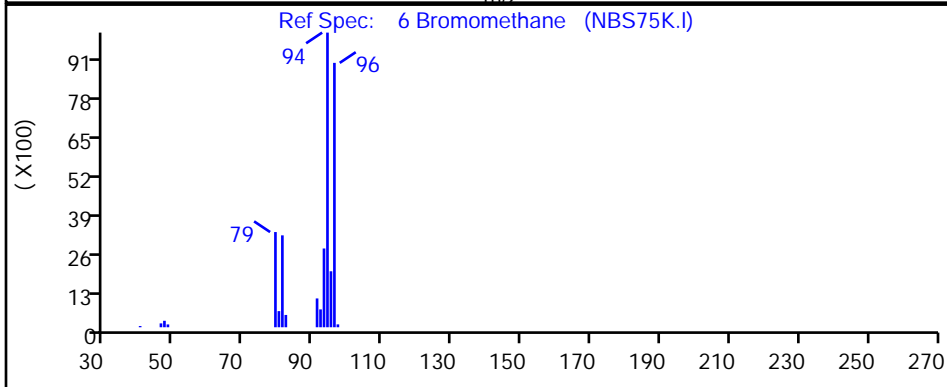
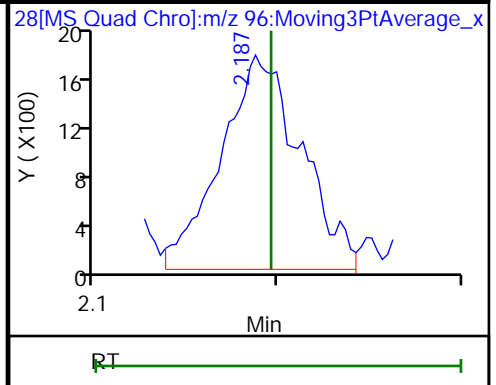
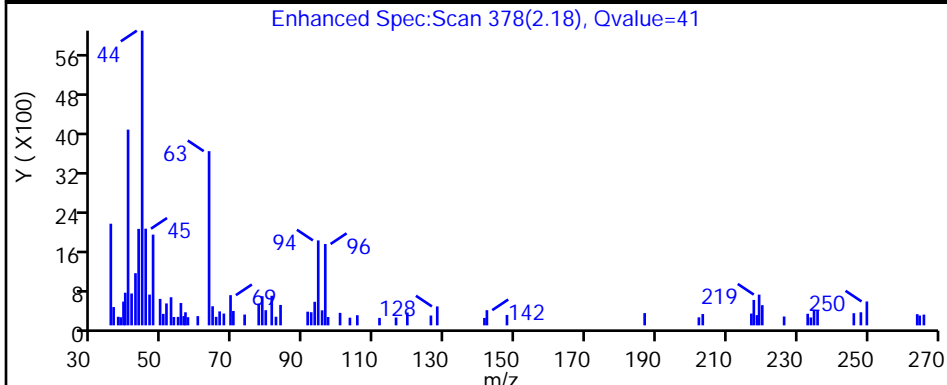
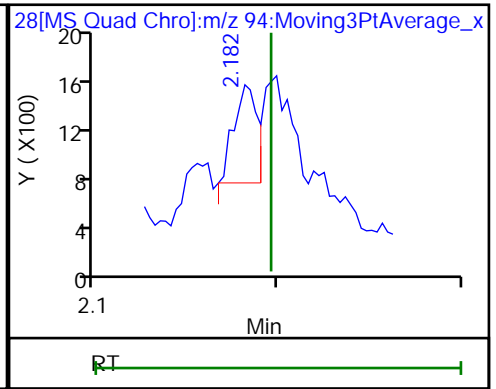
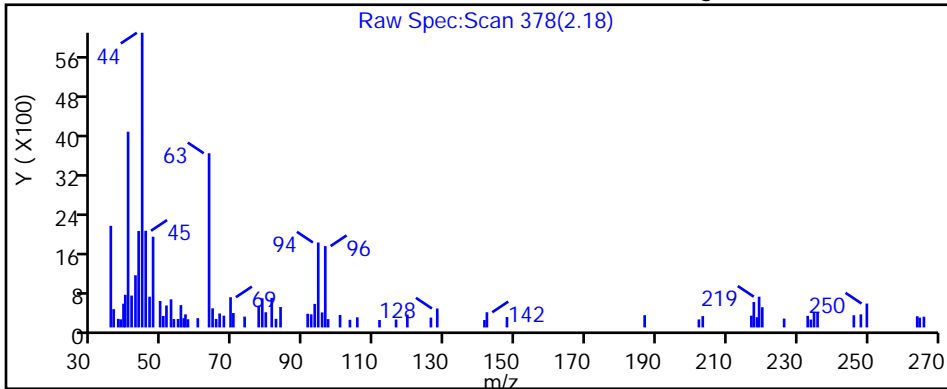
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.18	94.00	726	1.000000
2.19	96.00	5418	

Reviewer: BQP0, 28-Jun-2022 11:14:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D

Injection Date: 28-Jun-2022 09:32:34

Instrument ID: CMS29

Lims ID: STD03

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

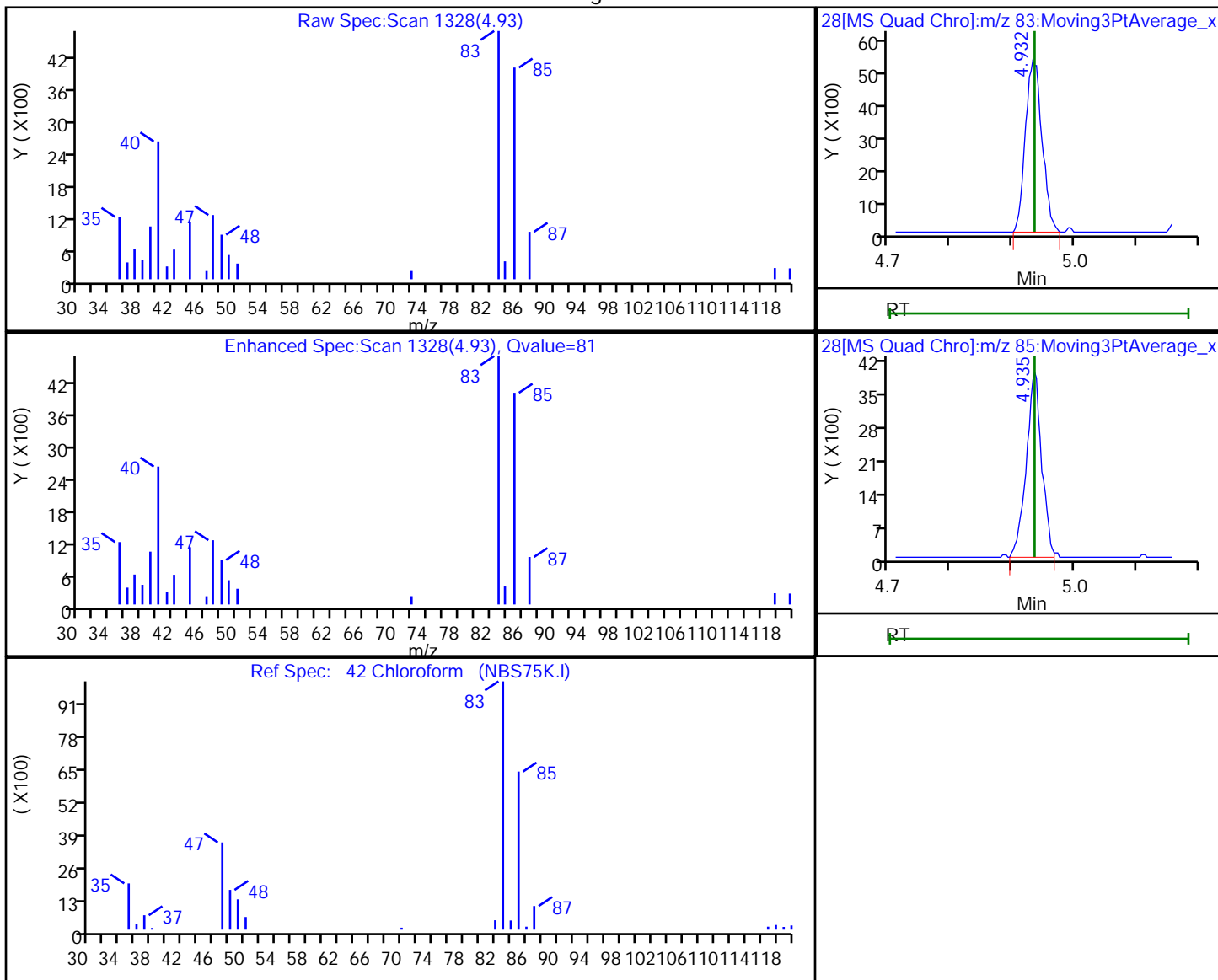
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
4.93	83.00	10025	0.850136
4.94	85.00	6761	

Reviewer: BQP0, 28-Jun-2022 19:32:32

Audit Action: Marked Compound Undetected

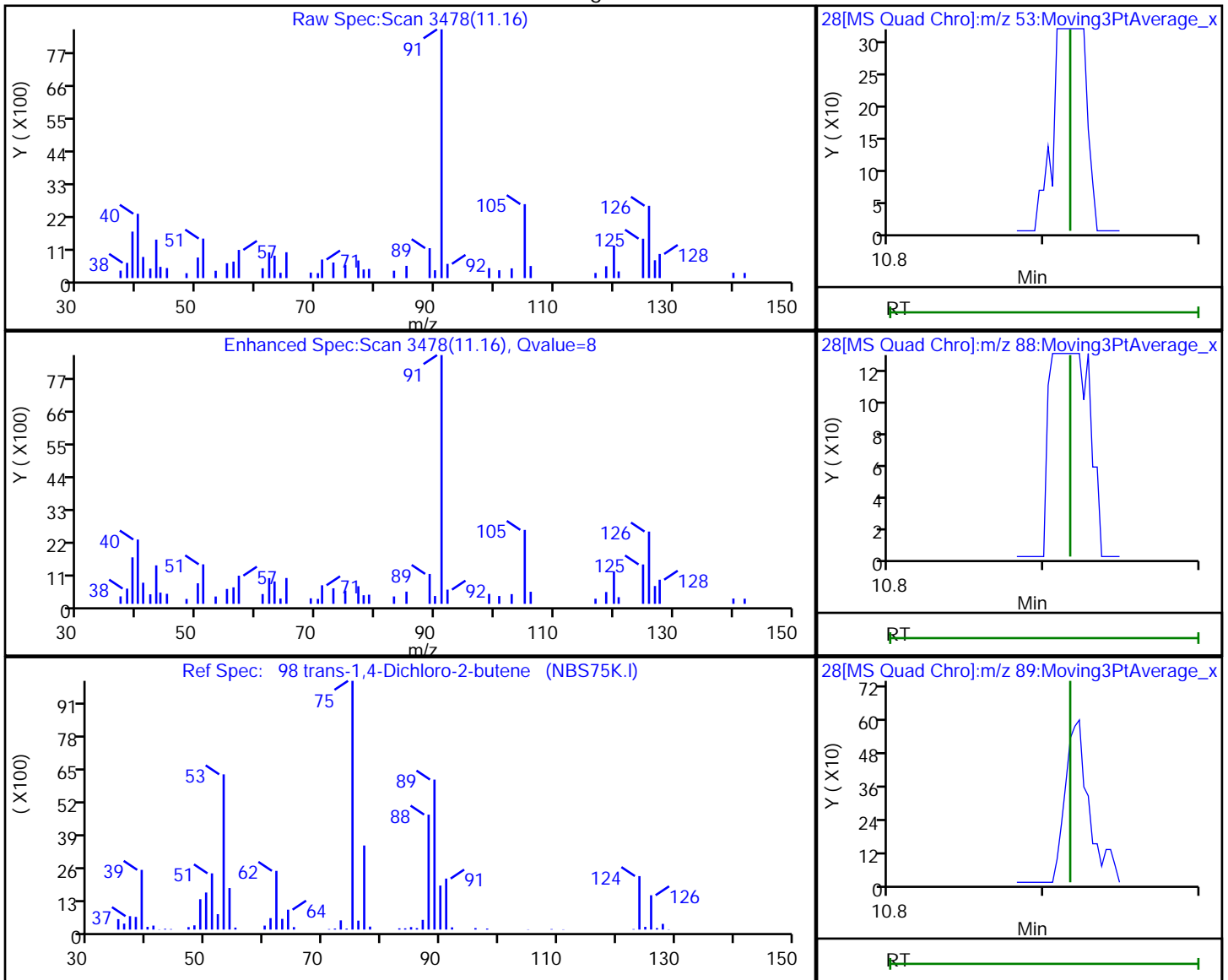
Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std030628.D
 Injection Date: 28-Jun-2022 09:32:34 Instrument ID: CMS29
 Lims ID: STD03
 Client ID:
 Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
11.16	53.00	102	1.000000
11.16	88.00	22	
11.15	89.00	1775	

Reviewer: BQP0, 28-Jun-2022 10:16:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 28-Jun-2022 09:56:13 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std04
 Misc. Info.: 500-0086672-005
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:03 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 11:21:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.597	1.588	0.009	58	9079	2.00	2.24	a
2 Chloromethane	50	1.794	1.796	-0.002	30	5669	2.00	2.04	
3 Vinyl chloride	62	1.904	1.907	-0.002	63	6276	2.00	1.94	a
4 Butadiene	39	1.909	1.915	-0.006	89	6505	2.00	2.38	M
6 Bromomethane	94	2.190	2.196	-0.006	70	11255	2.00	1.56	
7 Chloroethane	64	2.266	2.268	-0.002	74	7810	2.00	2.09	
8 Dichlorofluoromethane	67	2.488	2.494	-0.006	55	15782	2.00	2.22	M
9 Trichlorofluoromethane	101	2.497	2.497	0.000	59	16673	2.00	2.19	M
11 Ethyl ether	59	2.787	2.790	-0.003	74	4226	2.00	1.96	
12 Acrolein	56	2.908	2.908	0.000	92	17799	80.0	77.6	
13 1,1-Dichloroethene	96	2.992	2.989	0.003	86	7051	2.00	1.92	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.015	3.013	0.002	61	9340	2.00	2.09	M
16 Iodomethane	142	3.125	3.128	-0.003	95	14179	2.00	2.05	a
17 Carbon disulfide	76	3.192	3.189	0.003	93	25669	2.00	2.13	
20 3-Chloro-1-propene	76	3.328	3.322	0.006	79	4510	2.00	2.14	Ma
21 Methyl acetate	43	3.351	3.345	0.006	78	5777	4.00	4.46	
* 23 TBA-d9 (IS)	65	3.482	3.482	0.000	0	215818	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.557	0.003	74	4865	20.0	20.9	a
25 Acrylonitrile	53	3.673	3.664	0.009	94	14370	20.0	20.7	
26 trans-1,2-Dichloroethene	96	3.687	3.687	0.000	86	8374	2.00	2.06	
27 Methyl tert-butyl ether	73	3.690	3.690	0.000	86	17711	2.00	1.99	a
28 Hexane	57	3.933	3.933	0.000	85	9960	2.00	1.80	
29 1,1-Dichloroethane	63	4.078	4.078	0.000	80	12271	2.00	2.05	
30 Vinyl acetate	43	4.127	4.121	0.006	96	6600	2.00	1.72	a
35 cis-1,2-Dichloroethene	96	4.625	4.628	-0.003	79	8372	2.00	2.11	
34 2,2-Dichloropropane	77	4.634	4.628	0.006	61	10194	2.00	2.03	
40 Chlorobromomethane	128	4.857	4.860	-0.003	73	3468	2.00	1.88	M
42 Chloroform	83	4.935	4.935	0.000	89	17740	2.00	2.55	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 43 Dibromofluoromethane	113	5.091	5.094	-0.003	59	39297	10.0	10.7	
44 1,1,1-Trichloroethane	97	5.126	5.123	0.003	82	13020	2.00	2.08	
45 Cyclohexane	56	5.172	5.178	-0.006	84	8593	2.00	1.82	
47 1,1-Dichloropropene	75	5.285	5.282	0.003	68	9564	2.00	2.04	
46 Carbon tetrachloride	117	5.285	5.285	0.000	68	11714	2.00	1.97	
48 Isobutyl alcohol	43	5.387	5.390	-0.003	57	4097	50.0	51.7	M
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.433	0.003	44	36380	10.0	10.6	
50 Benzene	78	5.494	5.494	0.000	91	24207	2.00	1.96	
51 1,2-Dichloroethane	62	5.511	5.511	0.000	67	7482	2.00	1.85	
54 n-Heptane	43	5.752	5.754	-0.002	41	6441	2.00	1.98	a
* 55 Fluorobenzene (IS)	96	5.778	5.775	0.003	99	616590	50.0	50.0	
57 Trichloroethene	130	6.160	6.160	0.000	74	7807	2.00	2.12	
59 Methylcyclohexane	83	6.374	6.368	0.006	80	11021	2.00	1.89	
60 1,2-Dichloropropane	63	6.403	6.406	-0.003	56	5696	2.00	2.19	Ma
* 62 1,4-Dioxane-d8	96	6.490	6.496	-0.006	0	17677	1000.0	1000.0	
63 Dibromomethane	93	6.536	6.533	0.003	62	4616	2.00	2.36	Ma
66 Dichlorobromomethane	83	6.704	6.704	0.000	77	9667	2.00	2.12	M
68 2-Chloroethyl vinyl ether	63	7.046	7.043	0.003	51	1838	2.00	1.76	
69 cis-1,3-Dichloropropene	75	7.214	7.211	0.003	53	8341	2.00	1.87	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.521	0.002	93	108837	10.0	9.65	
72 Toluene	92	7.602	7.602	0.000	89	15365	2.00	2.03	
73 trans-1,3-Dichloropropene	75	7.865	7.862	0.003	78	7764	2.00	1.95	
74 Ethyl methacrylate	69	7.975	7.972	0.003	51	4874	2.00	1.82	M
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	53	4814	2.00	2.05	M
76 Tetrachloroethene	166	8.256	8.259	-0.003	75	6989	2.00	2.00	M
77 1,3-Dichloropropane	76	8.294	8.291	0.003	62	8468	2.00	2.21	
79 Chlorodibromomethane	129	8.572	8.569	0.003	54	6533	2.00	1.95	
81 Ethylene Dibromide	107	8.713	8.713	0.000	75	4896	2.00	2.03	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	449886	50.0	50.0	
84 Chlorobenzene	112	9.336	9.339	-0.003	89	17656	2.00	1.96	
85 1,1,1,2-Tetrachloroethane	131	9.440	9.446	-0.006	75	6934	2.00	1.96	
86 Ethylbenzene	91	9.481	9.487	-0.006	96	27416	2.00	1.88	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	94	20934	2.00	1.89	
88 o-Xylene	91	10.115	10.118	-0.003	90	21678	2.00	1.83	
89 Styrene	104	10.132	10.135	-0.003	84	16672	2.00	1.77	
90 Bromoform	173	10.341	10.341	0.000	78	3919	2.00	1.85	Ma
91 Isopropylbenzene	105	10.535	10.535	0.000	89	26797	2.00	1.86	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	91	39642	10.0	10.1	
95 Bromobenzene	156	10.847	10.850	-0.003	81	7846	2.00	2.22	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.853	0.003	79	6528	2.00	2.12	
97 1,2,3-Trichloropropane	110	10.899	10.899	0.000	50	1827	2.00	2.06	
98 trans-1,4-Dichloro-2-butene	53	10.914	10.917	-0.003	45	1606	2.00	2.29	
99 N-Propylbenzene	91	10.966	10.966	0.000	96	32520	2.00	1.88	
100 2-Chlorotoluene	91	11.047	11.050	-0.003	90	19836	2.00	1.96	
101 1,3,5-Trimethylbenzene	105	11.143	11.146	-0.003	90	23389	2.00	1.83	
102 4-Chlorotoluene	91	11.154	11.157	-0.003	88	22760	2.00	1.86	
104 tert-Butylbenzene	119	11.458	11.461	-0.003	83	20538	2.00	1.84	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	89	22997	2.00	1.75	
107 sec-Butylbenzene	105	11.664	11.664	0.000	92	32373	2.00	1.86	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	89	15859	2.00	2.12	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	92	26596	2.00	1.79	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	256654	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 1,4-Dichlorobenzene	146	11.840	11.843	-0.003	66	16226	2.00	2.09	
115 n-Butylbenzene	91	12.156	12.159	-0.003	91	25619	2.00	1.84	
114 1,2-Dichlorobenzene	146	12.170	12.171	0.000	90	14313	2.00	2.00	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	2	1143	2.00	1.96	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	81	9115	2.00	2.06	
119 Hexachlorobutadiene	225	13.581	13.583	-0.002	58	5916	2.00	2.15	
120 Naphthalene	128	13.650	13.647	0.003	92	15107	2.00	1.92	
121 1,2,3-Trichlorobenzene	180	13.827	13.827	0.000	75	7971	2.00	2.05	
S 124 Xylenes, Total	1				0			3.72	
S 125 Trihalomethanes, Total	1				0			8.47	
S 126 1,2-Dichloroethene, Total	1				0			4.16	
S 127 Trimethylbenzene, Total	1				0			3.58	
S 128 1,3-Dichloropropene, Total	1				0			3.83	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOW8260ACR_00321	Amount Added: 2.00	Units: uL
LO8260/624STD_00540	Amount Added: 2.00	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL
8260 LOWSS1_00198	Amount Added: 1.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD04

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

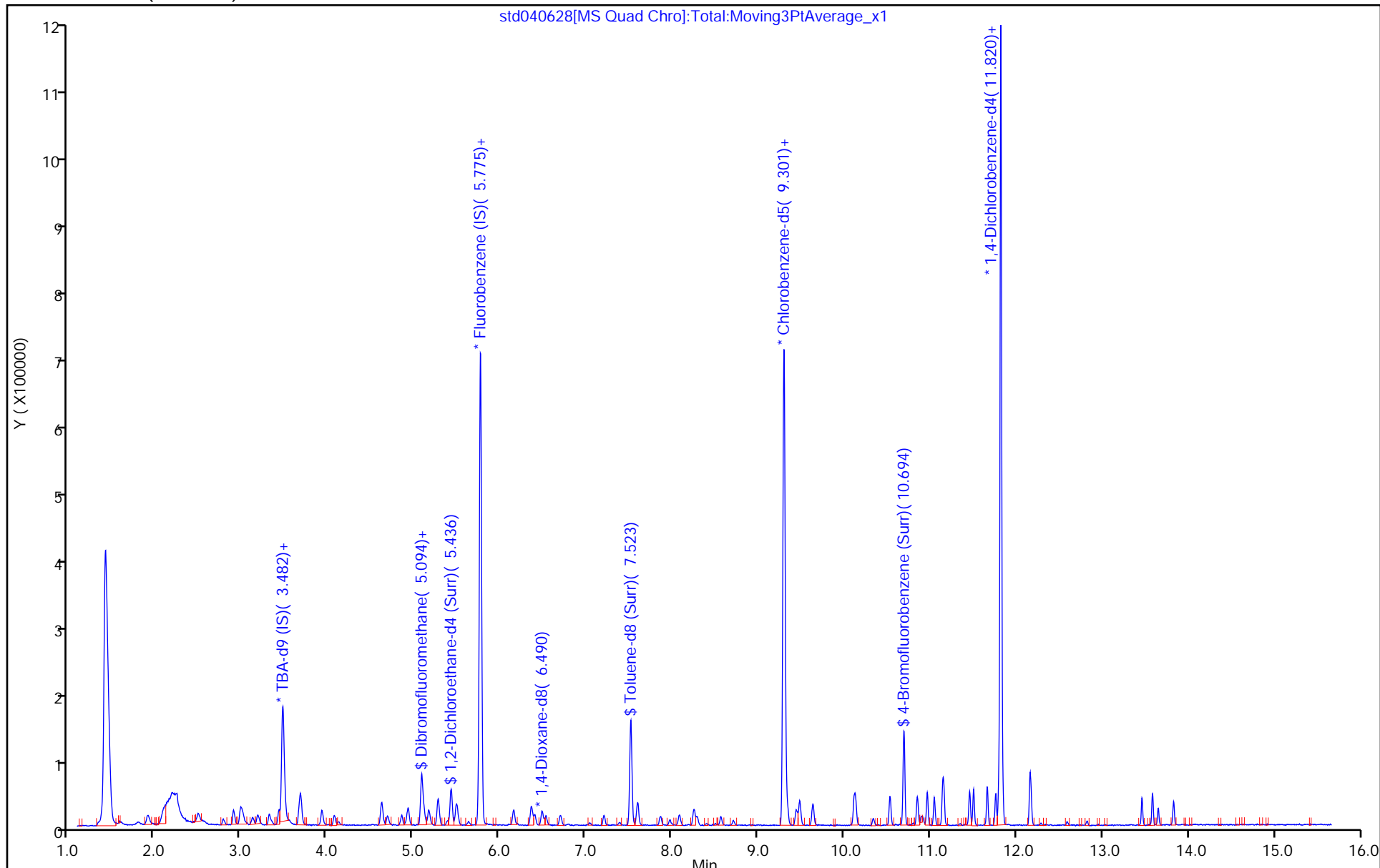
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

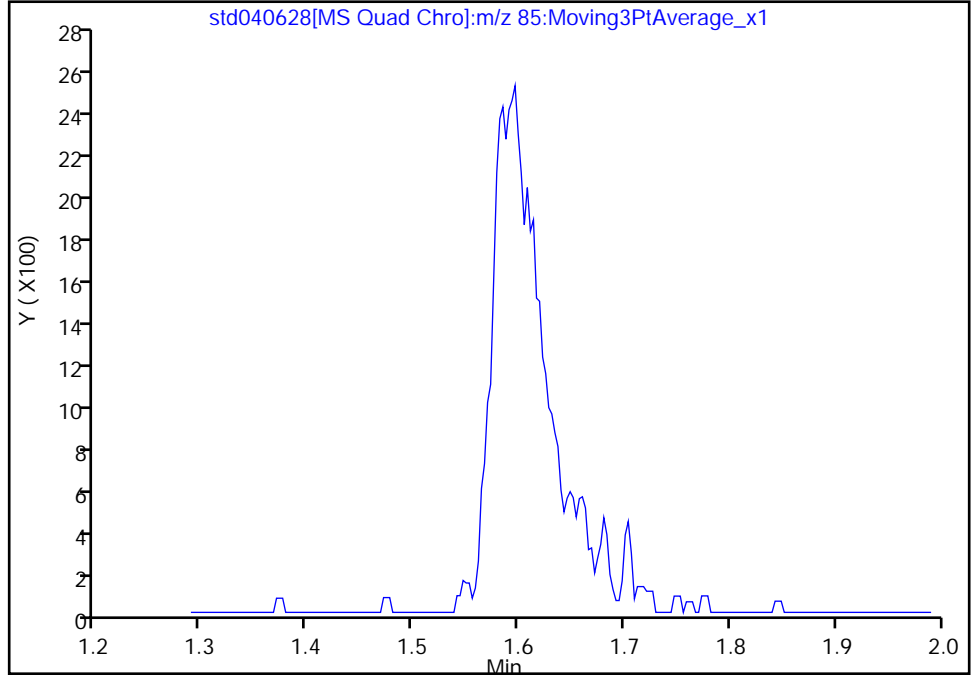
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

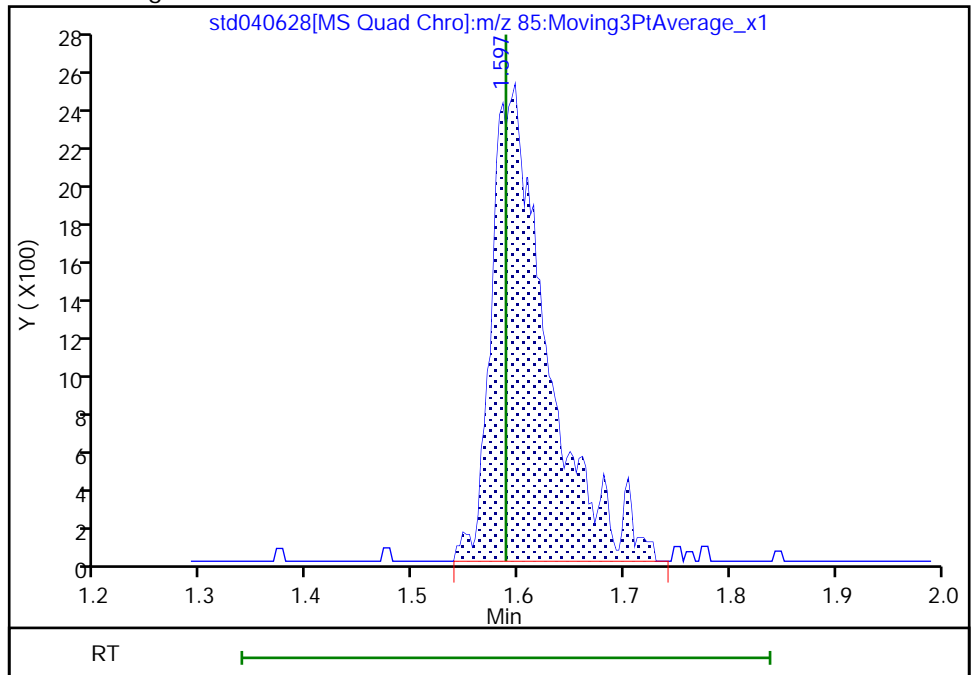
Not Detected
Expected RT: 1.59

Processing Integration Results



RT: 1.60
Area: 9079
Amount: 2.239518
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

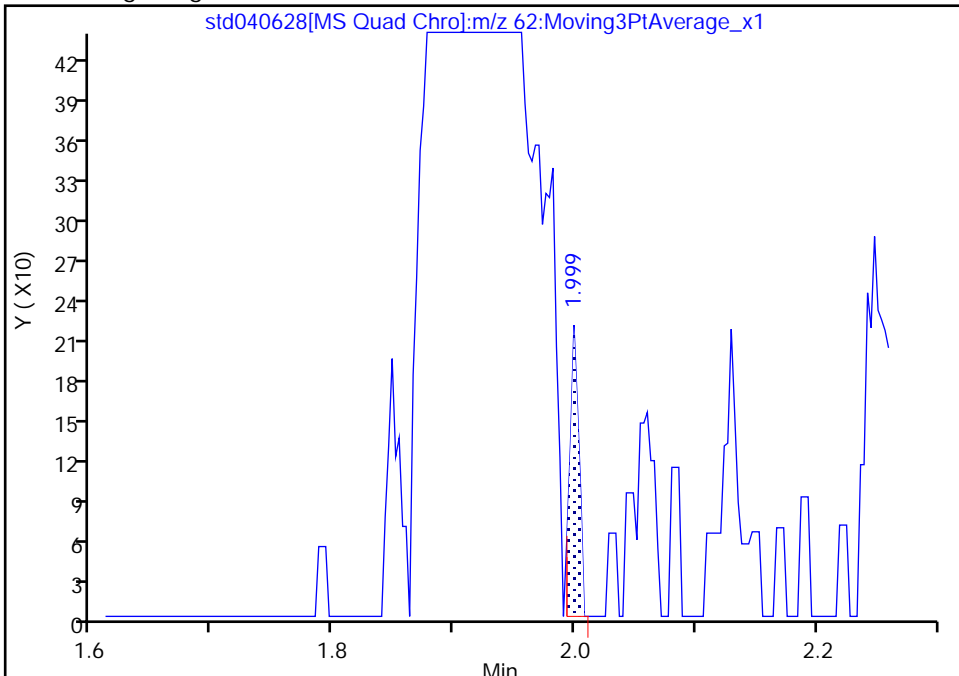
Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

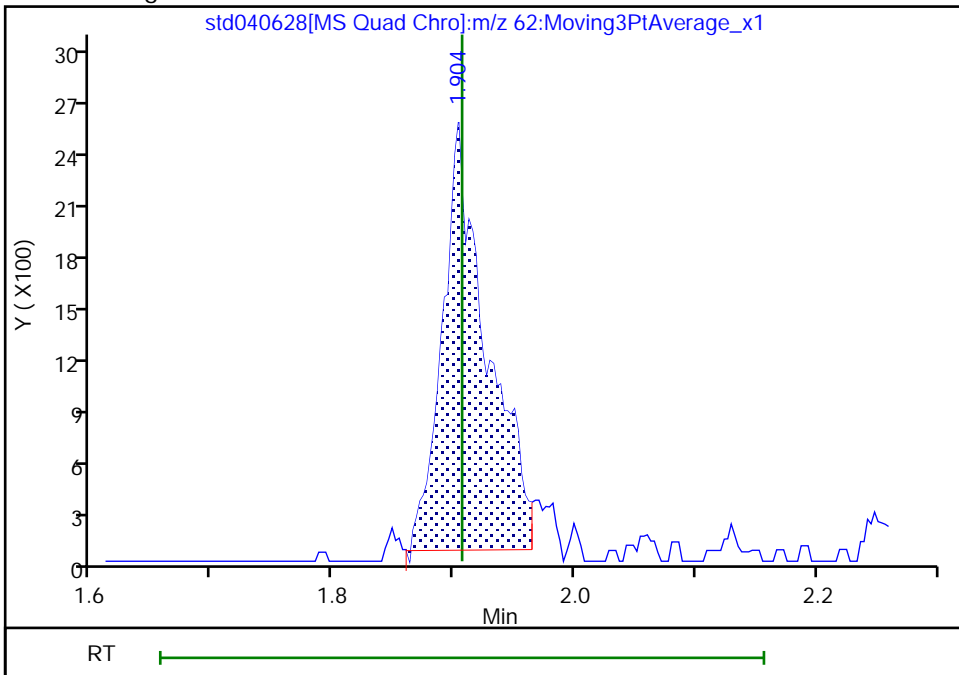
RT: 2.00
Area: 113
Amount: 0.081863
Amount Units: ug/l

Processing Integration Results



RT: 1.90
Area: 6276
Amount: 1.937344
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

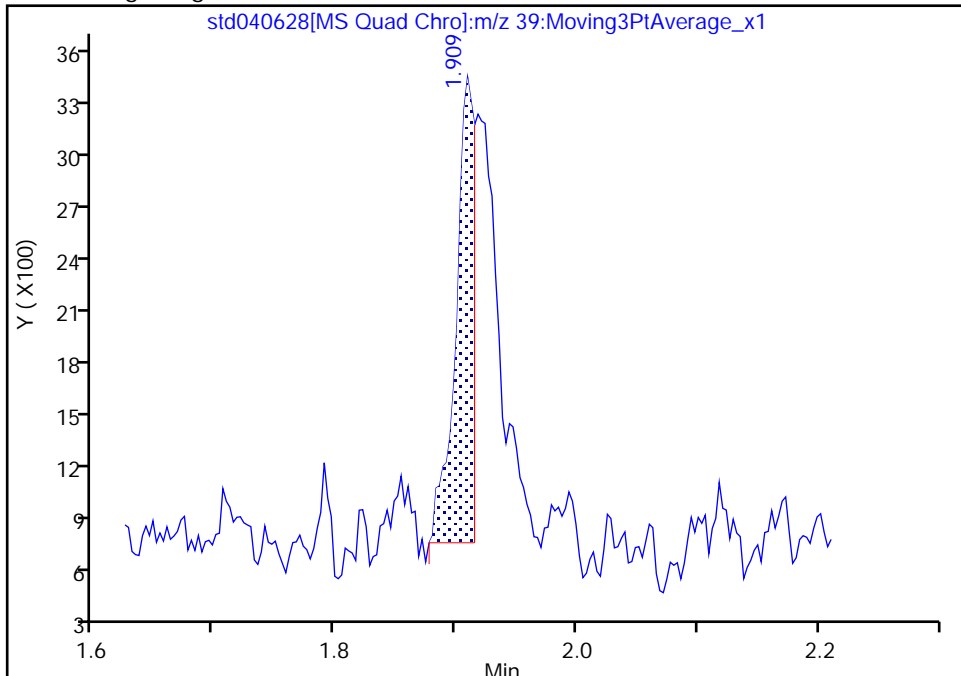
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

4 Butadiene, CAS: 106-99-0

Signal: 1

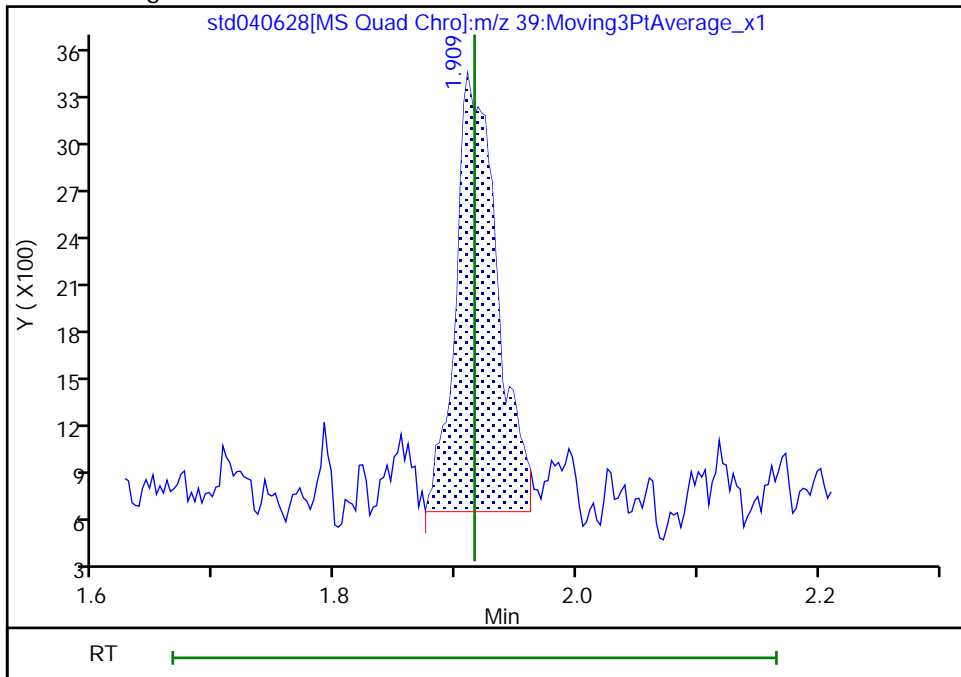
RT: 1.91
Area: 2813
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 1.91
Area: 6505
Amount: 2.380532
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:18:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

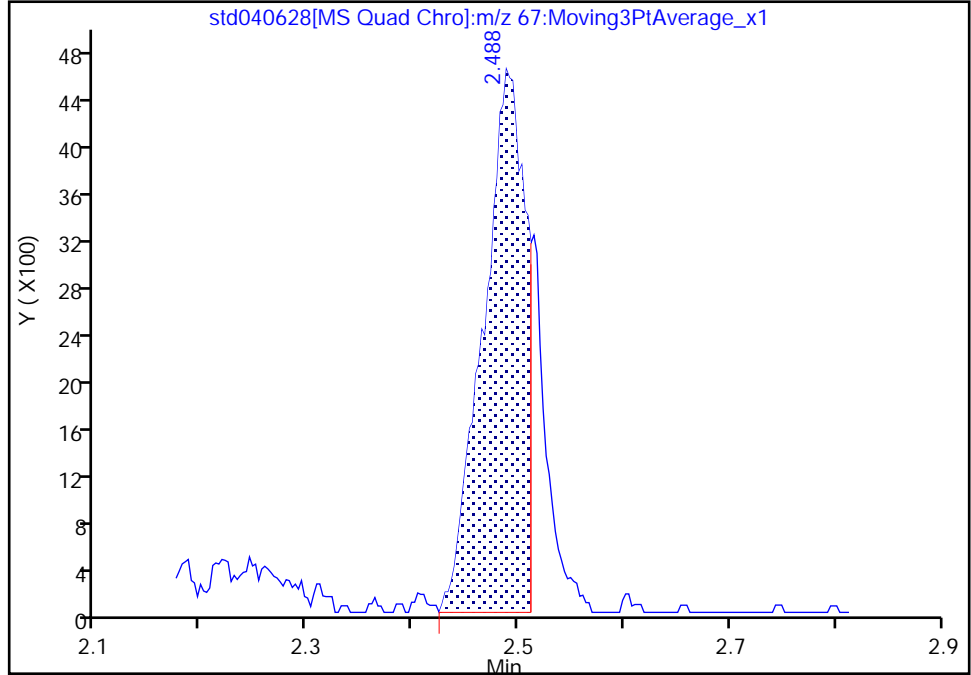
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

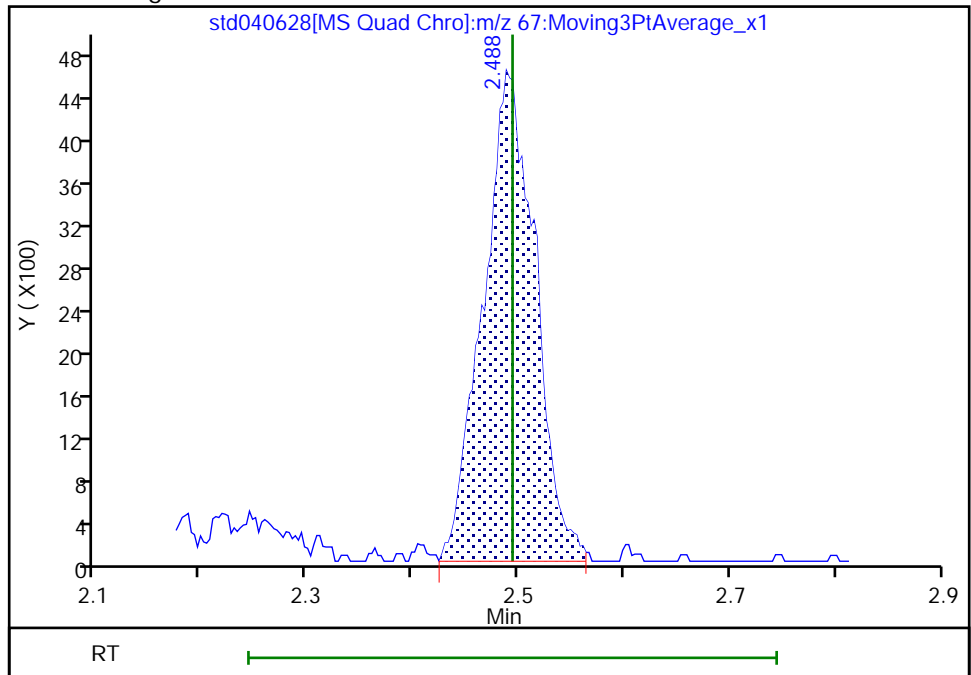
RT: 2.49
Area: 12799
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 15782
Amount: 2.218697
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:18:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

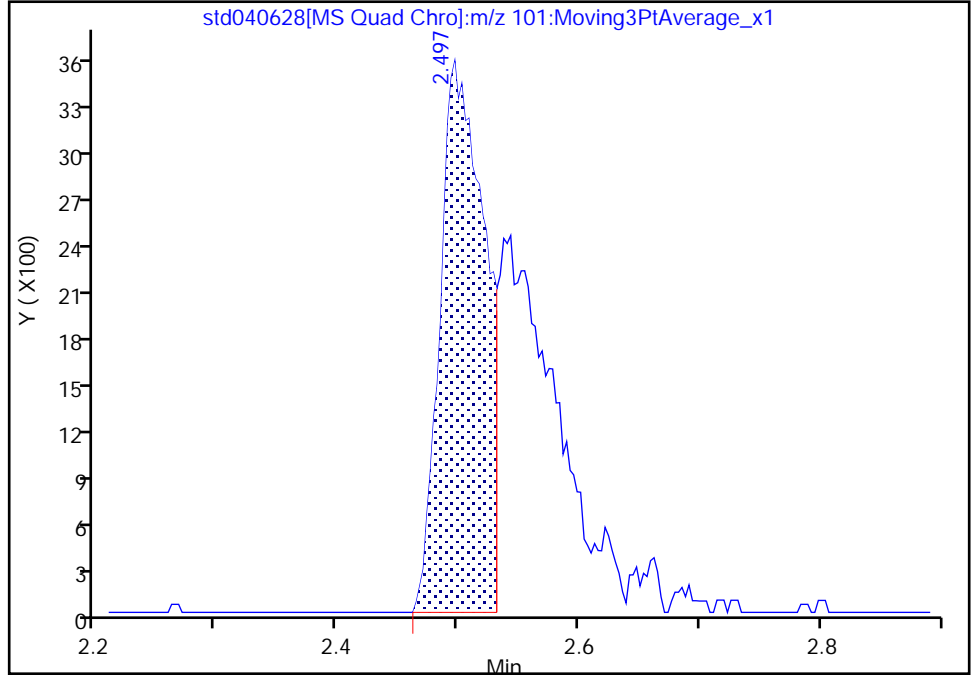
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

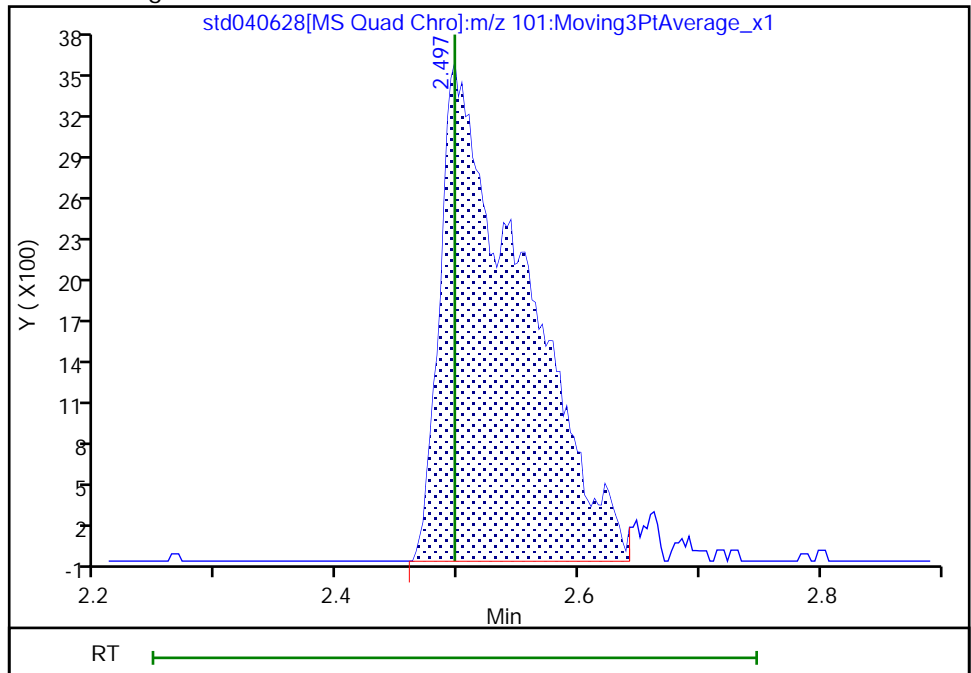
RT: 2.50
Area: 8960
Amount: 1.269962
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 16673
Amount: 2.193595
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:18:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

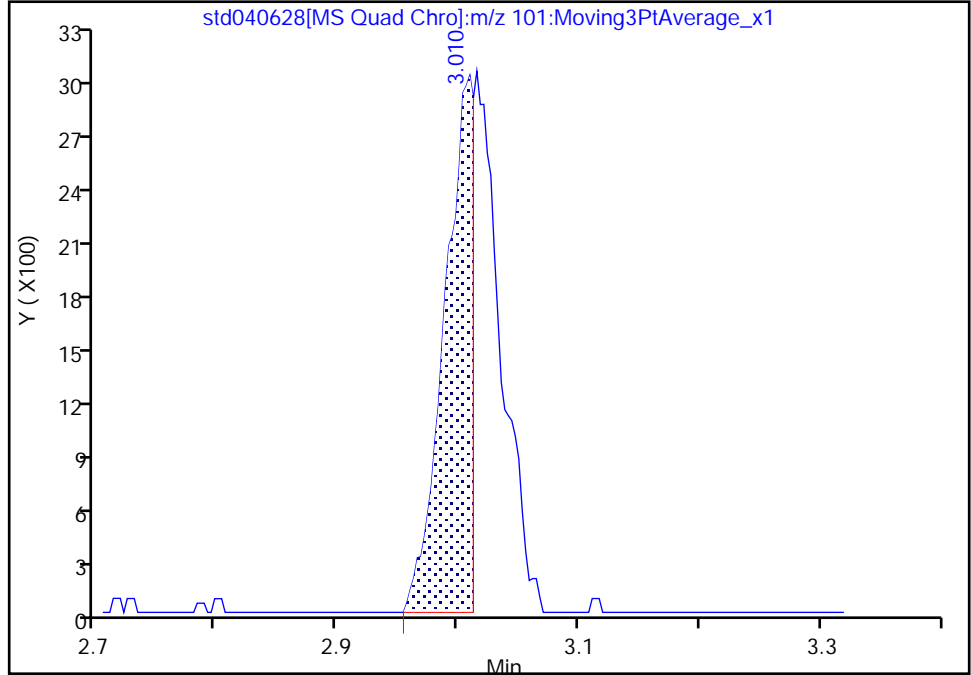
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

14 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

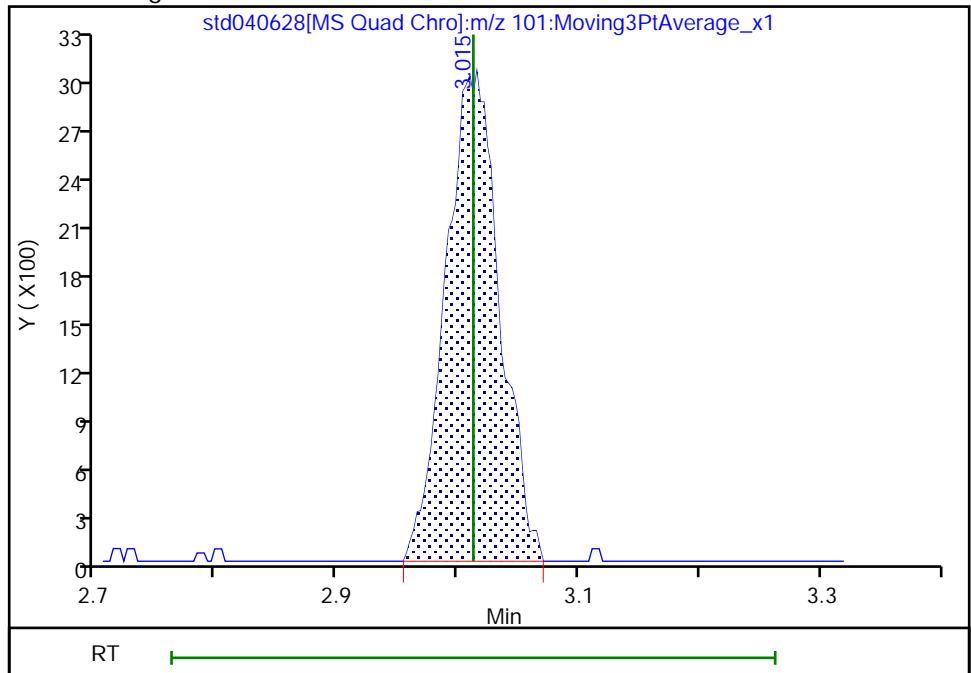
RT: 3.01
Area: 4957
Amount: 1.270685
Amount Units: ug/l

Processing Integration Results



RT: 3.02
Area: 9340
Amount: 2.089761
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:18:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

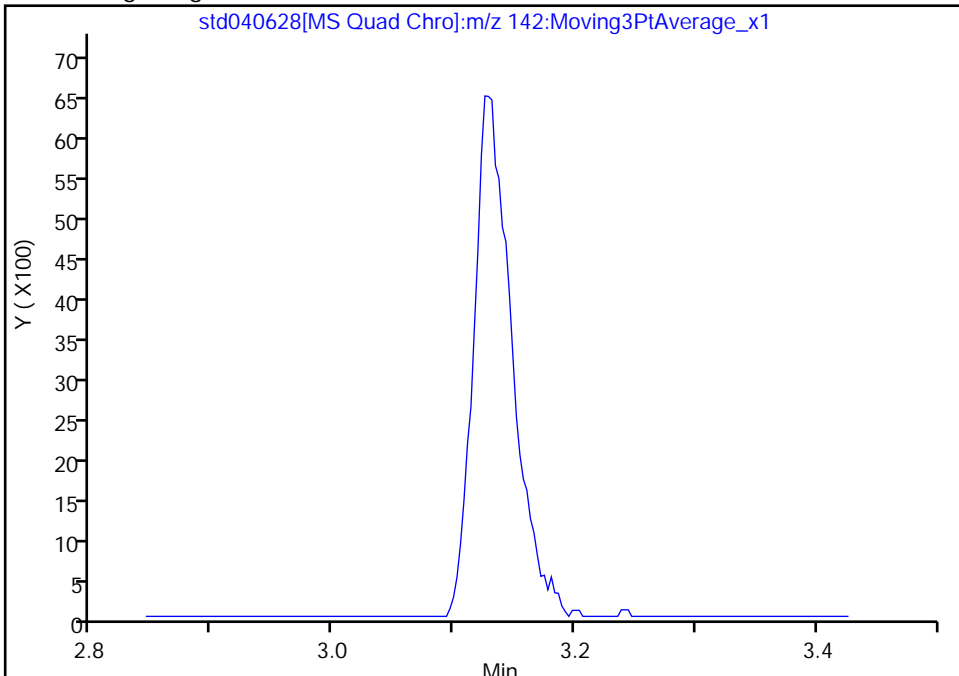
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

16 Iodomethane, CAS: 74-88-4

Signal: 1

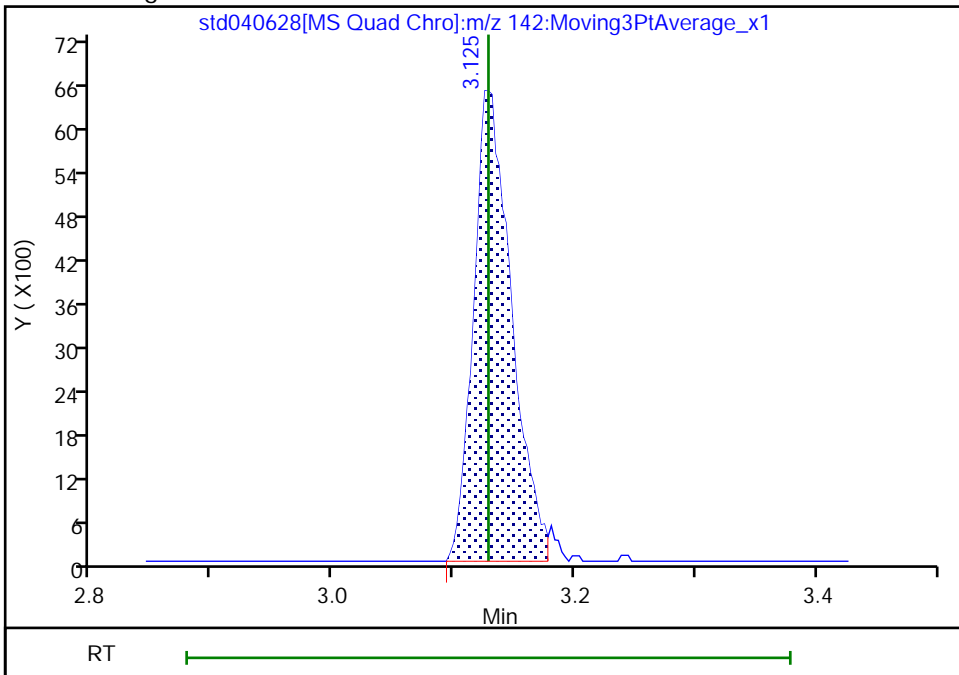
Not Detected
Expected RT: 3.13

Processing Integration Results



RT: 3.13
Area: 14179
Amount: 2.053268
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:18:47
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

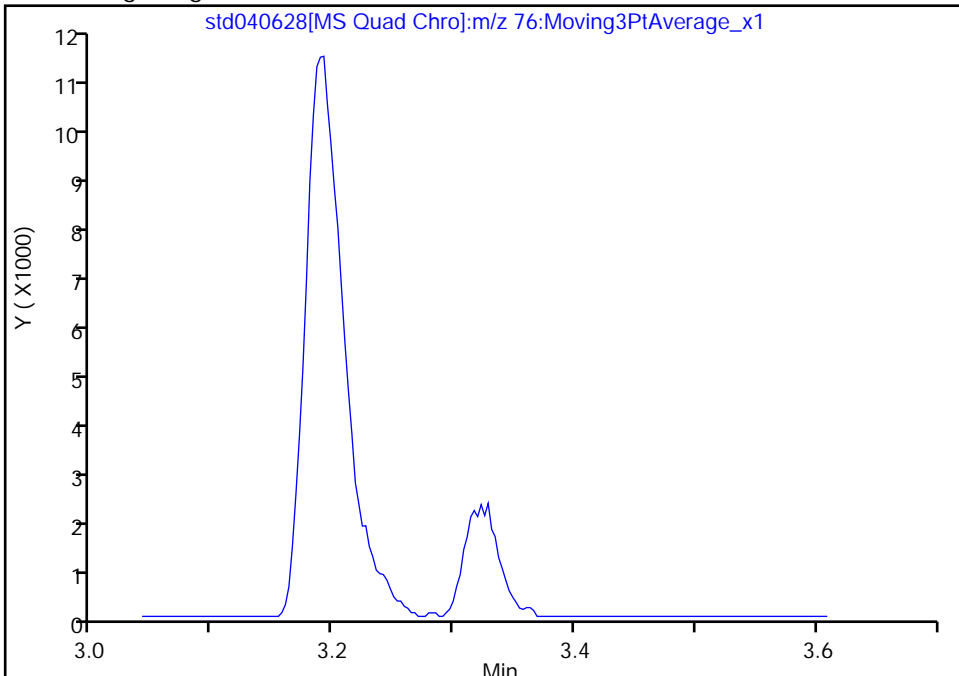
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

20 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

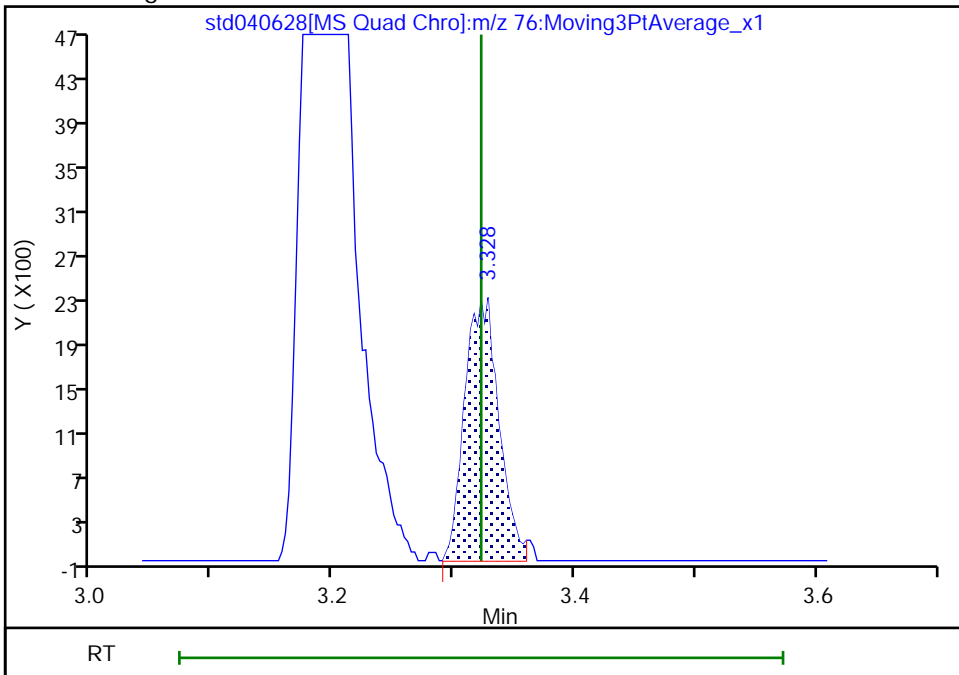
Not Detected
Expected RT: 3.32

Processing Integration Results



Manual Integration Results

RT: 3.33
Area: 4510
Amount: 2.144674
Amount Units: ug/l



Eurofins Chicago

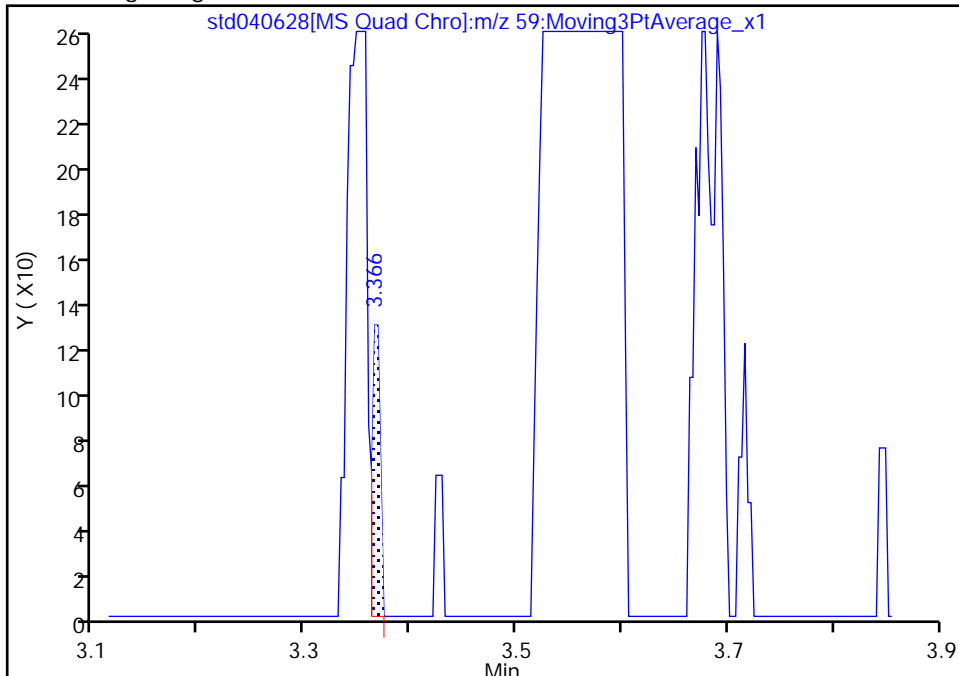
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Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

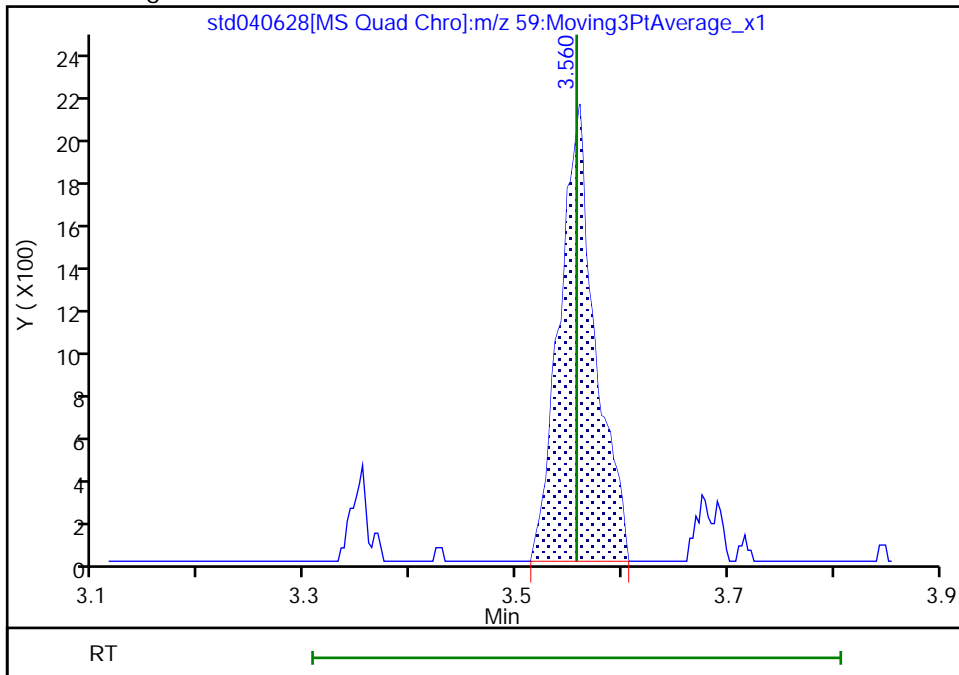
RT: 3.37
Area: 67
Amount: 0.528799
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 4865
Amount: 20.923055
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

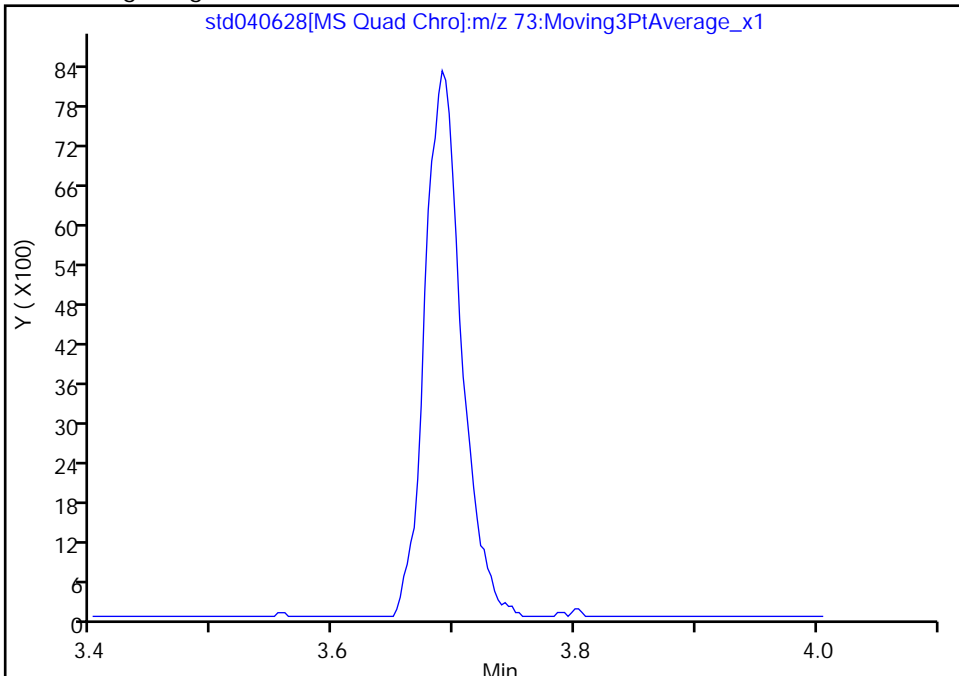
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

27 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

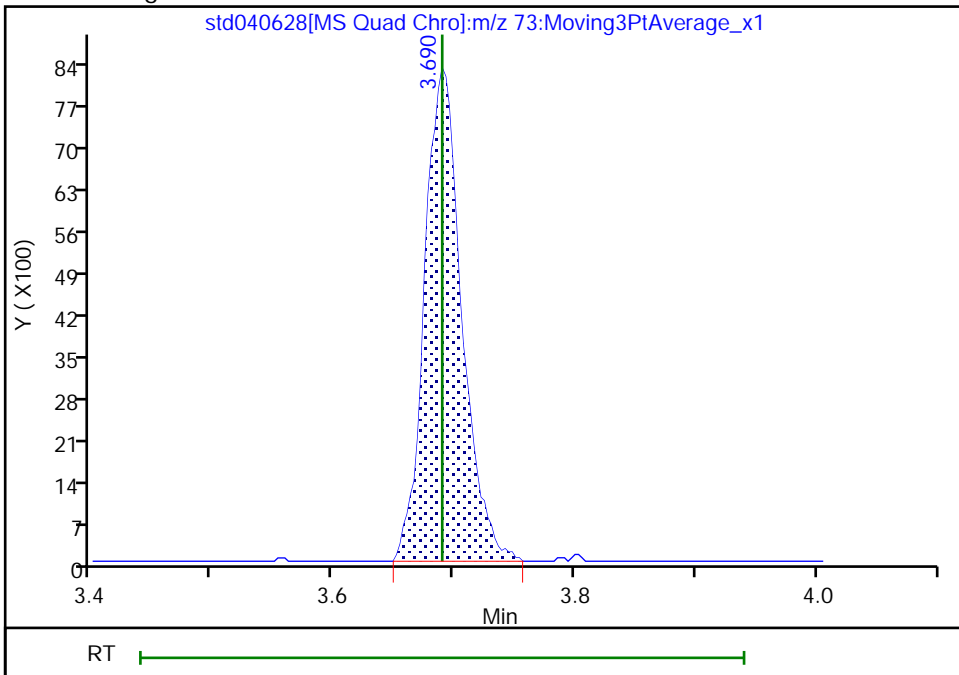
Not Detected
Expected RT: 3.69

Processing Integration Results



Manual Integration Results

RT: 3.69
Area: 17711
Amount: 1.989059
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 11:19:16
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

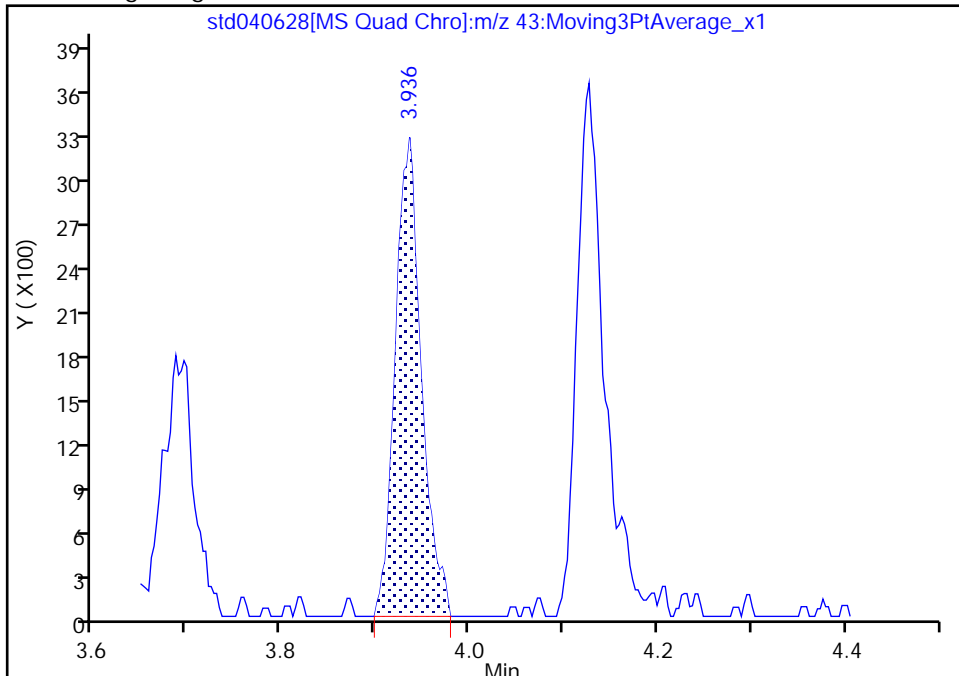
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

30 Vinyl acetate, CAS: 108-05-4

Signal: 1

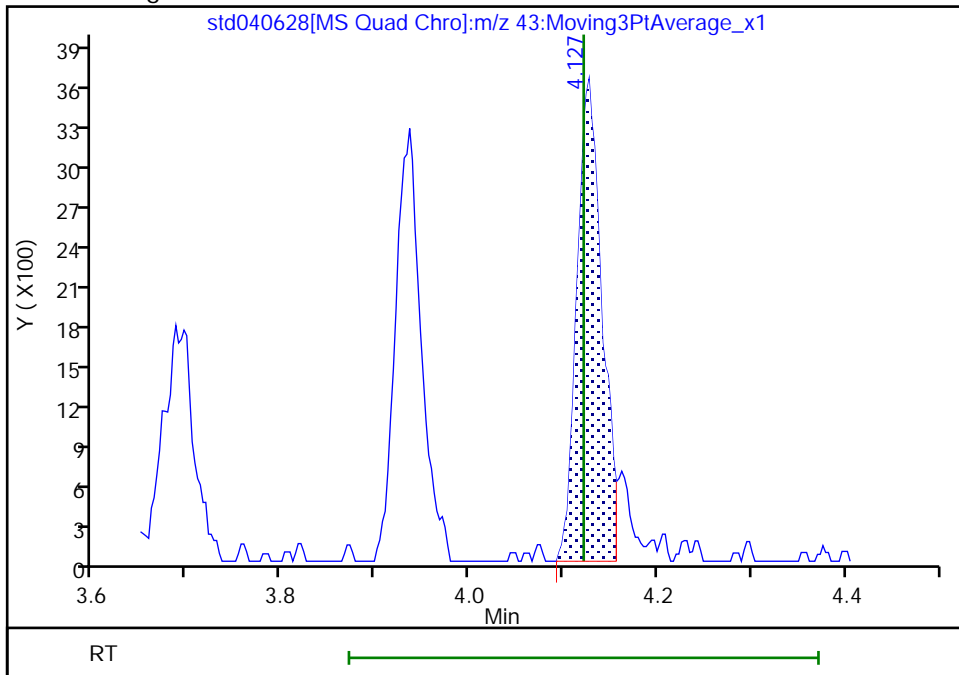
RT: 3.94
Area: 6143
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 6600
Amount: 1.723250
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:19:21
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

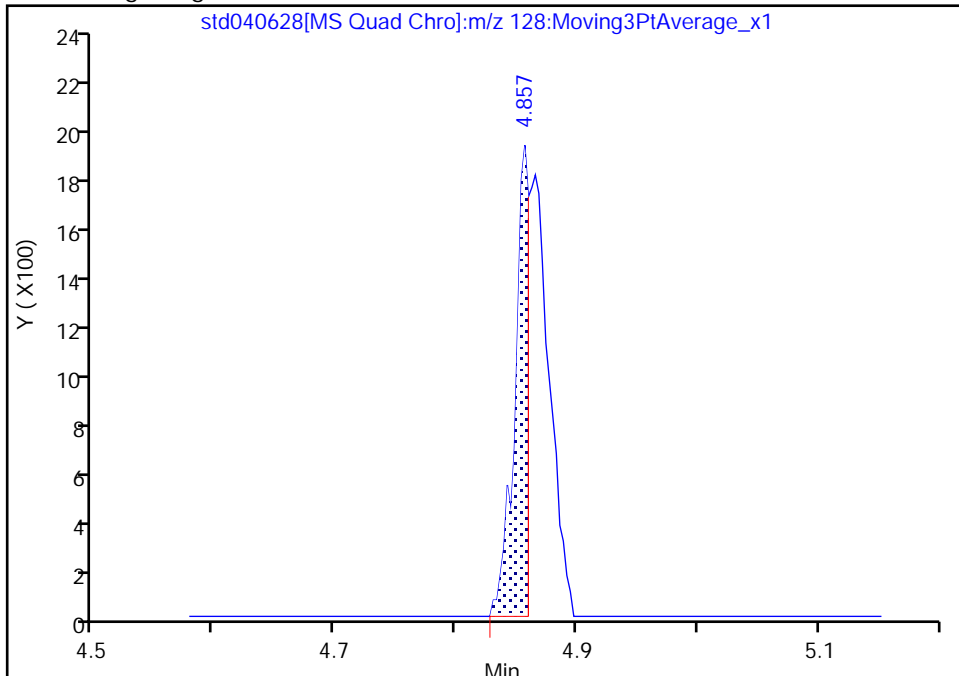
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

40 Chlorobromomethane, CAS: 74-97-5

Signal: 1

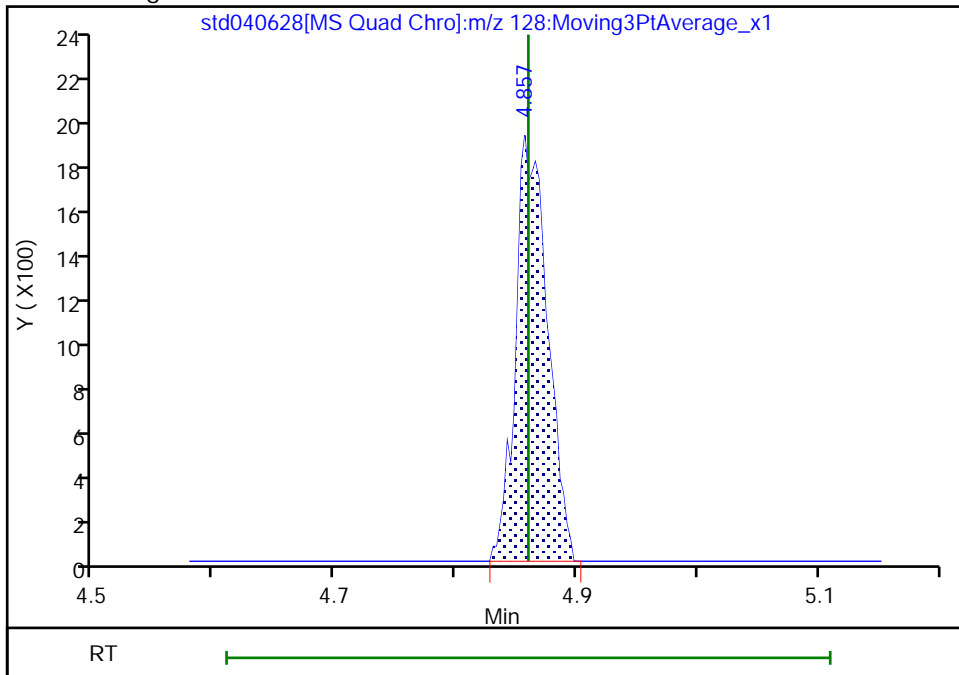
RT: 4.86
Area: 1531
Amount: 1.056807
Amount Units: ug/l

Processing Integration Results



RT: 4.86
Area: 3468
Amount: 1.883791
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:19:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

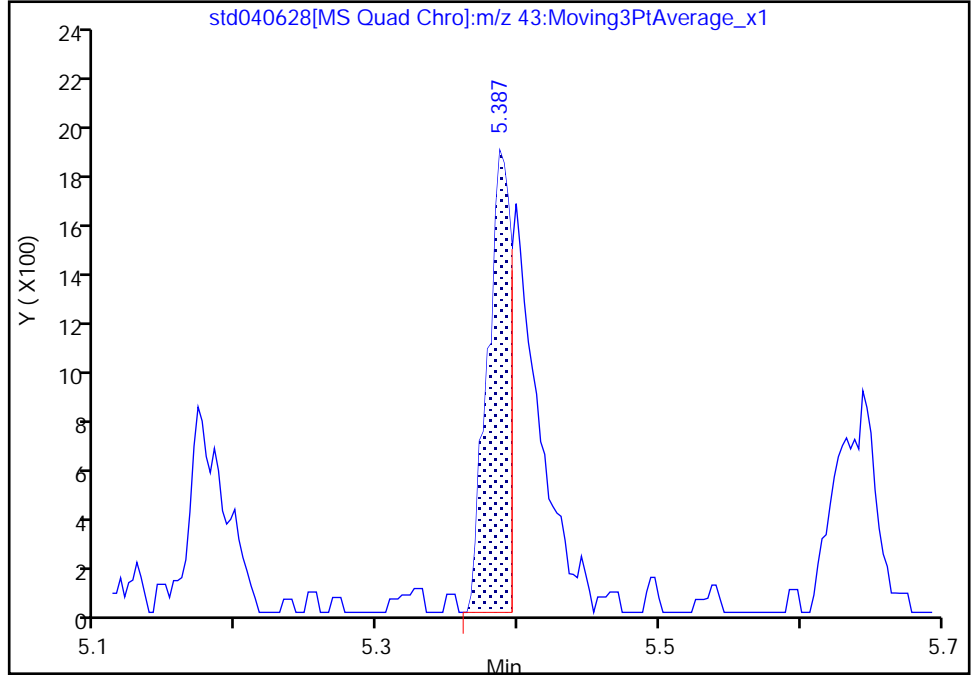
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

48 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

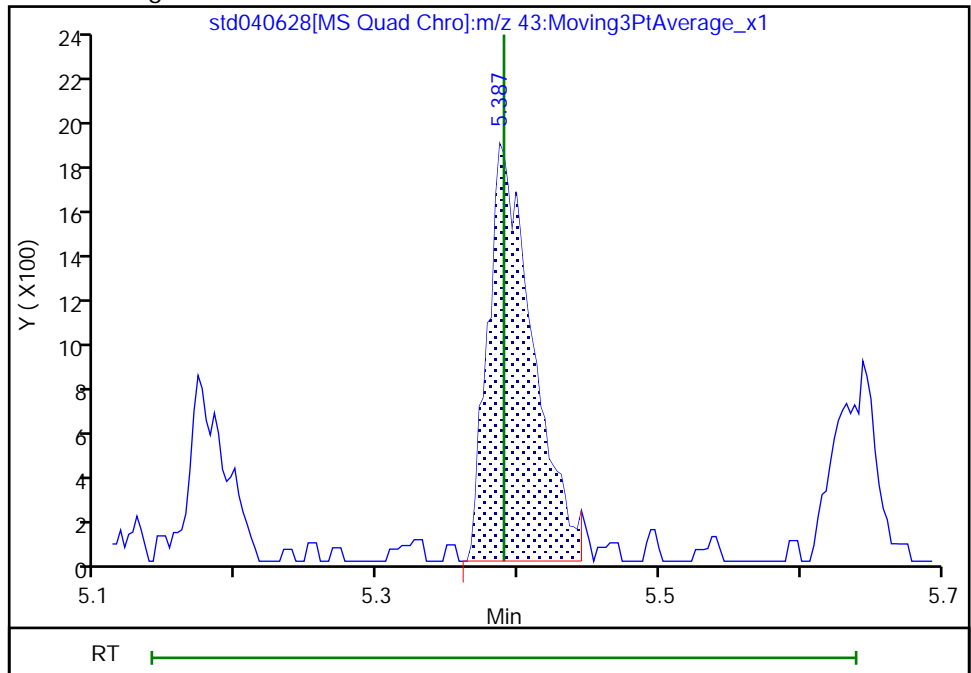
RT: 5.39
Area: 2144
Amount: 31.532949
Amount Units: ug/l

Processing Integration Results



RT: 5.39
Area: 4097
Amount: 51.653771
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:19:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

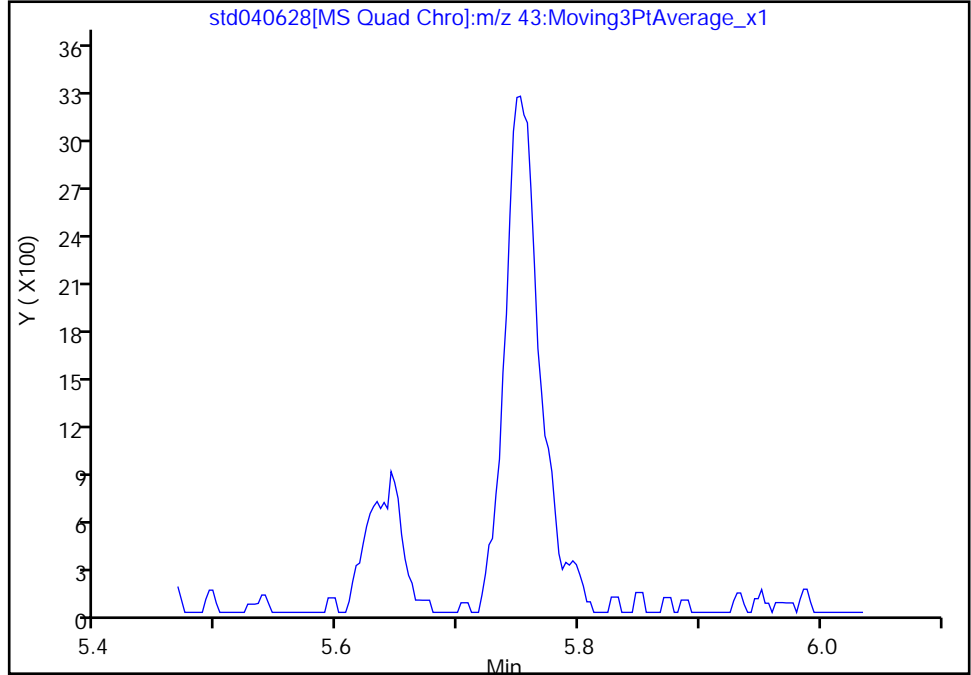
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

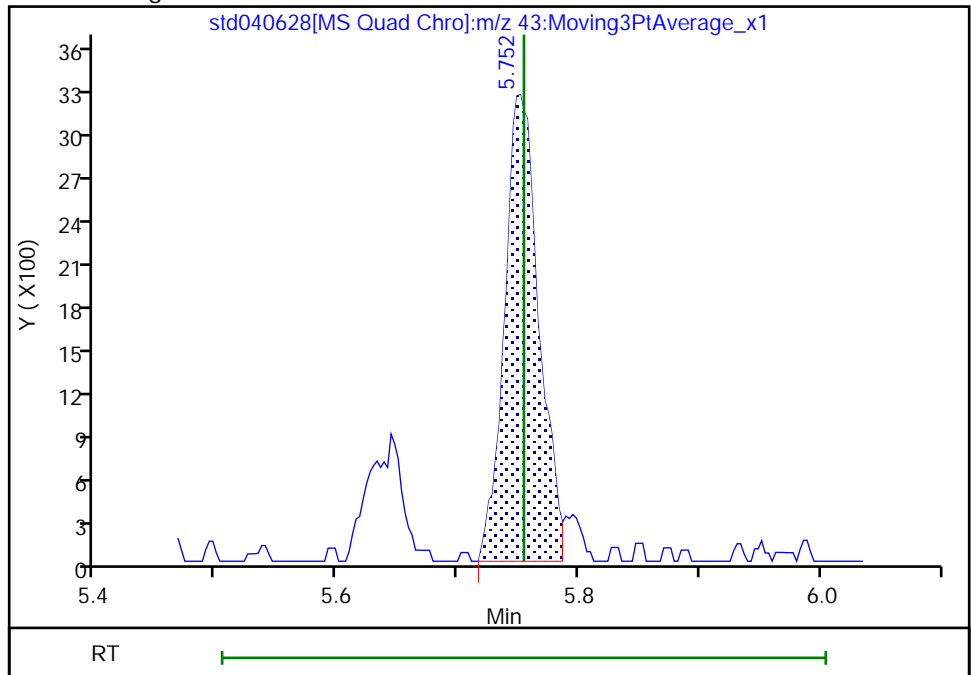
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 6441
Amount: 1.975215
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 11:19:52
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

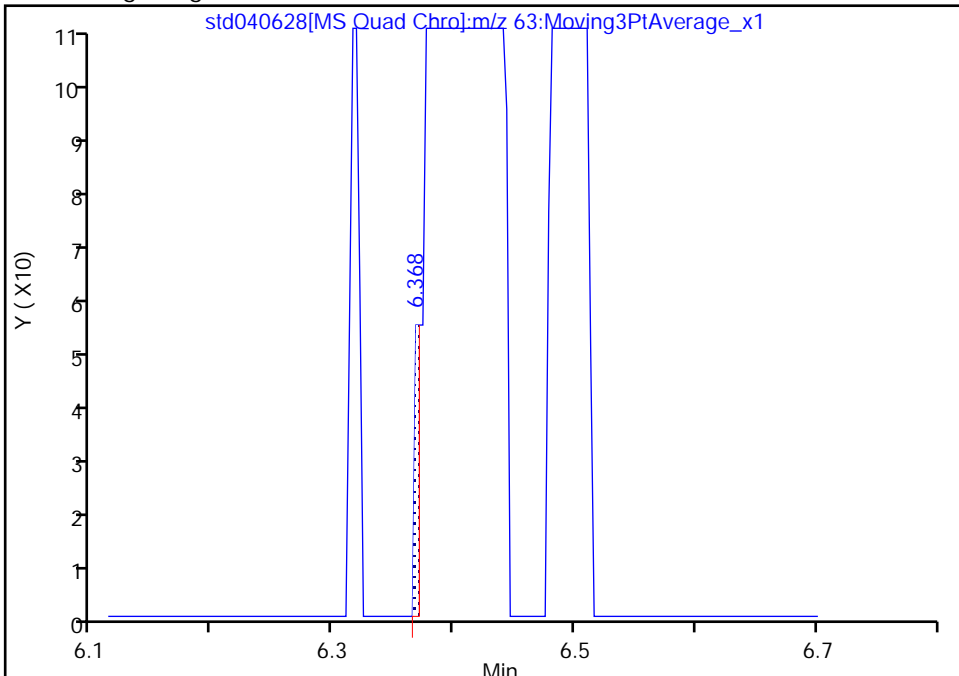
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

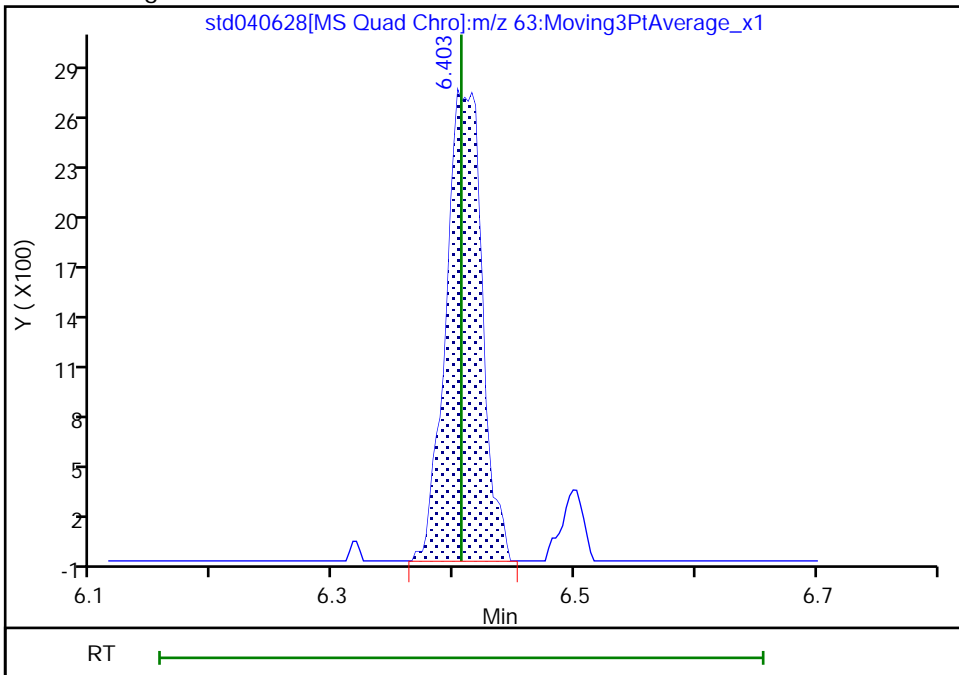
RT: 6.37
Area: 19
Amount: 0.015232
Amount Units: ug/l

Processing Integration Results



RT: 6.40
Area: 5696
Amount: 2.188826
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:20:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

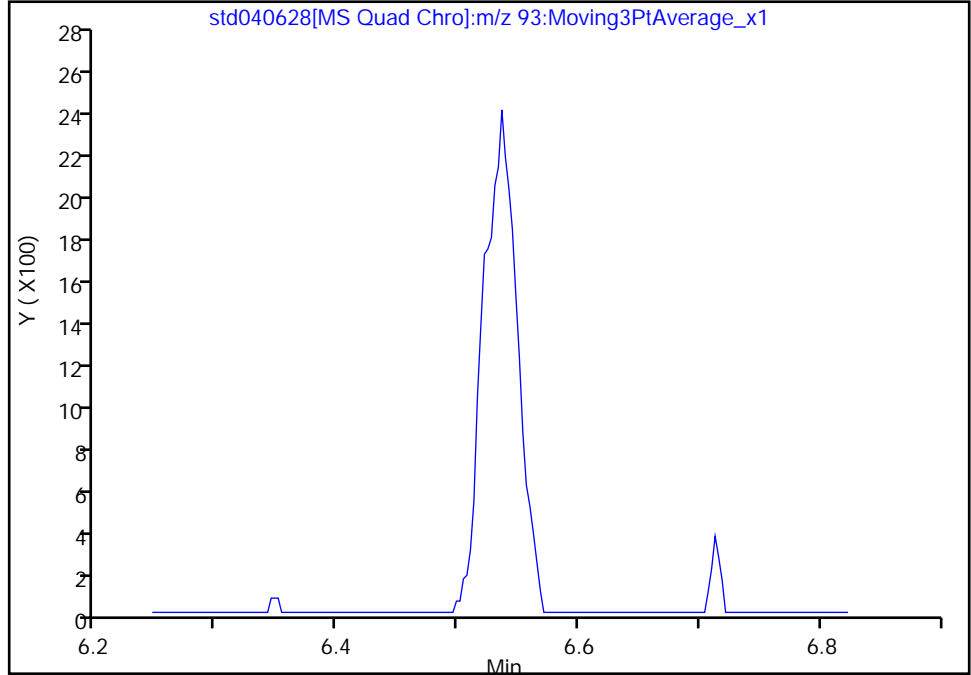
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

63 Dibromomethane, CAS: 74-95-3

Signal: 1

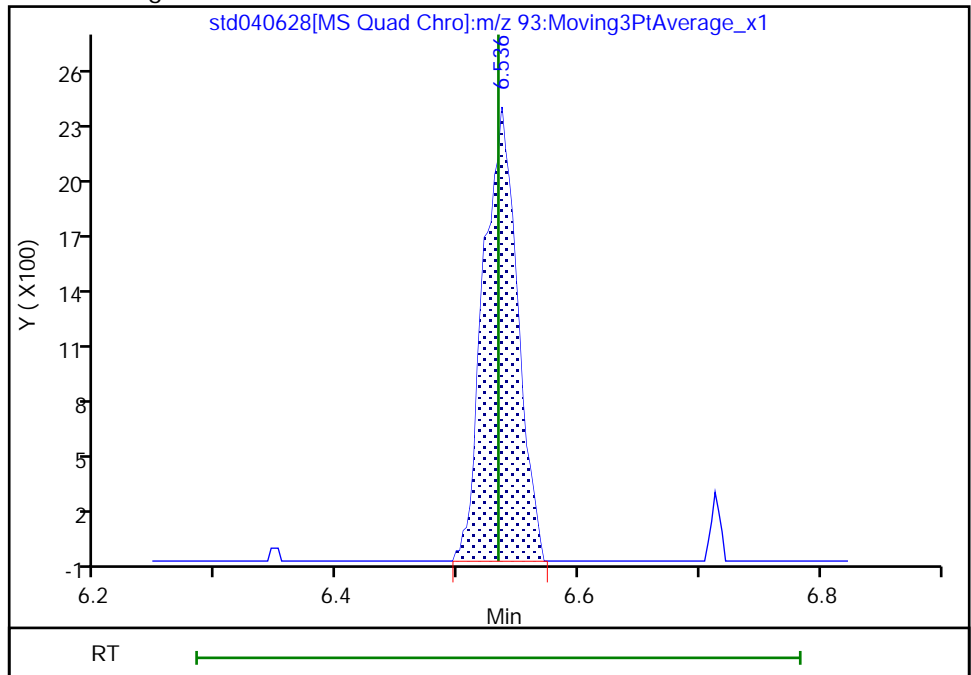
Not Detected
Expected RT: 6.53

Processing Integration Results



Manual Integration Results

RT: 6.54
Area: 4616
Amount: 2.357214
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 11:20:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

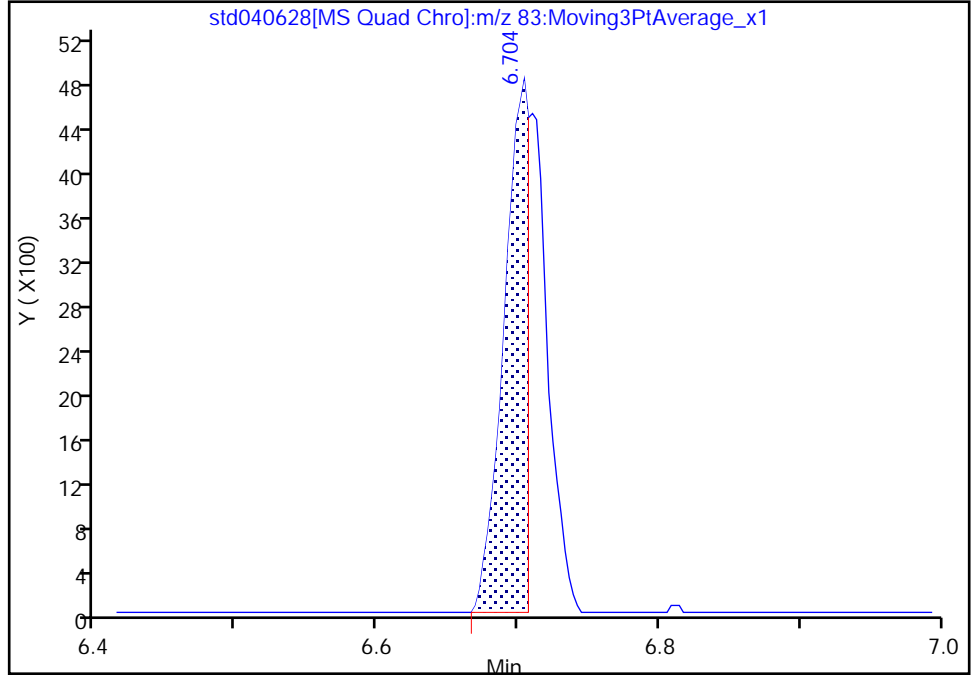
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

66 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

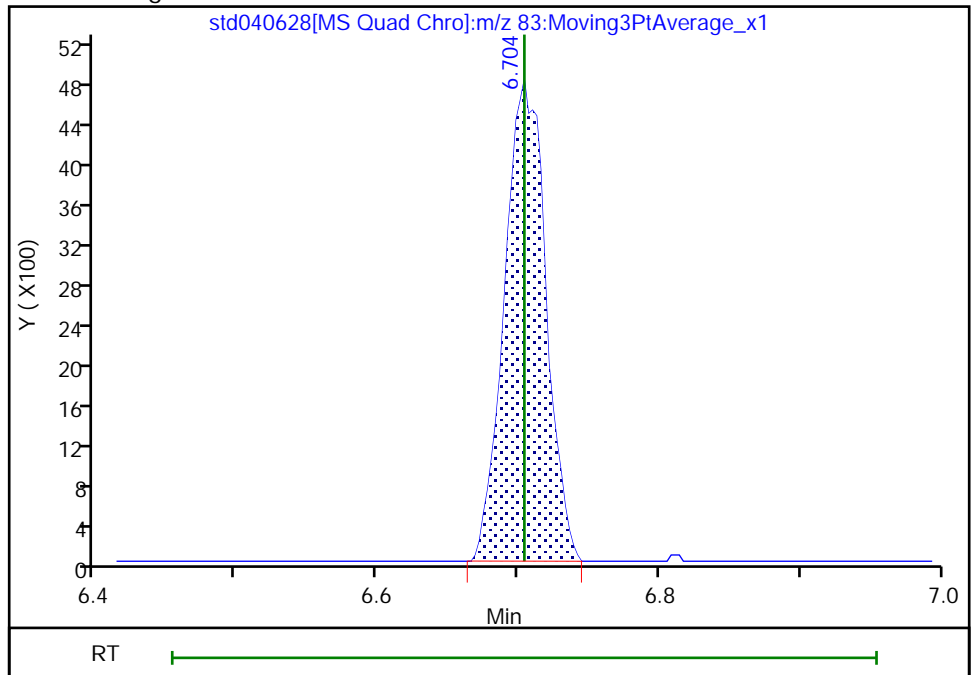
RT: 6.70
Area: 5795
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 6.70
Area: 9667
Amount: 2.117742
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:20:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

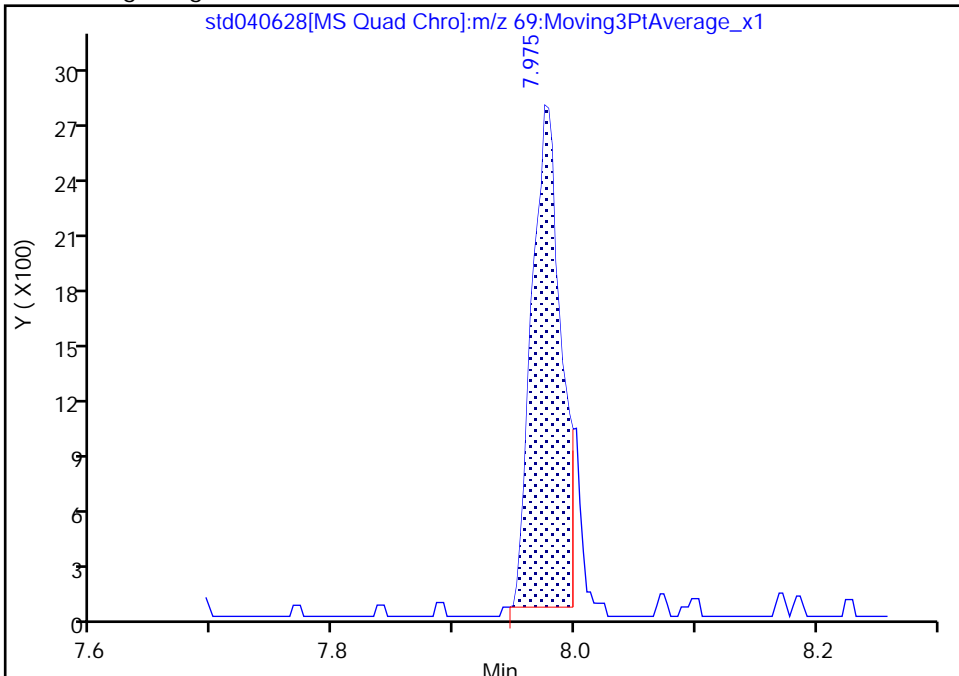
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

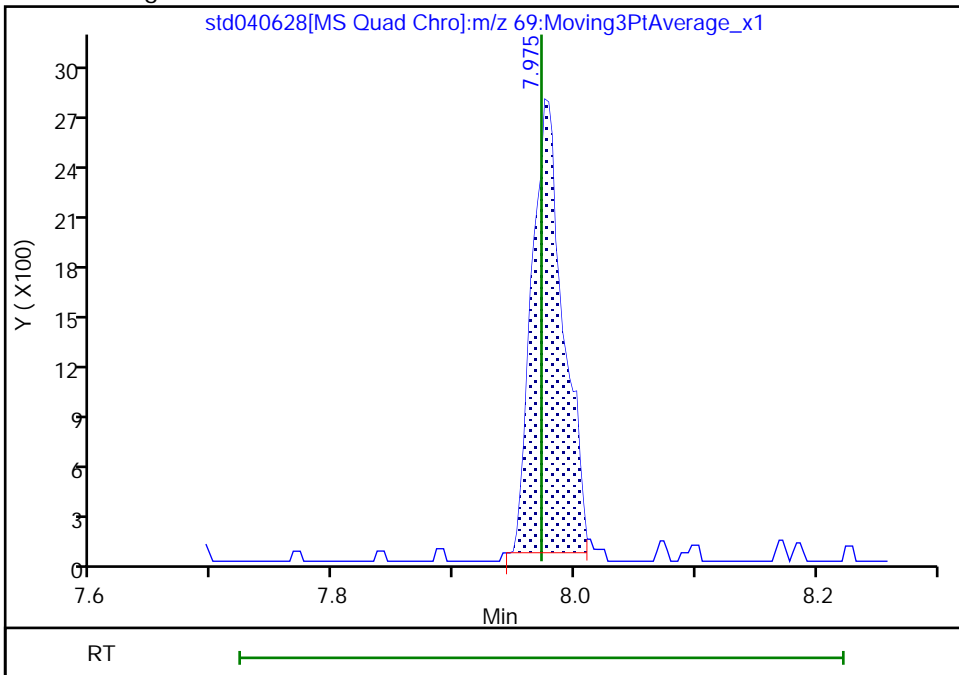
RT: 7.98
Area: 4547
Amount: 1.797486
Amount Units: ug/l

Processing Integration Results



RT: 7.98
Area: 4874
Amount: 1.816584
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:20:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

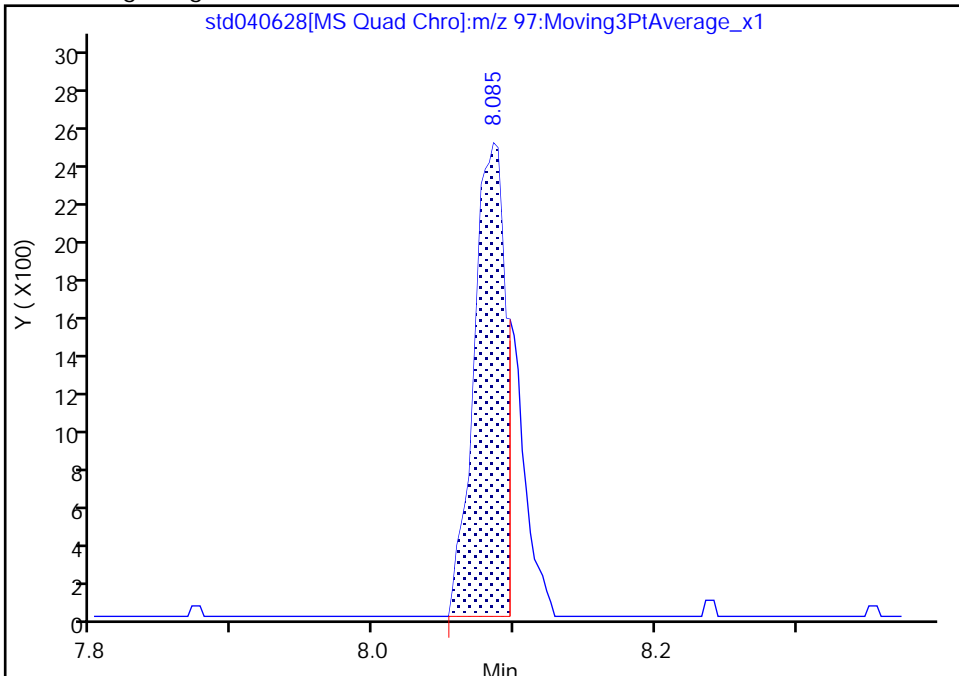
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

75 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

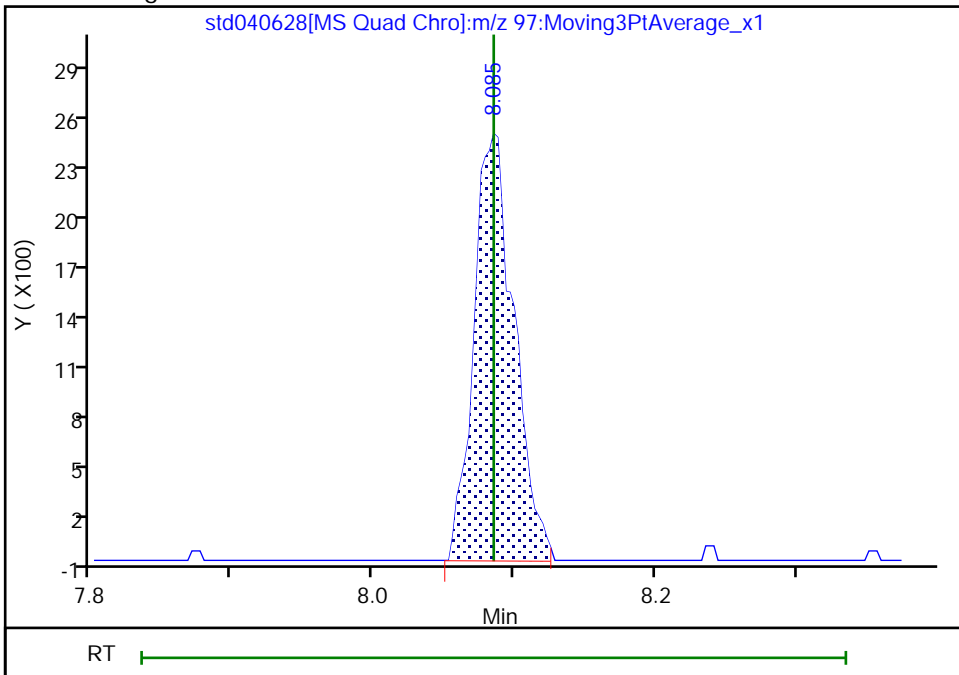
RT: 8.09
Area: 3821
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 8.09
Area: 4814
Amount: 2.050979
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:20:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

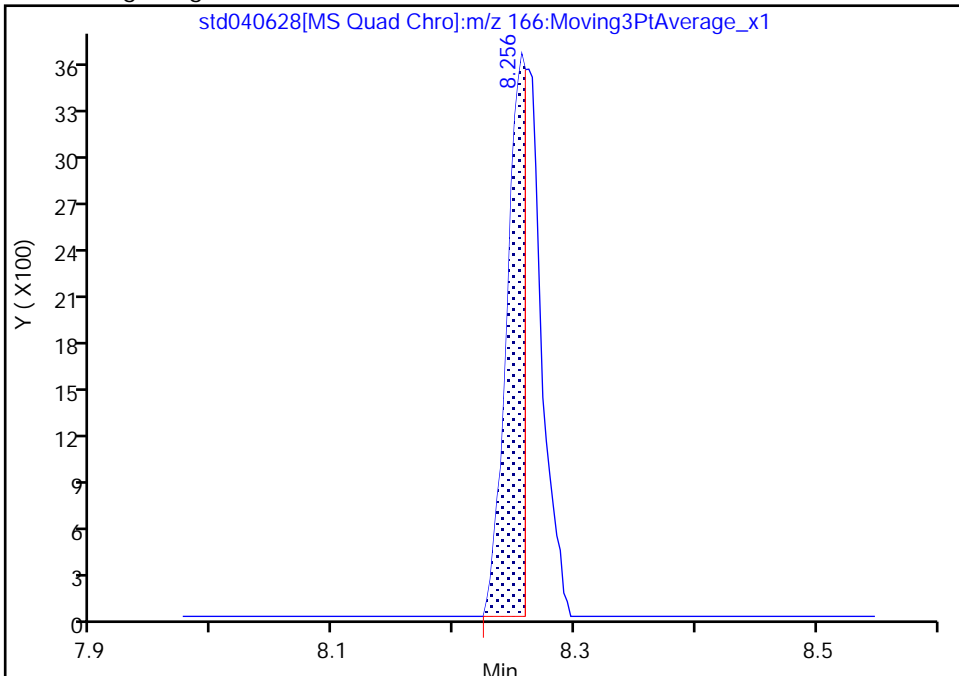
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4

Signal: 1

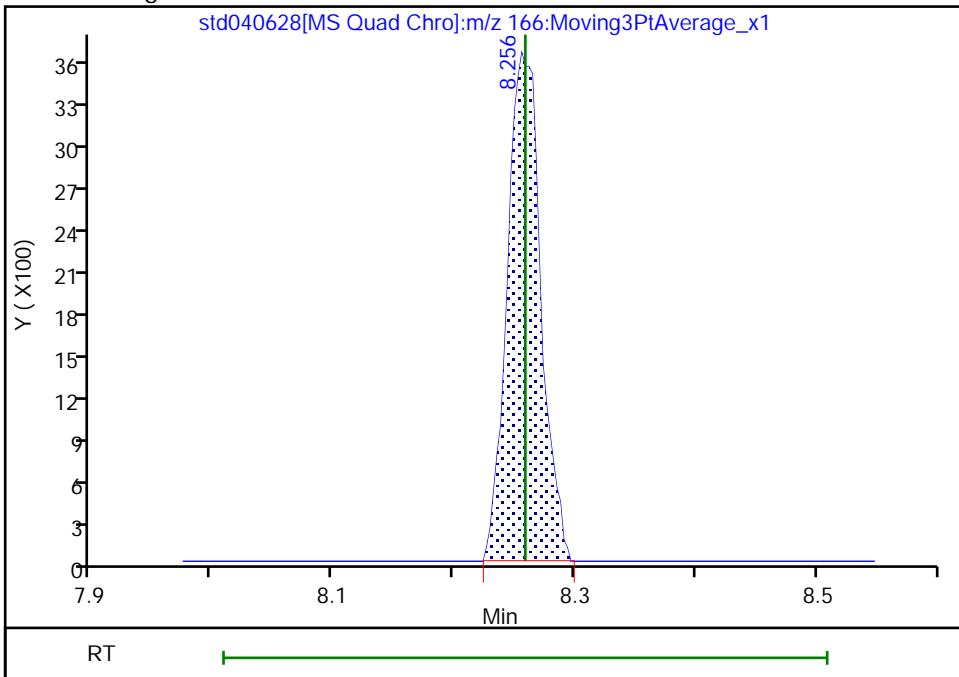
RT: 8.26
Area: 3967
Amount: 2.000000
Amount Units: ug/l

Processing Integration Results



RT: 8.26
Area: 6989
Amount: 2.003514
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:21:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

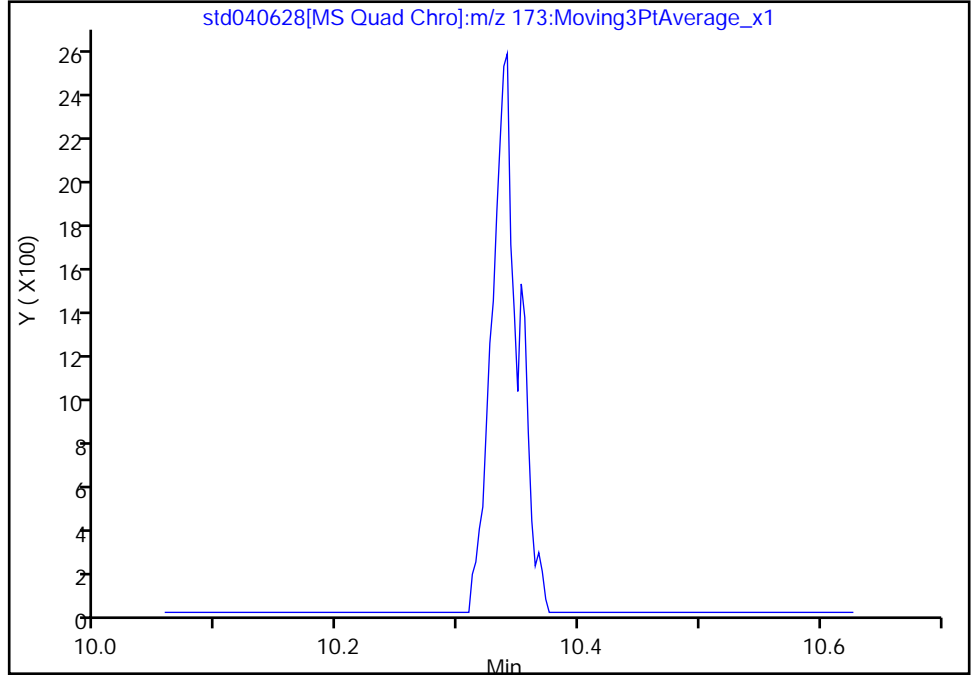
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D
Injection Date: 28-Jun-2022 09:56:13 Instrument ID: CMS29
Lims ID: STD04
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

90 Bromoform, CAS: 75-25-2

Signal: 1

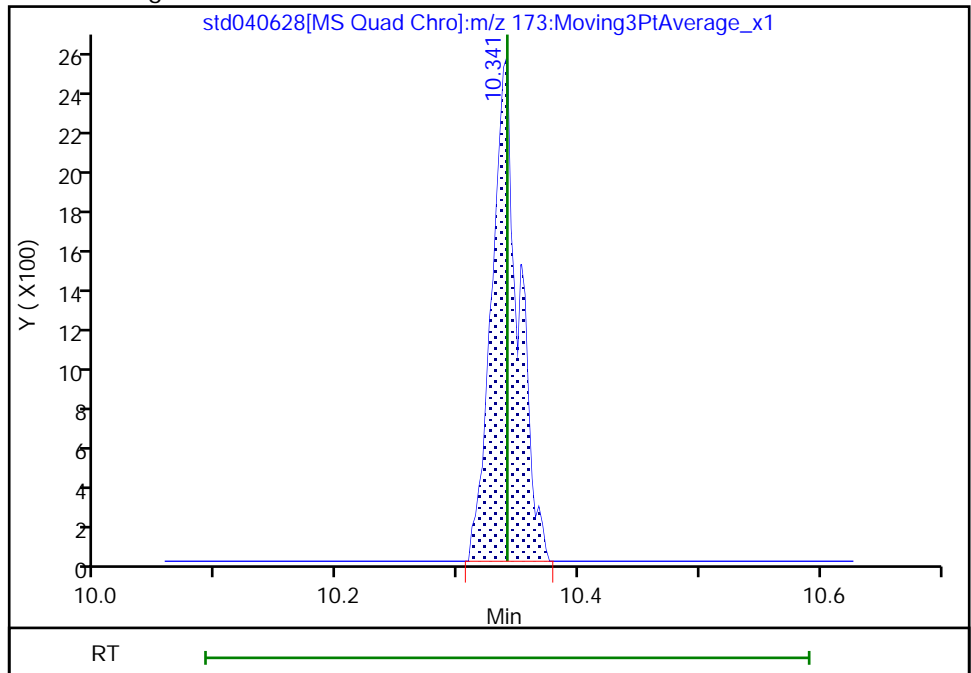
Not Detected
Expected RT: 10.34

Processing Integration Results



Manual Integration Results

RT: 10.34
Area: 3919
Amount: 1.847674
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 11:21:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

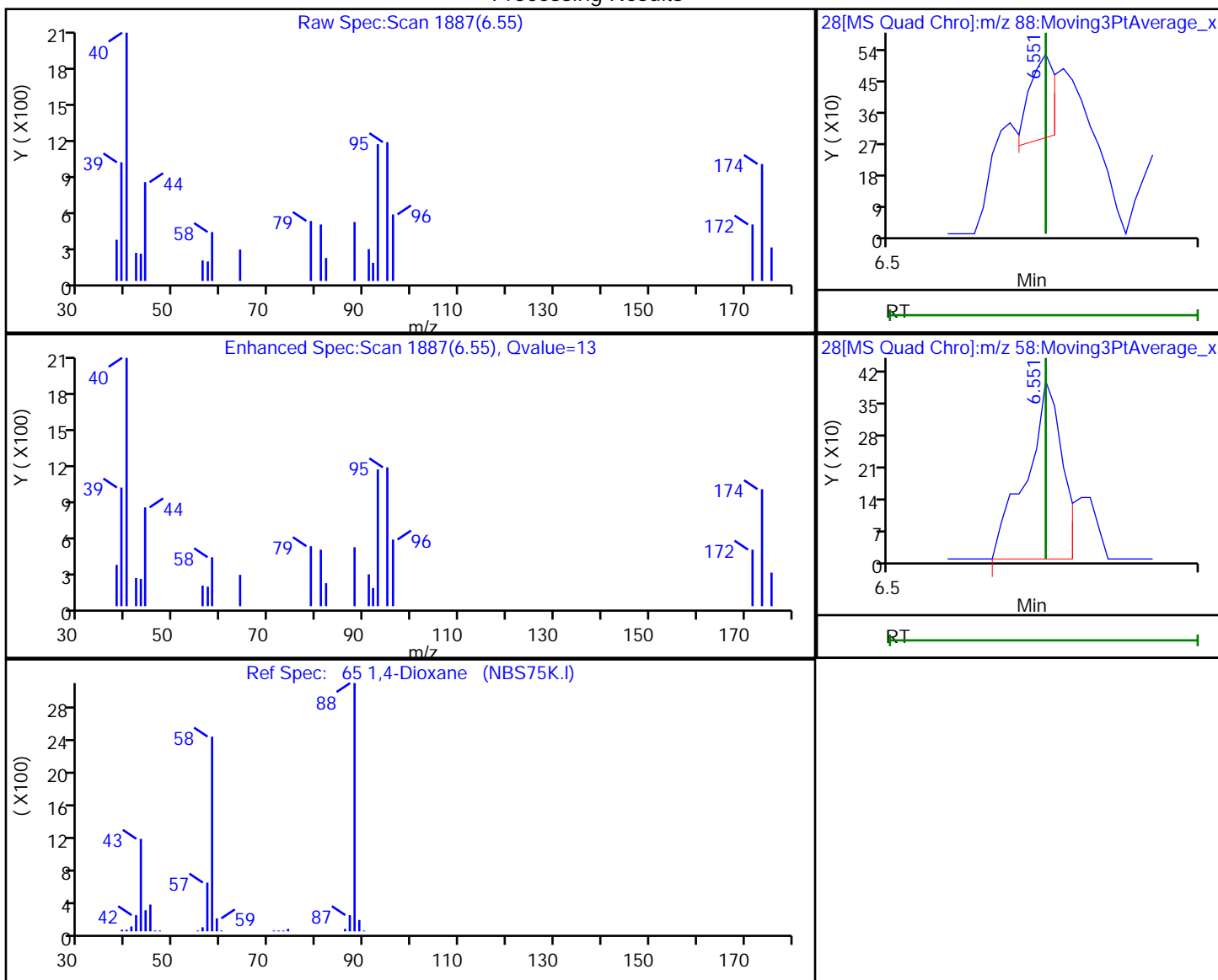
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.55	88.00	139	25.456744
6.55	58.00	320	

Reviewer: BQP0, 28-Jun-2022 19:33:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

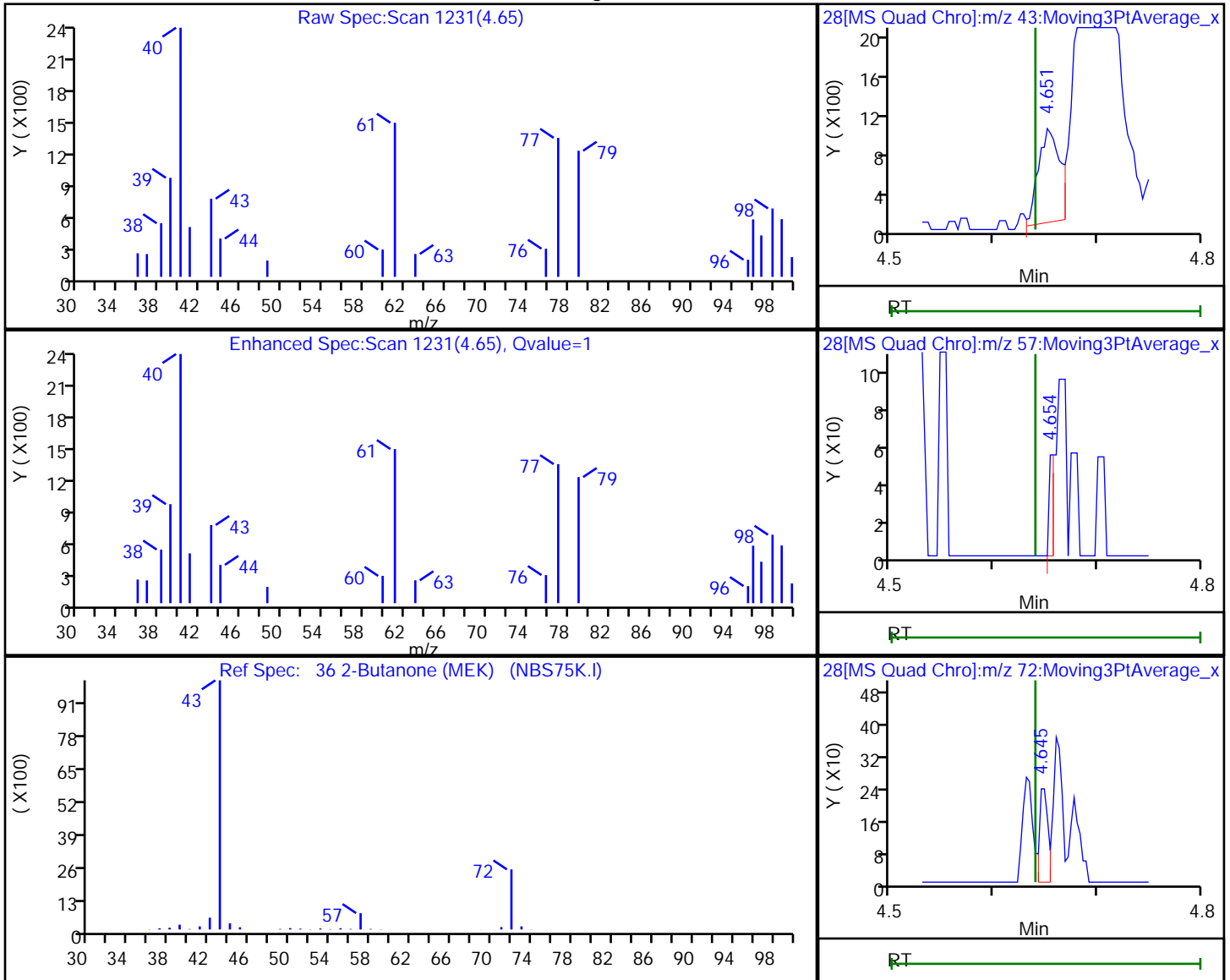
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.65	43.00	1390	2.332945
4.65	57.00	18	
4.65	72.00	135	

Reviewer: BQP0, 28-Jun-2022 11:31:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

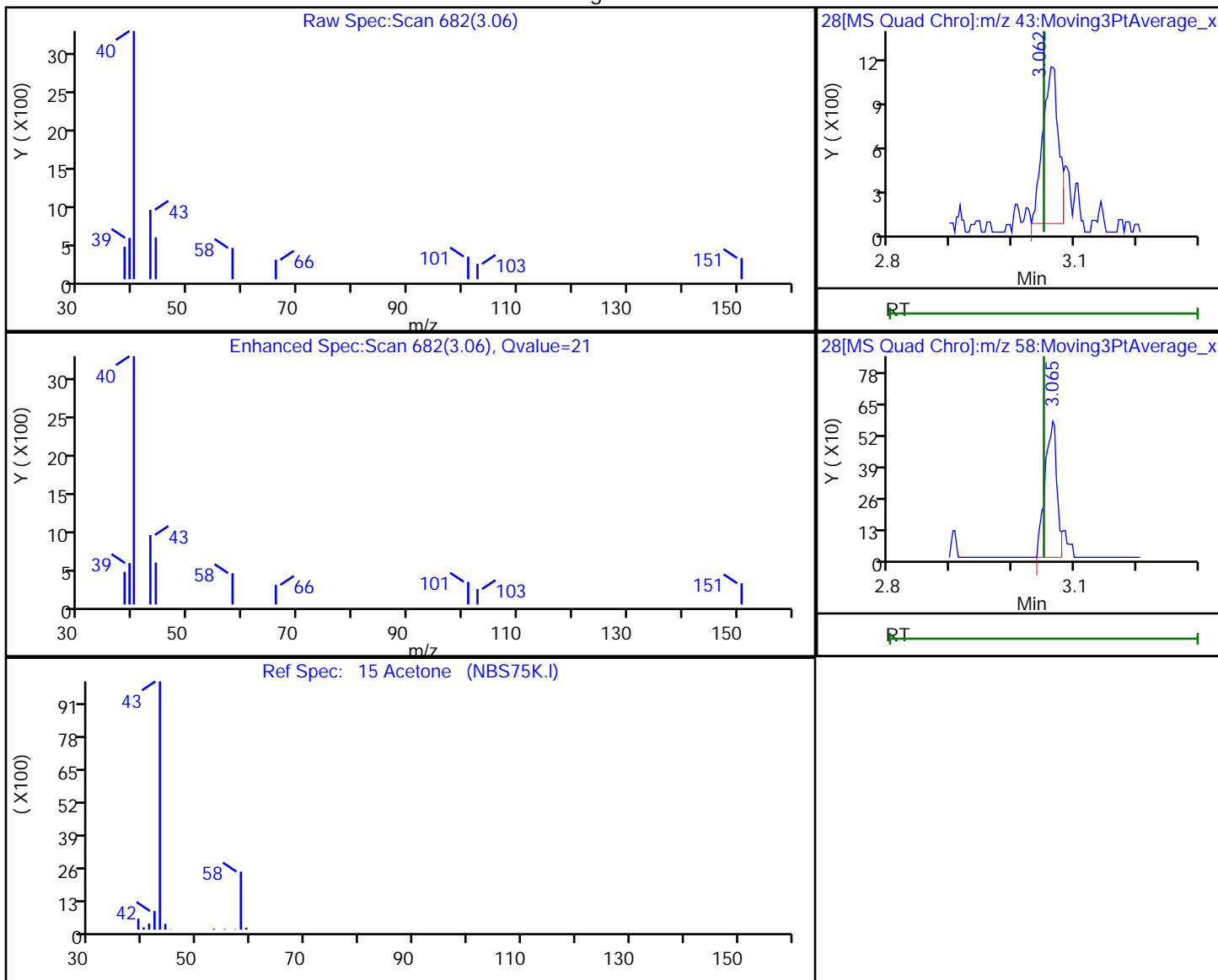
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.06	43.00	1866	2.000000
3.06	58.00	770	

Reviewer: BQP0, 28-Jun-2022 11:31:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago

Data File: \\chromfms\Chicago\ChromData\CMS29\20220628-86672.b\std040628.D

Injection Date: 28-Jun-2022 09:56:13

Instrument ID: CMS29

Lims ID: STD04

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

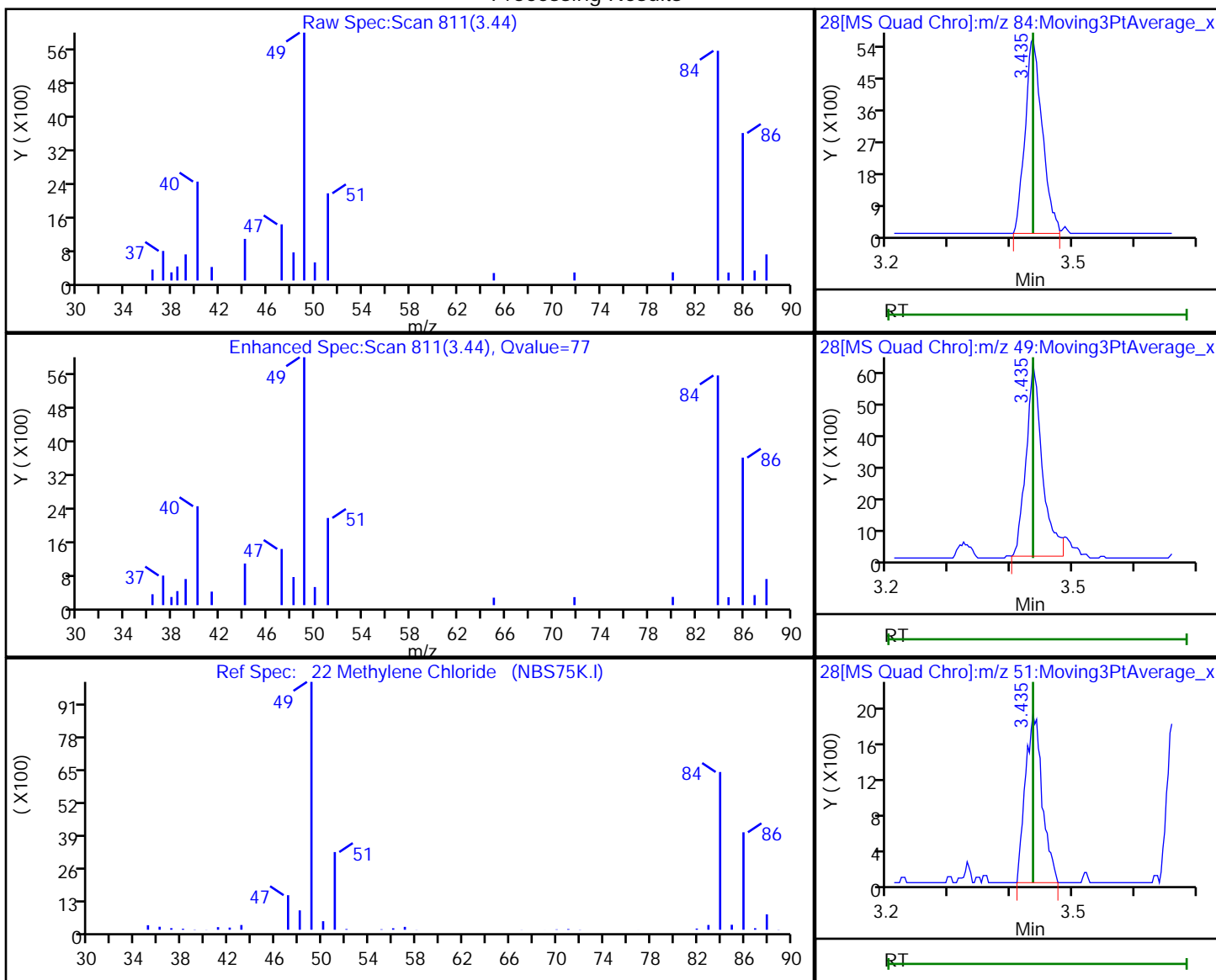
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

22 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.44	84.00	10788	2.138882
3.44	49.00	11470	
3.44	51.00	3583	

Reviewer: BQP0, 28-Jun-2022 11:31:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D
 Lims ID: STD05
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Jun-2022 10:19:38 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std05
 Misc. Info.: 500-0086672-006
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:11 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 11:31:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.606	1.588	0.018	79	19933	5.00	4.87	
2 Chloromethane	50	1.808	1.796	0.012	82	15409	5.00	5.49	Ma
3 Vinyl chloride	62	1.912	1.907	0.006	74	16304	5.00	4.99	
4 Butadiene	39	1.918	1.915	0.003	94	13734	5.00	4.98	M
6 Bromomethane	94	2.205	2.196	0.009	87	25185	5.00	5.09	
7 Chloroethane	64	2.286	2.268	0.018	90	19509	5.00	5.16	Ma
8 Dichlorofluoromethane	67	2.500	2.494	0.006	72	35136	5.00	4.90	
9 Trichlorofluoromethane	101	2.512	2.497	0.015	78	36685	5.00	4.78	M
11 Ethyl ether	59	2.798	2.790	0.008	76	11377	5.00	5.22	
12 Acrolein	56	2.914	2.908	0.006	92	45159	200.0	195.3	
13 1,1-Dichloroethene	96	2.998	2.989	0.009	85	18772	5.00	5.07	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.016	3.013	0.003	91	23144	5.00	5.13	
15 Acetone	43	3.062	3.050	0.012	63	4480	5.00	5.87	M
16 Iodomethane	142	3.137	3.128	0.009	98	35171	5.00	5.05	a
17 Carbon disulfide	76	3.198	3.189	0.009	99	61261	5.00	5.04	
20 3-Chloro-1-propene	76	3.331	3.322	0.009	78	9949	5.00	4.69	
21 Methyl acetate	43	3.354	3.345	0.009	91	11995	10.0	9.18	
22 Methylene Chloride	84	3.438	3.435	0.003	81	20738	5.00	5.53	
* 23 TBA-d9 (IS)	65	3.482	3.482	0.000	0	205696	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.557	0.003	92	11002	50.0	49.6	M
25 Acrylonitrile	53	3.673	3.664	0.009	97	34259	50.0	49.0	
26 trans-1,2-Dichloroethene	96	3.693	3.687	0.006	78	20080	5.00	4.89	
27 Methyl tert-butyl ether	73	3.693	3.690	0.003	89	41477	5.00	4.62	
28 Hexane	57	3.942	3.933	0.009	87	21843	5.00	4.66	
29 1,1-Dichloroethane	63	4.084	4.078	0.006	80	29584	5.00	4.89	
30 Vinyl acetate	43	4.130	4.121	0.009	96	17271	5.00	4.47	
35 cis-1,2-Dichloroethene	96	4.631	4.628	0.003	80	20644	5.00	5.15	
34 2,2-Dichloropropane	77	4.640	4.628	0.012	73	24490	5.00	4.84	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.657	4.640	0.017	56	2666	5.00	4.03	a
40 Chlorobromomethane	128	4.863	4.860	0.003	73	9780	5.00	5.27	
41 Tetrahydrofuran	42	4.912	4.909	0.003	63	5730	10.0	11.8	M
42 Chloroform	83	4.938	4.935	0.003	80	36180	5.00	5.16	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	61	77589	20.0	20.8	
44 1,1,1-Trichloroethane	97	5.126	5.123	0.003	88	31609	5.00	5.01	
45 Cyclohexane	56	5.178	5.178	0.000	85	22469	5.00	4.71	
47 1,1-Dichloropropene	75	5.288	5.282	0.006	87	23045	5.00	4.88	
46 Carbon tetrachloride	117	5.288	5.285	0.003	77	29476	5.00	4.92	
48 Isobutyl alcohol	43	5.393	5.390	0.003	74	8859	125.0	117.2	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.439	5.433	0.006	60	70239	20.0	20.3	
50 Benzene	78	5.500	5.494	0.006	95	59623	5.00	4.78	
51 1,2-Dichloroethane	62	5.520	5.511	0.009	86	20406	5.00	5.00	a
54 n-Heptane	43	5.755	5.754	0.001	55	15290	5.00	4.65	a
* 55 Fluorobenzene (IS)	96	5.781	5.775	0.006	99	621950	50.0	50.0	
57 Trichloroethene	130	6.166	6.160	0.006	82	19564	5.00	5.26	
59 Methylcyclohexane	83	6.371	6.368	0.003	90	28427	5.00	4.83	
60 1,2-Dichloropropane	63	6.409	6.406	0.003	83	13735	5.00	5.23	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	15970	1000.0	1000.0	
63 Dibromomethane	93	6.533	6.533	0.000	83	10244	5.00	5.19	
65 1,4-Dioxane	88	6.548	6.551	-0.003	1	2029	100.0	107.3	M
66 Dichlorobromomethane	83	6.707	6.704	0.003	87	22867	5.00	4.97	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	75	4727	5.00	4.50	M
69 cis-1,3-Dichloropropene	75	7.214	7.211	0.003	75	21154	5.00	4.72	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	73	6725	5.00	4.20	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.521	0.003	94	222251	20.0	19.6	
72 Toluene	92	7.602	7.602	0.000	87	36205	5.00	4.75	
73 trans-1,3-Dichloropropene	75	7.865	7.862	0.003	90	18830	5.00	4.71	
74 Ethyl methacrylate	69	7.978	7.972	0.006	75	11964	5.00	4.43	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	77	11336	5.00	4.80	
76 Tetrachloroethene	166	8.259	8.259	0.000	83	18270	5.00	5.20	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	85	18266	5.00	4.73	
78 2-Hexanone	43	8.398	8.398	0.000	70	5394	5.00	4.85	
79 Chlorodibromomethane	129	8.572	8.569	0.003	77	16132	5.00	4.79	
81 Ethylene Dibromide	107	8.719	8.713	0.006	84	11671	5.00	4.80	
* 82 Chlorobenzene-d5	117	9.304	9.301	0.003	85	452741	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	92	44235	5.00	4.88	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.446	0.003	83	17235	5.00	4.84	
86 Ethylbenzene	91	9.487	9.487	0.000	94	68623	5.00	4.67	
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	98	51078	5.00	4.57	
88 o-Xylene	91	10.118	10.118	0.000	92	55094	5.00	4.62	
89 Styrene	104	10.135	10.135	0.000	88	41073	5.00	4.33	
90 Bromoform	173	10.341	10.341	0.000	81	10107	5.00	4.74	
91 Isopropylbenzene	105	10.535	10.535	0.000	94	68735	5.00	4.70	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	86	81060	20.0	20.4	
95 Bromobenzene	156	10.847	10.850	-0.003	91	17401	5.00	4.87	
96 1,1,2,2-Tetrachloroethane	83	10.853	10.853	0.000	72	16282	5.00	5.22	
97 1,2,3-Trichloropropane	110	10.900	10.899	0.001	84	4656	5.00	5.19	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	65	3483	5.00	4.90	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	84749	5.00	4.83	
100 2-Chlorotoluene	91	11.050	11.050	0.000	94	49098	5.00	4.79	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	93	59218	5.00	4.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	58104	5.00	4.69	
104 tert-Butylbenzene	119	11.458	11.461	-0.003	92	52011	5.00	4.59	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	94	60990	5.00	4.59	
107 sec-Butylbenzene	105	11.664	11.664	0.000	93	82238	5.00	4.65	
108 1,3-Dichlorobenzene	146	11.759	11.762	-0.003	97	36786	5.00	4.86	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	95	70056	5.00	4.66	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	259866	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	91	39182	5.00	4.99	
115 n-Butylbenzene	91	12.159	12.159	0.000	96	66955	5.00	4.74	
114 1,2-Dichlorobenzene	146	12.174	12.171	0.004	93	34890	5.00	4.81	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	31	2817	5.00	4.77	
118 1,2,4-Trichlorobenzene	180	13.459	13.462	-0.003	89	21612	5.00	4.82	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	90	14685	5.00	5.28	
120 Naphthalene	128	13.647	13.647	0.000	98	36172	5.00	4.55	
121 1,2,3-Trichlorobenzene	180	13.827	13.827	0.000	90	19369	5.00	4.92	
S 124 Xylenes, Total	1				0			9.19	
S 125 Trihalomethanes, Total	1				0			19.6	
S 126 1,2-Dichloroethene, Total	1				0			10.0	
S 127 Trimethylbenzene, Total	1				0			9.17	
S 128 1,3-Dichloropropene, Total	1				0			9.43	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LOW8260ACR_00321	Amount Added: 5.00	Units: uL
LO8260/624STD_00540	Amount Added: 5.00	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL
8260 LOWSS1_00198	Amount Added: 2.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D

Injection Date: 28-Jun-2022 10:19:38

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD05

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

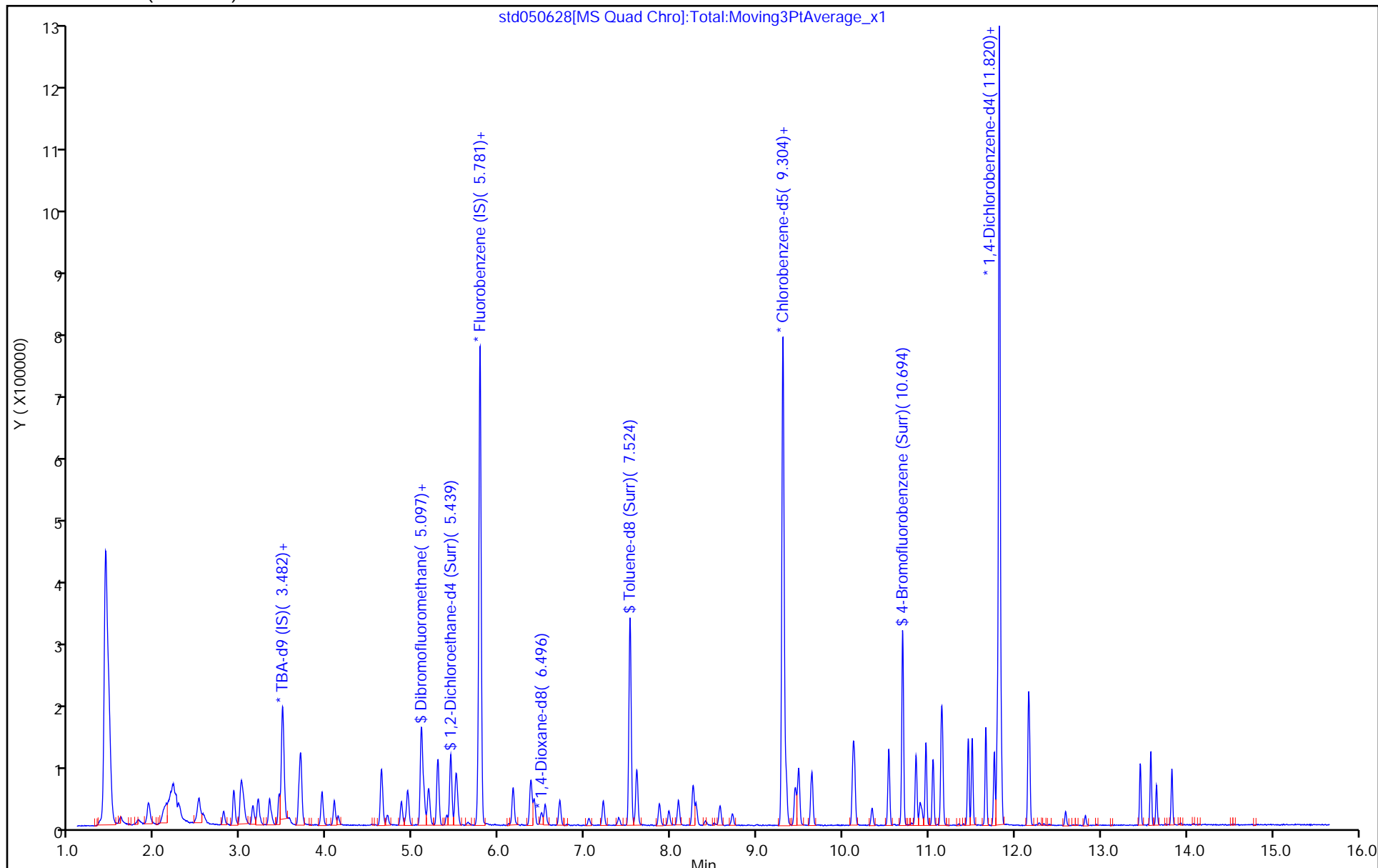
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

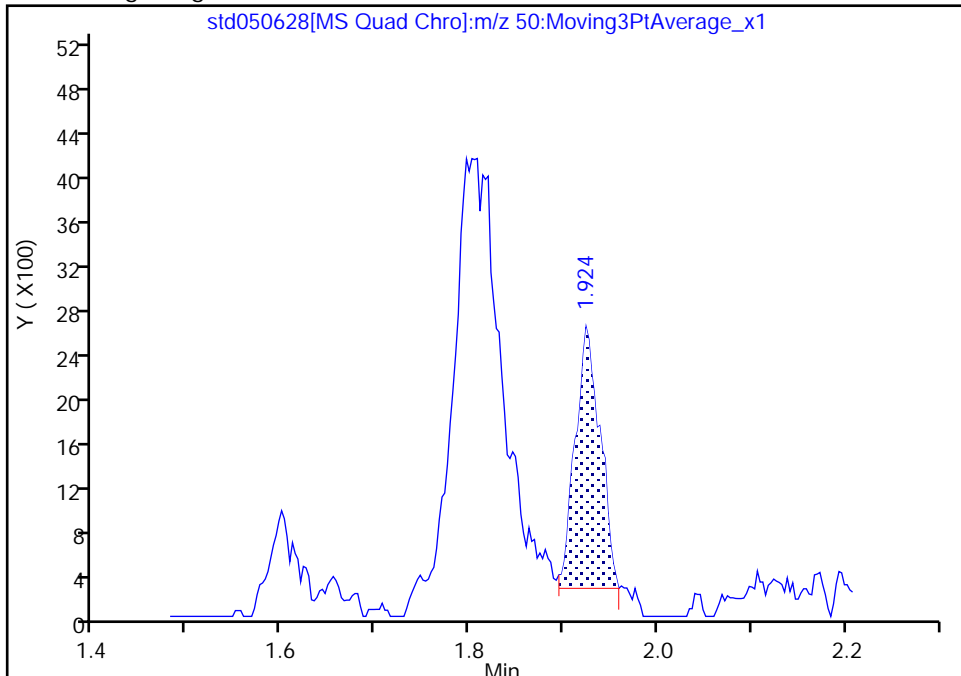
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

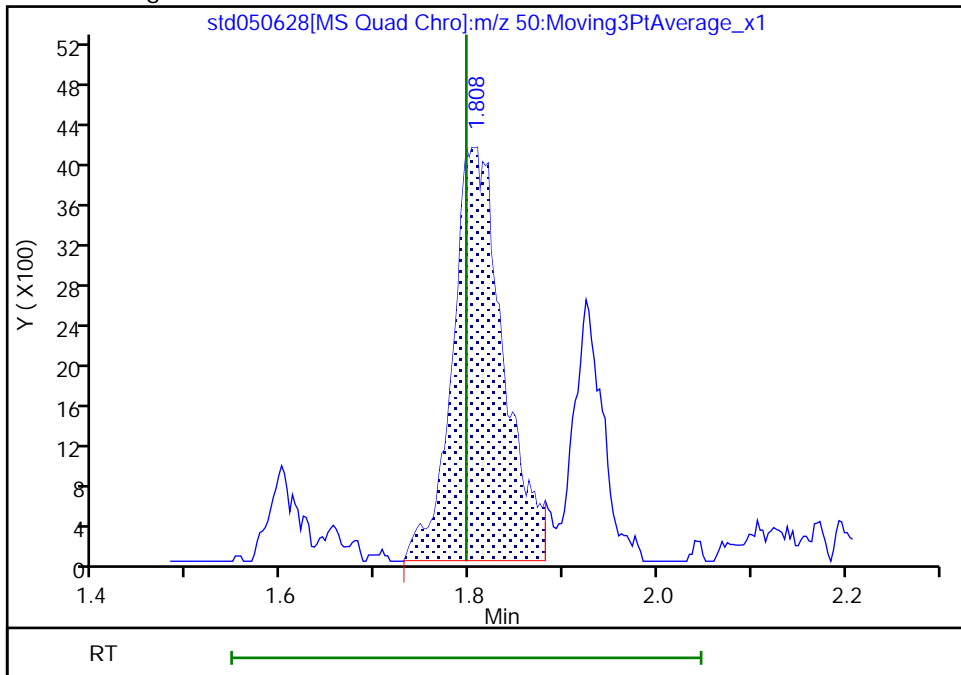
RT: 1.92
Area: 4279
Amount: 1.752365
Amount Units: ug/l

Processing Integration Results



RT: 1.81
Area: 15409
Amount: 5.493234
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:28:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

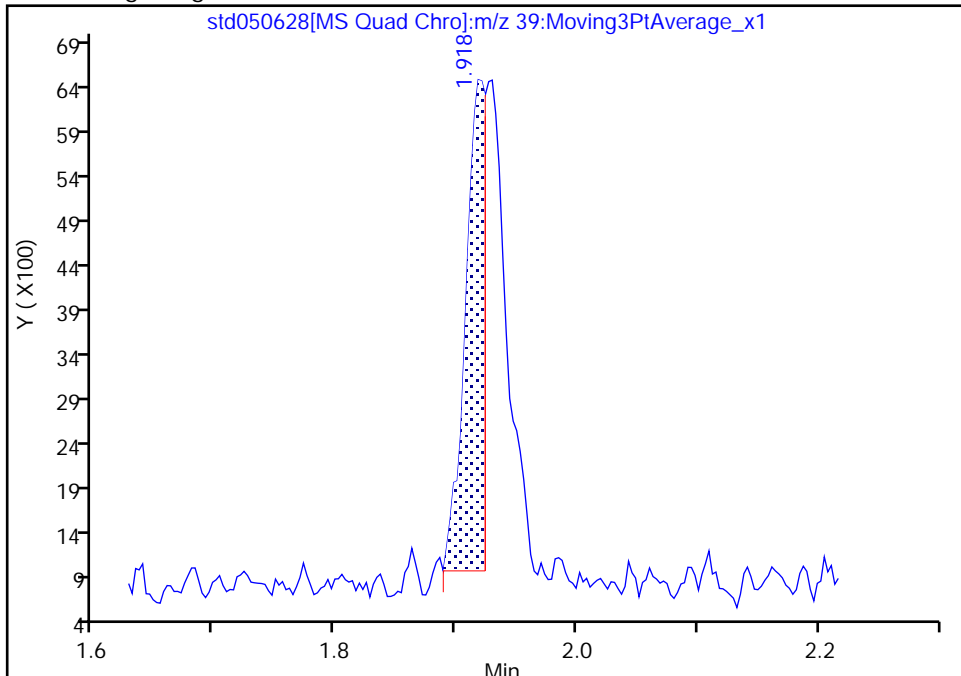
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

4 Butadiene, CAS: 106-99-0

Signal: 1

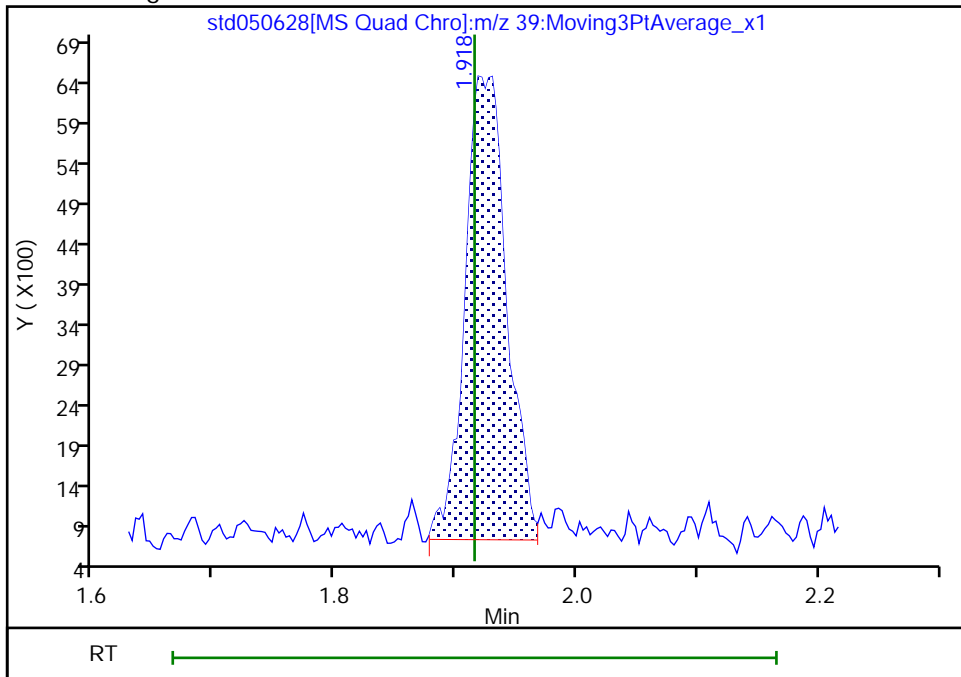
RT: 1.92
Area: 6299
Amount: 2.576875
Amount Units: ug/l

Processing Integration Results



RT: 1.92
Area: 13734
Amount: 4.982701
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:28:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D

Injection Date: 28-Jun-2022 10:19:38

Instrument ID: CMS29

Lims ID: STD05

Client ID:

Operator ID: PF

ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

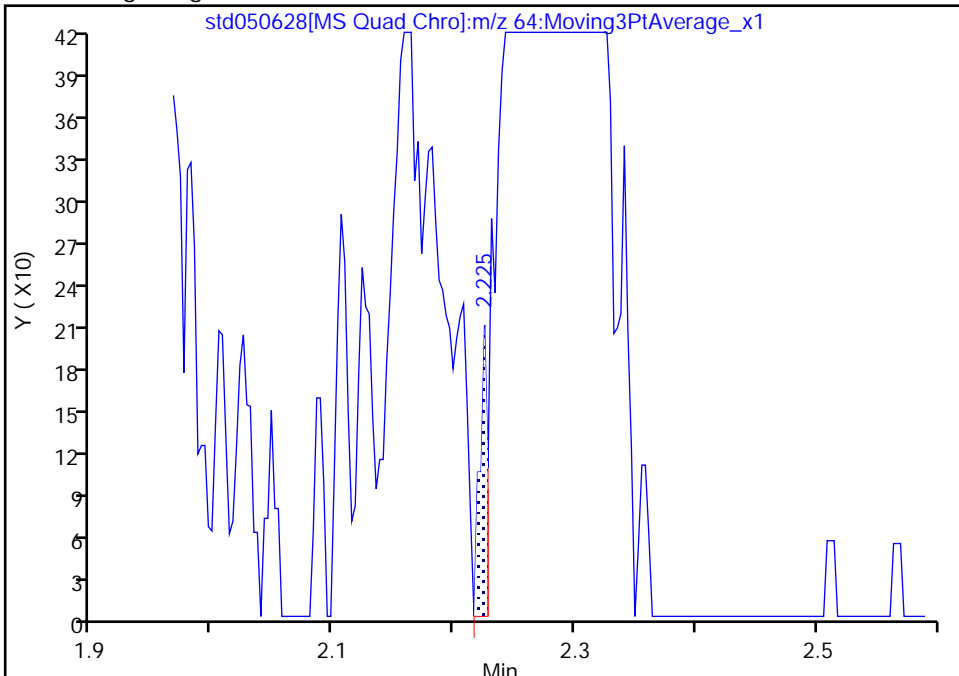
Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

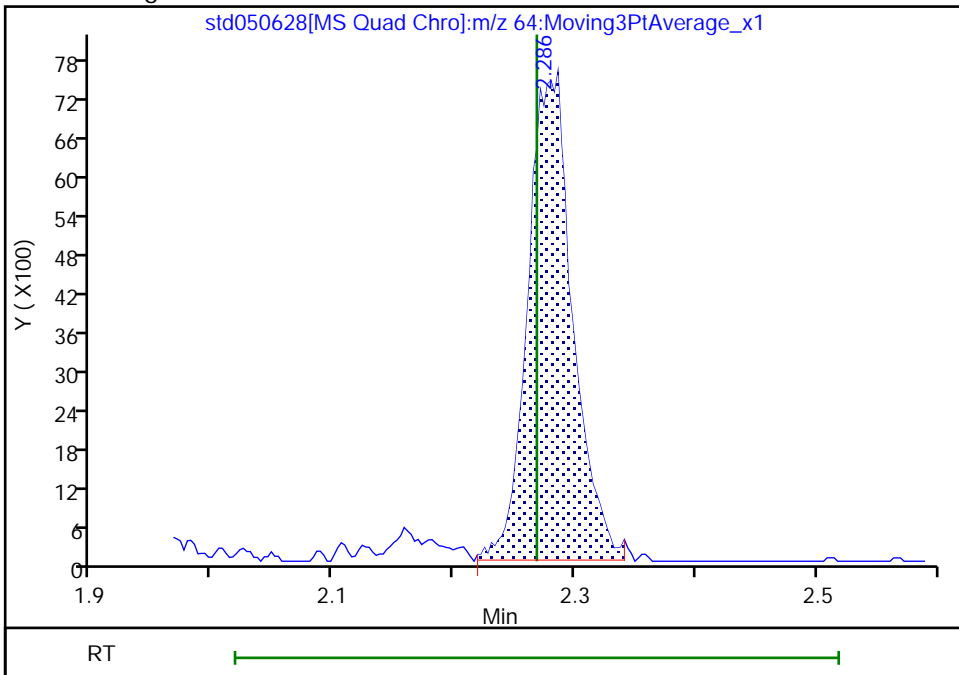
RT: 2.23
Area: 90
Amount: 0.029887
Amount Units: ug/l

Processing Integration Results



RT: 2.29
Area: 19509
Amount: 5.163398
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:28:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

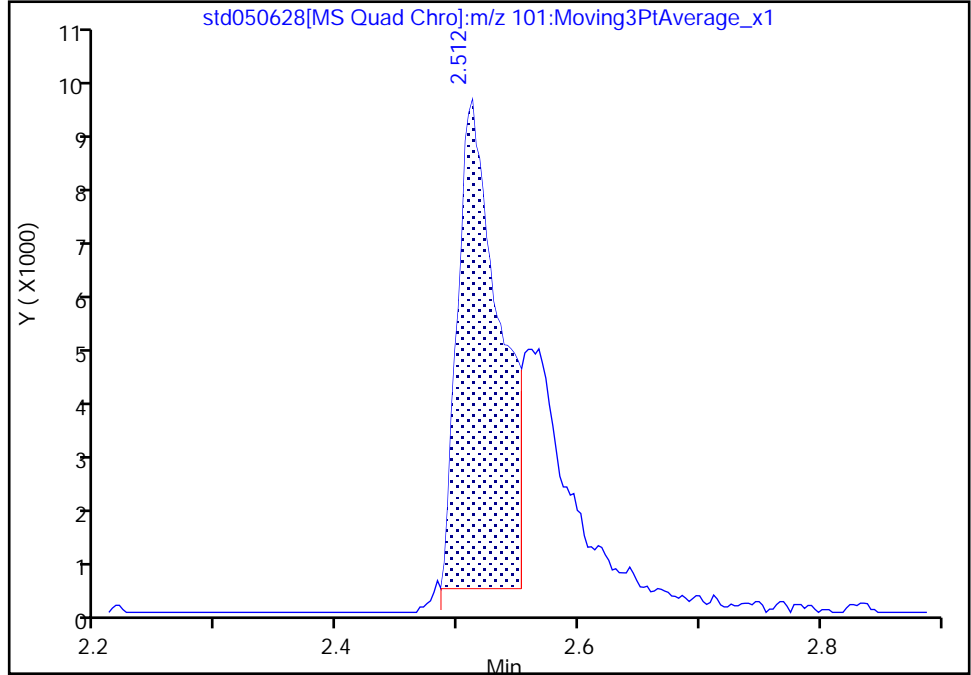
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

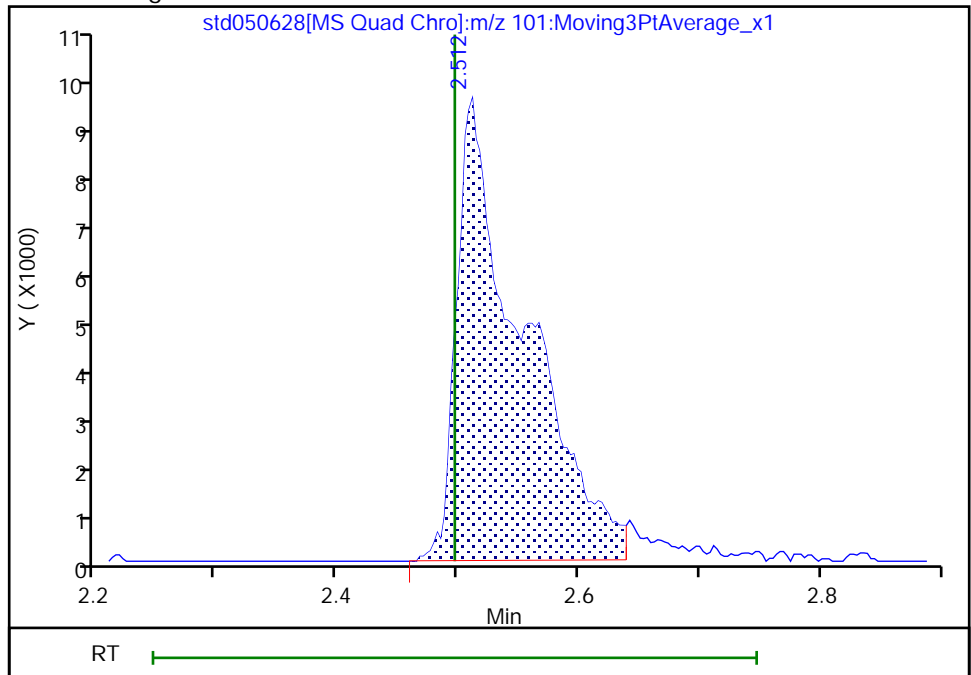
RT: 2.51
Area: 22065
Amount: 3.751625
Amount Units: ug/l

Processing Integration Results



RT: 2.51
Area: 36685
Amount: 4.784892
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:29:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

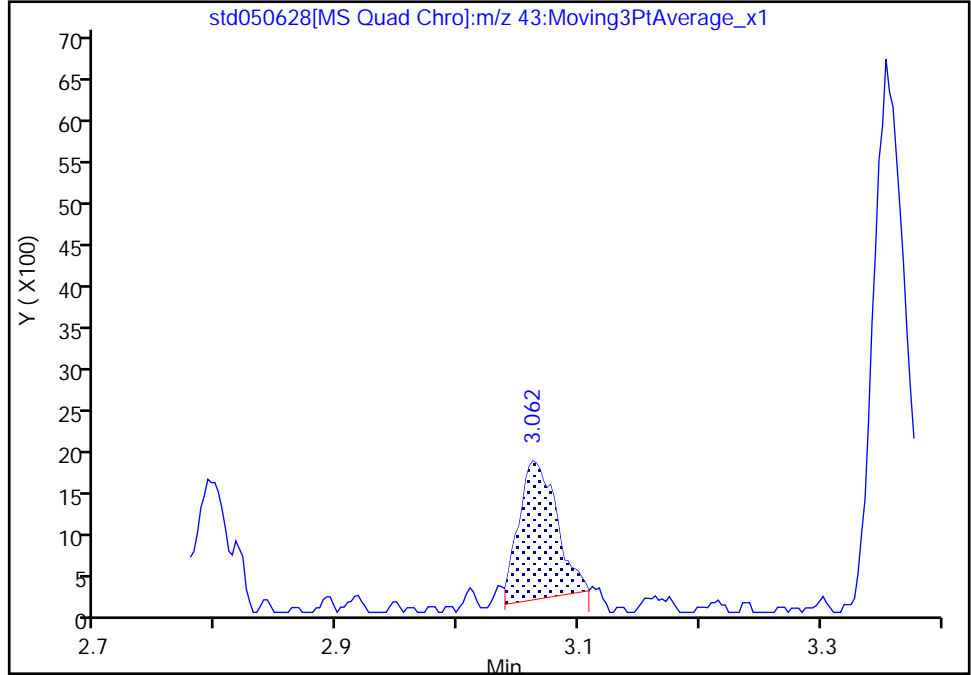
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

15 Acetone, CAS: 67-64-1

Signal: 1

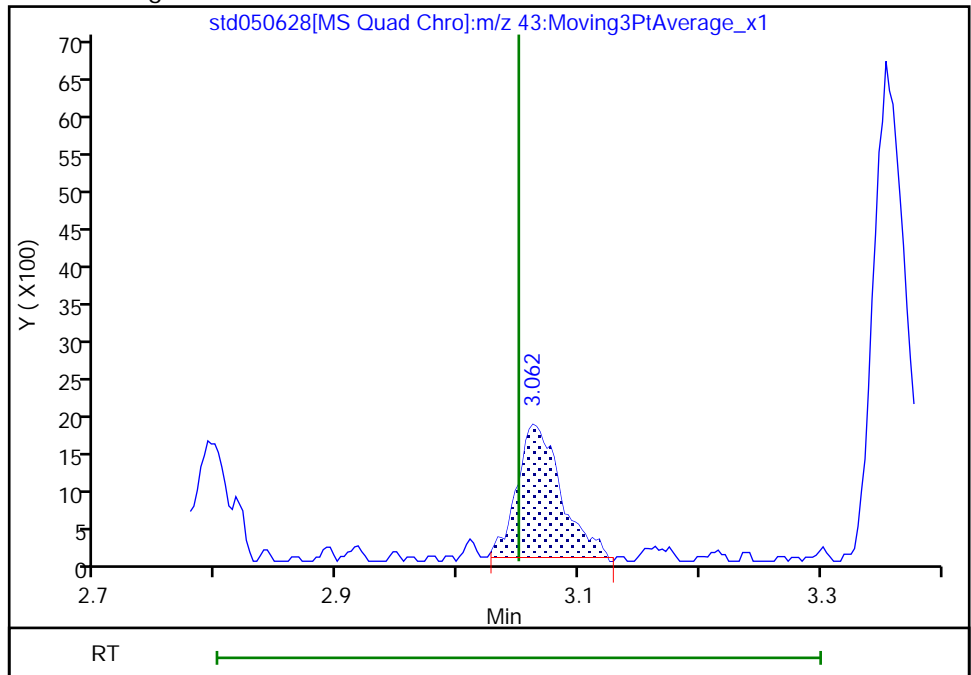
RT: 3.06
Area: 3644
Amount: 5.266437
Amount Units: ug/l

Processing Integration Results



RT: 3.06
Area: 4480
Amount: 5.874064
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:29:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

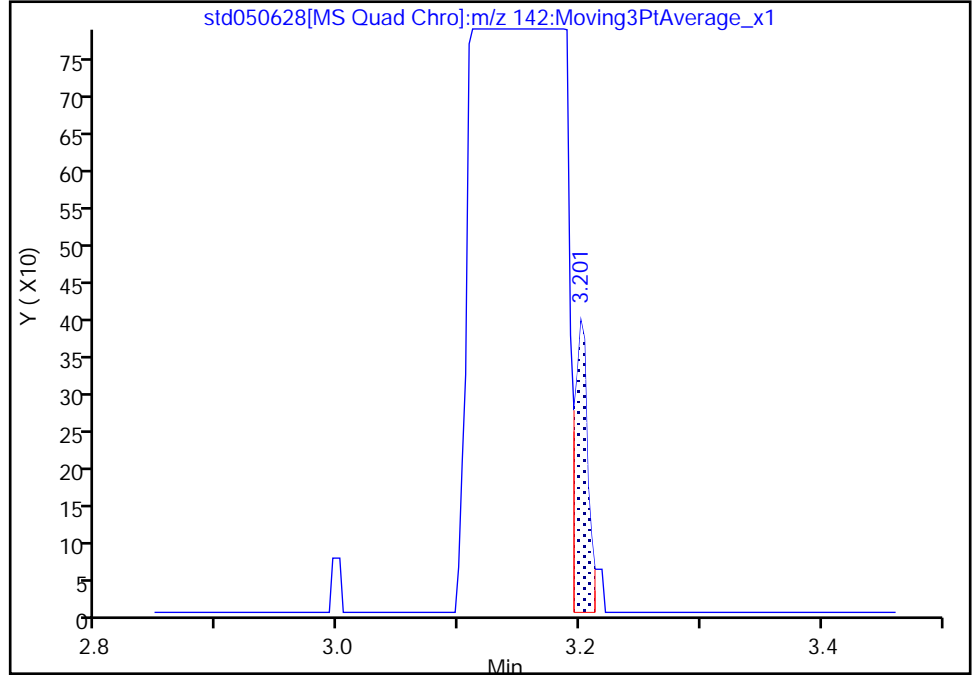
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

16 Iodomethane, CAS: 74-88-4

Signal: 1

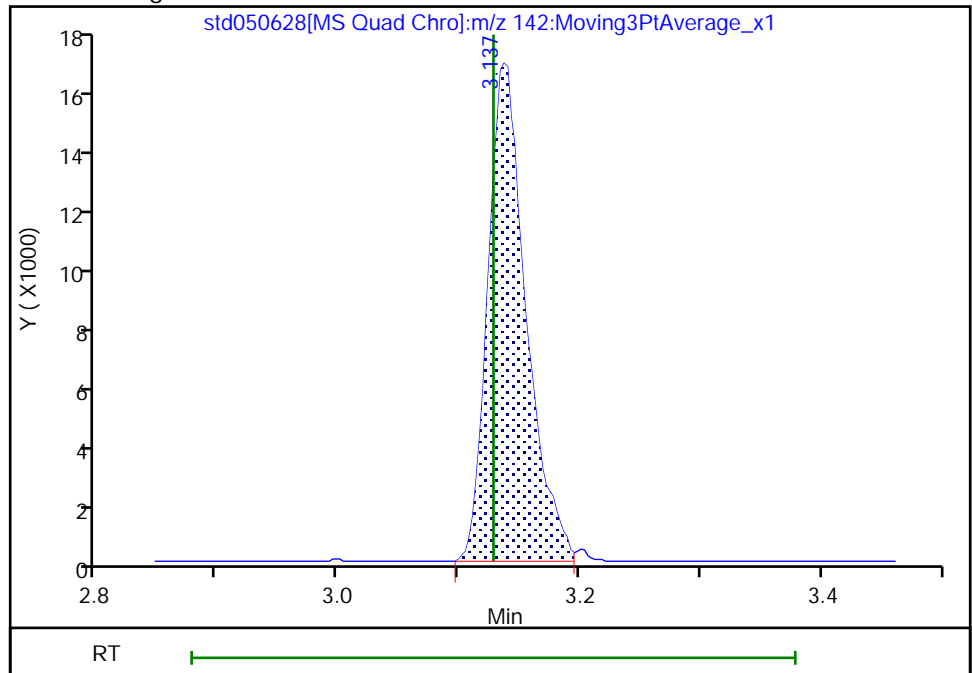
RT: 3.20
Area: 293
Amount: 0.051487
Amount Units: ug/l

Processing Integration Results



RT: 3.14
Area: 35171
Amount: 5.049237
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:29:53
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

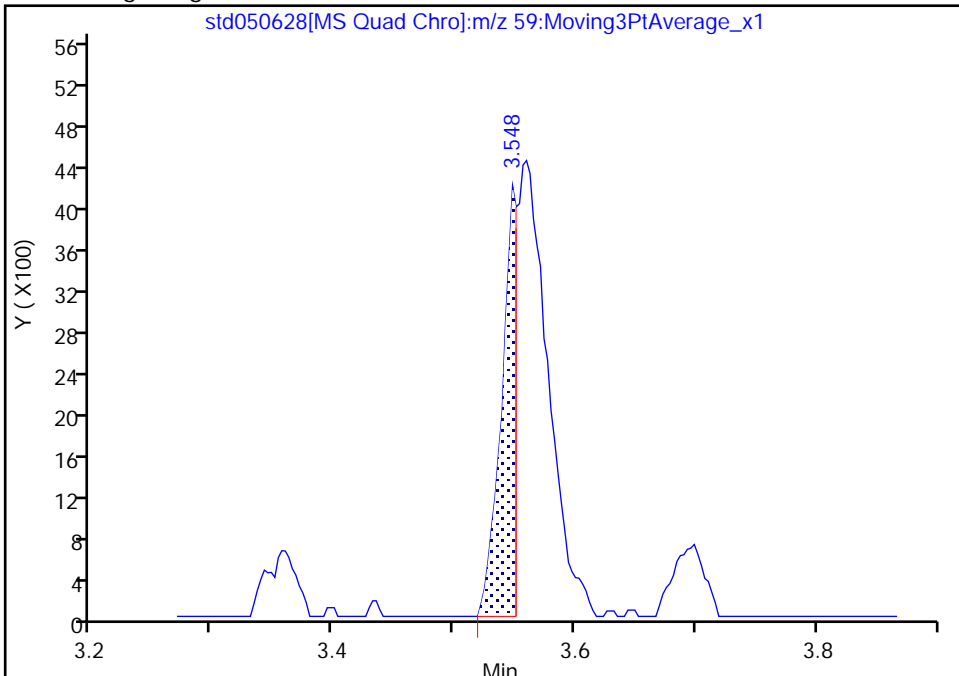
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

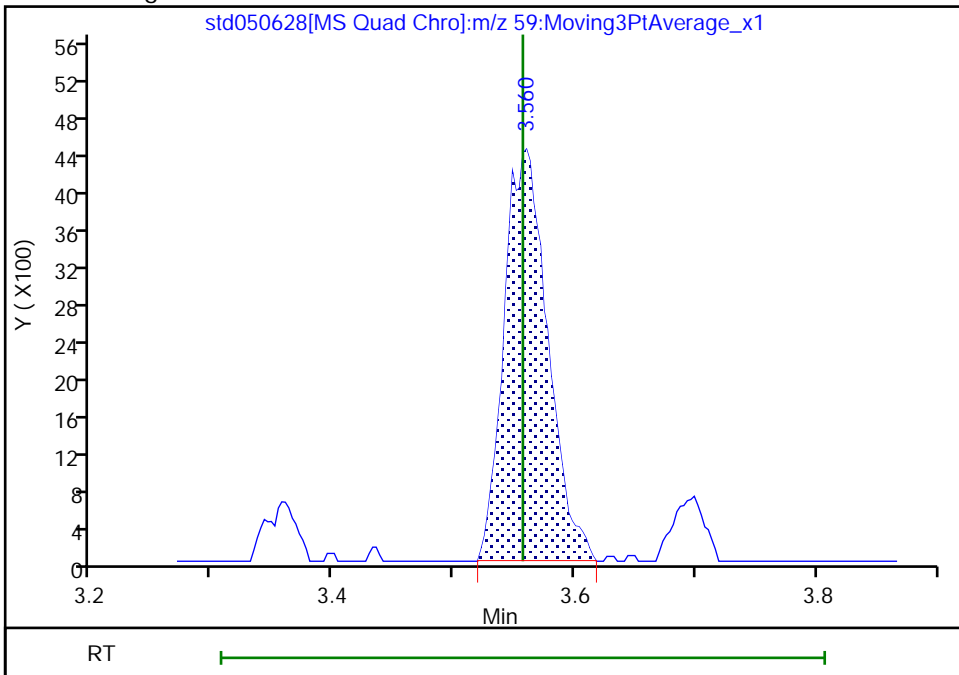
RT: 3.55
Area: 3650
Amount: 18.681838
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 11002
Amount: 49.645022
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:30:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

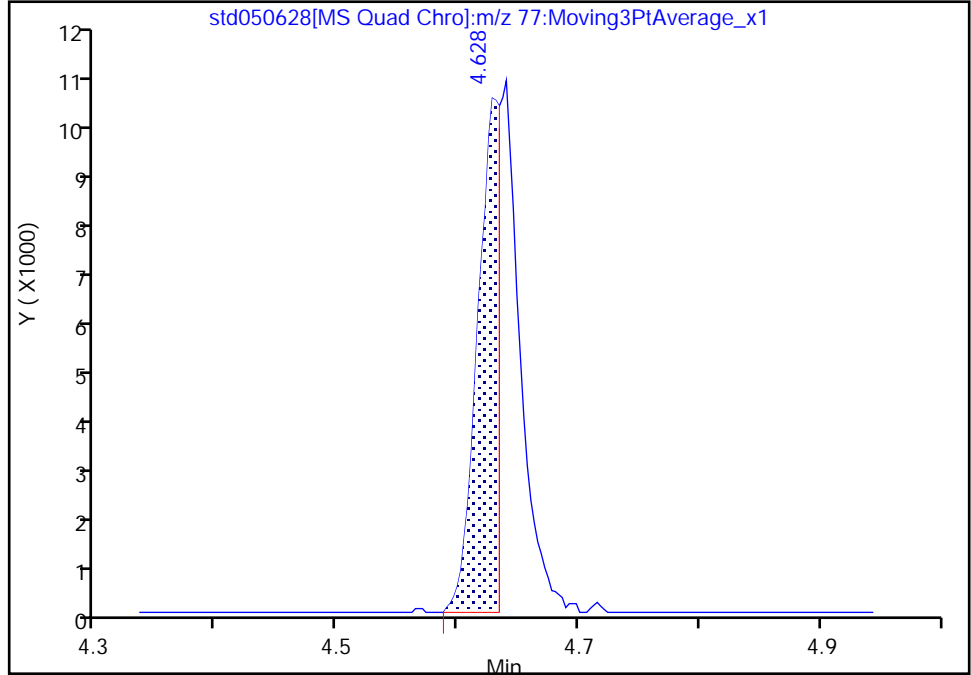
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

34 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

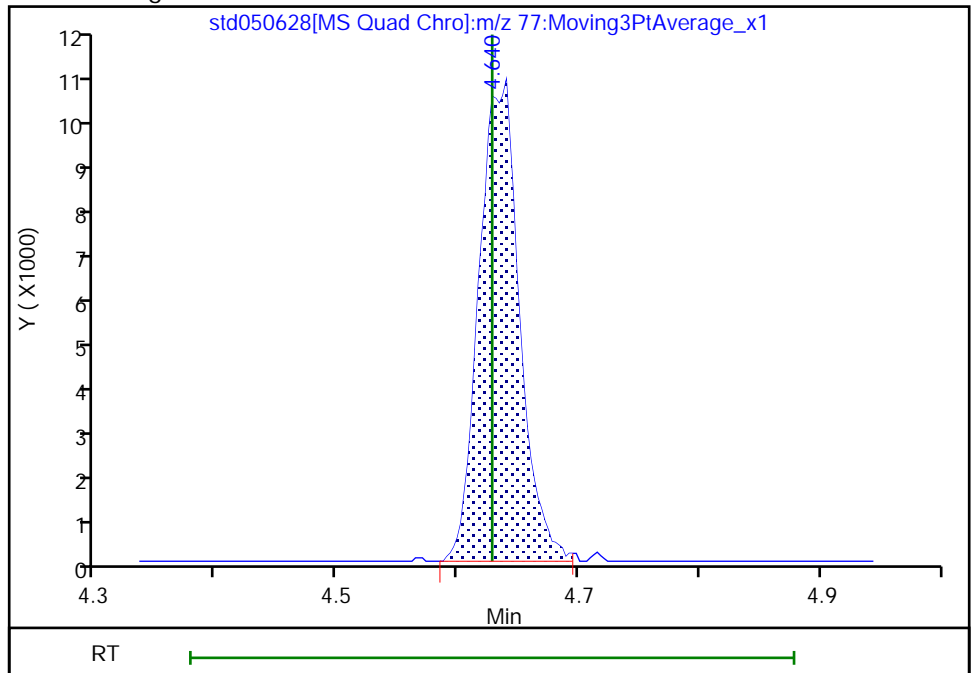
RT: 4.63
Area: 12960
Amount: 3.219917
Amount Units: ug/l

Processing Integration Results



RT: 4.64
Area: 24490
Amount: 4.835644
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:30:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

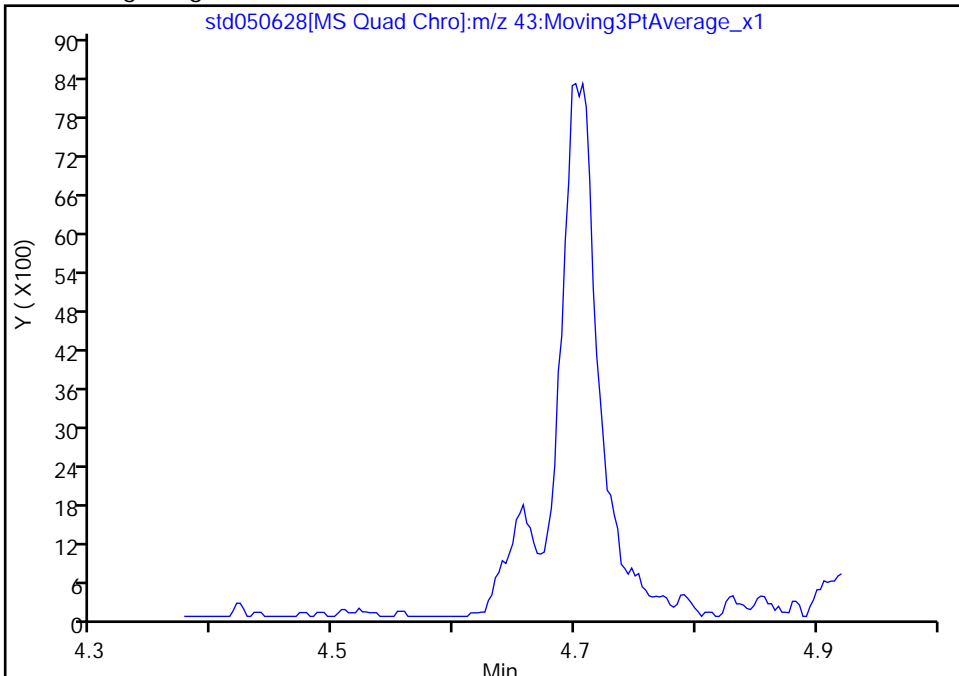
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

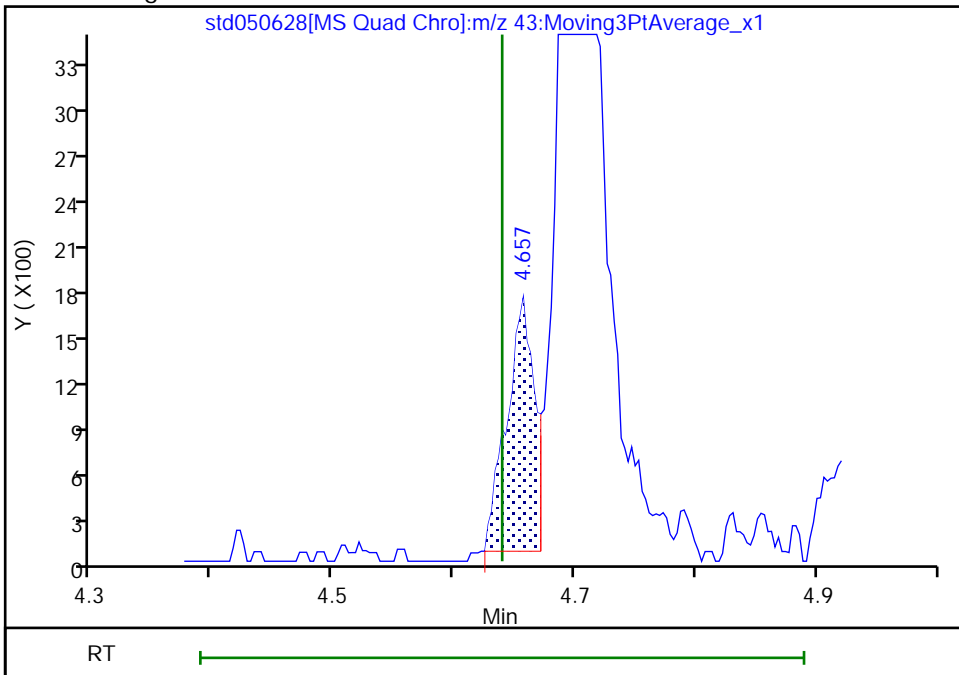
Not Detected
Expected RT: 4.64

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 2666
Amount: 4.025697
Amount Units: ug/l



Eurofins Chicago

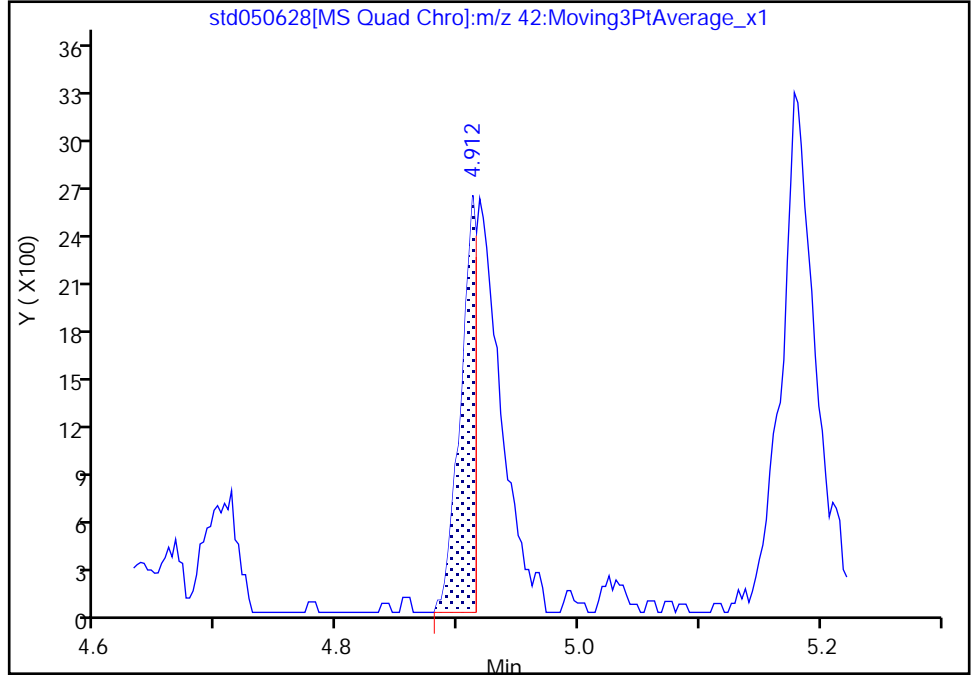
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

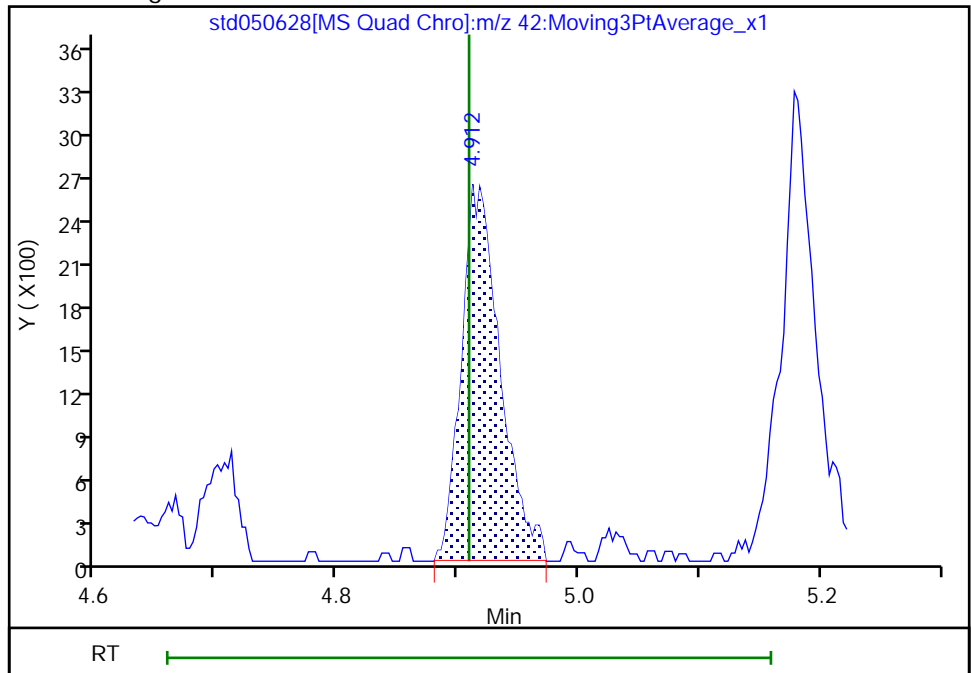
RT: 4.91
Area: 2387
Amount: 10.000000
Amount Units: ug/l

Processing Integration Results



RT: 4.91
Area: 5730
Amount: 11.782791
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:30:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

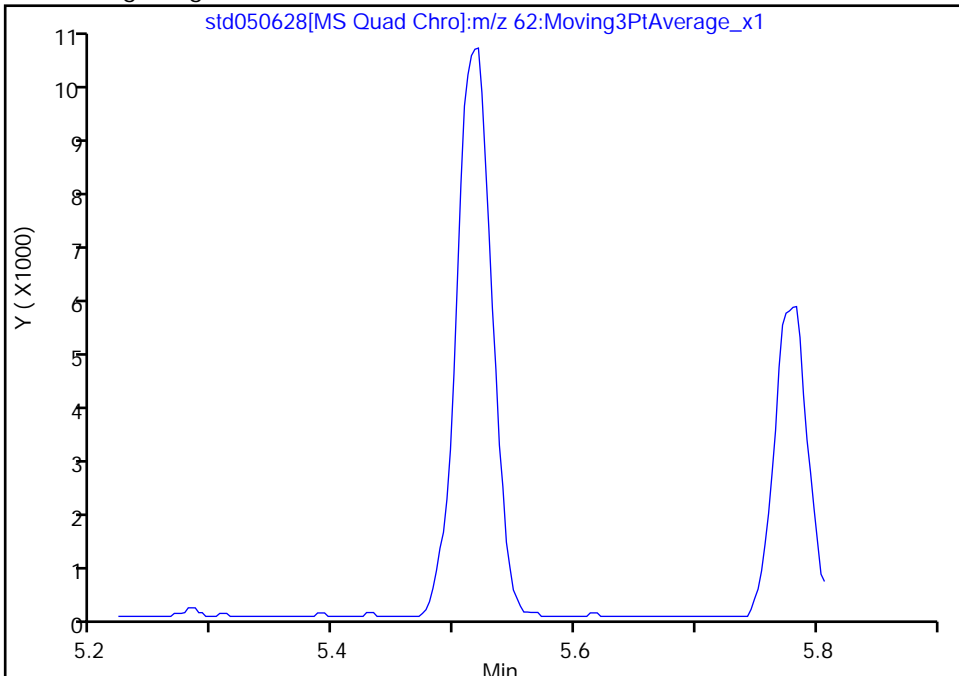
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Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

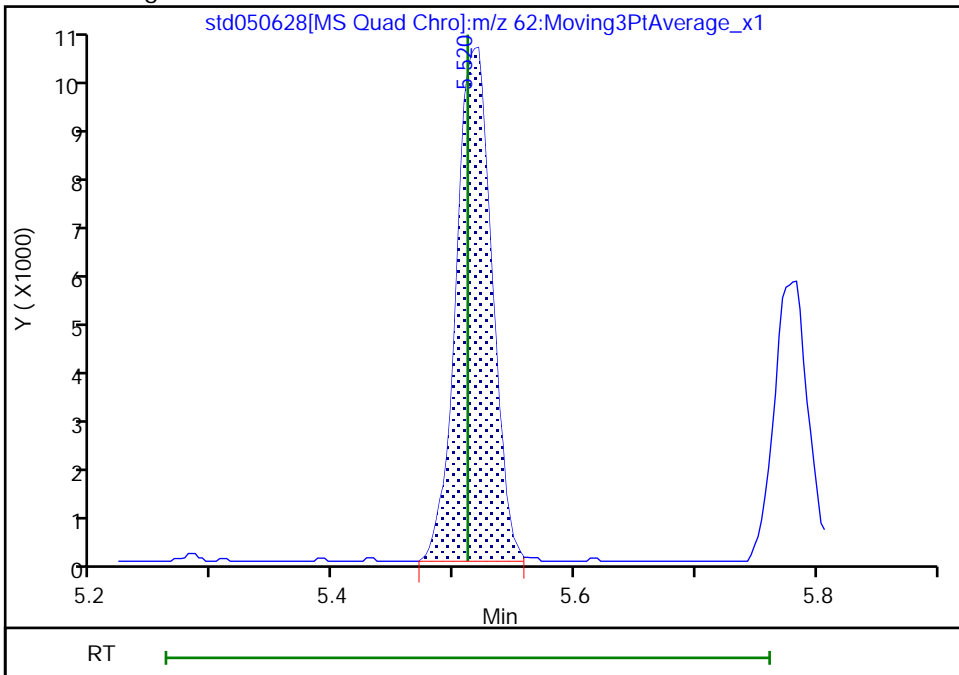
Not Detected
Expected RT: 5.51

Processing Integration Results



Manual Integration Results

RT: 5.52
Area: 20406
Amount: 5.000258
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 11:30:44
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Chicago

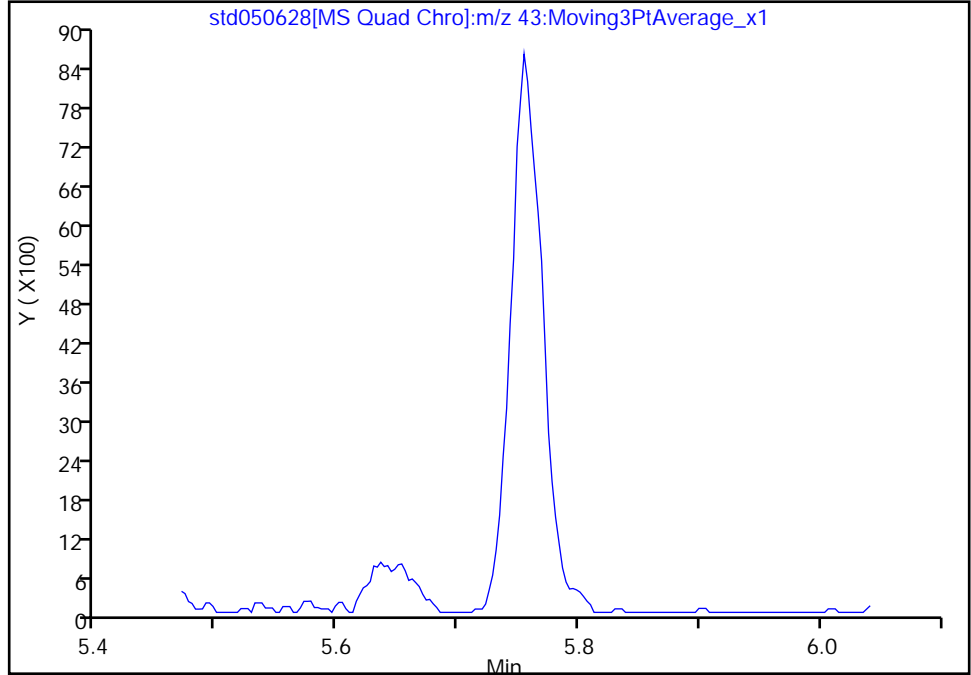
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D
Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5

Signal: 1

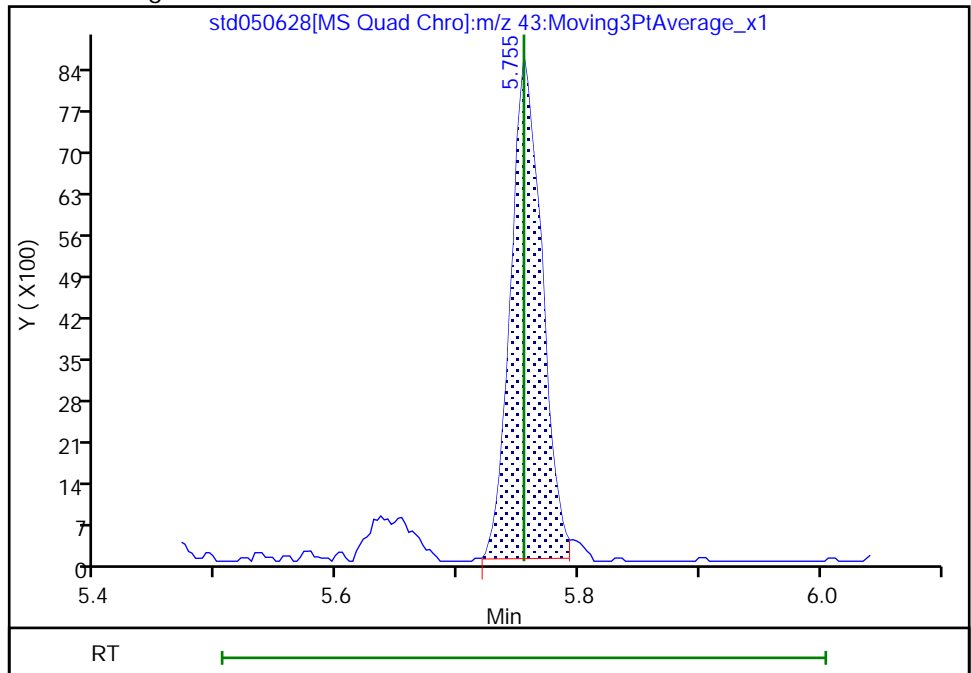
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 15290
Amount: 4.648465
Amount Units: ug/l



Eurofins Chicago

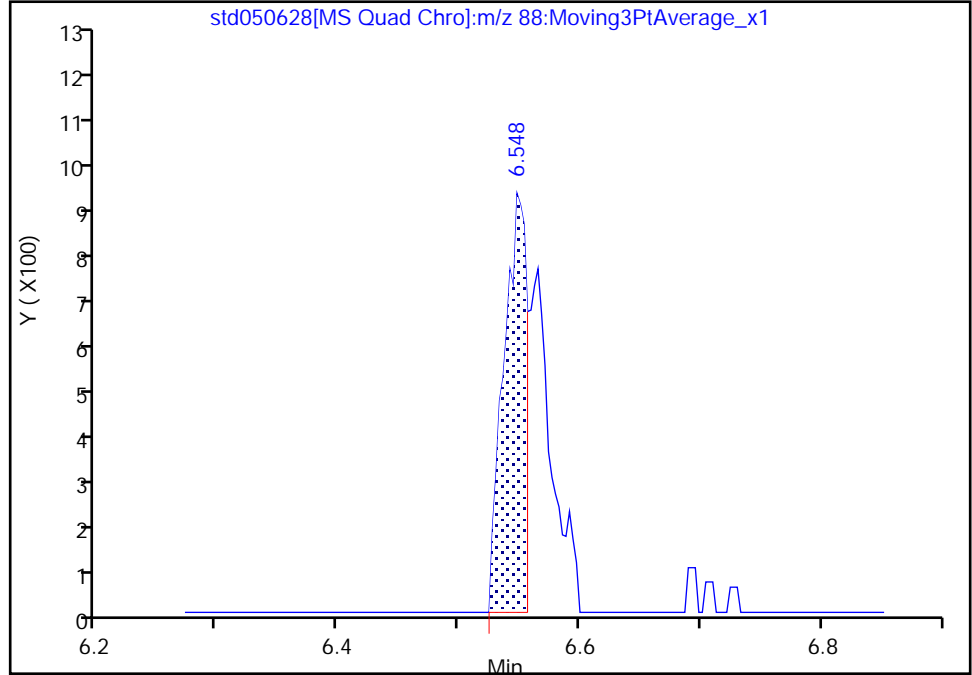
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D
Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

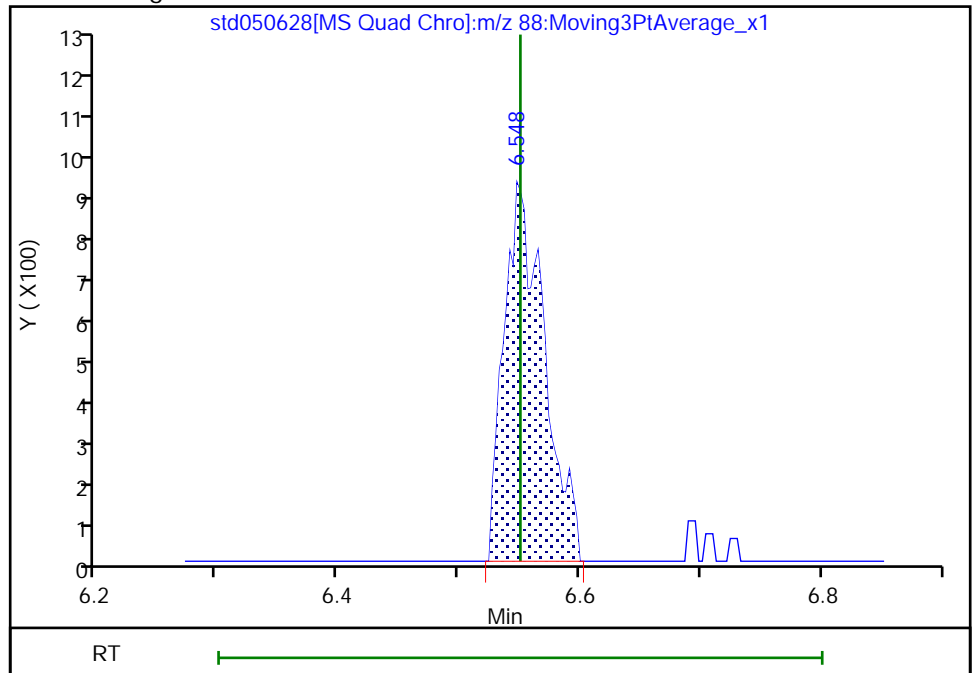
RT: 6.55
Area: 1145
Amount: 100.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.55
Area: 2029
Amount: 107.3492
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:31:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

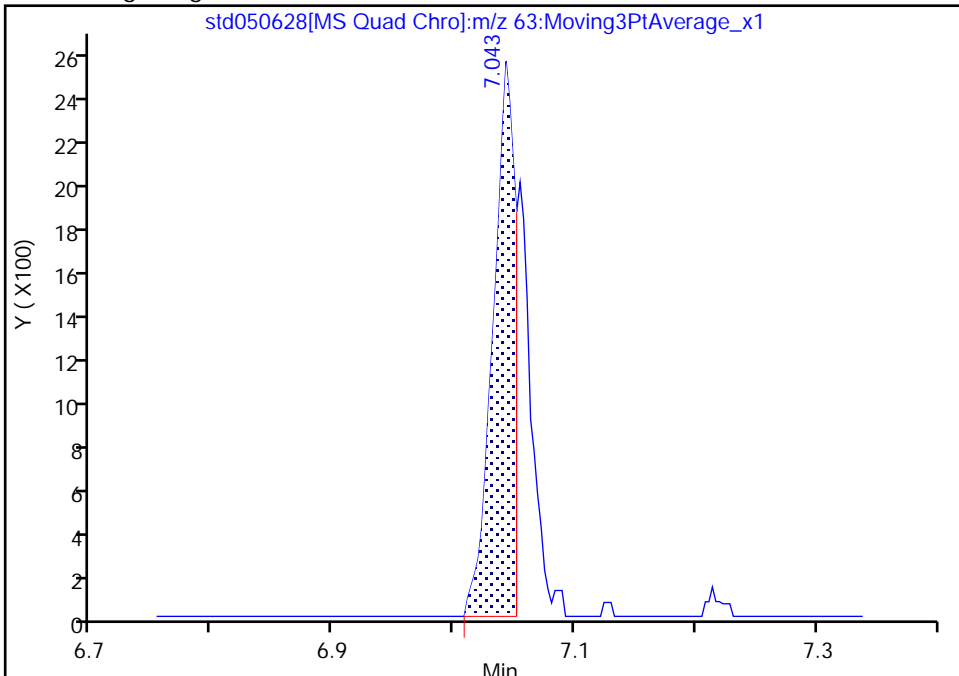
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std050628.D
Injection Date: 28-Jun-2022 10:19:38 Instrument ID: CMS29
Lims ID: STD05
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

68 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

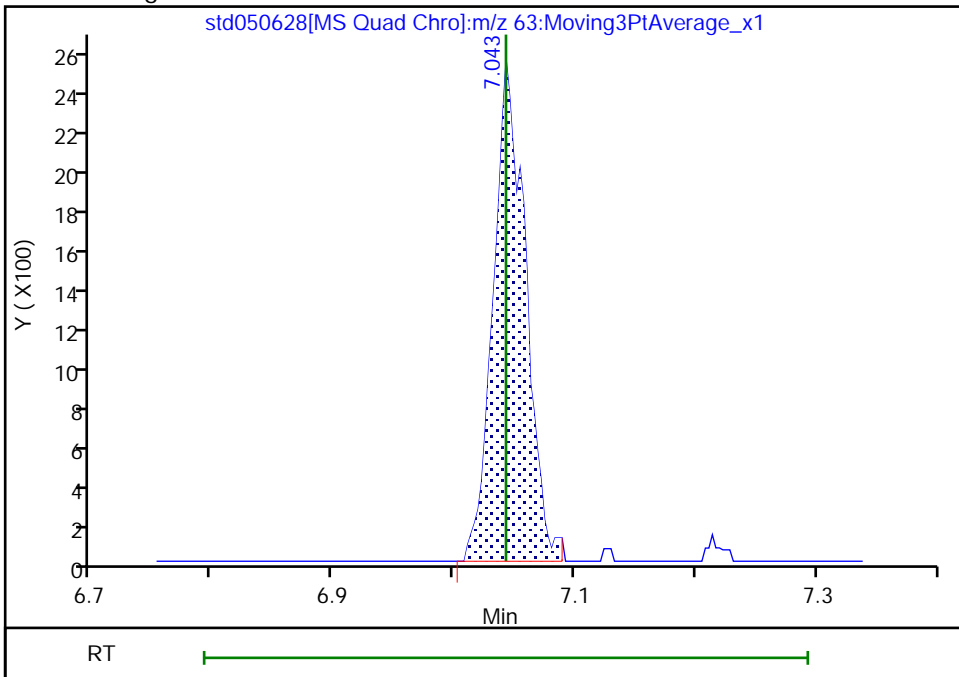
RT: 7.04
Area: 3219
Amount: 4.738416
Amount Units: ug/l

Processing Integration Results



RT: 7.04
Area: 4727
Amount: 4.504956
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:31:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std060628.D
 Lims ID: STD06
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 28-Jun-2022 10:43:14 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std06
 Misc. Info.: 500-0086672-007
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:19 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 11:33:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.594	1.588	0.006	86	76533	20.0	17.8	
2 Chloromethane	50	1.799	1.796	0.003	87	52624	20.0	17.8	
3 Vinyl chloride	62	1.907	1.907	0.001	82	58376	20.0	17.0	
4 Butadiene	39	1.918	1.915	0.003	97	55336	20.0	19.1	
6 Bromomethane	94	2.202	2.196	0.006	91	89273	20.0	20.3	
7 Chloroethane	64	2.280	2.268	0.012	93	63189	20.0	15.9	
8 Dichlorofluoromethane	67	2.491	2.494	-0.003	81	142041	20.0	18.8	
9 Trichlorofluoromethane	101	2.503	2.497	0.006	73	144222	20.0	17.9	M
11 Ethyl ether	59	2.795	2.790	0.005	85	46622	20.0	20.3	
12 Acrolein	56	2.914	2.908	0.006	97	202414	800.0	831.8	
13 1,1-Dichloroethene	96	2.992	2.989	0.003	91	75754	20.0	19.4	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.018	3.013	0.005	87	92479	20.0	19.5	
15 Acetone	43	3.059	3.050	0.009	91	10857	20.0	16.8	
16 Iodomethane	142	3.131	3.128	0.003	96	143493	20.0	19.6	
17 Carbon disulfide	76	3.192	3.189	0.003	99	251502	20.0	19.7	
20 3-Chloro-1-propene	76	3.325	3.322	0.003	84	43461	20.0	19.5	
21 Methyl acetate	43	3.354	3.345	0.009	91	52708	40.0	38.3	
22 Methylene Chloride	84	3.438	3.435	0.003	88	82433	20.0	20.9	
* 23 TBA-d9 (IS)	65	3.487	3.482	0.005	0	240909	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.557	0.003	95	48682	200.0	187.6	
25 Acrylonitrile	53	3.670	3.664	0.006	94	144284	200.0	196.1	
26 trans-1,2-Dichloroethene	96	3.690	3.687	0.003	77	82095	20.0	19.0	
27 Methyl tert-butyl ether	73	3.693	3.690	0.003	90	180079	20.0	19.0	
28 Hexane	57	3.936	3.933	0.003	91	88647	20.0	19.8	
29 1,1-Dichloroethane	63	4.081	4.078	0.003	85	125019	20.0	19.6	
30 Vinyl acetate	43	4.127	4.121	0.006	98	73210	20.0	18.0	
35 cis-1,2-Dichloroethene	96	4.631	4.628	0.003	88	81750	20.0	19.4	
34 2,2-Dichloropropane	77	4.631	4.628	0.003	69	97983	20.0	18.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.648	4.640	0.008	49	13585	20.0	19.5	
40 Chlorobromomethane	128	4.863	4.860	0.003	82	38446	20.0	19.7	
41 Tetrahydrofuran	42	4.912	4.909	0.003	73	19964	40.0	39.0	
42 Chloroform	83	4.938	4.935	0.003	82	144559	20.0	19.6	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	71	120627	30.0	30.8	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	90	127665	20.0	19.2	
45 Cyclohexane	56	5.178	5.178	0.000	89	101115	20.0	20.1	
47 1,1-Dichloropropene	75	5.283	5.282	0.001	90	97910	20.0	19.7	
46 Carbon tetrachloride	117	5.288	5.285	0.003	82	121842	20.0	19.3	
48 Isobutyl alcohol	43	5.395	5.390	0.005	87	41766	500.0	471.7	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.433	0.003	64	110700	30.0	30.4	
50 Benzene	78	5.497	5.494	0.003	94	251899	20.0	19.2	
51 1,2-Dichloroethane	62	5.514	5.511	0.003	83	82978	20.0	19.3	
54 n-Heptane	43	5.754	5.754	0.000	83	66494	20.0	19.2	
* 55 Fluorobenzene (IS)	96	5.778	5.775	0.003	99	654607	50.0	50.0	
57 Trichloroethene	130	6.166	6.160	0.006	88	74174	20.0	19.0	
59 Methylcyclohexane	83	6.371	6.368	0.003	91	117797	20.0	19.0	
60 1,2-Dichloropropane	63	6.409	6.406	0.003	88	55896	20.0	20.2	
* 62 1,4-Dioxane-d8	96	6.493	6.496	-0.003	0	18270	1000.0	1000.0	
63 Dibromomethane	93	6.539	6.533	0.006	93	39987	20.0	19.2	
65 1,4-Dioxane	88	6.554	6.551	0.003	39	9313	400.0	430.7	
66 Dichlorobromomethane	83	6.707	6.704	0.003	91	93129	20.0	19.2	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	87	19119	20.0	17.8	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	86	87607	20.0	19.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.393	7.390	0.003	93	29581	20.0	18.0	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.521	0.003	94	347269	30.0	29.9	
72 Toluene	92	7.602	7.602	0.000	93	150420	20.0	19.3	
73 trans-1,3-Dichloropropene	75	7.865	7.862	0.003	90	77321	20.0	18.9	
74 Ethyl methacrylate	69	7.975	7.972	0.003	93	53008	20.0	19.2	
75 1,1,2-Trichloroethane	97	8.088	8.085	0.003	88	44342	20.0	18.3	
76 Tetrachloroethene	166	8.259	8.259	0.000	86	70489	20.0	19.6	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	75379	20.0	19.1	
78 2-Hexanone	43	8.401	8.398	0.003	93	21277	20.0	18.7	
79 Chlorodibromomethane	129	8.569	8.569	0.000	84	66188	20.0	19.2	
81 Ethylene Dibromide	107	8.716	8.713	0.003	96	47622	20.0	19.1	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	84	463665	50.0	50.0	
84 Chlorobenzene	112	9.342	9.339	0.003	94	178606	20.0	19.2	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.446	0.003	89	71443	20.0	19.6	
86 Ethylbenzene	91	9.484	9.487	-0.003	99	290148	20.0	19.3	
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	99	226296	20.0	19.8	
88 o-Xylene	91	10.118	10.118	0.000	93	238016	20.0	19.5	
89 Styrene	104	10.135	10.135	0.000	92	189765	20.0	19.5	
90 Bromoform	173	10.341	10.341	0.000	93	43824	20.0	20.0	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	311401	20.0	19.7	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	90	128066	30.0	29.8	
95 Bromobenzene	156	10.850	10.850	0.000	90	76890	20.0	19.9	
96 1,1,2,2-Tetrachloroethane	83	10.853	10.853	0.000	76	66469	20.0	19.7	
97 1,2,3-Trichloropropane	110	10.897	10.899	-0.002	89	20064	20.0	20.7	
98 trans-1,4-Dichloro-2-butene	53	10.920	10.917	0.003	89	14755	20.0	19.2	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	377098	20.0	19.9	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	214322	20.0	19.4	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	91	276753	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	94	264087	20.0	19.7	
104 tert-Butylbenzene	119	11.458	11.461	-0.003	91	237672	20.0	19.4	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	95	284530	20.0	19.8	
107 sec-Butylbenzene	105	11.664	11.664	0.000	95	374857	20.0	19.6	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	157174	20.0	19.2	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	324569	20.0	20.0	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	280679	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.840	11.843	-0.003	90	159376	20.0	18.8	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	296329	20.0	19.4	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.001	95	149688	20.0	19.1	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	47	11844	20.0	18.6	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	91	94943	20.0	19.6	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	93	58332	20.0	19.4	
120 Naphthalene	128	13.647	13.647	0.000	99	164763	20.0	19.2	
121 1,2,3-Trichlorobenzene	180	13.827	13.827	0.000	91	84631	20.0	19.9	
S 124 Xylenes, Total	1				0			39.3	
S 125 Trihalomethanes, Total	1				0			78.0	
S 126 1,2-Dichloroethene, Total	1				0			38.4	
S 127 Trimethylbenzene, Total	1				0			39.6	
S 128 1,3-Dichloropropene, Total	1				0			38.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 LOWSS1_00198

Amount Added: 3.00

Units: uL

LOW8260ACR_00321

Amount Added: 20.00

Units: uL

LO8260/624STD_00540

Amount Added: 20.00

Units: uL

8260 LOWIS1_00166

Amount Added: 5.00

Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std060628.D

Injection Date: 28-Jun-2022 10:43:14

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD06

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

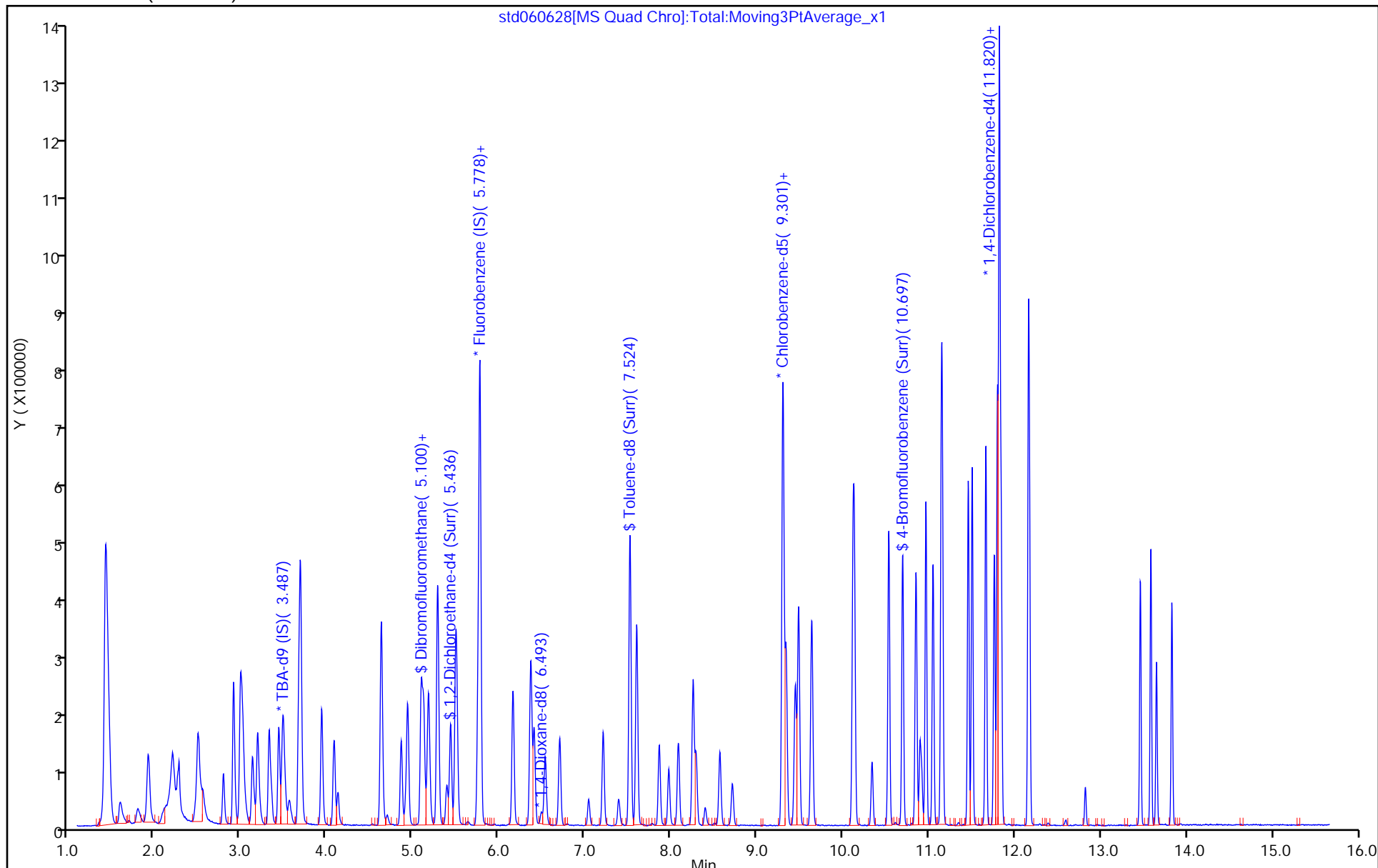
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

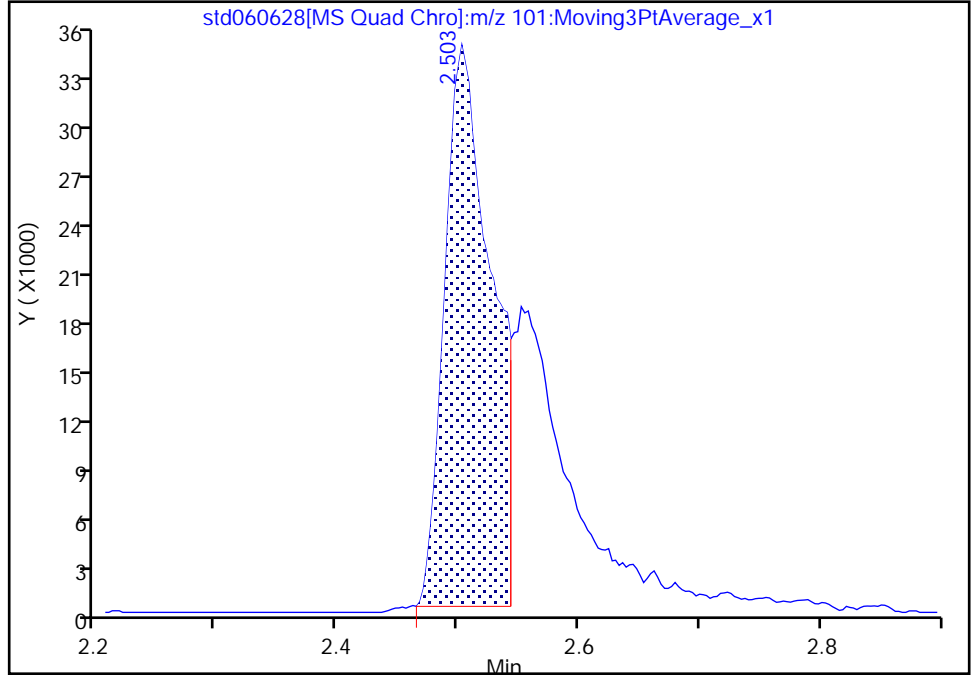
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std060628.D
Injection Date: 28-Jun-2022 10:43:14 Instrument ID: CMS29
Lims ID: STD06
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

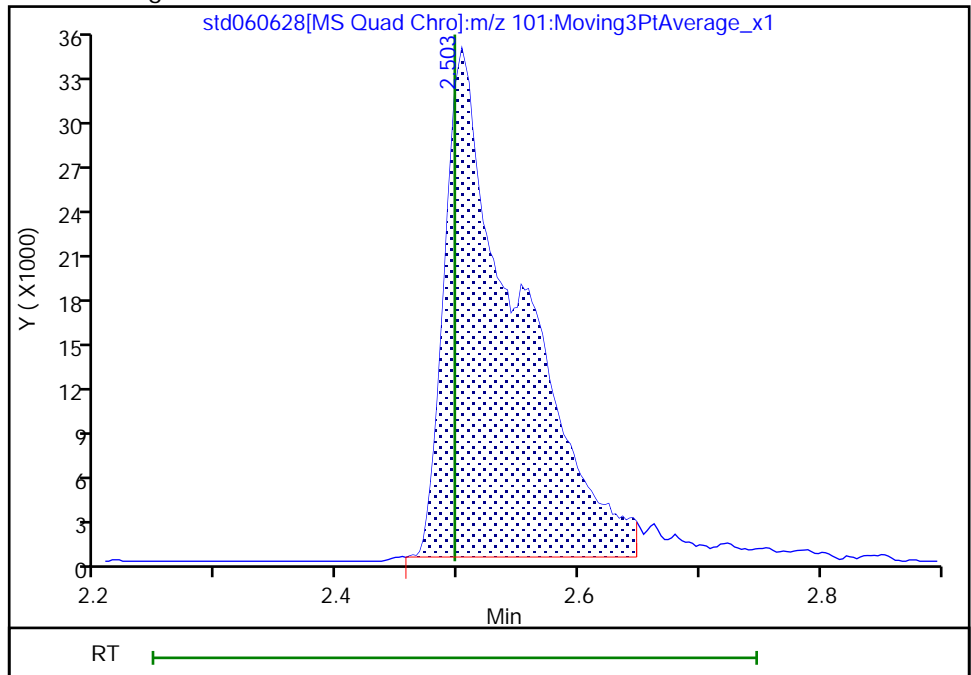
RT: 2.50
Area: 91207
Amount: 18.061007
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 144222
Amount: 17.872693
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:32:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std070628.D
 Lims ID: STD07
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 28-Jun-2022 11:06:40 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std07
 Misc. Info.: 500-0086672-008
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:26 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 11:34:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.588	1.588	0.000	87	249688	50.0	54.6	
2 Chloromethane	50	1.796	1.796	0.000	88	166139	50.0	53.0	
3 Vinyl chloride	62	1.907	1.907	0.000	73	201067	50.0	55.0	
4 Butadiene	39	1.915	1.915	0.000	95	170275	50.0	55.3	
6 Bromomethane	94	2.196	2.196	0.000	94	265690	50.0	59.2	
7 Chloroethane	64	2.268	2.268	0.000	99	213111	50.0	50.5	
8 Dichlorofluoromethane	67	2.494	2.494	0.000	80	420822	50.0	52.5	M
9 Trichlorofluoromethane	101	2.497	2.497	0.000	73	452210	50.0	52.8	M
11 Ethyl ether	59	2.790	2.790	0.000	87	130090	50.0	53.4	
12 Acrolein	56	2.908	2.908	0.000	98	570931	2000.0	2208.7	
13 1,1-Dichloroethene	96	2.989	2.989	0.000	90	218579	50.0	52.8	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.013	3.013	0.000	87	267525	50.0	53.1	
15 Acetone	43	3.050	3.050	0.000	81	30149	50.0	48.1	
16 Iodomethane	142	3.128	3.128	0.000	96	414772	50.0	53.3	
17 Carbon disulfide	76	3.189	3.189	0.000	99	721218	50.0	53.1	
20 3-Chloro-1-propene	76	3.322	3.322	0.000	87	128305	50.0	54.1	
21 Methyl acetate	43	3.345	3.345	0.000	95	153199	100.0	104.9	
22 Methylene Chloride	84	3.435	3.435	0.000	83	224919	50.0	53.6	
* 23 TBA-d9 (IS)	65	3.482	3.482	0.000	0	238036	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.557	3.557	0.000	97	137906	500.0	537.7	
25 Acrylonitrile	53	3.664	3.664	0.000	98	421055	500.0	538.7	
26 trans-1,2-Dichloroethene	96	3.687	3.687	0.000	74	244693	50.0	53.3	
27 Methyl tert-butyl ether	73	3.690	3.690	0.000	88	551535	50.0	54.9	
28 Hexane	57	3.933	3.933	0.000	92	262418	50.0	56.2	
29 1,1-Dichloroethane	63	4.078	4.078	0.000	84	356684	50.0	52.7	
30 Vinyl acetate	43	4.121	4.121	0.000	98	236672	50.0	54.8	
35 cis-1,2-Dichloroethene	96	4.628	4.628	0.000	88	233093	50.0	52.0	
34 2,2-Dichloropropane	77	4.628	4.628	0.000	67	295130	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.640	4.640	0.000	37	39864	50.0	53.8	
40 Chlorobromomethane	128	4.860	4.860	0.000	83	110369	50.0	53.2	
41 Tetrahydrofuran	42	4.909	4.909	0.000	83	59033	100.0	108.6	
42 Chloroform	83	4.935	4.935	0.000	82	400028	50.0	51.0	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	80	167932	40.0	40.4	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	91	371655	50.0	52.7	
45 Cyclohexane	56	5.178	5.178	0.000	86	296454	50.0	55.5	
47 1,1-Dichloropropene	75	5.282	5.282	0.000	90	283279	50.0	53.7	
46 Carbon tetrachloride	117	5.285	5.285	0.000	82	361639	50.0	54.0	
48 Isobutyl alcohol	43	5.390	5.390	0.000	93	117350	1250.0	1341.4	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.433	0.000	72	158079	40.0	40.9	
50 Benzene	78	5.494	5.494	0.000	94	745703	50.0	53.5	
51 1,2-Dichloroethane	62	5.511	5.511	0.000	76	249175	50.0	54.6	
54 n-Heptane	43	5.754	5.754	0.000	83	206184	50.0	56.1	
* 55 Fluorobenzene (IS)	96	5.775	5.775	0.000	98	695308	50.0	50.0	
57 Trichloroethene	130	6.160	6.160	0.000	91	218066	50.0	52.5	
59 Methylcyclohexane	83	6.368	6.368	0.000	90	354107	50.0	53.9	
60 1,2-Dichloropropane	63	6.406	6.406	0.000	88	158491	50.0	54.0	
* 62 1,4-Dioxane-d8	96	6.496	6.496	0.000	0	20246	1000.0	1000.0	a
63 Dibromomethane	93	6.533	6.533	0.000	91	117014	50.0	53.0	
65 1,4-Dioxane	88	6.551	6.551	0.000	51	22789	1000.0	951.1	
66 Dichlorobromomethane	83	6.704	6.704	0.000	92	273556	50.0	53.1	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	89	64284	50.0	57.4	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	91	268058	50.0	56.0	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	97	94986	50.0	55.6	
\$ 71 Toluene-d8 (Surr)	98	7.521	7.521	0.000	93	514798	40.0	42.4	
72 Toluene	92	7.602	7.602	0.000	92	453899	50.0	55.7	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	89	238898	50.0	55.9	
74 Ethyl methacrylate	69	7.972	7.972	0.000	92	164559	50.0	57.1	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	87	132930	50.0	52.7	
76 Tetrachloroethene	166	8.259	8.259	0.000	88	206057	50.0	54.9	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	88	221122	50.0	53.6	
78 2-Hexanone	43	8.398	8.398	0.000	97	65803	50.0	55.4	
79 Chlorodibromomethane	129	8.569	8.569	0.000	87	197568	50.0	54.9	
81 Ethylene Dibromide	107	8.713	8.713	0.000	97	140431	50.0	54.0	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	85	483633	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	95	519441	50.0	53.6	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	88	206293	50.0	54.2	
86 Ethylbenzene	91	9.487	9.487	0.000	99	889582	50.0	56.7	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	99	704529	50.0	59.1	
88 o-Xylene	91	10.118	10.118	0.000	93	746015	50.0	58.6	
89 Styrene	104	10.135	10.135	0.000	94	595853	50.0	58.8	
90 Bromoform	173	10.341	10.341	0.000	95	126707	50.0	55.6	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	959690	50.0	54.1	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	88	195167	40.0	40.5	
95 Bromobenzene	156	10.850	10.850	0.000	91	224243	50.0	51.7	
96 1,1,2,2-Tetrachloroethane	83	10.853	10.853	0.000	73	189735	50.0	50.1	
97 1,2,3-Trichloropropane	110	10.899	10.899	0.000	86	57418	50.0	52.8	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	92	46265	50.0	53.6	
99 N-Propylbenzene	91	10.966	10.966	0.000	99	1179310	50.0	55.4	
100 2-Chlorotoluene	91	11.050	11.050	0.000	96	668075	50.0	53.8	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	93	877380	50.0	55.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	830025	50.0	55.2	
104 tert-Butylbenzene	119	11.461	11.461	0.000	91	758747	50.0	55.2	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	93	918541	50.0	57.0	
107 sec-Butylbenzene	105	11.664	11.664	0.000	95	1186854	50.0	55.4	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	479177	50.0	52.1	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	1038332	50.0	56.9	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	315263	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	94	503981	50.0	52.9	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	963087	50.0	56.2	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.000	95	471106	50.0	53.6	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	58	37726	50.0	52.7	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	90	284421	50.0	52.3	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	94	167958	50.0	49.7	
120 Naphthalene	128	13.647	13.647	0.000	99	514423	50.0	53.3	
121 1,2,3-Trichlorobenzene	180	13.827	13.827	0.000	91	243810	50.0	51.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00198	Amount Added: 4.00	Units: uL
8260/624ACRWK_00675	Amount Added: 2.50	Units: uL
8260VA/2CEVE_00600	Amount Added: 2.50	Units: uL
8260/624GASWK_01452	Amount Added: 2.50	Units: uL
8260/624KETWK_00629	Amount Added: 2.50	Units: uL
8260/624MEGWK_01389	Amount Added: 2.50	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std070628.D

Injection Date: 28-Jun-2022 11:06:40

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD07

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

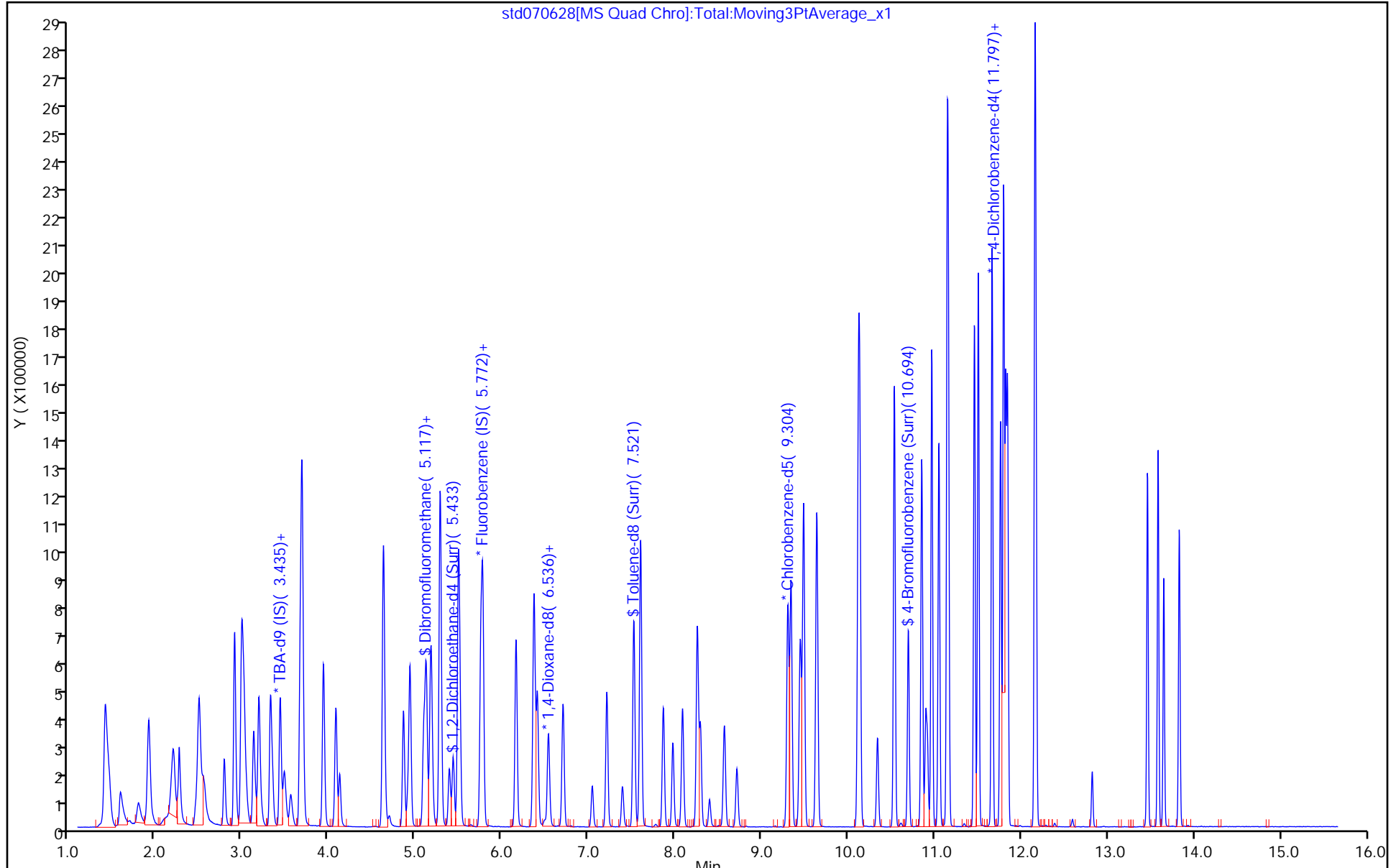
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

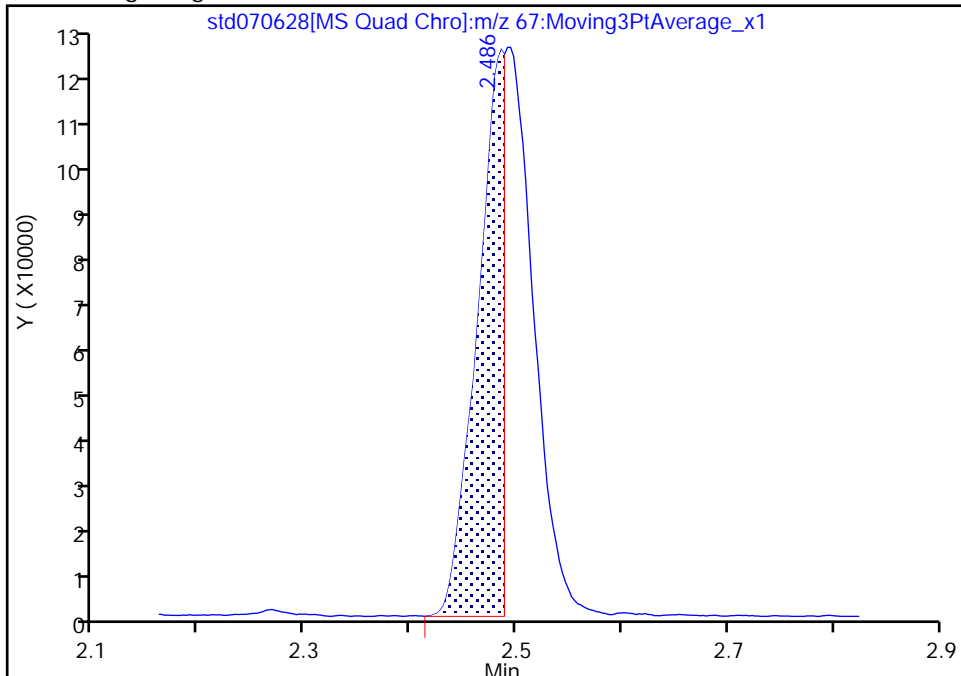
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Injection Date: 28-Jun-2022 11:06:40 Instrument ID: CMS29
Lims ID: STD07
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

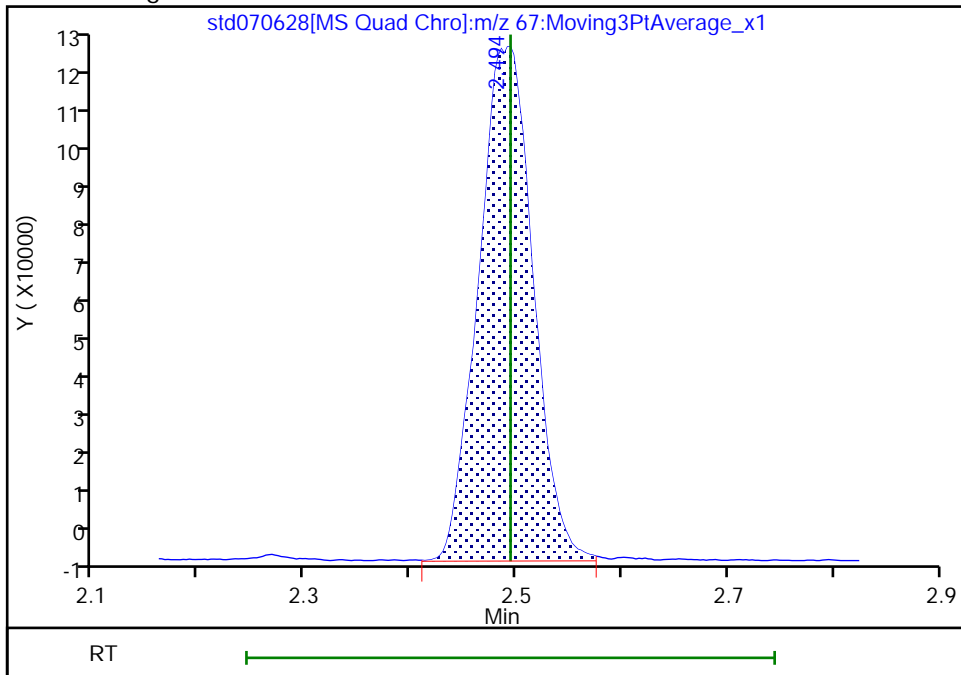
RT: 2.49
Area: 208106
Amount: 39.548356
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 420822
Amount: 52.463053
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:33:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

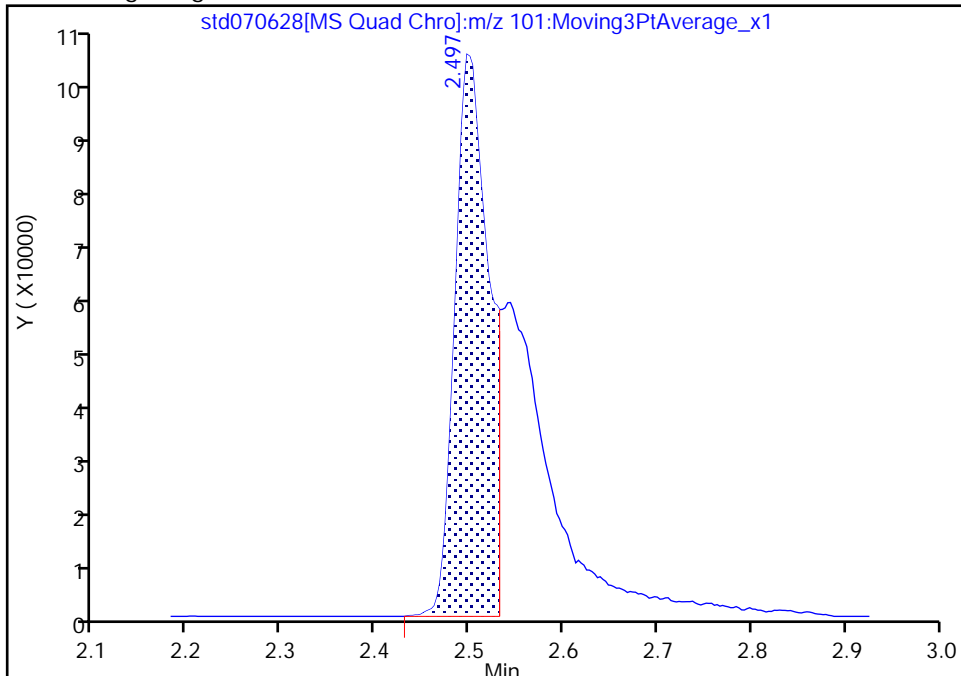
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Injection Date: 28-Jun-2022 11:06:40 Instrument ID: CMS29
Lims ID: STD07
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

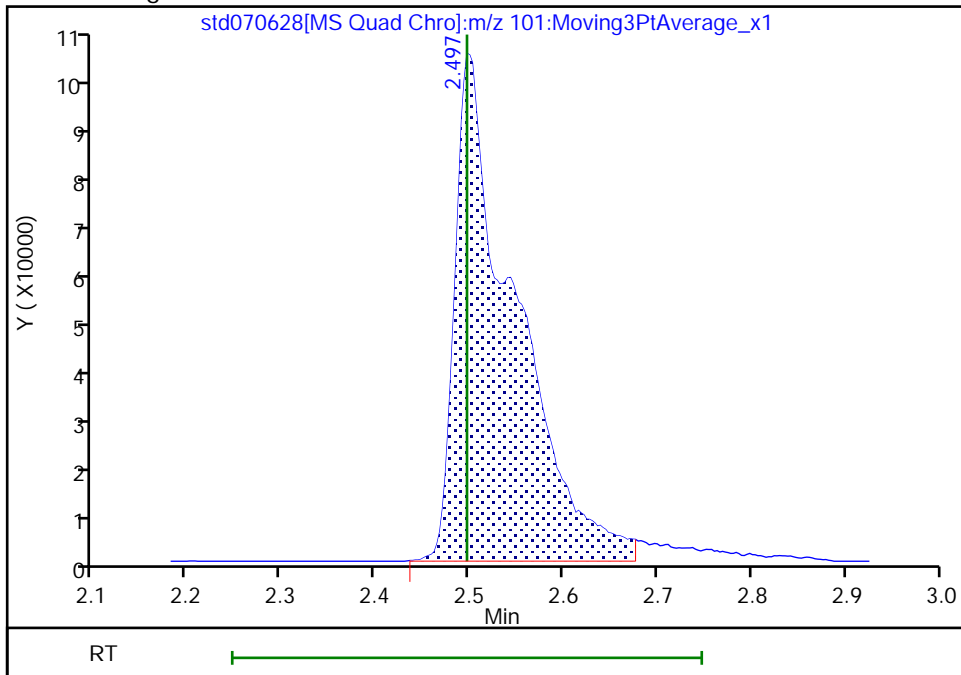
RT: 2.50
Area: 256499
Amount: 49.088461
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 452210
Amount: 52.759669
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:33:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std070628.D

Injection Date: 28-Jun-2022 11:06:40

Instrument ID: CMS29

Lims ID: STD07

Client ID:

Operator ID: PF

ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

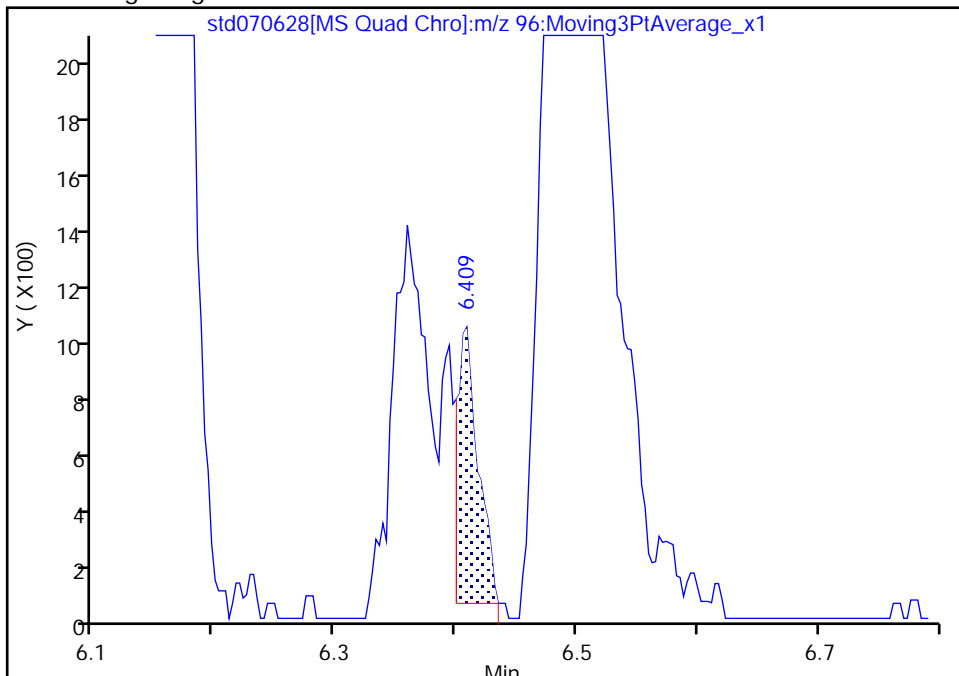
Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

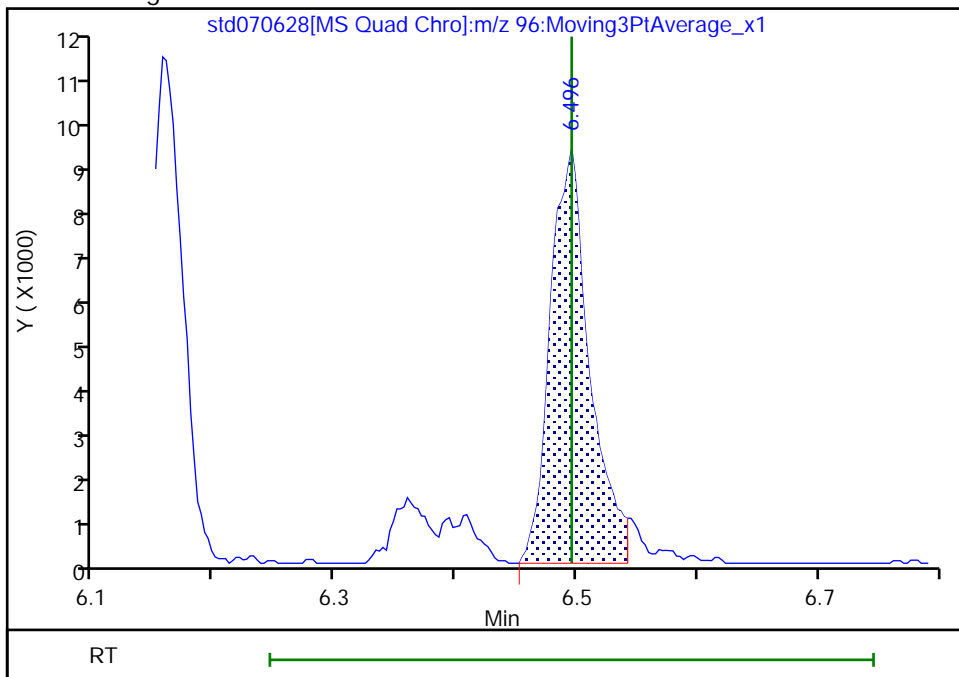
Processing Integration Results

RT: 6.41
Area: 1168
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.50
Area: 20246
Amount: 1000.0000
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 12:43:37

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std080628.D
 Lims ID: STD08
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 28-Jun-2022 11:30:16 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std08
 Misc. Info.: 500-0086672-009
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:33 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 11:51:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.600	1.588	0.012	88	511035	100.0	100.9	
2 Chloromethane	50	1.805	1.796	0.009	97	353758	100.0	101.9	
3 Vinyl chloride	62	1.918	1.907	0.012	68	433185	100.0	107.1	
4 Butadiene	39	1.927	1.915	0.012	90	362682	100.0	106.3	
6 Bromomethane	94	2.208	2.196	0.012	92	548498	100.0	111.5	
7 Chloroethane	64	2.274	2.268	0.006	95	462937	100.0	99.0	
8 Dichlorofluoromethane	67	2.500	2.494	0.006	80	866885	100.0	97.6	
9 Trichlorofluoromethane	101	2.506	2.497	0.009	72	938346	100.0	98.8	M
11 Ethyl ether	59	2.795	2.790	0.005	86	245244	100.0	90.9	
12 Acrolein	56	2.914	2.908	0.006	95	1163350	4000.0	4063.6	
13 1,1-Dichloroethene	96	2.995	2.989	0.006	90	447074	100.0	97.4	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.024	3.013	0.011	86	528380	100.0	94.7	
15 Acetone	43	3.059	3.050	0.009	91	66594	100.0	98.4	
16 Iodomethane	142	3.134	3.128	0.006	96	829677	100.0	96.2	
17 Carbon disulfide	76	3.195	3.189	0.006	100	1449144	100.0	96.3	
20 3-Chloro-1-propene	76	3.328	3.322	0.006	87	263786	100.0	100.4	
21 Methyl acetate	43	3.351	3.345	0.006	95	306212	200.0	189.3	
22 Methylene Chloride	84	3.441	3.435	0.006	83	446902	100.0	96.2	
* 23 TBA-d9 (IS)	65	3.487	3.482	0.005	0	260840	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.563	3.557	0.006	97	272944	1000.0	971.2	
25 Acrylonitrile	53	3.670	3.664	0.006	97	836322	1000.0	966.1	
26 trans-1,2-Dichloroethene	96	3.693	3.687	0.006	74	508282	100.0	100.0	
27 Methyl tert-butyl ether	73	3.696	3.690	0.006	88	1129996	100.0	101.6	
28 Hexane	57	3.939	3.933	0.006	90	538790	100.0	104.8	
29 1,1-Dichloroethane	63	4.084	4.078	0.006	85	723967	100.0	96.6	
30 Vinyl acetate	43	4.127	4.121	0.006	98	517650	100.0	108.2	
35 cis-1,2-Dichloroethene	96	4.631	4.628	0.003	89	471605	100.0	95.0	
34 2,2-Dichloropropane	77	4.634	4.628	0.006	71	607827	100.0	96.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.648	4.640	0.008	45	84057	100.0	102.5	
40 Chlorobromomethane	128	4.863	4.860	0.003	82	221664	100.0	96.4	
41 Tetrahydrofuran	42	4.915	4.909	0.006	78	113840	200.0	189.1	
42 Chloroform	83	4.938	4.935	0.003	81	809879	100.0	93.2	
\$ 43 Dibromofluoromethane	113	5.097	5.094	0.003	81	223575	50.0	48.5	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	91	764410	100.0	97.9	
45 Cyclohexane	56	5.181	5.178	0.003	87	604320	100.0	102.2	
47 1,1-Dichloropropene	75	5.285	5.282	0.003	91	582807	100.0	99.7	
46 Carbon tetrachloride	117	5.288	5.285	0.003	82	736017	100.0	99.2	
48 Isobutyl alcohol	43	5.393	5.390	0.003	91	232720	2500.0	2427.6	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.439	5.433	0.006	74	211099	50.0	49.3	
50 Benzene	78	5.500	5.494	0.006	95	1502821	100.0	97.4	
51 1,2-Dichloroethane	62	5.514	5.511	0.003	74	501019	100.0	99.2	
54 n-Heptane	43	5.757	5.754	0.003	83	402611	100.0	98.9	
* 55 Fluorobenzene (IS)	96	5.778	5.775	0.003	97	770078	50.0	50.0	
57 Trichloroethene	130	6.163	6.160	0.003	91	427929	100.0	93.0	
59 Methylcyclohexane	83	6.371	6.368	0.003	89	733218	100.0	100.7	
60 1,2-Dichloropropane	63	6.409	6.406	0.003	88	315830	100.0	97.2	
* 62 1,4-Dioxane-d8	96	6.493	6.496	-0.003	0	20504	1000.0	1000.0	a
63 Dibromomethane	93	6.536	6.533	0.003	90	228941	100.0	93.6	
65 1,4-Dioxane	88	6.551	6.551	0.000	44	45190	2000.0	1862.2	
66 Dichlorobromomethane	83	6.707	6.704	0.003	92	538085	100.0	94.4	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	90	133083	100.0	111.3	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	90	536726	100.0	105.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.393	7.390	0.003	98	186820	100.0	102.4	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.521	0.003	95	660537	50.0	51.0	
72 Toluene	92	7.605	7.602	0.003	92	910249	100.0	104.8	
73 trans-1,3-Dichloropropene	75	7.865	7.862	0.003	89	474582	100.0	104.1	
74 Ethyl methacrylate	69	7.975	7.972	0.003	95	320891	100.0	104.3	
75 1,1,2-Trichloroethane	97	8.088	8.085	0.003	88	256279	100.0	95.2	
76 Tetrachloroethene	166	8.259	8.259	0.000	87	402387	100.0	100.6	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	425288	100.0	96.6	
78 2-Hexanone	43	8.398	8.398	0.000	96	126172	100.0	99.5	
79 Chlorodibromomethane	129	8.572	8.569	0.003	87	382855	100.0	99.8	
81 Ethylene Dibromide	107	8.714	8.713	0.001	97	277201	100.0	100.0	
* 82 Chlorobenzene-d5	117	9.304	9.301	0.003	84	516081	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	95	1019654	100.0	98.6	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.446	0.003	89	407370	100.0	100.4	
86 Ethylbenzene	91	9.487	9.487	0.000	99	1765496	100.0	105.5	
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	99	1425561	100.0	112.0	
88 o-Xylene	91	10.118	10.118	0.000	94	1534175	100.0	112.8	
89 Styrene	104	10.135	10.135	0.000	93	1225674	100.0	113.4	
90 Bromoform	173	10.341	10.341	0.000	94	261575	100.0	107.5	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	1993934	100.0	100.1	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	88	262237	50.0	48.4	
95 Bromobenzene	156	10.850	10.850	0.000	93	447591	100.0	91.9	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.853	0.003	79	379963	100.0	89.4	
97 1,2,3-Trichloropropane	110	10.897	10.899	-0.002	85	116340	100.0	95.3	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	91	92058	100.0	95.1	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	2409498	100.0	100.8	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	1382107	100.0	99.1	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	91	1835834	100.0	104.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	1706877	100.0	101.1	
104 tert-Butylbenzene	119	11.458	11.461	-0.003	86	1588594	100.0	103.0	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	94	1908338	100.0	105.5	
107 sec-Butylbenzene	105	11.664	11.664	0.000	94	2500106	100.0	103.9	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	96	978515	100.0	94.9	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	2171399	100.0	106.1	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	95	353906	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	93	1017864	100.0	95.2	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	2018397	100.0	104.9	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.001	96	958391	100.0	97.1	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	62	77804	100.0	96.8	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	92	570010	100.0	93.4	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	93	339689	100.0	89.6	
120 Naphthalene	128	13.650	13.647	0.003	99	1079058	100.0	99.7	
121 1,2,3-Trichlorobenzene	180	13.830	13.827	0.003	93	499060	100.0	93.0	
S 124 Xylenes, Total	1				0			224.8	
S 125 Trihalomethanes, Total	1				0			394.9	
S 126 1,2-Dichloroethene, Total	1				0			195.0	
S 127 Trimethylbenzene, Total	1				0			209.7	
S 128 1,3-Dichloropropene, Total	1				0			209.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00198	Amount Added: 5.00	Units: uL
8260/624ACRWK_00675	Amount Added: 5.00	Units: uL
8260VA/2CEVE_00600	Amount Added: 5.00	Units: uL
8260/624GASWK_01452	Amount Added: 5.00	Units: uL
8260/624KETWK_00629	Amount Added: 5.00	Units: uL
8260/624MEGWK_01389	Amount Added: 5.00	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std080628.D

Injection Date: 28-Jun-2022 11:30:16

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD08

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

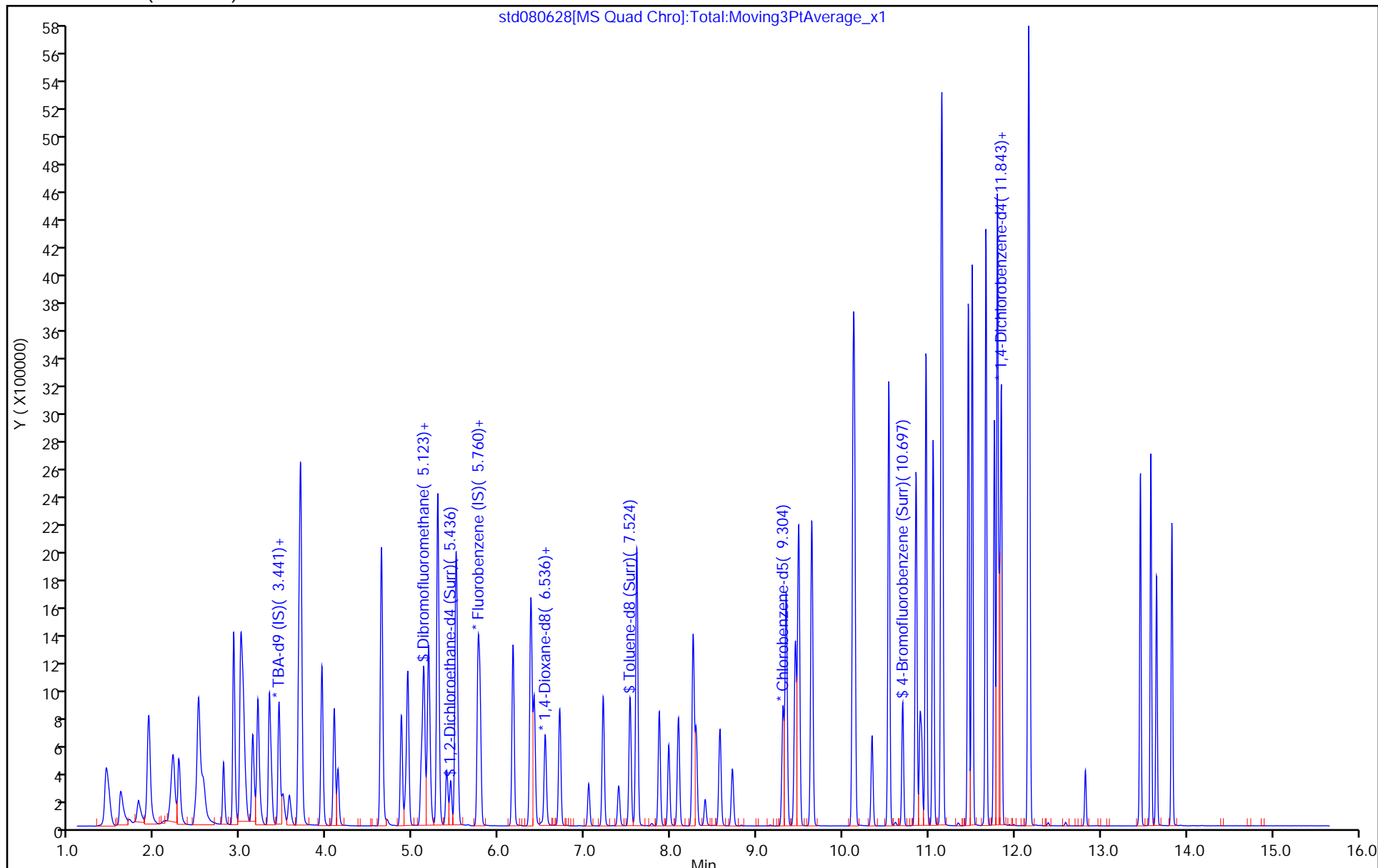
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

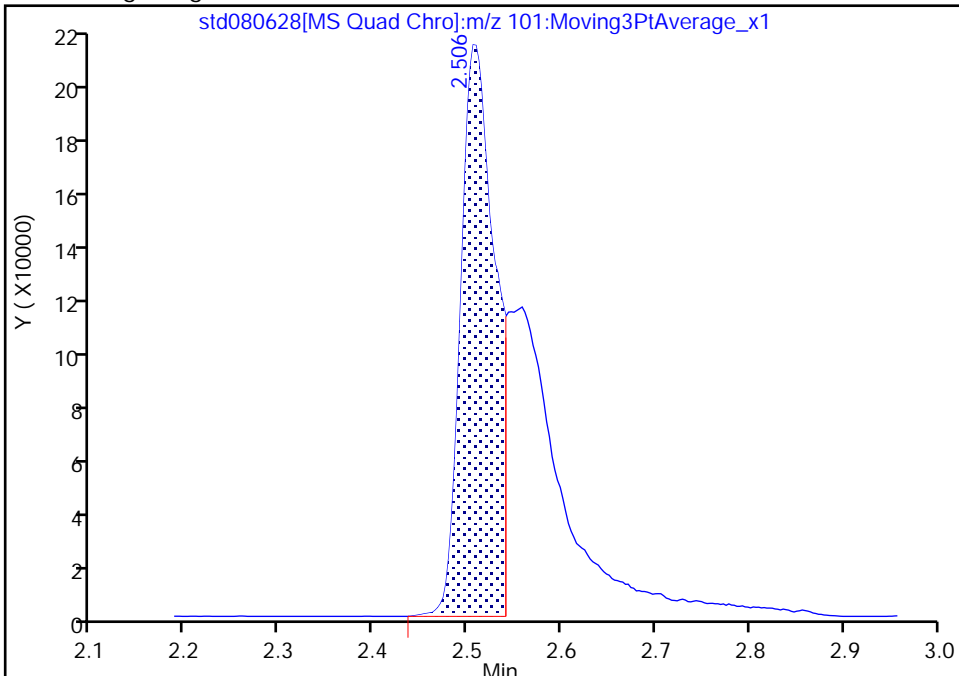
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Injection Date: 28-Jun-2022 11:30:16 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

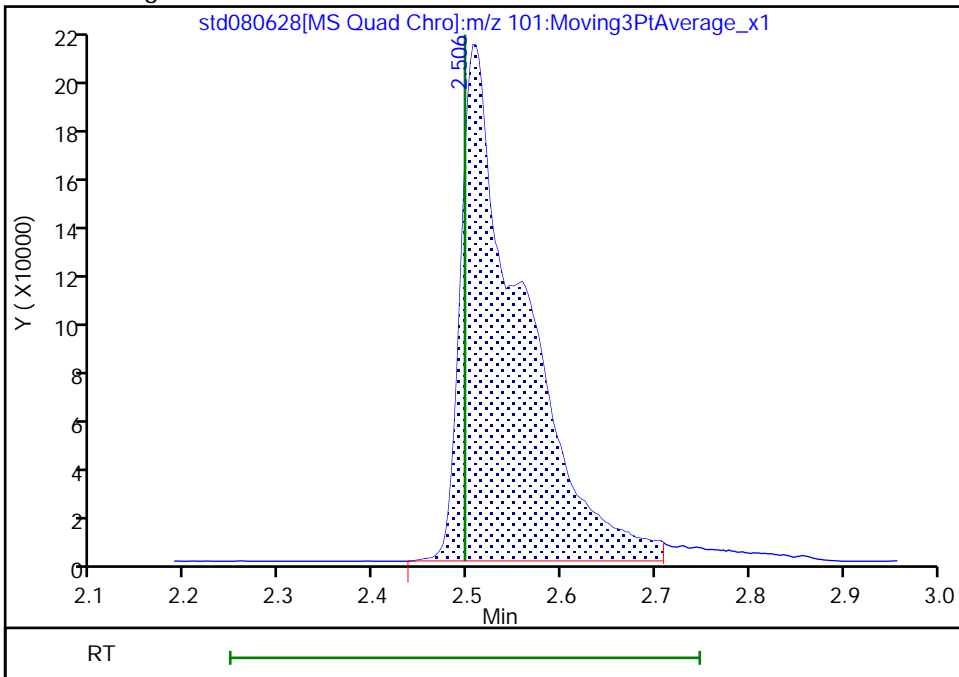
RT: 2.51
Area: 522528
Amount: 56.745805
Amount Units: ug/l

Processing Integration Results



RT: 2.51
Area: 938346
Amount: 98.847894
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 11:50:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

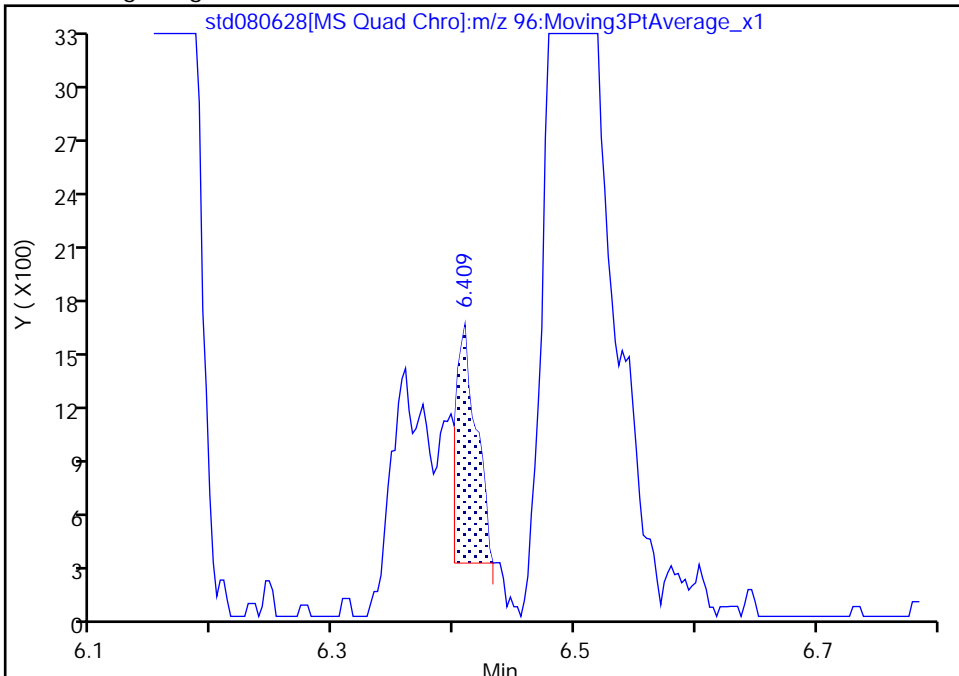
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std080628.D
Injection Date: 28-Jun-2022 11:30:16 Instrument ID: CMS29
Lims ID: STD08
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

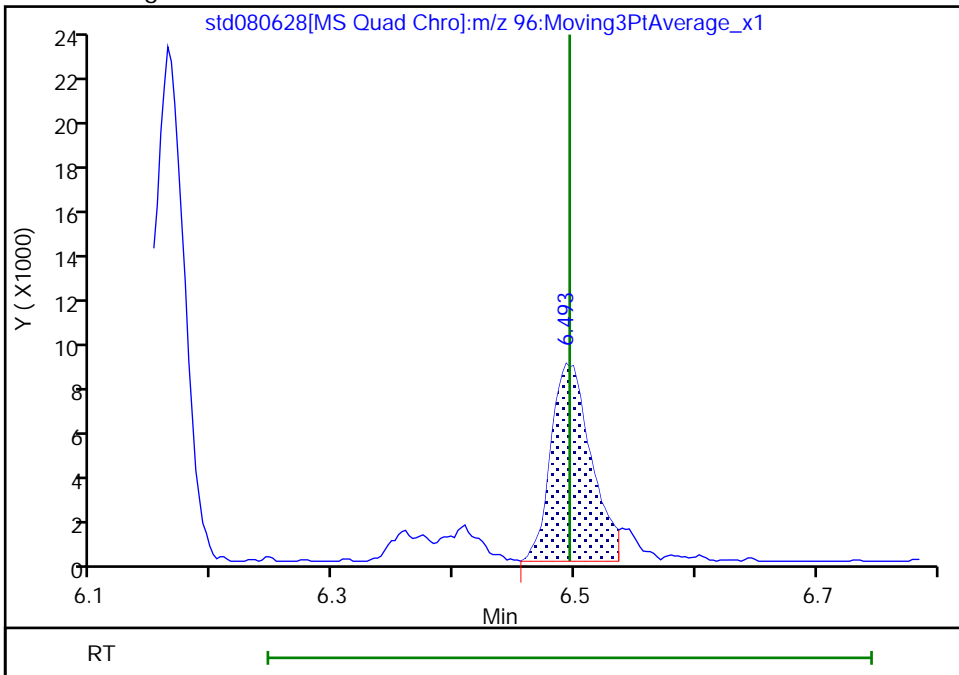
RT: 6.41
Area: 1519
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 20504
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:43:05
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std090628.D
 Lims ID: STD09
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 28-Jun-2022 11:53:41 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std09
 Misc. Info.: 500-0086672-010
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:40 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 12:36:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.585	1.588	-0.003	88	785385	150.0	143.5	
2 Chloromethane	50	1.788	1.796	-0.008	87	513386	150.0	136.7	
3 Vinyl chloride	62	1.898	1.907	-0.008	82	586211	150.0	134.0	
4 Butadiene	39	1.912	1.915	-0.003	90	528784	150.0	143.3	
6 Bromomethane	94	2.193	2.196	-0.003	93	769997	150.0	145.2	
8 Dichlorofluoromethane	67	2.483	2.494	-0.011	81	1267575	150.0	132.0	
9 Trichlorofluoromethane	101	2.494	2.497	-0.003	76	1365101	150.0	133.0	M
11 Ethyl ether	59	2.787	2.790	-0.003	86	387685	150.0	132.9	
12 Acrolein	56	2.906	2.908	-0.002	97	1935011	6000.0	6253.1	
13 1,1-Dichloroethene	96	2.987	2.989	-0.002	90	682653	150.0	137.6	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.007	3.013	-0.006	88	818961	150.0	135.7	
15 Acetone	43	3.050	3.050	0.000	97	112902	150.0	155.8	
16 Iodomethane	142	3.126	3.128	-0.002	96	1284111	150.0	137.7	
17 Carbon disulfide	76	3.186	3.189	-0.003	100	2205598	150.0	135.7	
20 3-Chloro-1-propene	76	3.320	3.322	-0.002	88	400709	150.0	141.2	
21 Methyl acetate	43	3.346	3.345	0.001	95	481493	300.0	275.4	
22 Methylene Chloride	84	3.433	3.435	-0.002	80	703214	150.0	140.0	
* 23 TBA-d9 (IS)	65	3.485	3.482	0.003	0	300984	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.560	3.557	0.003	99	466483	1500.0	1438.5	
25 Acrylonitrile	53	3.664	3.664	0.000	98	1311509	1500.0	1401.7	
26 trans-1,2-Dichloroethene	96	3.684	3.687	-0.003	75	784982	150.0	142.9	
27 Methyl tert-butyl ether	73	3.690	3.690	0.000	87	1798252	150.0	149.6	
28 Hexane	57	3.933	3.933	0.000	91	824420	150.0	148.6	
29 1,1-Dichloroethane	63	4.075	4.078	-0.003	85	1124527	150.0	138.9	
30 Vinyl acetate	43	4.122	4.121	0.001	99	806659	150.0	156.0	
35 cis-1,2-Dichloroethene	96	4.625	4.628	-0.003	88	743411	150.0	138.6	
34 2,2-Dichloropropane	77	4.628	4.628	0.000	71	1000253	150.0	147.6	
36 2-Butanone (MEK)	43	4.640	4.640	0.000	42	144474	150.0	163.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Chlorobromomethane	128	4.860	4.860	0.000	79	345772	150.0	139.1	
41 Tetrahydrofuran	42	4.906	4.909	-0.003	77	181077	300.0	278.2	
42 Chloroform	83	4.932	4.935	-0.003	82	1269203	150.0	135.1	
\$ 43 Dibromofluoromethane	113	5.092	5.094	-0.002	77	286156	60.0	57.4	
44 1,1,1-Trichloroethane	97	5.121	5.123	-0.002	90	1201324	150.0	142.3	
45 Cyclohexane	56	5.176	5.178	-0.002	85	922606	150.0	144.4	
47 1,1-Dichloropropene	75	5.283	5.282	0.001	92	911200	150.0	144.2	
46 Carbon tetrachloride	117	5.286	5.285	0.001	83	1153399	150.0	143.9	
48 Isobutyl alcohol	43	5.390	5.390	0.000	92	392274	3750.0	3546.3	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.433	0.000	74	268091	60.0	57.9	
50 Benzene	78	5.494	5.494	0.000	95	2367527	150.0	141.9	
51 1,2-Dichloroethane	62	5.511	5.511	0.000	82	793301	150.0	145.2	
54 n-Heptane	43	5.755	5.754	0.001	82	623807	150.0	141.7	
* 55 Fluorobenzene (IS)	96	5.775	5.775	0.000	97	832388	50.0	50.0	
57 Trichloroethene	130	6.160	6.160	0.000	92	665540	150.0	133.8	
59 Methylcyclohexane	83	6.368	6.368	0.000	89	1146746	150.0	145.7	
60 1,2-Dichloropropane	63	6.406	6.406	0.000	89	485027	150.0	138.1	
* 62 1,4-Dioxane-d8	96	6.490	6.496	-0.006	0	23809	1000.0	1000.0	a
63 Dibromomethane	93	6.533	6.533	0.000	90	360992	150.0	136.6	
65 1,4-Dioxane	88	6.551	6.551	0.000	54	82368	3000.0	2923.1	
66 Dichlorobromomethane	83	6.704	6.704	0.000	93	858065	150.0	139.2	
68 2-Chloroethyl vinyl ether	63	7.040	7.043	-0.003	91	214494	150.0	164.5	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	93	860044	150.0	154.5	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	98	319954	150.0	160.9	
\$ 71 Toluene-d8 (Surr)	98	7.521	7.521	0.000	94	842442	60.0	59.7	
72 Toluene	92	7.602	7.602	0.000	93	1440126	150.0	152.0	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	88	766650	150.0	154.2	
74 Ethyl methacrylate	69	7.972	7.972	0.000	94	517917	150.0	154.4	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	88	420041	150.0	143.1	
76 Tetrachloroethene	166	8.259	8.259	0.000	89	629242	150.0	144.2	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	88	686050	150.0	143.0	
78 2-Hexanone	43	8.398	8.398	0.000	94	208492	150.0	150.8	
79 Chlorodibromomethane	129	8.569	8.569	0.000	89	621318	150.0	148.5	
81 Ethylene Dibromide	107	8.714	8.713	0.001	97	444932	150.0	147.2	
* 82 Chlorobenzene-d5	117	9.304	9.301	0.003	85	562611	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	95	1621800	150.0	143.9	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	89	641304	150.0	145.0	
86 Ethylbenzene	91	9.487	9.487	0.000	99	2788664	150.0	152.8	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	99	2240225	150.0	161.4	
88 o-Xylene	91	10.118	10.118	0.000	94	2425802	150.0	163.7	
89 Styrene	104	10.135	10.135	0.000	93	1936514	150.0	164.3	
90 Bromoform	173	10.338	10.341	-0.003	94	414977	150.0	156.4	
91 Isopropylbenzene	105	10.535	10.535	0.000	98	3176627	150.0	154.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	87	338823	60.0	60.4	
95 Bromobenzene	156	10.850	10.850	0.000	92	726679	150.0	144.1	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.853	0.003	80	604166	150.0	137.1	
97 1,2,3-Trichloropropane	110	10.897	10.899	-0.002	85	181246	150.0	143.3	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	91	144990	150.0	144.5	
99 N-Propylbenzene	91	10.966	10.966	0.000	99	3726054	150.0	150.5	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	2157263	150.0	149.2	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	91	2847364	150.0	155.9	
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	2615603	150.0	149.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 tert-Butylbenzene	119	11.461	11.461	0.000	91	2502132	150.0	156.5	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	94	2918771	150.0	155.8	
107 sec-Butylbenzene	105	11.664	11.664	0.000	95	3830510	150.0	153.6	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	96	1531503	150.0	143.3	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	3290413	150.0	155.1	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	95	366696	50.0	50.0	a
111 1,4-Dichlorobenzene	146	11.844	11.843	0.001	93	1546795	150.0	139.6	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	3049926	150.0	152.9	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.001	95	1467400	150.0	143.4	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	64	123572	150.0	148.3	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	93	868883	150.0	137.4	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	93	515535	150.0	131.3	
120 Naphthalene	128	13.650	13.647	0.003	98	1715618	150.0	152.9	
121 1,2,3-Trichlorobenzene	180	13.827	13.827	0.000	91	777912	150.0	139.9	
S 124 Xylenes, Total	1				0			325.1	
S 125 Trihalomethanes, Total	1				0			579.3	
S 126 1,2-Dichloroethene, Total	1				0			281.5	
S 127 Trimethylbenzene, Total	1				0			311.7	
S 128 1,3-Dichloropropene, Total	1				0			308.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00198	Amount Added: 6.00	Units: uL
8260/624ACRWK_00675	Amount Added: 7.50	Units: uL
8260VA/2CEVE_00600	Amount Added: 7.50	Units: uL
8260/624GASWK_01452	Amount Added: 7.50	Units: uL
8260/624KETWK_00629	Amount Added: 7.50	Units: uL
8260/624MEGWK_01389	Amount Added: 7.50	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std090628.D

Injection Date: 28-Jun-2022 11:53:41

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD09

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

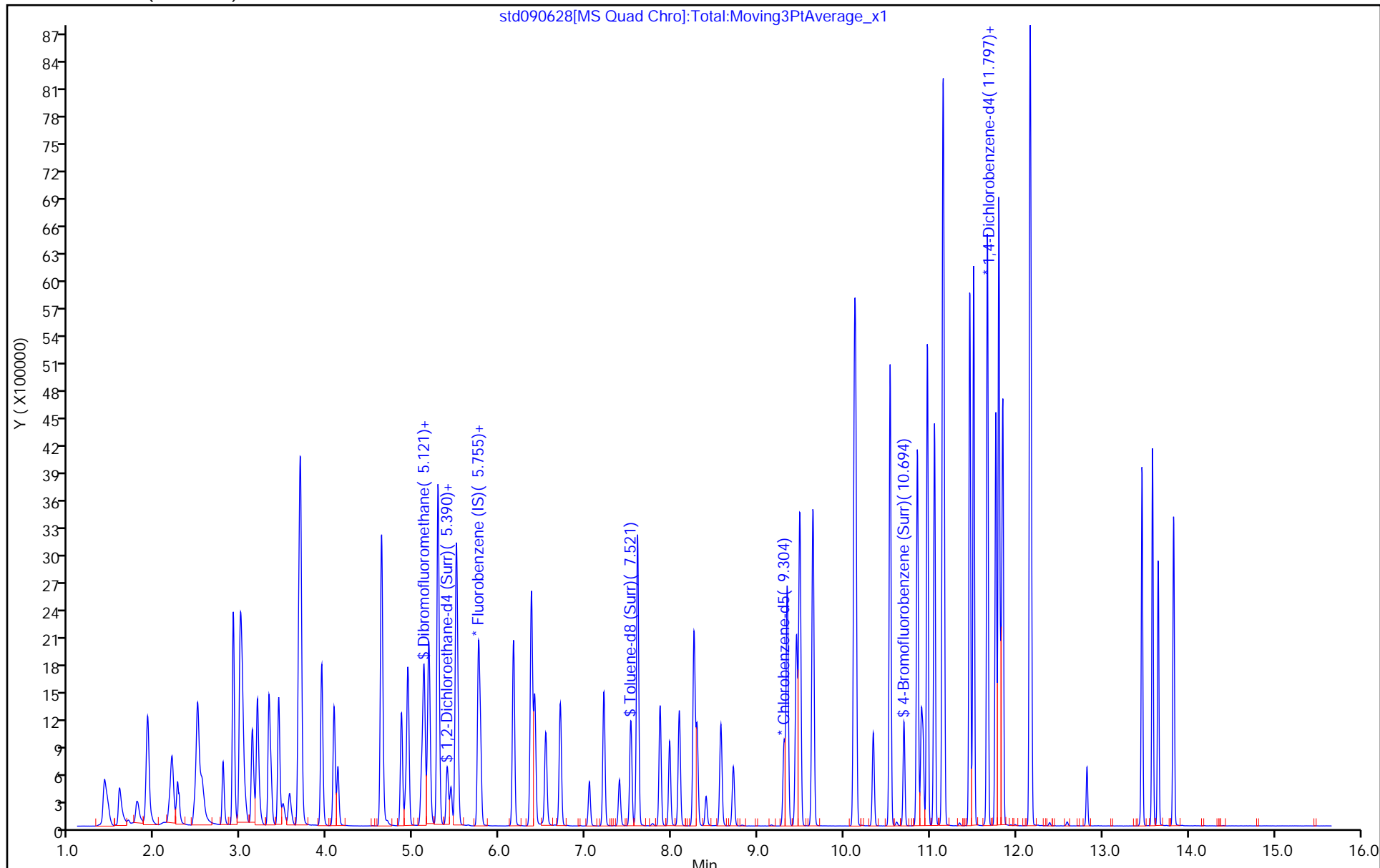
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

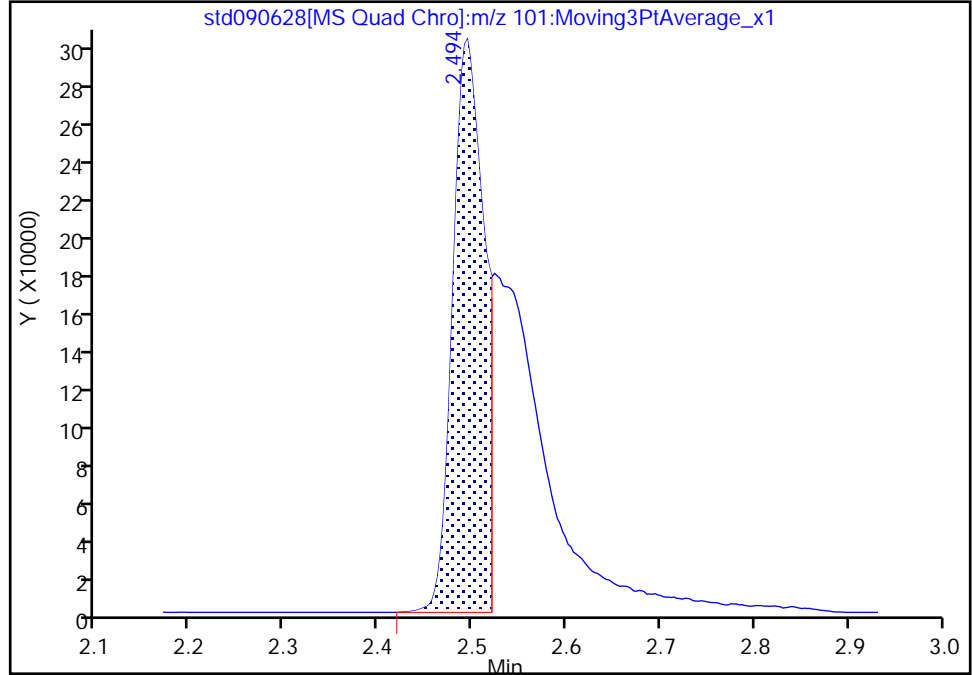
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Injection Date: 28-Jun-2022 11:53:41 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

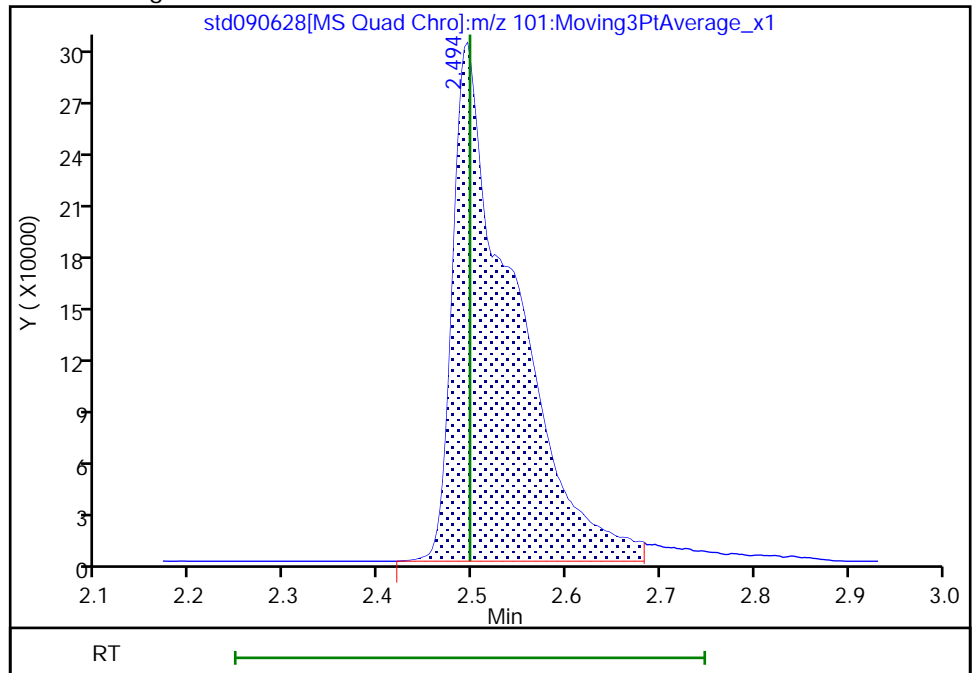
RT: 2.49
Area: 707395
Amount: 71.837198
Amount Units: ug/l

Processing Integration Results



RT: 2.49
Area: 1365101
Amount: 133.0387
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:29:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

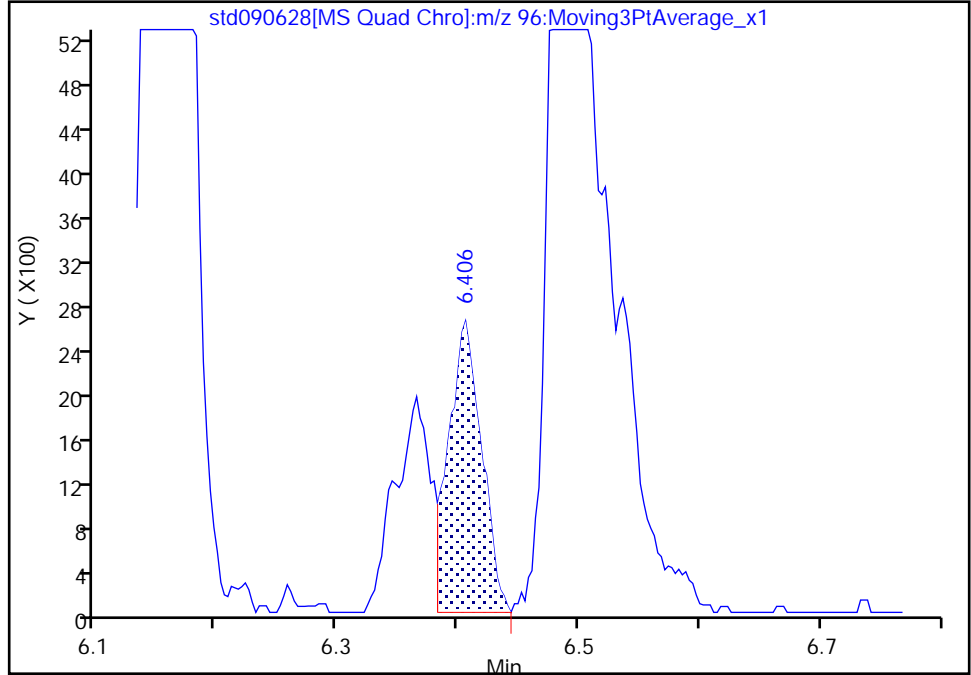
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std090628.D
Injection Date: 28-Jun-2022 11:53:41 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

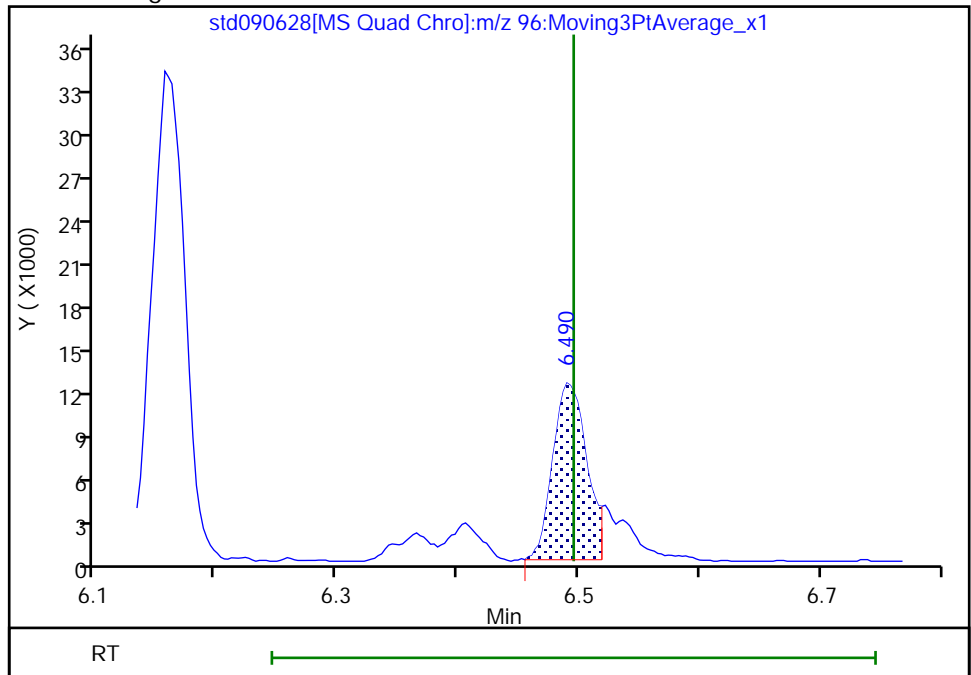
RT: 6.41
Area: 4995
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 23809
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:42:33
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

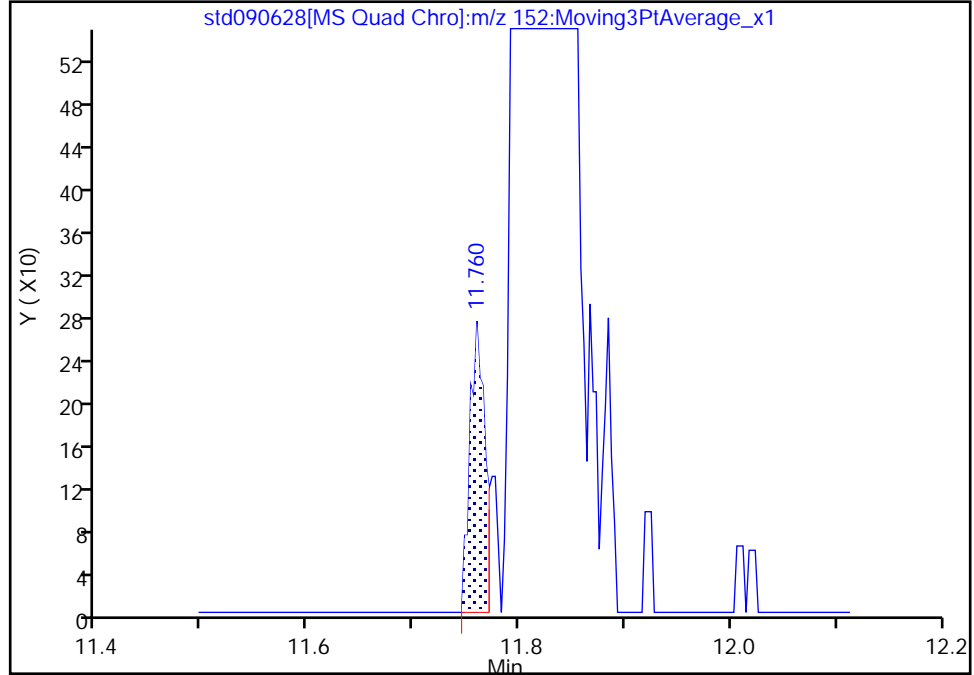
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std090628.D
Injection Date: 28-Jun-2022 11:53:41 Instrument ID: CMS29
Lims ID: STD09
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1
Signal: 1

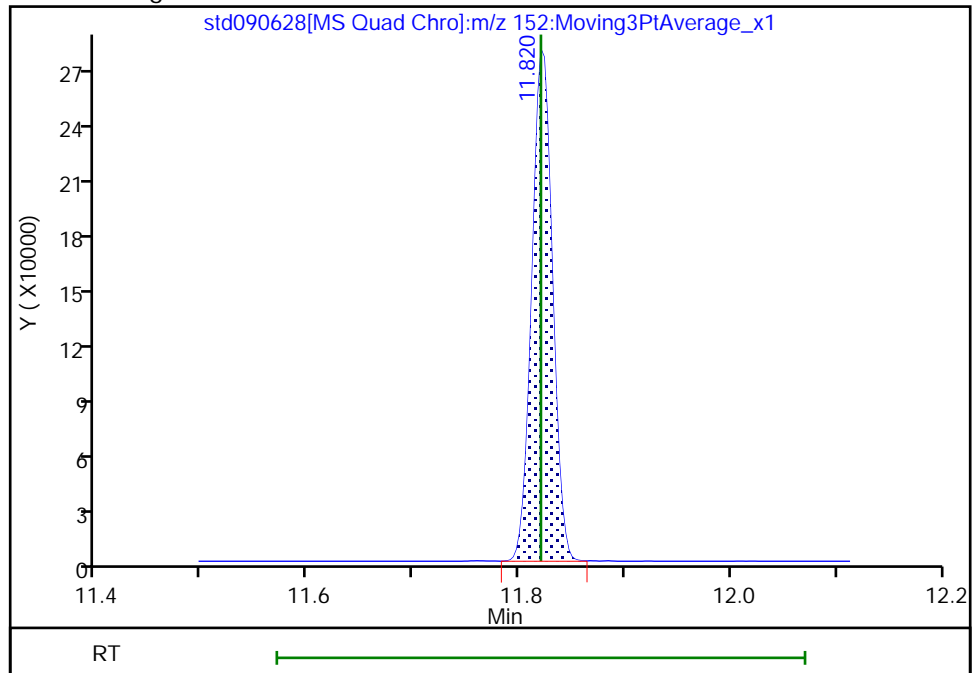
RT: 11.76
Area: 263
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 11.82
Area: 366696
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:38:16
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std090628.D

Injection Date: 28-Jun-2022 11:53:41

Instrument ID: CMS29

Lims ID: STD09

Client ID:

Operator ID: PF

ALS Bottle#: 0

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W29cps

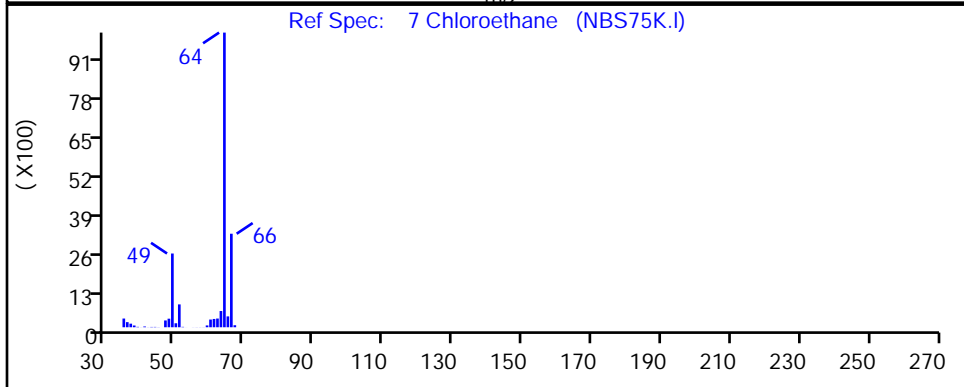
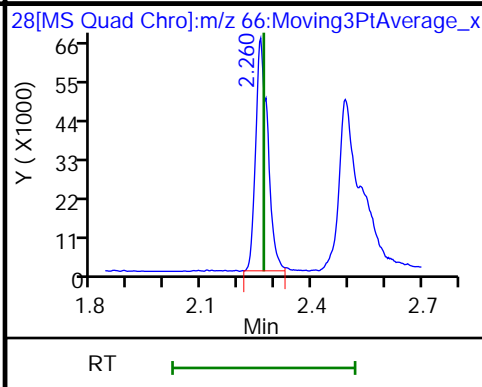
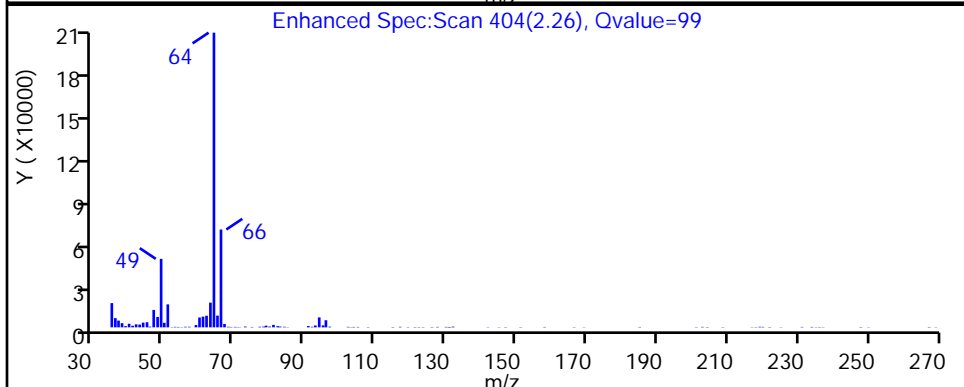
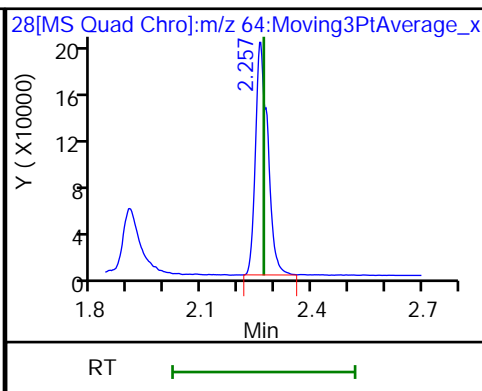
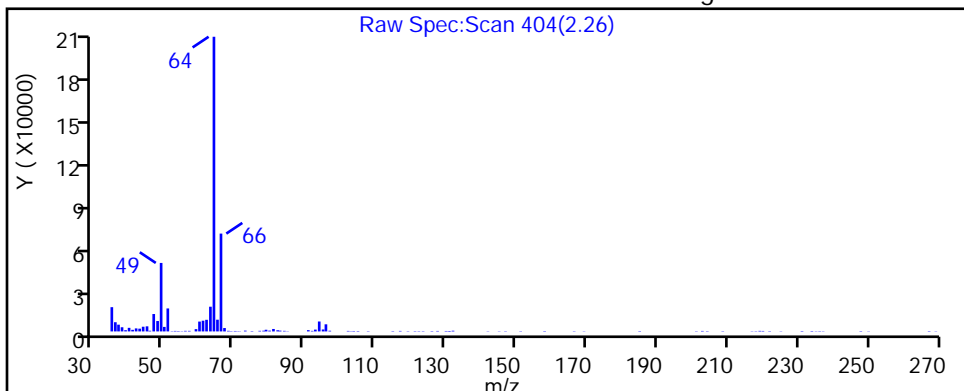
Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)

Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.26	64.00	468032	100.8647
2.26	66.00	152535	

Reviewer: BQP0, 28-Jun-2022 12:38:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Lims ID: STD010
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 28-Jun-2022 12:17:08 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: std010
 Misc. Info.: 500-0086672-011
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:40:48 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 12:37:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.594	1.588	0.006	89	1112426	200.0	189.1	
2 Chloromethane	50	1.799	1.796	0.003	88	728799	200.0	180.6	
3 Vinyl chloride	62	1.909	1.907	0.003	81	881500	200.0	187.5	
4 Butadiene	39	1.921	1.915	0.006	90	746356	200.0	188.2	
6 Bromomethane	94	2.202	2.196	0.006	92	1048410	200.0	184.2	
8 Dichlorofluoromethane	67	2.497	2.494	0.003	80	1716093	200.0	166.3	
9 Trichlorofluoromethane	101	2.503	2.497	0.006	71	1885916	200.0	171.0	M
11 Ethyl ether	59	2.792	2.790	0.002	86	523628	200.0	167.0	
12 Acrolein	56	2.911	2.908	0.003	96	2591553	8000.0	7791.0	
13 1,1-Dichloroethene	96	2.992	2.989	0.003	89	931122	200.0	174.6	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.015	3.013	0.002	88	1102179	200.0	169.9	
15 Acetone	43	3.056	3.050	0.006	97	155366	200.0	200.1	
16 Iodomethane	142	3.131	3.128	0.003	96	1747065	200.0	174.3	
17 Carbon disulfide	76	3.192	3.189	0.003	100	2972981	200.0	170.1	
20 3-Chloro-1-propene	76	3.325	3.322	0.003	87	566313	200.0	185.6	
21 Methyl acetate	43	3.348	3.345	0.003	95	651811	400.0	346.9	
22 Methylene Chloride	84	3.438	3.435	0.003	80	955324	200.0	176.9	
* 23 TBA-d9 (IS)	65	3.487	3.482	0.005	0	305250	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.563	3.557	0.005	98	619574	2000.0	1883.9	
25 Acrylonitrile	53	3.670	3.664	0.006	97	1763290	2000.0	1753.2	
26 trans-1,2-Dichloroethene	96	3.690	3.687	0.003	73	1070192	200.0	181.2	
27 Methyl tert-butyl ether	73	3.693	3.690	0.003	87	2451223	200.0	189.7	
28 Hexane	57	3.936	3.933	0.003	91	1138382	200.0	191.1	
29 1,1-Dichloroethane	63	4.081	4.078	0.003	85	1544076	200.0	177.4	
30 Vinyl acetate	43	4.124	4.121	0.003	99	1123938	200.0	202.2	
35 cis-1,2-Dichloroethene	96	4.631	4.628	0.003	87	1041527	200.0	180.6	
34 2,2-Dichloropropane	77	4.631	4.628	0.003	69	1321734	200.0	181.4	
36 2-Butanone (MEK)	43	4.642	4.640	0.002	41	196574	200.0	206.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Chlorobromomethane	128	4.863	4.860	0.003	79	485315	200.0	181.7	
41 Tetrahydrofuran	42	4.909	4.909	0.000	80	248513	400.0	355.2	
42 Chloroform	83	4.938	4.935	0.003	81	1741954	200.0	172.5	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	85	373162	75.0	69.7	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	90	1650224	200.0	181.8	
45 Cyclohexane	56	5.181	5.178	0.003	86	1272159	200.0	185.2	
47 1,1-Dichloropropene	75	5.285	5.282	0.003	91	1271422	200.0	187.2	
46 Carbon tetrachloride	117	5.288	5.285	0.003	84	1602346	200.0	185.9	
48 Isobutyl alcohol	43	5.392	5.390	0.002	92	517320	5000.0	4611.3	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.433	0.003	75	348250	75.0	70.0	
50 Benzene	78	5.497	5.494	0.003	95	3313491	200.0	184.8	
51 1,2-Dichloroethane	62	5.514	5.511	0.003	78	1097110	200.0	186.9	
54 n-Heptane	43	5.754	5.754	0.000	82	876302	200.0	185.2	
* 55 Fluorobenzene (IS)	96	5.777	5.775	0.002	96	894751	50.0	50.0	
57 Trichloroethene	130	6.163	6.160	0.003	91	935334	200.0	174.9	
59 Methylcyclohexane	83	6.371	6.368	0.003	89	1610694	200.0	190.4	
60 1,2-Dichloropropane	63	6.409	6.406	0.003	89	694948	200.0	184.0	
* 62 1,4-Dioxane-d8	96	6.495	6.496	-0.001	0	23251	1000.0	1000.0	a
63 Dibromomethane	93	6.536	6.533	0.003	91	496328	200.0	174.7	
65 1,4-Dioxane	88	6.553	6.551	0.002	55	109330	4000.0	3973.0	
66 Dichlorobromomethane	83	6.704	6.704	0.000	93	1199550	200.0	181.1	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	92	295074	200.0	209.1	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	93	1222589	200.0	203.0	
70 4-Methyl-2-pentanone (MIBK)	43	7.393	7.390	0.003	96	451649	200.0	209.9	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.521	0.002	94	1127690	75.0	73.9	
72 Toluene	92	7.602	7.602	0.000	92	2035498	200.0	198.6	
73 trans-1,3-Dichloropropene	75	7.865	7.862	0.003	88	1067690	200.0	198.4	
74 Ethyl methacrylate	69	7.975	7.972	0.003	96	723305	200.0	199.2	
75 1,1,2-Trichloroethane	97	8.088	8.085	0.003	88	579530	200.0	182.5	
76 Tetrachloroethene	166	8.259	8.259	0.000	87	873770	200.0	185.1	
77 1,3-Dichloropropane	76	8.294	8.291	0.003	88	948427	200.0	182.7	
78 2-Hexanone	43	8.398	8.398	0.000	96	295934	200.0	197.8	
79 Chlorodibromomethane	129	8.569	8.569	0.000	87	863580	200.0	190.8	
81 Ethylene Dibromide	107	8.716	8.713	0.003	98	619565	200.0	189.4	
* 82 Chlorobenzene-d5	117	9.304	9.301	0.003	84	608802	50.0	50.0	
84 Chlorobenzene	112	9.342	9.339	0.003	95	2303635	200.0	188.9	
85 1,1,1,2-Tetrachloroethane	131	9.449	9.446	0.003	90	913265	200.0	190.8	
86 Ethylbenzene	91	9.486	9.487	-0.001	99	3895694	200.0	197.3	
87 m-Xylene & p-Xylene	91	9.640	9.637	0.003	99	3166733	200.0	210.9	
88 o-Xylene	91	10.120	10.118	0.002	94	3464234	200.0	216.0	
89 Styrene	104	10.135	10.135	0.000	93	2731813	200.0	214.2	
90 Bromoform	173	10.341	10.341	0.000	94	583716	200.0	203.4	
91 Isopropylbenzene	105	10.535	10.535	-0.001	97	4466113	200.0	199.5	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	88	451130	75.0	74.1	
95 Bromobenzene	156	10.850	10.850	0.000	91	1051623	200.0	192.2	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.853	0.003	78	841894	200.0	176.2	
97 1,2,3-Trichloropropane	110	10.899	10.899	0.000	85	254950	200.0	185.8	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	90	202540	200.0	186.1	
99 N-Propylbenzene	91	10.969	10.966	0.003	98	5198555	200.0	193.6	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	3021139	200.0	192.6	
101 1,3,5-Trimethylbenzene	105	11.145	11.146	-0.001	92	4059792	200.0	204.9	
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	3714100	200.0	195.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 tert-Butylbenzene	119	11.461	11.461	0.000	91	3507452	200.0	202.2	
106 1,2,4-Trimethylbenzene	105	11.507	11.505	0.002	95	4157929	200.0	204.6	
107 sec-Butylbenzene	105	11.667	11.664	0.003	95	5357361	200.0	198.1	
108 1,3-Dichlorobenzene	146	11.765	11.762	0.003	96	2165503	200.0	186.7	
109 4-Isopropyltoluene	119	11.800	11.797	0.003	96	4654277	200.0	202.2	
* 110 1,4-Dichlorobenzene-d4	152	11.823	11.820	0.003	94	397804	50.0	50.0	a
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	94	2208813	200.0	183.7	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	4354805	200.0	201.3	
114 1,2-Dichlorobenzene	146	12.170	12.171	0.000	96	2163572	200.0	195.0	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.822	0.000	66	171603	200.0	189.9	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	92	1276677	200.0	186.1	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	94	741231	200.0	174.0	
120 Naphthalene	128	13.650	13.647	0.003	99	2460534	200.0	202.2	
121 1,2,3-Trichlorobenzene	180	13.829	13.827	0.002	91	1141329	200.0	189.2	
S 124 Xylenes, Total	1				0			426.9	
S 125 Trihalomethanes, Total	1				0			747.8	
S 126 1,2-Dichloroethene, Total	1				0			361.8	
S 127 Trimethylbenzene, Total	1				0			409.4	
S 128 1,3-Dichloropropene, Total	1				0			401.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 LOWSS1_00198	Amount Added: 7.50	Units: uL
8260/624ACRWK_00675	Amount Added: 10.00	Units: uL
8260VA/2CEVE_00600	Amount Added: 10.00	Units: uL
8260/624GASWK_01452	Amount Added: 10.00	Units: uL
8260/624KETWK_00629	Amount Added: 10.00	Units: uL
8260/624MEGWK_01389	Amount Added: 10.00	Units: uL
8260 LOWIS1_00166	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D

Injection Date: 28-Jun-2022 12:17:08

Instrument ID: CMS29

Operator ID: PF

Lims ID: STD010

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

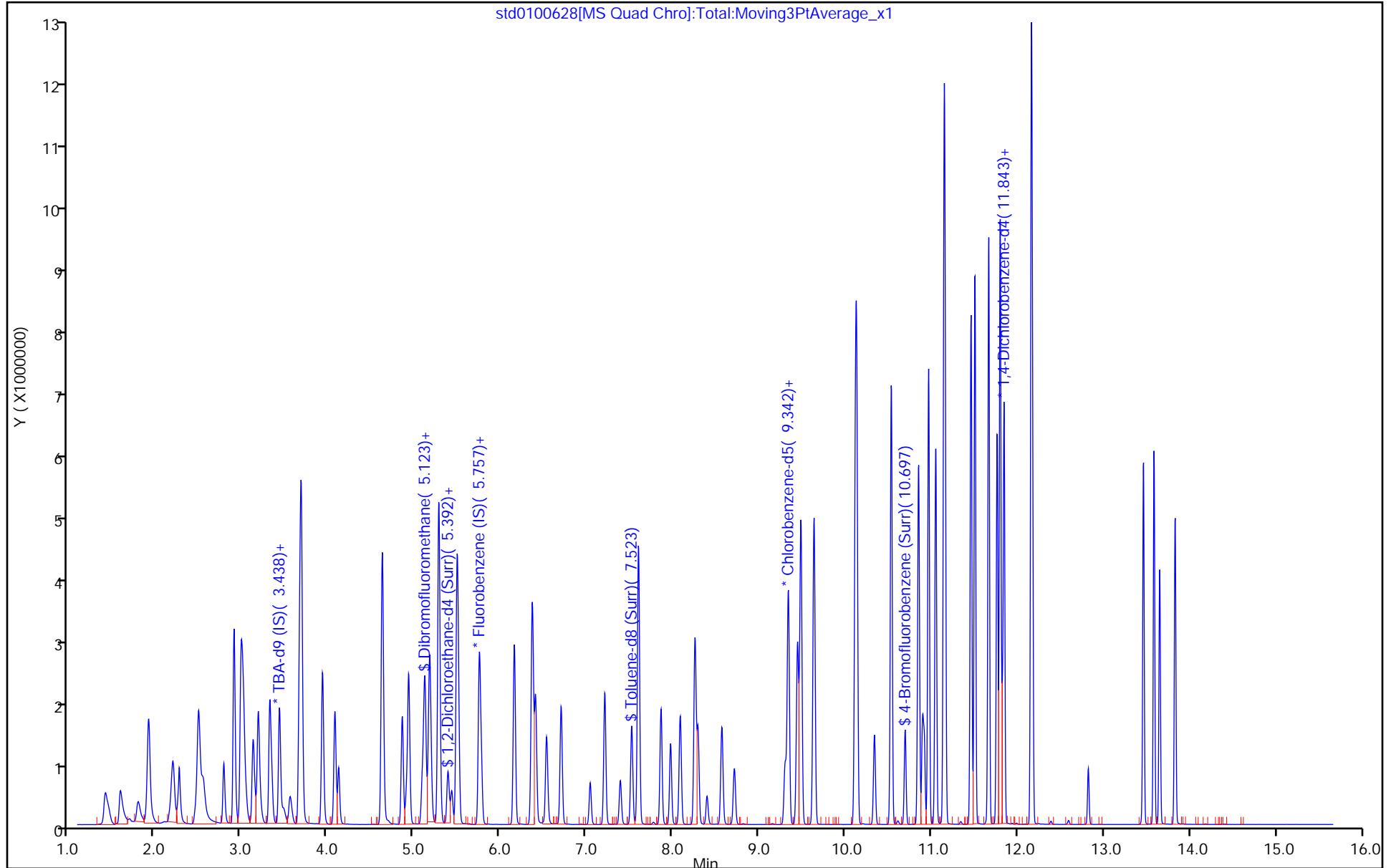
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

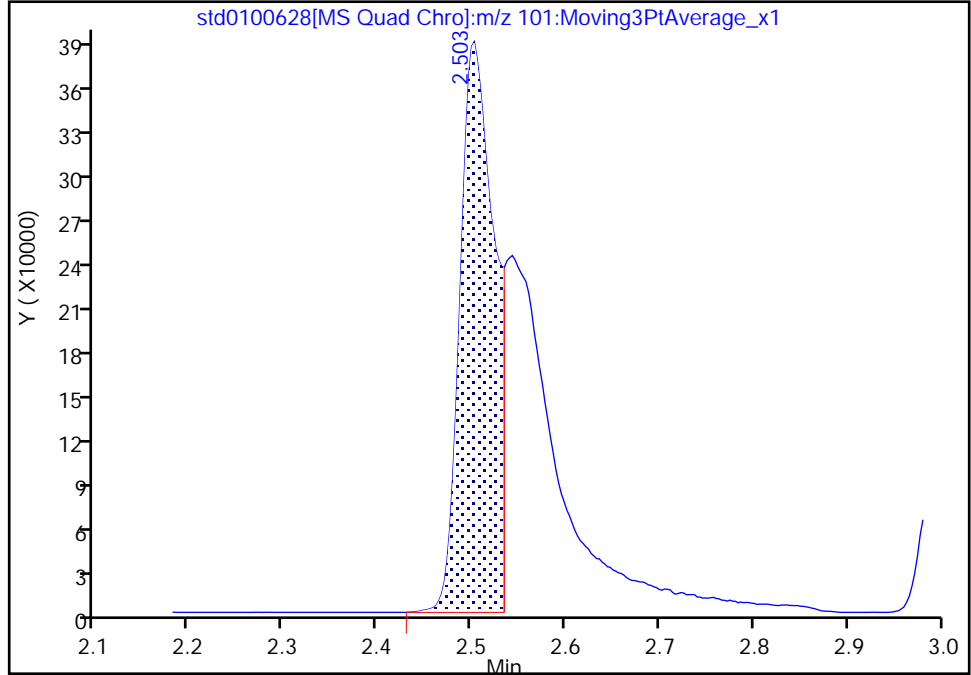
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Injection Date: 28-Jun-2022 12:17:08 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

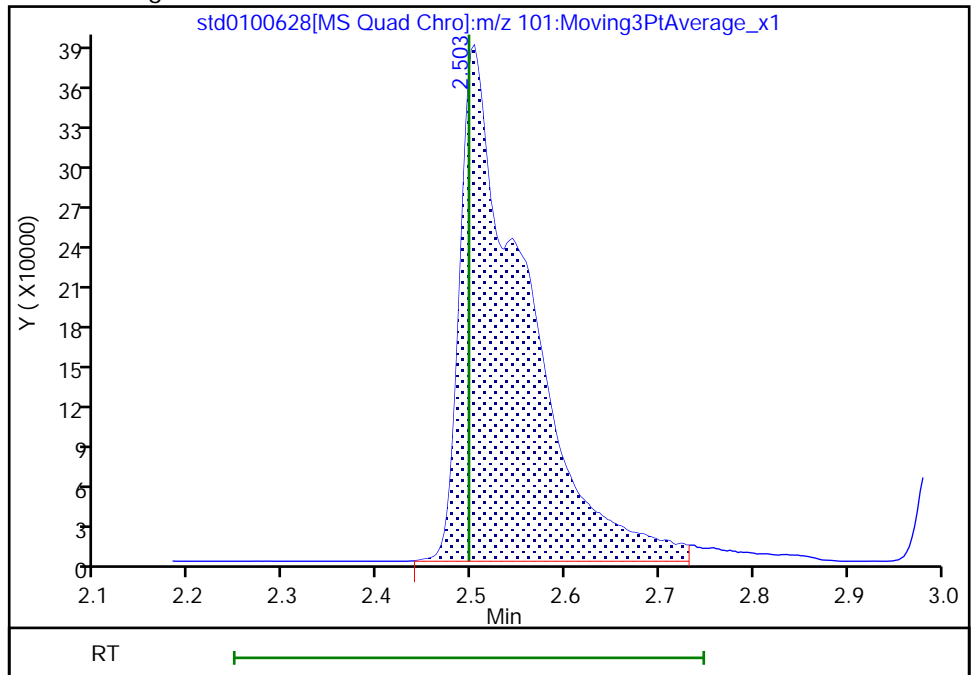
RT: 2.50
Area: 991278
Amount: 94.673099
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 1885916
Amount: 170.9855
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:37:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

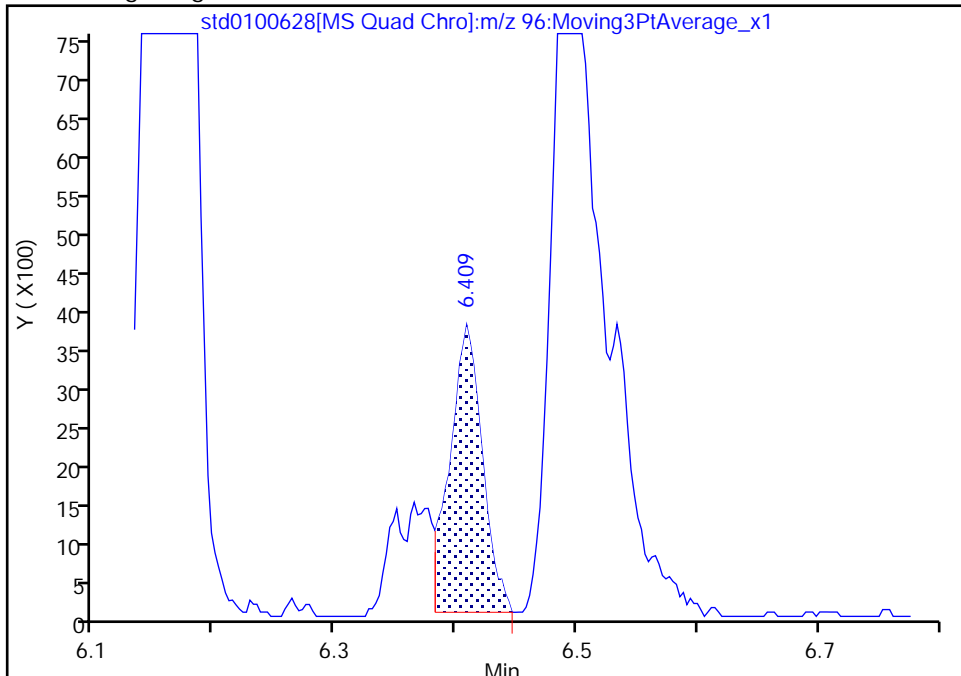
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
Injection Date: 28-Jun-2022 12:17:08 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

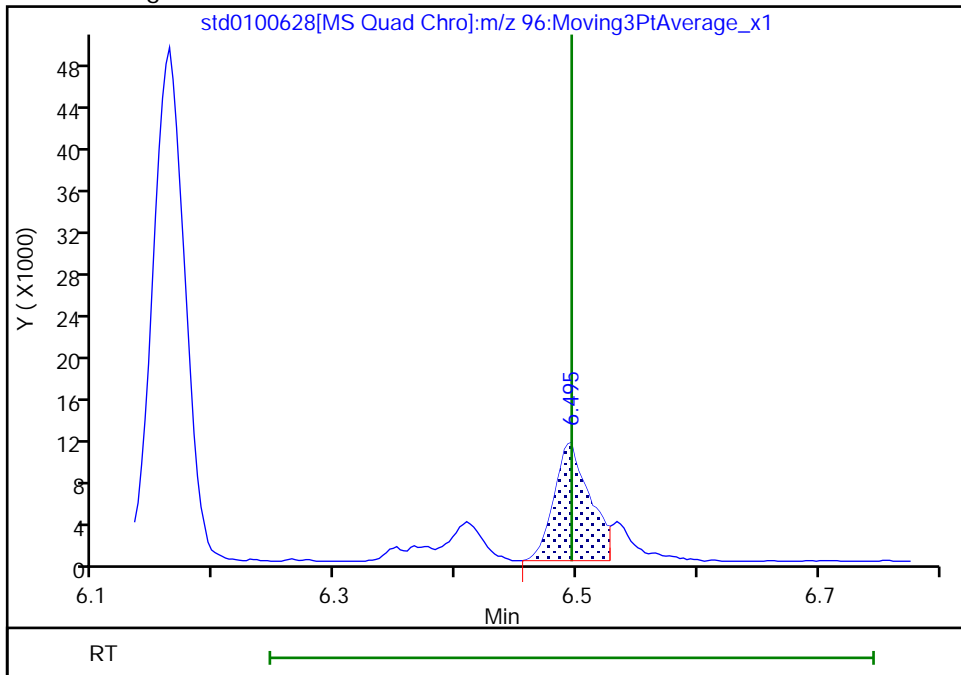
RT: 6.41
Area: 6956
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.50
Area: 23251
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 12:41:03
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

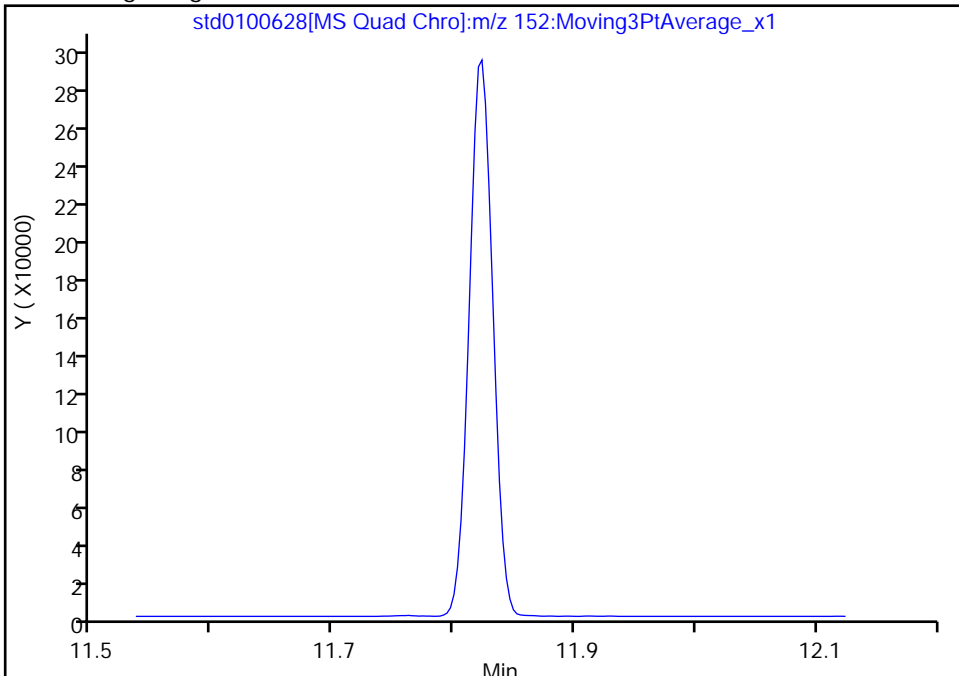
Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
Injection Date: 28-Jun-2022 12:17:08 Instrument ID: CMS29
Lims ID: STD010
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 110 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

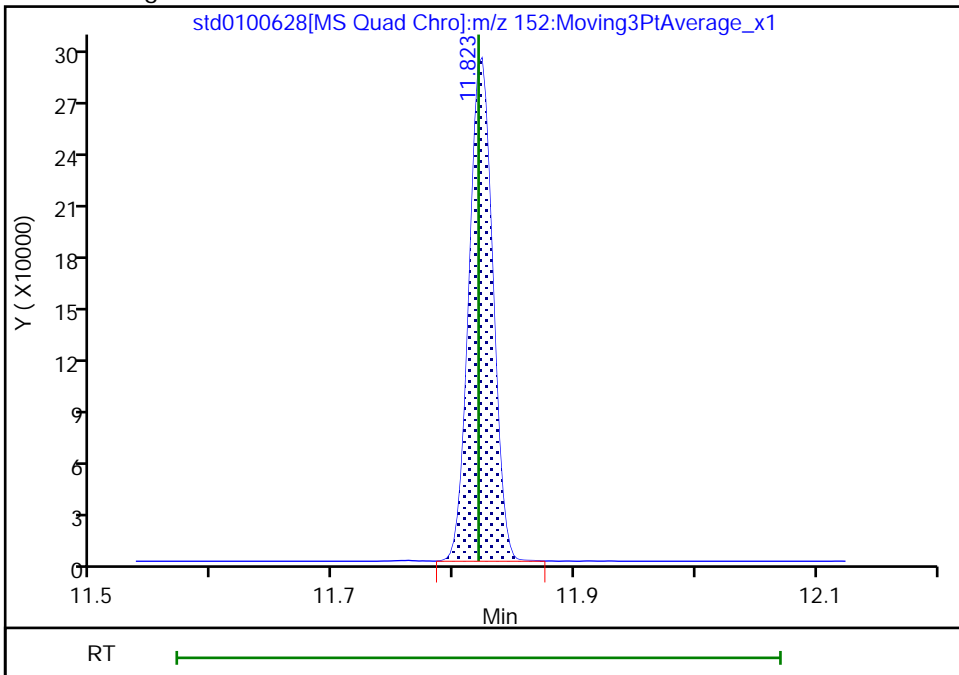
Not Detected
Expected RT: 11.82

Processing Integration Results



Manual Integration Results

RT: 11.82
Area: 397804
Amount: 50.000000
Amount Units: ug/l



Reviewer: BQP0, 28-Jun-2022 12:37:38
Audit Action: Assigned Compound ID

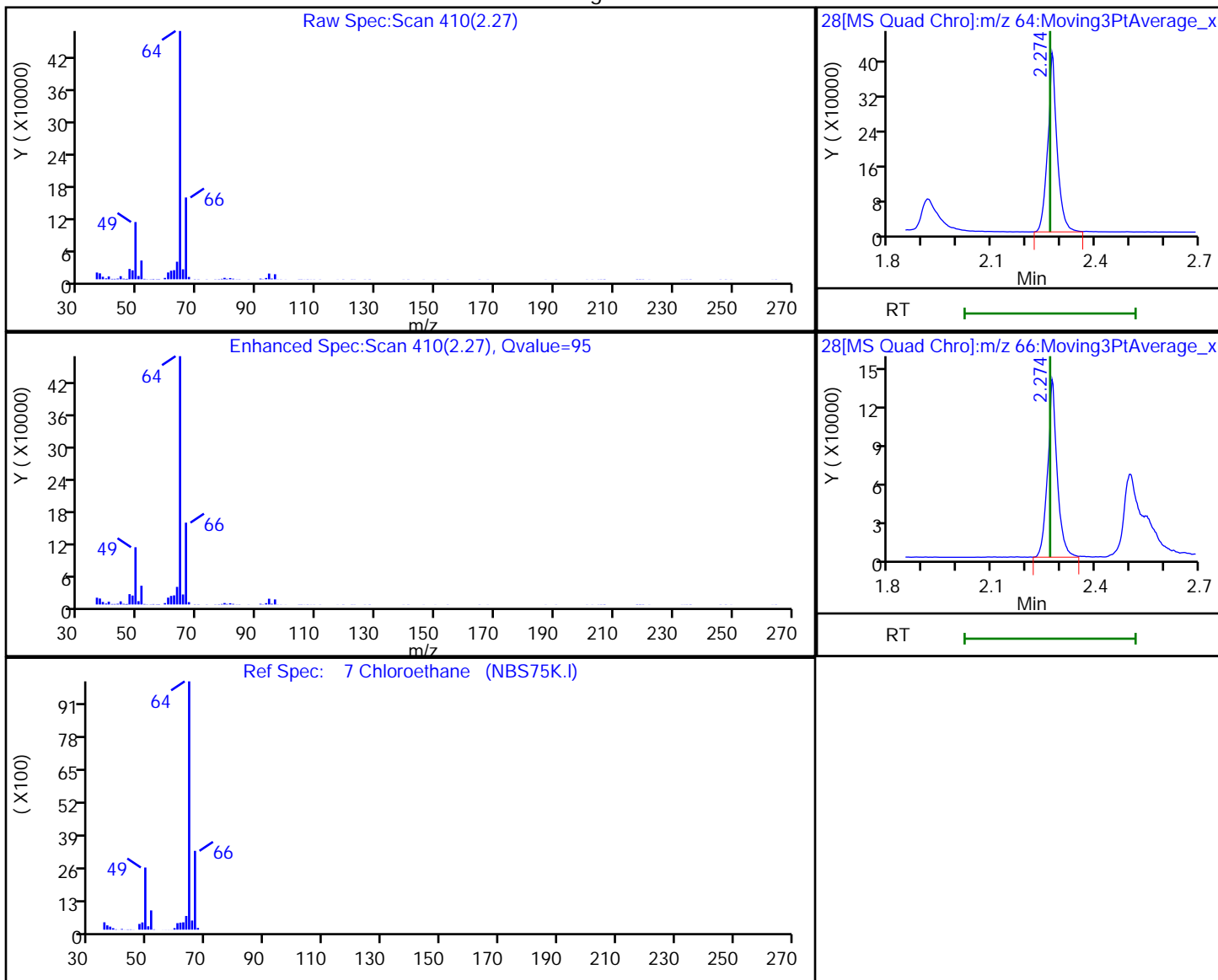
Audit Reason: Incomplete Integration

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Injection Date: 28-Jun-2022 12:17:08 Instrument ID: CMS29
 Lims ID: STD010
 Client ID:
 Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Column: DB624 (0.20 mm) Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.27	64.00	787051	191.4708
2.27	66.00	263433	

Reviewer: BQP0, 28-Jun-2022 12:39:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Calibration

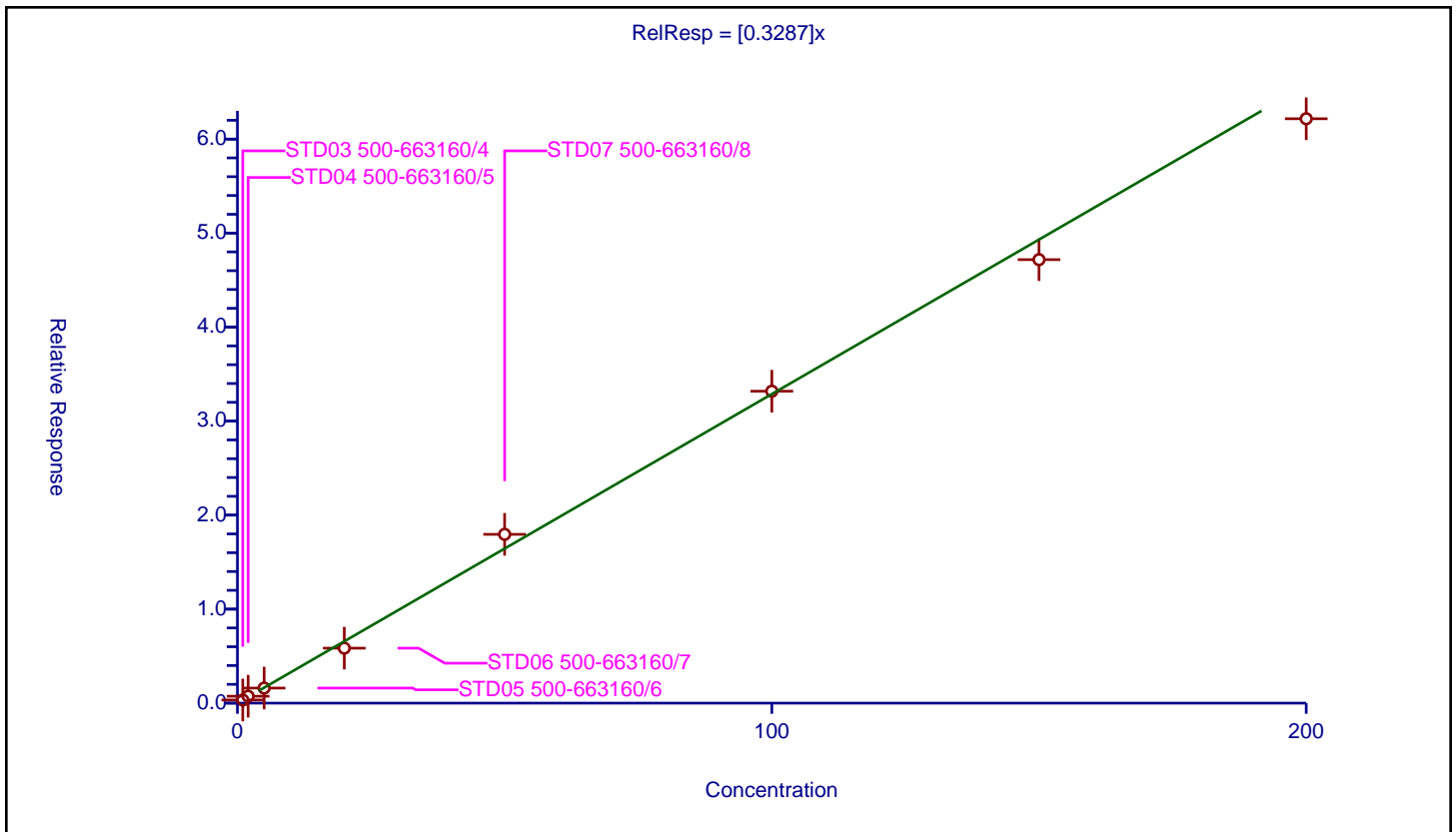
/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3287

Error Coefficients	
Standard Error:	559000
Relative Standard Error:	7.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.332813	50.0	598685.0	0.332813	Y
2	STD04 500-663160/5	2.0	0.736227	50.0	616590.0	0.368113	Y
3	STD05 500-663160/6	5.0	1.60246	50.0	621950.0	0.320492	Y
4	STD06 500-663160/7	20.0	5.845721	50.0	654607.0	0.292286	Y
5	STD07 500-663160/8	50.0	17.955208	50.0	695308.0	0.359104	Y
6	STD08 500-663160/9	100.0	33.18073	50.0	770078.0	0.331807	Y
7	STD09 500-663160/10	150.0	47.176617	50.0	832388.0	0.314511	Y
8	STD010 500-663160/11	200.0	62.163999	50.0	894751.0	0.31082	Y



Calibration

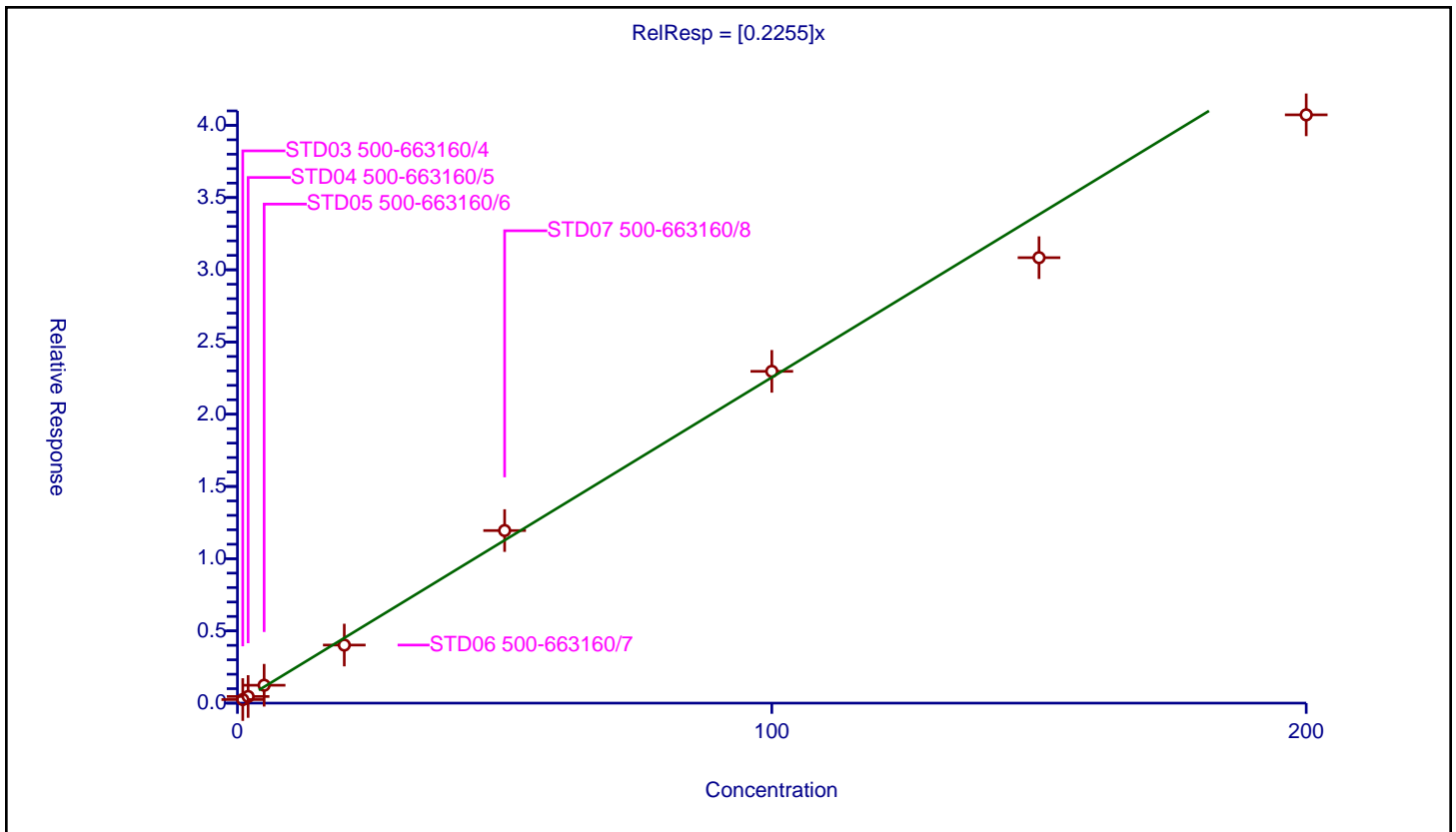
/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2255

Error Coefficients	
Standard Error:	368000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.247626	50.0	598685.0	0.247626	Y
2	STD04 500-663160/5	2.0	0.459706	50.0	616590.0	0.229853	Y
3	STD05 500-663160/6	5.0	1.238765	50.0	621950.0	0.247753	Y
4	STD06 500-663160/7	20.0	4.019511	50.0	654607.0	0.200976	Y
5	STD07 500-663160/8	50.0	11.947151	50.0	695308.0	0.238943	Y
6	STD08 500-663160/9	100.0	22.968972	50.0	770078.0	0.22969	Y
7	STD09 500-663160/10	150.0	30.838143	50.0	832388.0	0.205588	Y
8	STD010 500-663160/11	200.0	40.726359	50.0	894751.0	0.203632	Y



Calibration

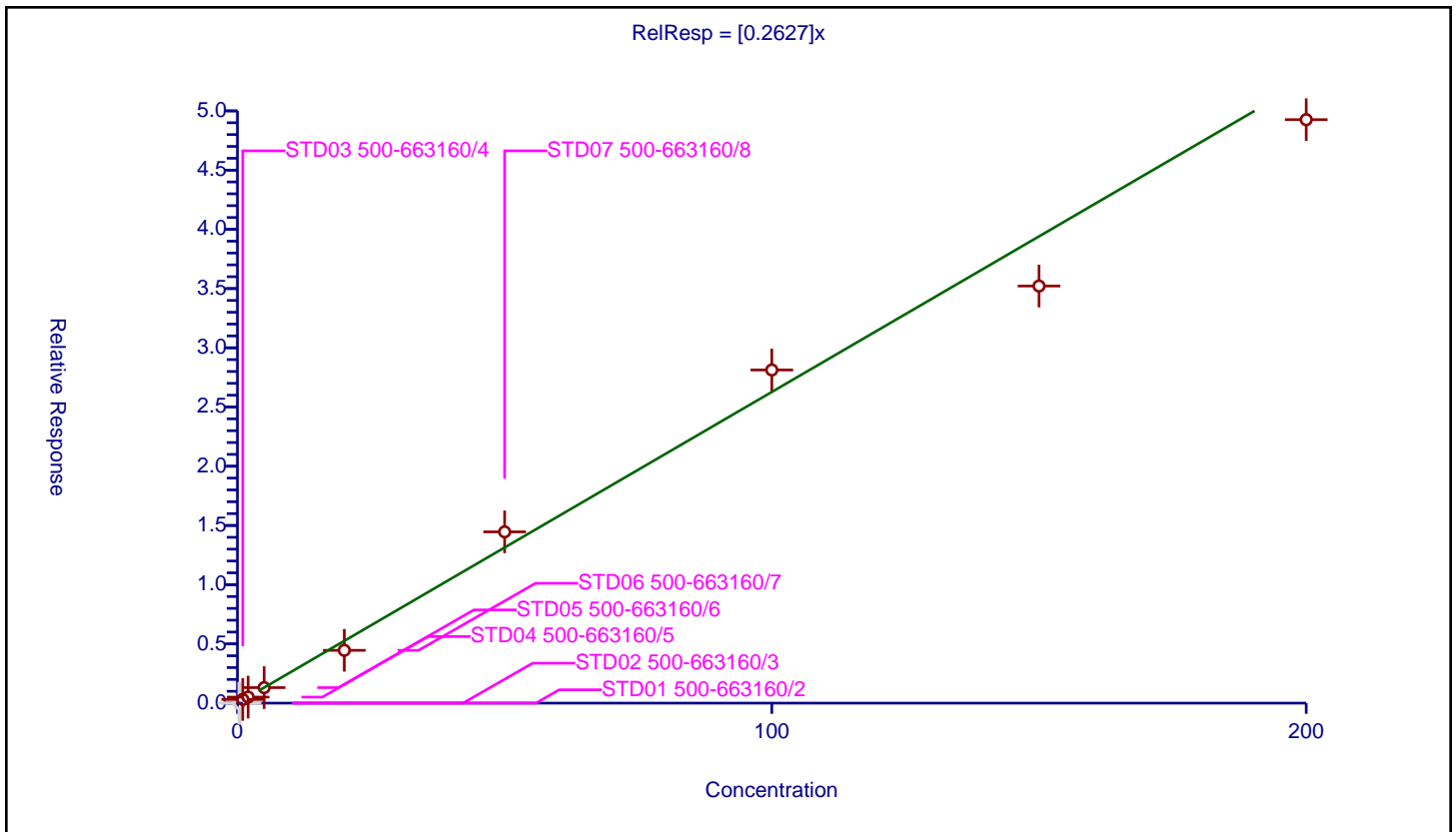
/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2627

Error Coefficients	
Standard Error:	440000
Relative Standard Error:	11.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.0	50.0	555448.0	0.0	N
2	STD02 500-663160/3	0.5	0.0	50.0	570149.0	0.0	N
3	STD03 500-663160/4	1.0	0.310514	50.0	598685.0	0.310514	Y
4	STD04 500-663160/5	2.0	0.508928	50.0	616590.0	0.254464	Y
5	STD05 500-663160/6	5.0	1.310716	50.0	621950.0	0.262143	Y
6	STD06 500-663160/7	20.0	4.458859	50.0	654607.0	0.222943	Y
7	STD07 500-663160/8	50.0	14.458844	50.0	695308.0	0.289177	Y
8	STD08 500-663160/9	100.0	28.126047	50.0	770078.0	0.28126	Y
9	STD09 500-663160/10	150.0	35.212605	50.0	832388.0	0.234751	Y
10	STD010 500-663160/11	200.0	49.259515	50.0	894751.0	0.246298	Y



Calibration

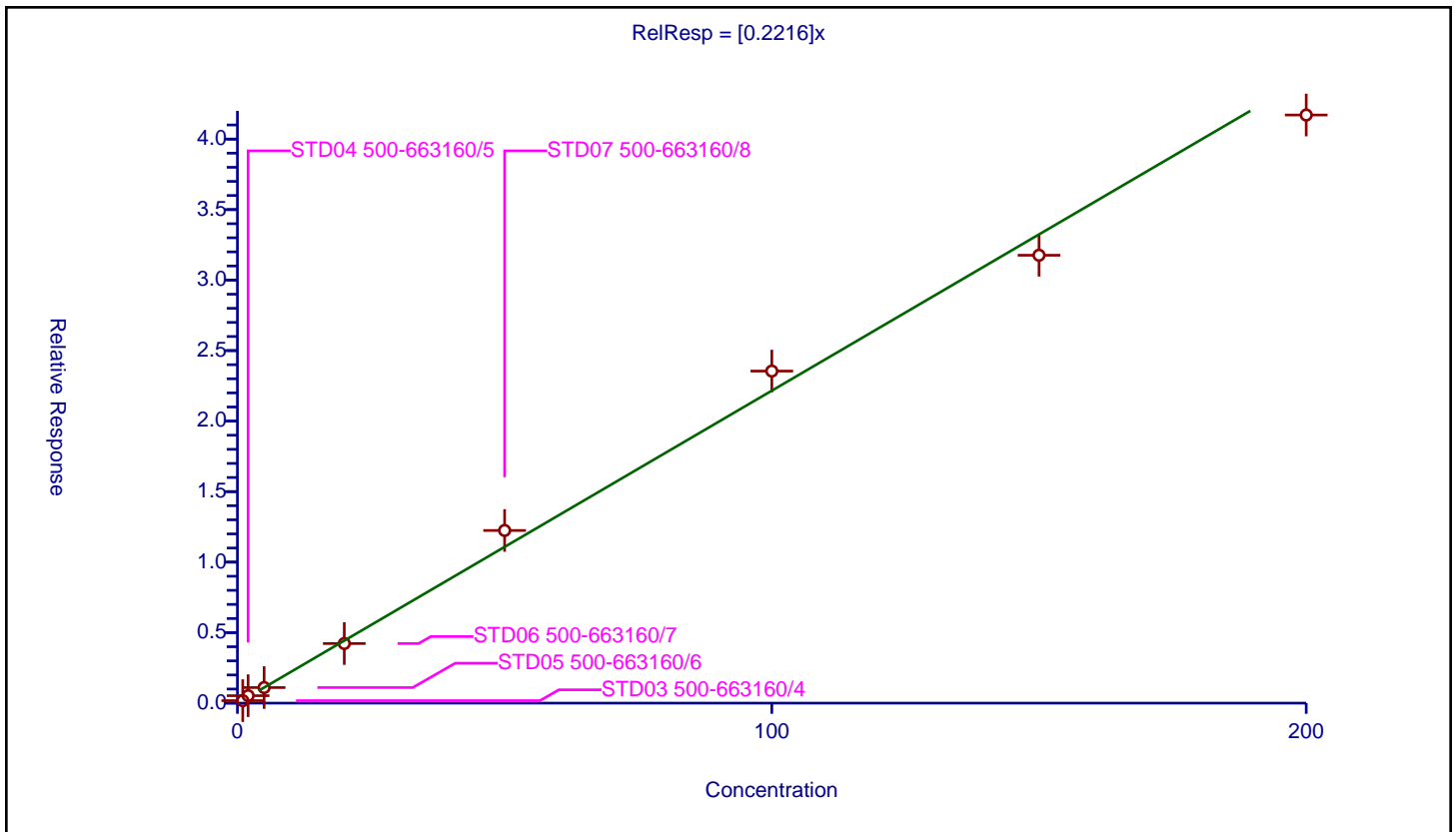
/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2216

Error Coefficients	
Standard Error:	378000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.176136	50.0	598685.0	0.176136	Y
2	STD04 500-663160/5	2.0	0.527498	50.0	616590.0	0.263749	Y
3	STD05 500-663160/6	5.0	1.104108	50.0	621950.0	0.220822	Y
4	STD06 500-663160/7	20.0	4.226658	50.0	654607.0	0.211333	Y
5	STD07 500-663160/8	50.0	12.244574	50.0	695308.0	0.244891	Y
6	STD08 500-663160/9	100.0	23.548394	50.0	770078.0	0.235484	Y
7	STD09 500-663160/10	150.0	31.763072	50.0	832388.0	0.211754	Y
8	STD010 500-663160/11	200.0	41.707469	50.0	894751.0	0.208537	Y



Calibration

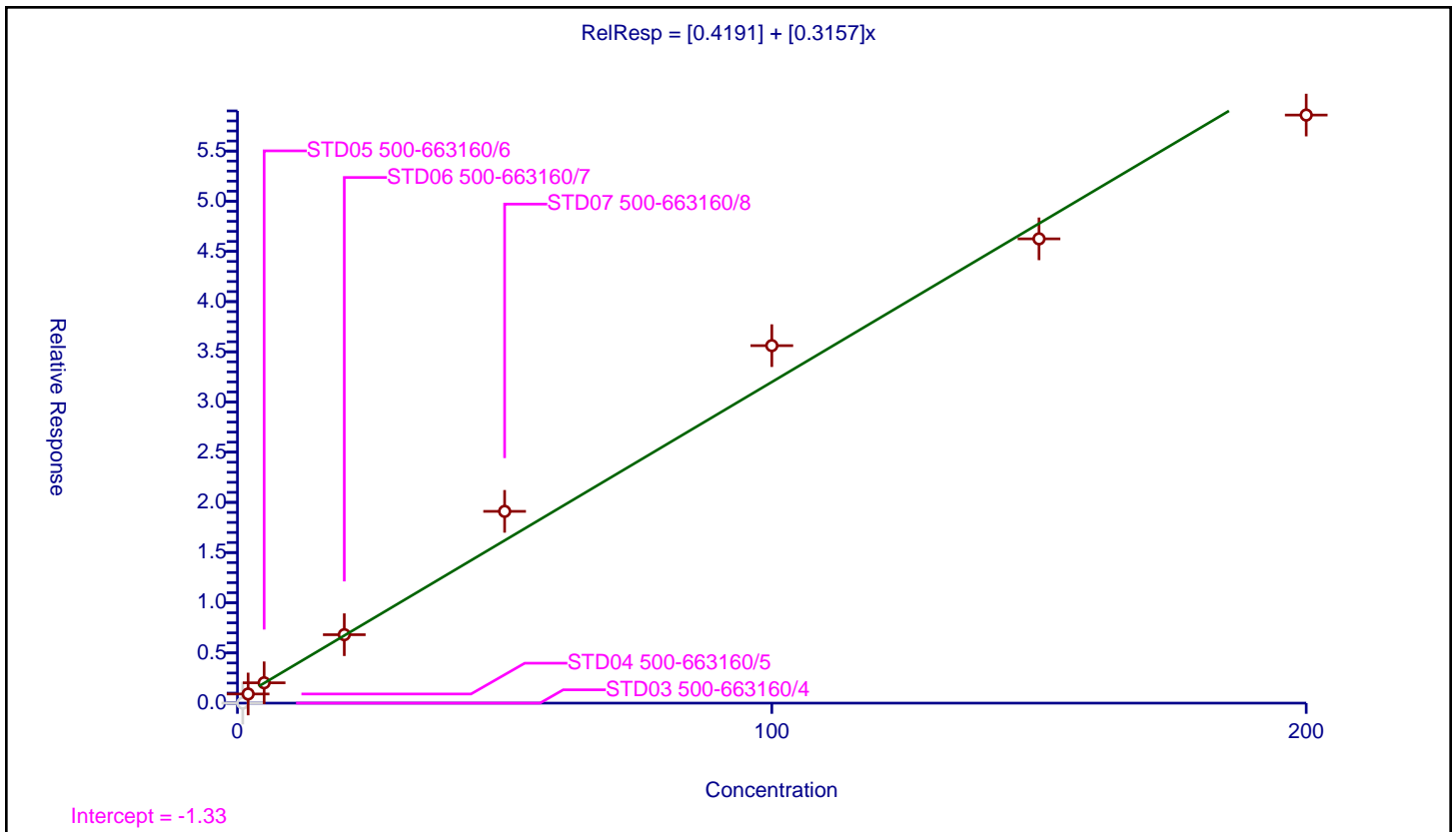
/ Bromomethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.4191
Slope:	0.3157

Error Coefficients	
Standard Error:	644000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	2.0	0.912681	50.0	616590.0	0.456341	Y
3	STD05 500-663160/6	5.0	2.02468	50.0	621950.0	0.404936	Y
4	STD06 500-663160/7	20.0	6.818824	50.0	654607.0	0.340941	Y
5	STD07 500-663160/8	50.0	19.105921	50.0	695308.0	0.382118	Y
6	STD08 500-663160/9	100.0	35.613146	50.0	770078.0	0.356131	Y
7	STD09 500-663160/10	150.0	46.252289	50.0	832388.0	0.308349	Y
8	STD010 500-663160/11	200.0	58.586691	50.0	894751.0	0.292933	Y



Calibration

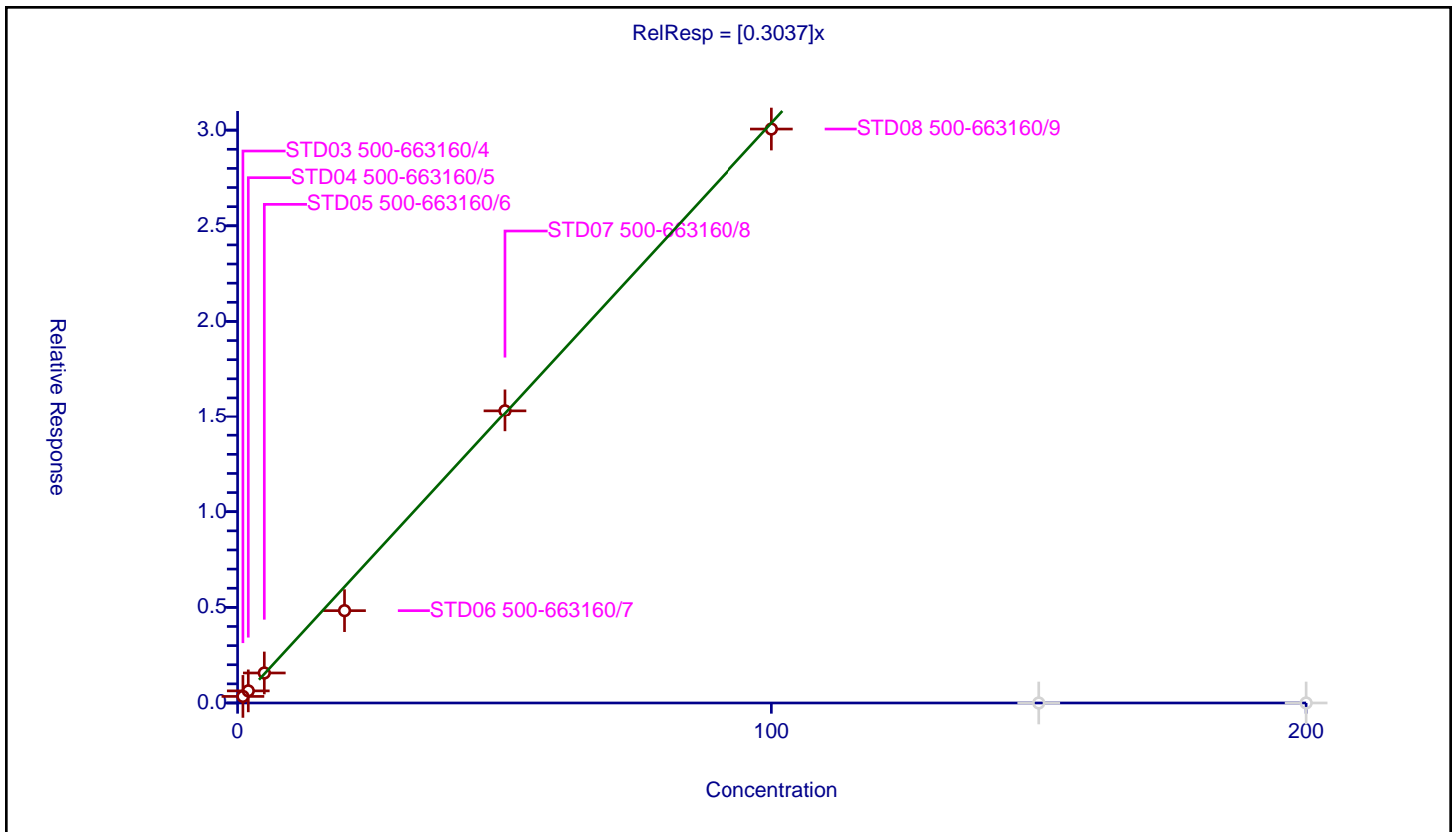
/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3037

Error Coefficients	
Standard Error:	230000
Relative Standard Error:	11.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.343753	50.0	598685.0	0.343753	Y
2	STD04 500-663160/5	2.0	0.633322	50.0	616590.0	0.316661	Y
3	STD05 500-663160/6	5.0	1.568374	50.0	621950.0	0.313675	Y
4	STD06 500-663160/7	20.0	4.826484	50.0	654607.0	0.241324	Y
5	STD07 500-663160/8	50.0	15.324935	50.0	695308.0	0.306499	Y
6	STD08 500-663160/9	100.0	30.057799	50.0	770078.0	0.300578	Y
7	STD09 500-663160/10	150.0	0.0	50.0	832388.0	0.0	N
8	STD010 500-663160/11	200.0	0.0	50.0	894751.0	0.0	N



Calibration

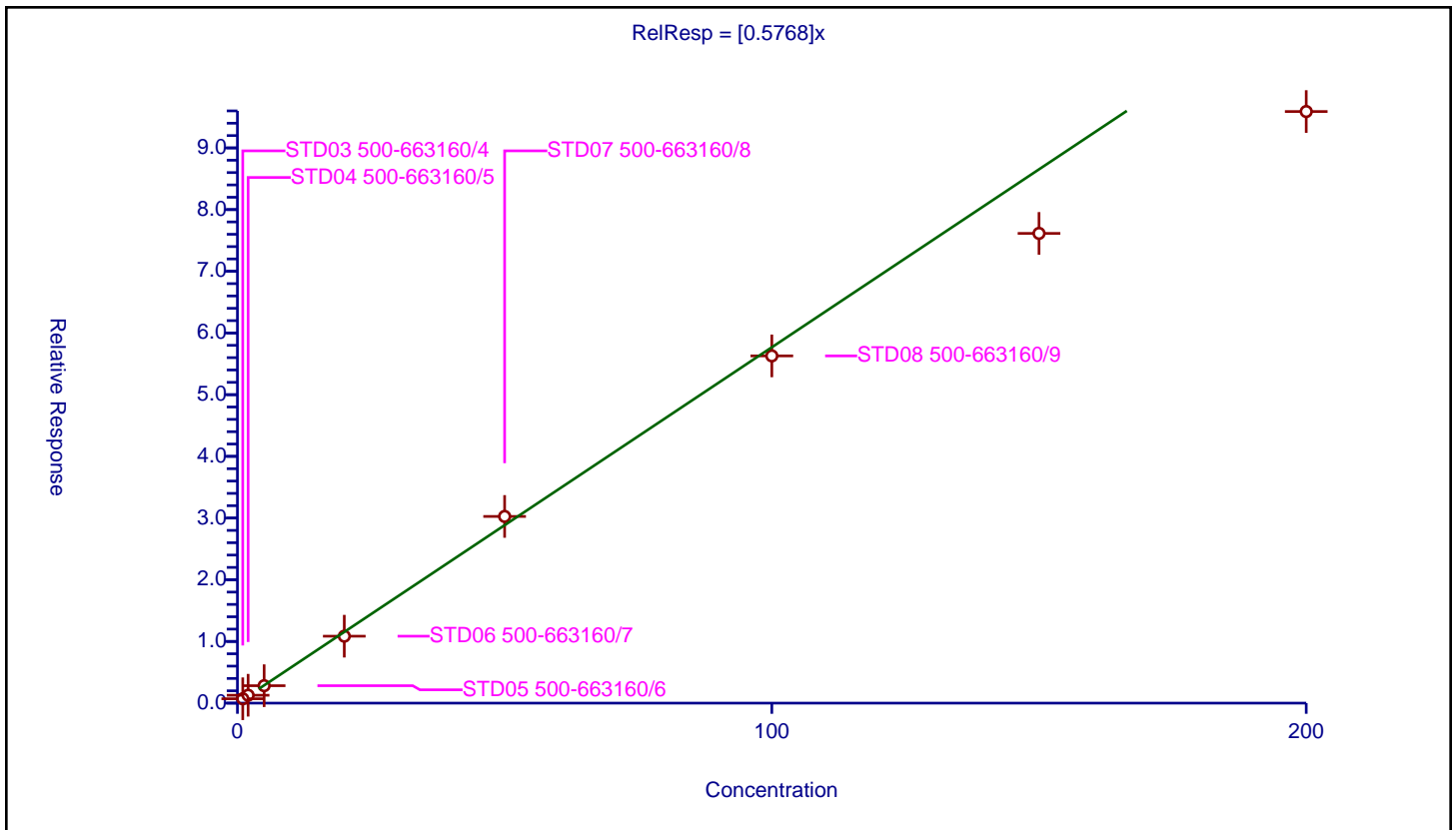
/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5768

Error Coefficients	
Standard Error:	887000
Relative Standard Error:	12.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.712061	50.0	598685.0	0.712061	Y
2	STD04 500-663160/5	2.0	1.279781	50.0	616590.0	0.63989	Y
3	STD05 500-663160/6	5.0	2.824664	50.0	621950.0	0.564933	Y
4	STD06 500-663160/7	20.0	10.849334	50.0	654607.0	0.542467	Y
5	STD07 500-663160/8	50.0	30.261553	50.0	695308.0	0.605231	Y
6	STD08 500-663160/9	100.0	56.285532	50.0	770078.0	0.562855	Y
7	STD09 500-663160/10	150.0	76.140874	50.0	832388.0	0.507606	Y
8	STD010 500-663160/11	200.0	95.897797	50.0	894751.0	0.479489	Y



Calibration

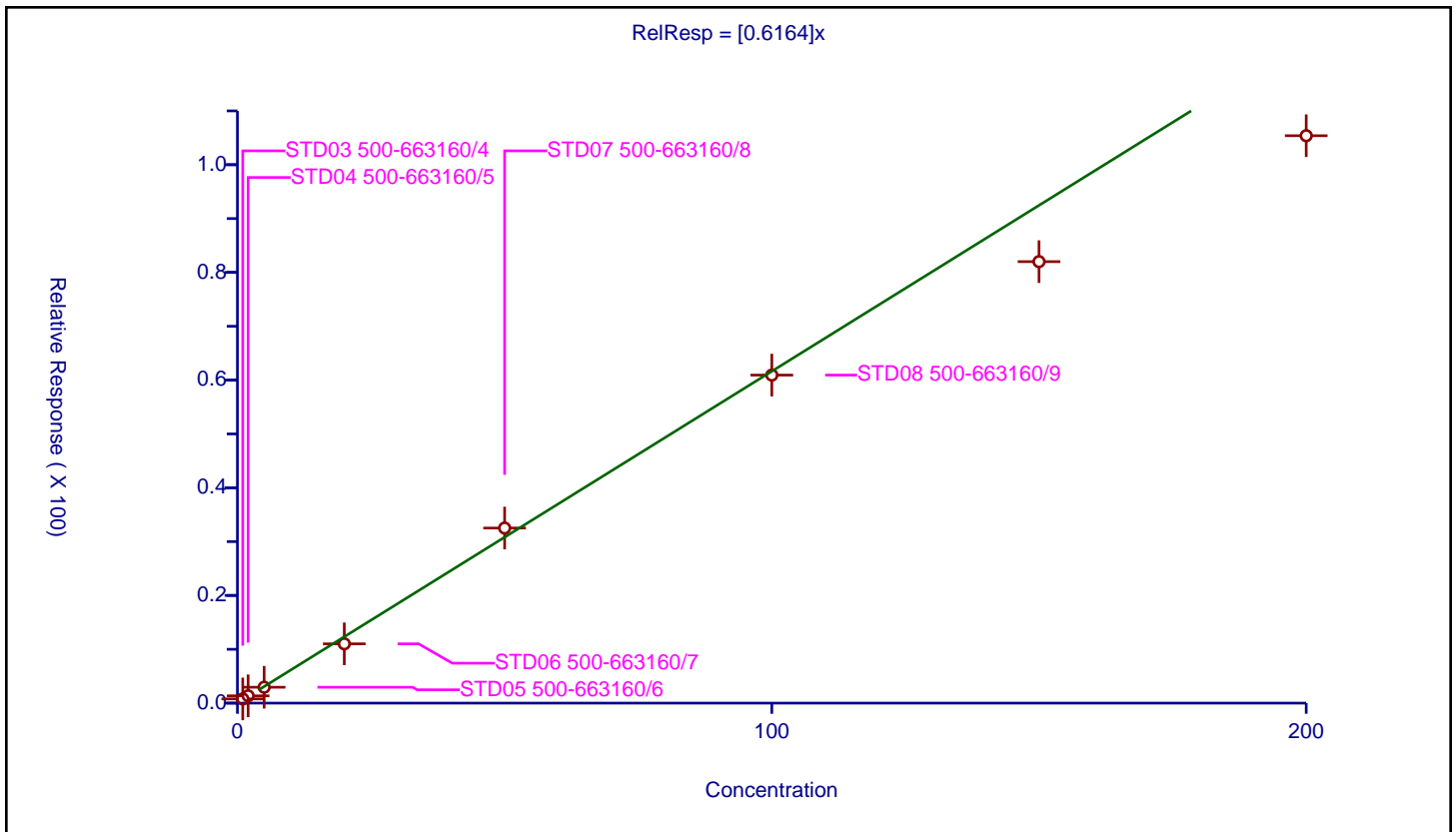
/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6164

Error Coefficients	
Standard Error:	966000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.780962	50.0	598685.0	0.780962	Y
2	STD04 500-663160/5	2.0	1.352033	50.0	616590.0	0.676016	Y
3	STD05 500-663160/6	5.0	2.949192	50.0	621950.0	0.589838	Y
4	STD06 500-663160/7	20.0	11.015923	50.0	654607.0	0.550796	Y
5	STD07 500-663160/8	50.0	32.518682	50.0	695308.0	0.650374	Y
6	STD08 500-663160/9	100.0	60.925387	50.0	770078.0	0.609254	Y
7	STD09 500-663160/10	150.0	81.99908	50.0	832388.0	0.546661	Y
8	STD010 500-663160/11	200.0	105.387756	50.0	894751.0	0.526939	Y



Calibration

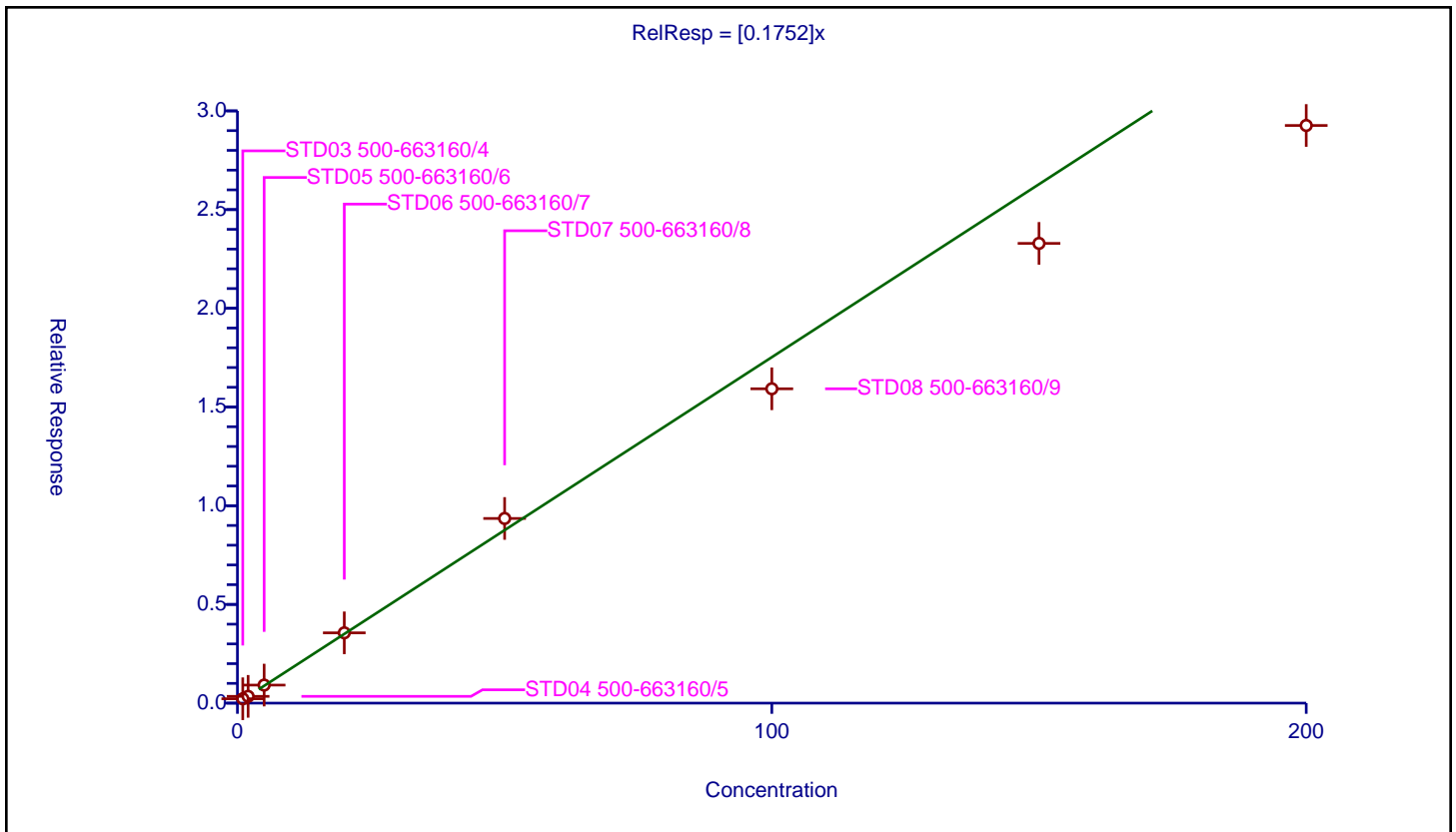
/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1752

Error Coefficients	
Standard Error:	268000
Relative Standard Error:	13.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.221652	50.0	598685.0	0.221652	Y
2	STD04 500-663160/5	2.0	0.342691	50.0	616590.0	0.171346	Y
3	STD05 500-663160/6	5.0	0.914623	50.0	621950.0	0.182925	Y
4	STD06 500-663160/7	20.0	3.561068	50.0	654607.0	0.178053	Y
5	STD07 500-663160/8	50.0	9.354847	50.0	695308.0	0.187097	Y
6	STD08 500-663160/9	100.0	15.923322	50.0	770078.0	0.159233	Y
7	STD09 500-663160/10	150.0	23.287517	50.0	832388.0	0.15525	Y
8	STD010 500-663160/11	200.0	29.261102	50.0	894751.0	0.146306	Y



Calibration

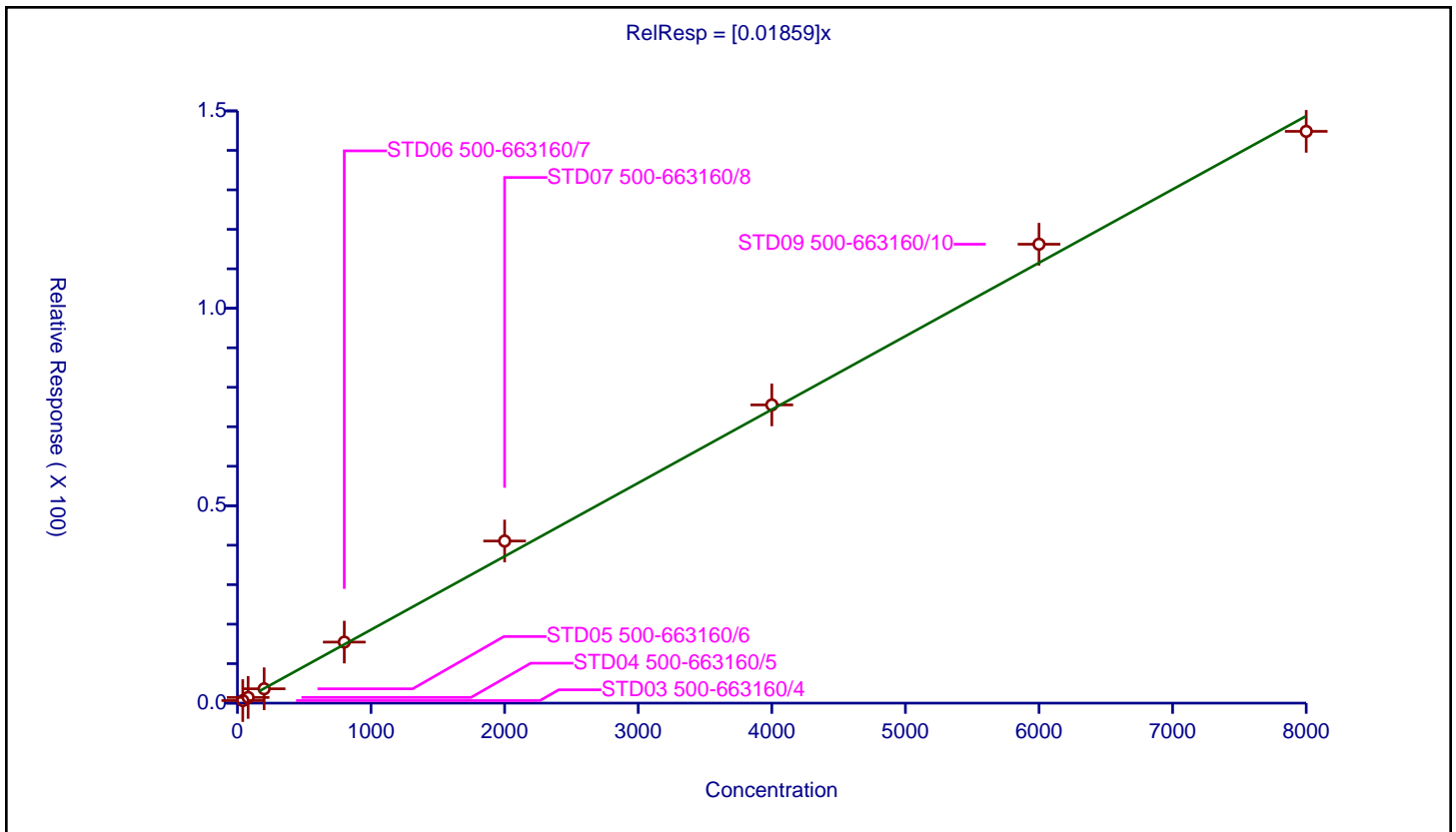
/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01859

Error Coefficients	
Standard Error:	1320000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	40.0	0.651929	50.0	598685.0	0.016298	Y
2	STD04 500-663160/5	80.0	1.443342	50.0	616590.0	0.018042	Y
3	STD05 500-663160/6	200.0	3.630437	50.0	621950.0	0.018152	Y
4	STD06 500-663160/7	800.0	15.460727	50.0	654607.0	0.019326	Y
5	STD07 500-663160/8	2000.0	41.055978	50.0	695308.0	0.020528	Y
6	STD08 500-663160/9	4000.0	75.534556	50.0	770078.0	0.018884	Y
7	STD09 500-663160/10	6000.0	116.232514	50.0	832388.0	0.019372	Y
8	STD010 500-663160/11	8000.0	144.819788	50.0	894751.0	0.018102	Y



Calibration

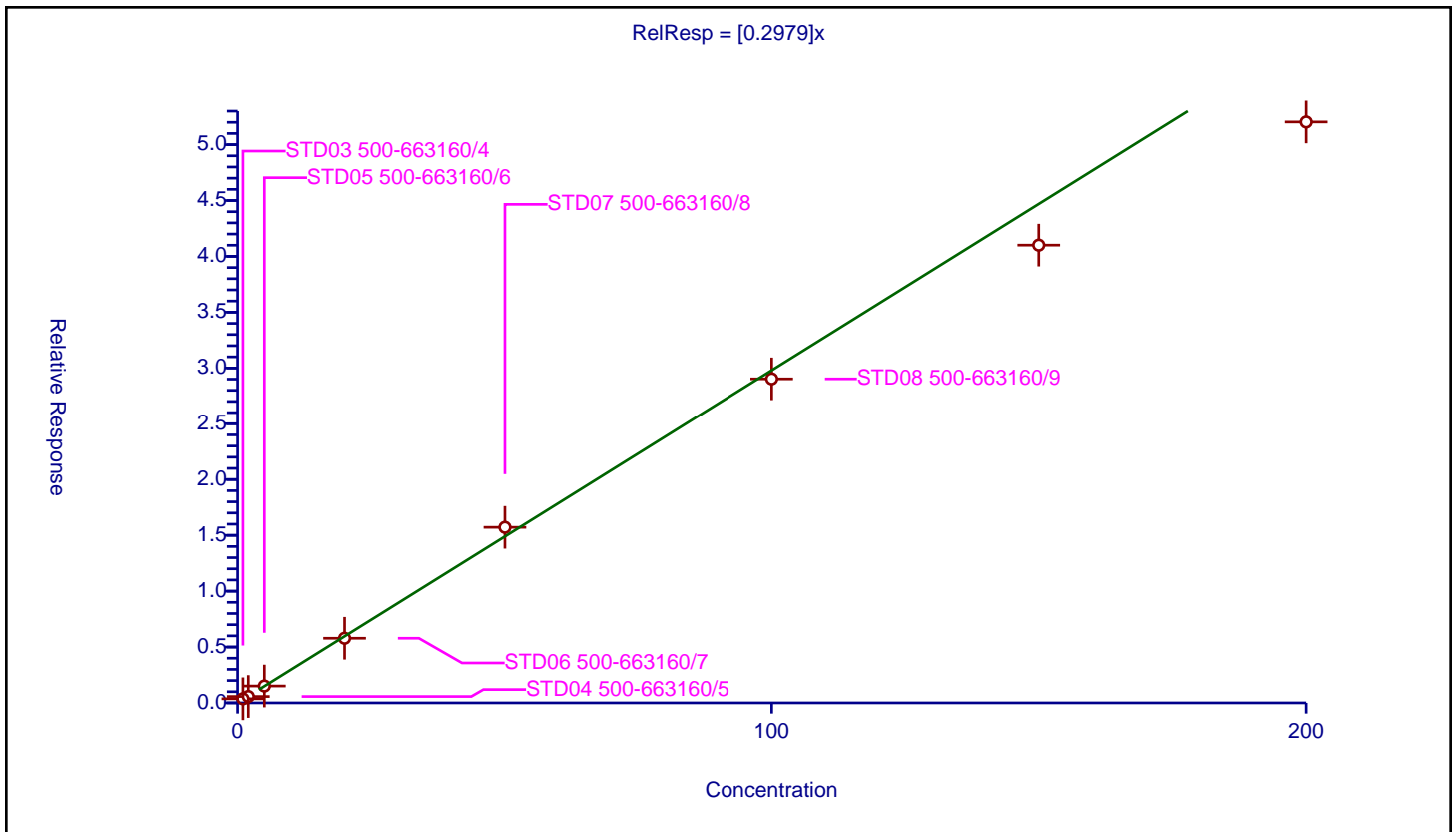
/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2979

Error Coefficients	
Standard Error:	476000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.368307	50.0	598685.0	0.368307	Y
2	STD04 500-663160/5	2.0	0.571774	50.0	616590.0	0.285887	Y
3	STD05 500-663160/6	5.0	1.509125	50.0	621950.0	0.301825	Y
4	STD06 500-663160/7	20.0	5.78622	50.0	654607.0	0.289311	Y
5	STD07 500-663160/8	50.0	15.718142	50.0	695308.0	0.314363	Y
6	STD08 500-663160/9	100.0	29.027839	50.0	770078.0	0.290278	Y
7	STD09 500-663160/10	150.0	41.005697	50.0	832388.0	0.273371	Y
8	STD010 500-663160/11	200.0	52.032465	50.0	894751.0	0.260162	Y



Calibration

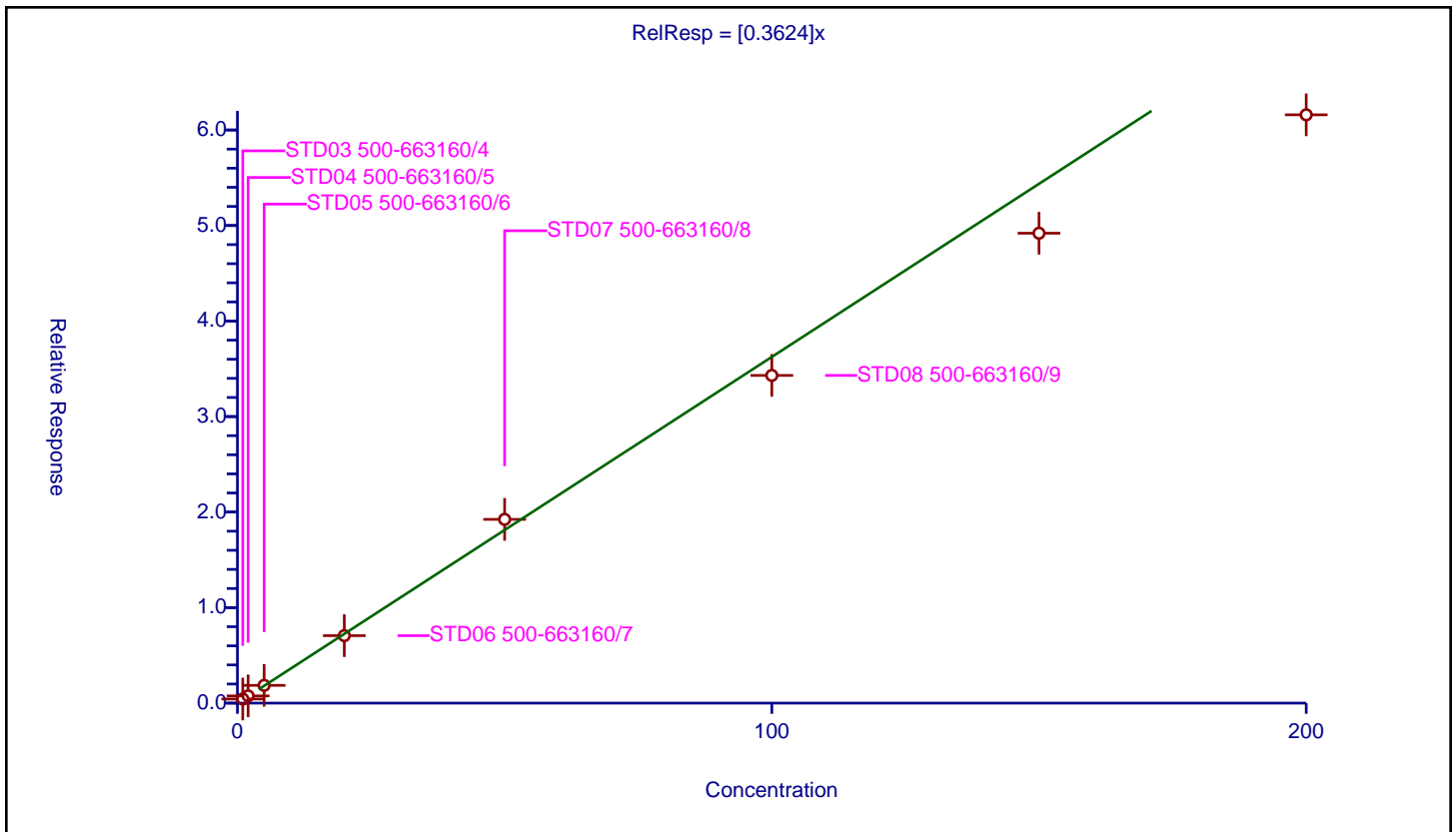
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3624

Error Coefficients	
Standard Error:	566000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.431696	50.0	598685.0	0.431696	Y
2	STD04 500-663160/5	2.0	0.757391	50.0	616590.0	0.378696	Y
3	STD05 500-663160/6	5.0	1.8606	50.0	621950.0	0.37212	Y
4	STD06 500-663160/7	20.0	7.063704	50.0	654607.0	0.353185	Y
5	STD07 500-663160/8	50.0	19.237877	50.0	695308.0	0.384758	Y
6	STD08 500-663160/9	100.0	34.306914	50.0	770078.0	0.343069	Y
7	STD09 500-663160/10	150.0	49.193465	50.0	832388.0	0.327956	Y
8	STD010 500-663160/11	200.0	61.591381	50.0	894751.0	0.307957	Y



Calibration

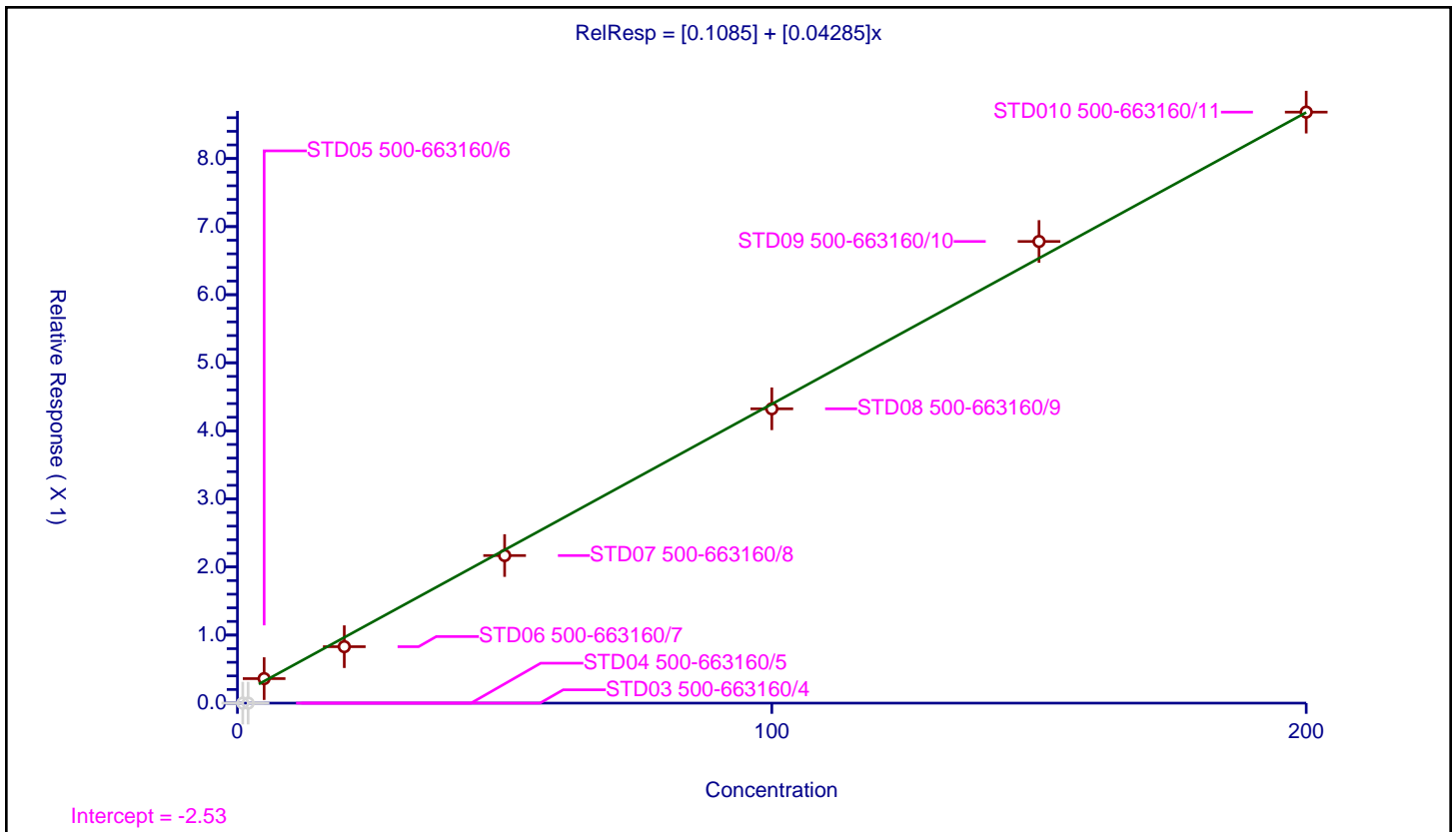
/ Acetone

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.1085
Slope:	0.04285

Error Coefficients	
Standard Error:	103000
Relative Standard Error:	12.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	2.0	0.0	50.0	616590.0	0.0	N
3	STD05 500-663160/6	5.0	0.360158	50.0	621950.0	0.072032	Y
4	STD06 500-663160/7	20.0	0.829276	50.0	654607.0	0.041464	Y
5	STD07 500-663160/8	50.0	2.168032	50.0	695308.0	0.043361	Y
6	STD08 500-663160/9	100.0	4.323848	50.0	770078.0	0.043238	Y
7	STD09 500-663160/10	150.0	6.781813	50.0	832388.0	0.045212	Y
8	STD010 500-663160/11	200.0	8.68208	50.0	894751.0	0.04341	Y



Calibration

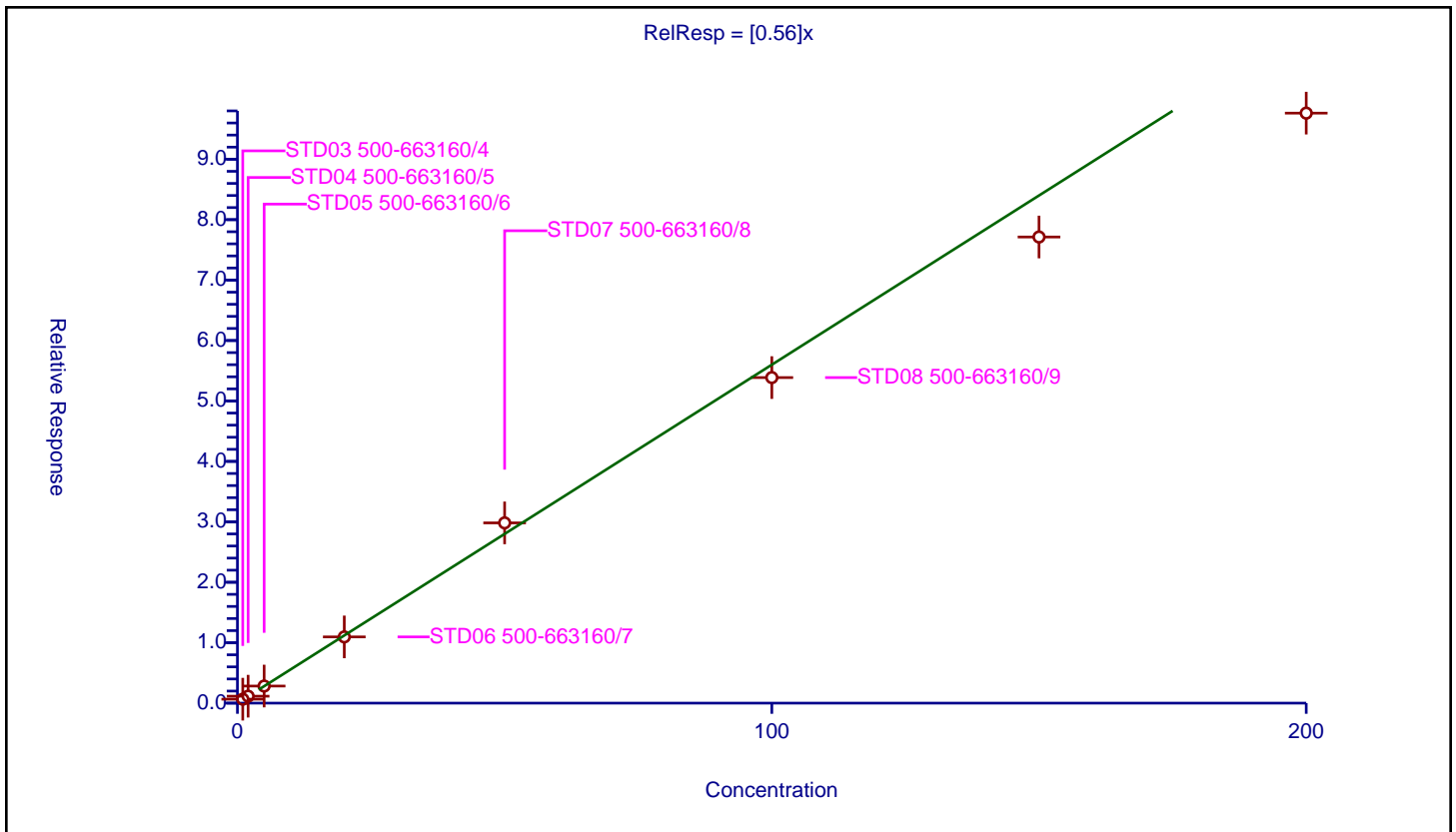
/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.56

Error Coefficients	
Standard Error:	893000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.65385	50.0	598685.0	0.65385	Y
2	STD04 500-663160/5	2.0	1.149792	50.0	616590.0	0.574896	Y
3	STD05 500-663160/6	5.0	2.827478	50.0	621950.0	0.565496	Y
4	STD06 500-663160/7	20.0	10.96024	50.0	654607.0	0.548012	Y
5	STD07 500-663160/8	50.0	29.826494	50.0	695308.0	0.59653	Y
6	STD08 500-663160/9	100.0	53.869673	50.0	770078.0	0.538697	Y
7	STD09 500-663160/10	150.0	77.134161	50.0	832388.0	0.514228	Y
8	STD010 500-663160/11	200.0	97.628558	50.0	894751.0	0.488143	Y



Calibration

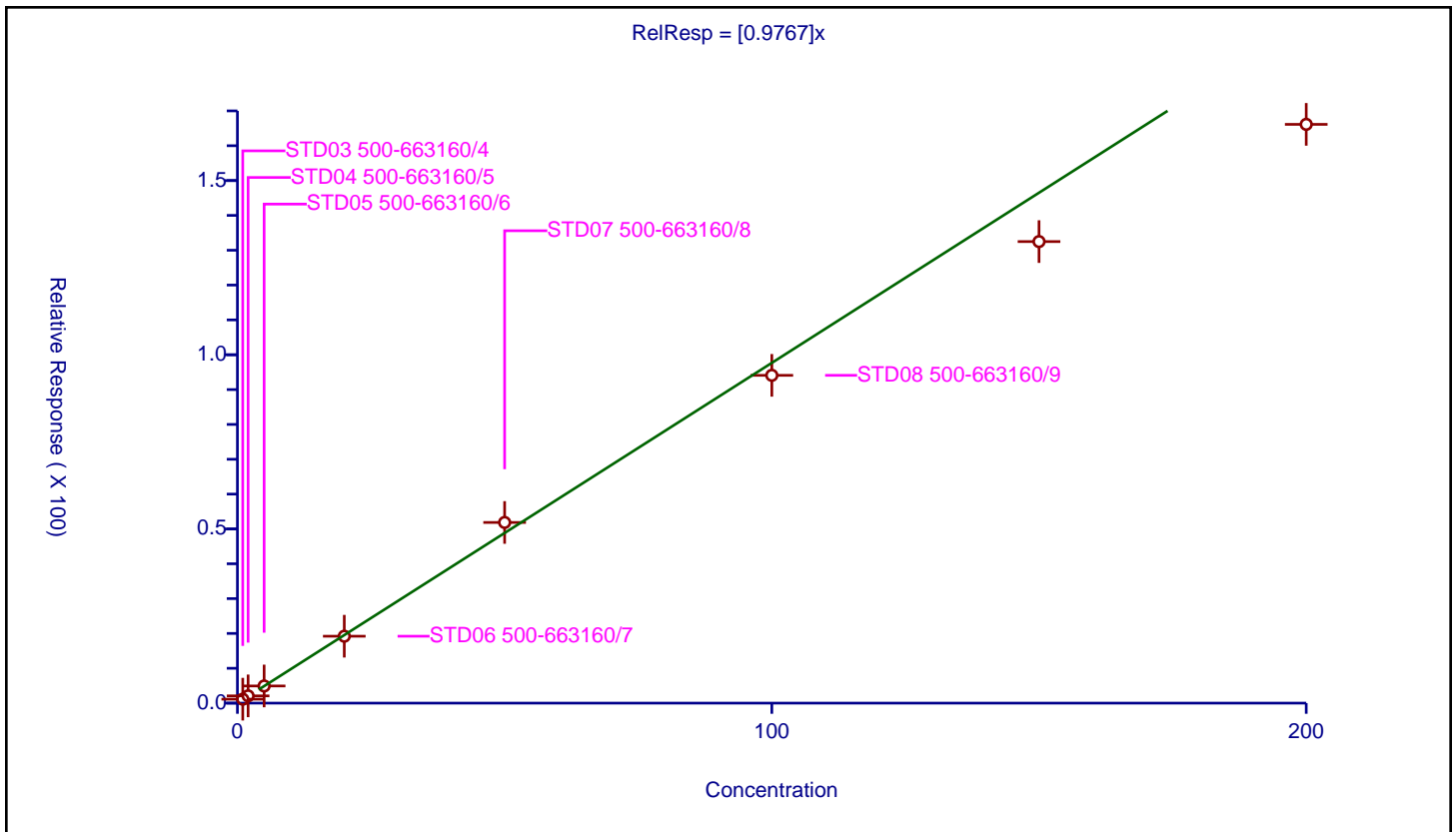
/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9767

Error Coefficients	
Standard Error:	1530000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.135071	50.0	598685.0	1.135071	Y
2	STD04 500-663160/5	2.0	2.081529	50.0	616590.0	1.040765	Y
3	STD05 500-663160/6	5.0	4.924914	50.0	621950.0	0.984983	Y
4	STD06 500-663160/7	20.0	19.210152	50.0	654607.0	0.960508	Y
5	STD07 500-663160/8	50.0	51.863203	50.0	695308.0	1.037264	Y
6	STD08 500-663160/9	100.0	94.090728	50.0	770078.0	0.940907	Y
7	STD09 500-663160/10	150.0	132.486172	50.0	832388.0	0.883241	Y
8	STD010 500-663160/11	200.0	166.134545	50.0	894751.0	0.830673	Y



Calibration

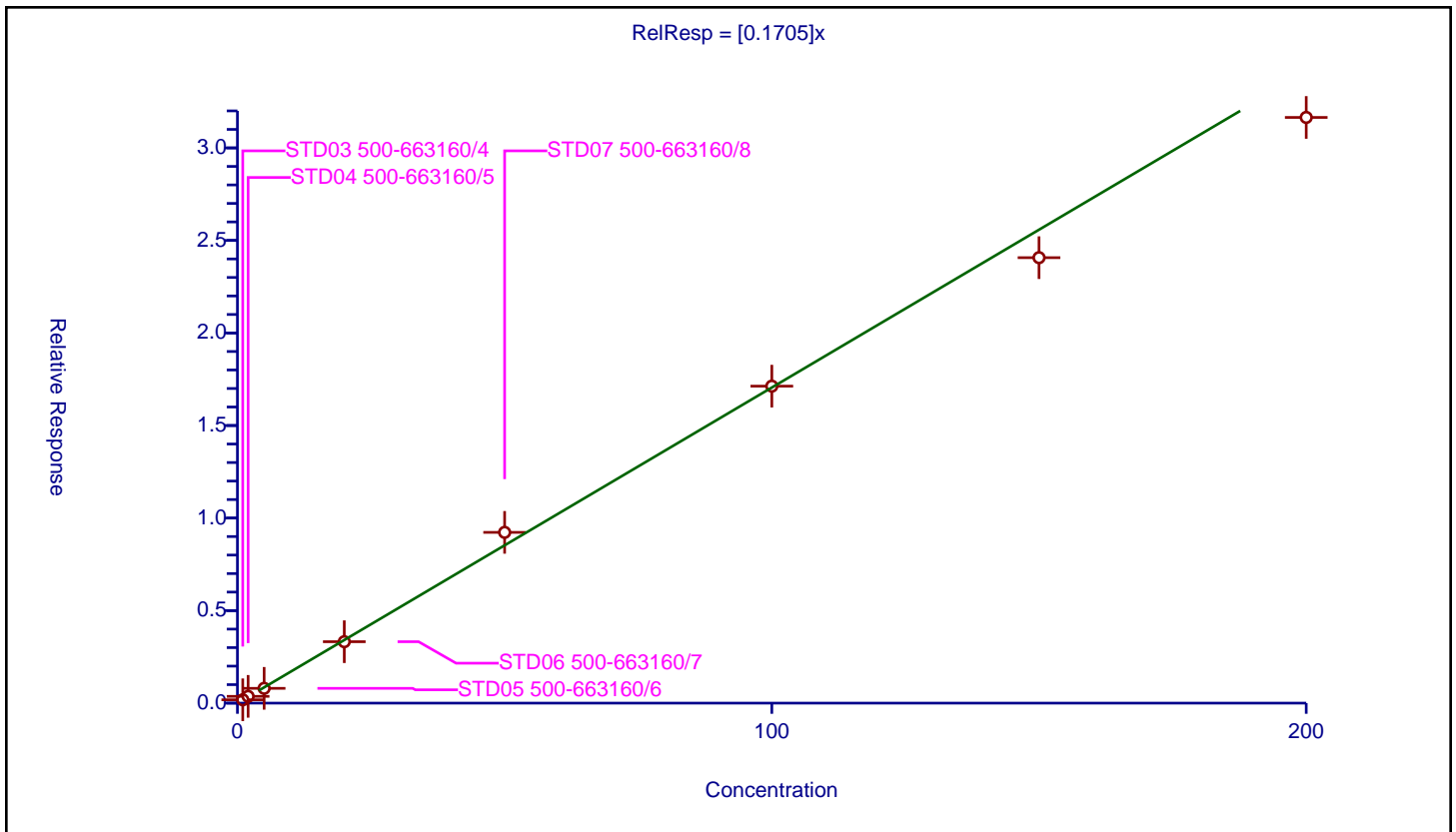
/ 3-Chloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1705

Error Coefficients	
Standard Error:	285000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.180896	50.0	598685.0	0.180896	Y
2	STD04 500-663160/5	2.0	0.365721	50.0	616590.0	0.182861	Y
3	STD05 500-663160/6	5.0	0.799823	50.0	621950.0	0.159965	Y
4	STD06 500-663160/7	20.0	3.319625	50.0	654607.0	0.165981	Y
5	STD07 500-663160/8	50.0	9.226487	50.0	695308.0	0.18453	Y
6	STD08 500-663160/9	100.0	17.127226	50.0	770078.0	0.171272	Y
7	STD09 500-663160/10	150.0	24.069845	50.0	832388.0	0.160466	Y
8	STD010 500-663160/11	200.0	31.646402	50.0	894751.0	0.158232	Y



Calibration

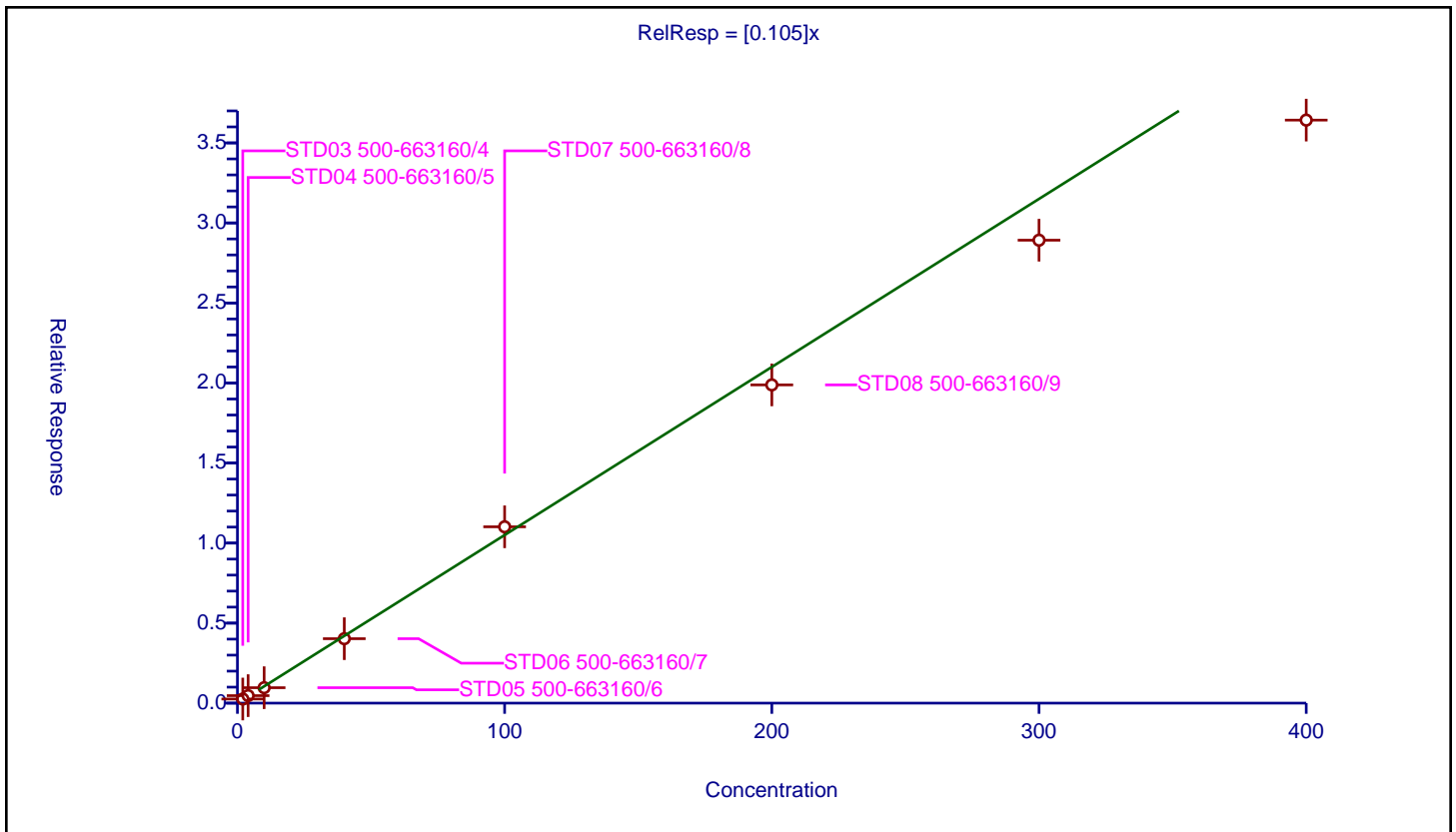
/ Methyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.105

Error Coefficients	
Standard Error:	333000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	2.0	0.257564	50.0	598685.0	0.128782	Y
2	STD04 500-663160/5	4.0	0.468464	50.0	616590.0	0.117116	Y
3	STD05 500-663160/6	10.0	0.964306	50.0	621950.0	0.096431	Y
4	STD06 500-663160/7	40.0	4.025927	50.0	654607.0	0.100648	Y
5	STD07 500-663160/8	100.0	11.016629	50.0	695308.0	0.110166	Y
6	STD08 500-663160/9	200.0	19.881882	50.0	770078.0	0.099409	Y
7	STD09 500-663160/10	300.0	28.92239	50.0	832388.0	0.096408	Y
8	STD010 500-663160/11	400.0	36.424156	50.0	894751.0	0.09106	Y



Calibration

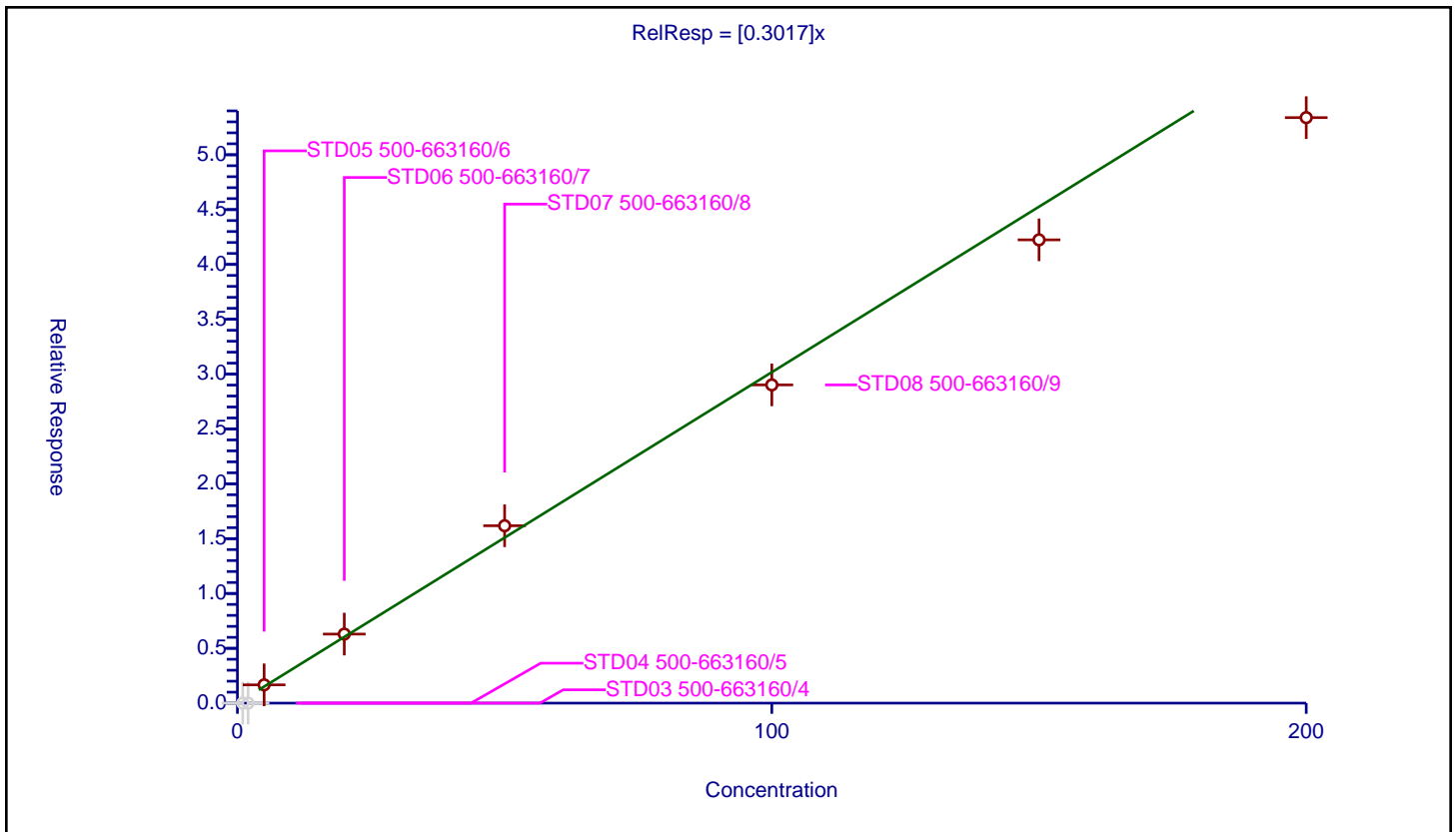
/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3017

Error Coefficients	
Standard Error:	577000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	2.0	0.0	50.0	616590.0	0.0	N
3	STD05 500-663160/6	5.0	1.667176	50.0	621950.0	0.333435	Y
4	STD06 500-663160/7	20.0	6.296373	50.0	654607.0	0.314819	Y
5	STD07 500-663160/8	50.0	16.174055	50.0	695308.0	0.323481	Y
6	STD08 500-663160/9	100.0	29.016671	50.0	770078.0	0.290167	Y
7	STD09 500-663160/10	150.0	42.240758	50.0	832388.0	0.281605	Y
8	STD010 500-663160/11	200.0	53.384908	50.0	894751.0	0.266925	Y



Calibration

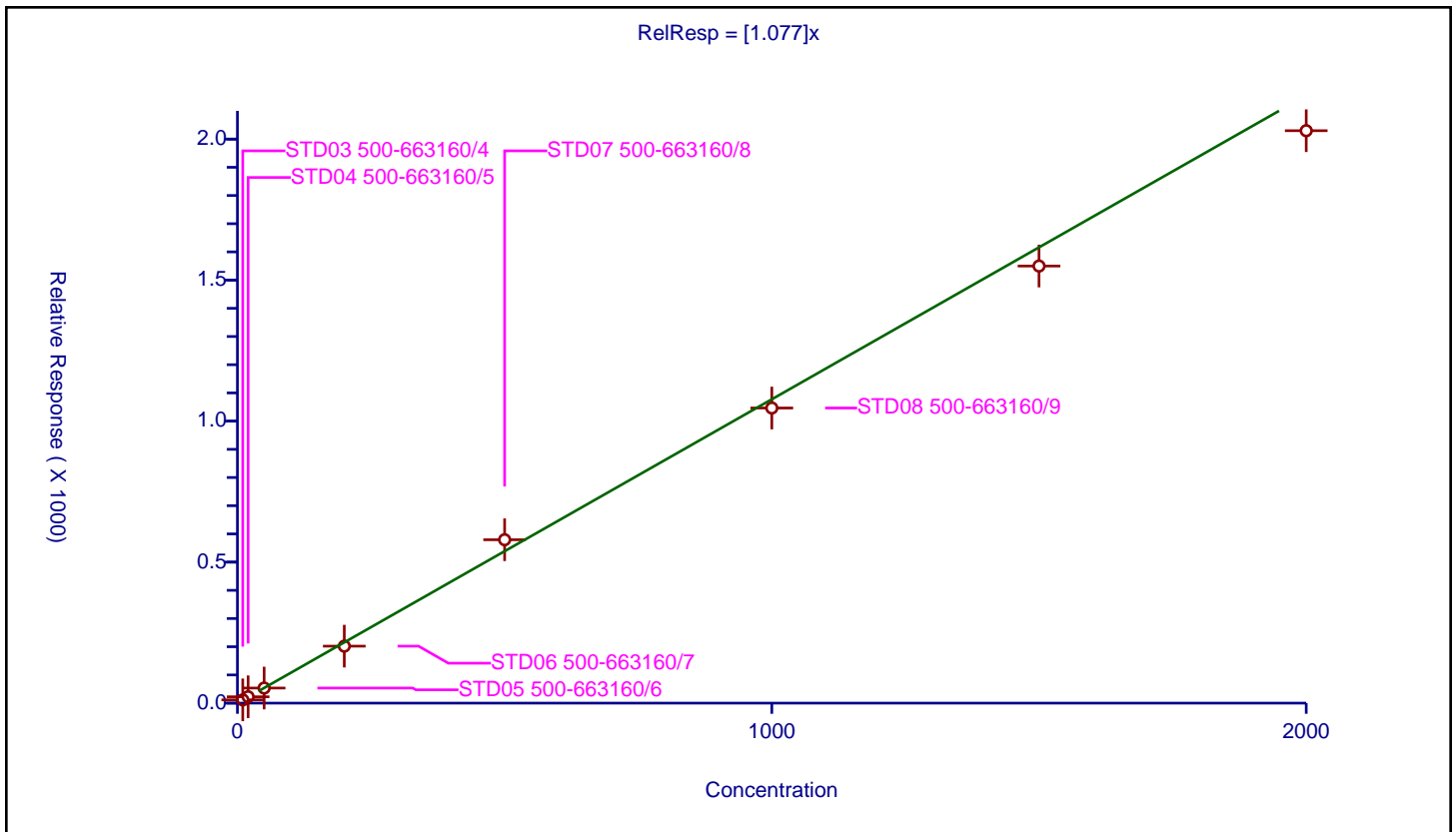
/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.077

Error Coefficients	
Standard Error:	315000
Relative Standard Error:	5.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	10.0	11.586351	1000.0	235881.0	1.158635	Y
2	STD04 500-663160/5	20.0	22.542142	1000.0	215818.0	1.127107	Y
3	STD05 500-663160/6	50.0	53.486699	1000.0	205696.0	1.069734	Y
4	STD06 500-663160/7	200.0	202.076303	1000.0	240909.0	1.010382	Y
5	STD07 500-663160/8	500.0	579.349342	1000.0	238036.0	1.158699	Y
6	STD08 500-663160/9	1000.0	1046.403926	1000.0	260840.0	1.046404	Y
7	STD09 500-663160/10	1500.0	1549.859793	1000.0	300984.0	1.03324	Y
8	STD010 500-663160/11	2000.0	2029.726454	1000.0	305250.0	1.014863	Y



Calibration

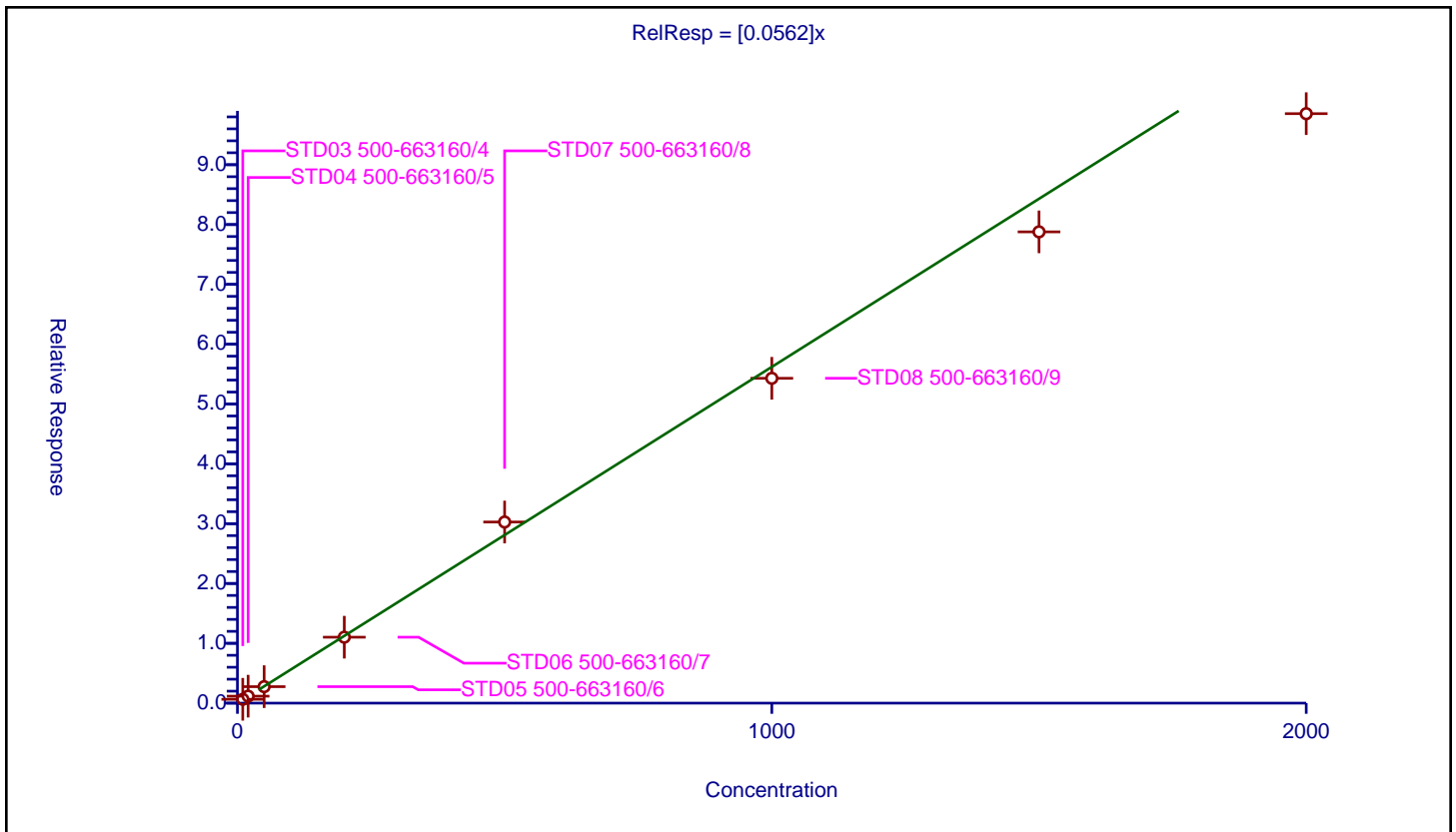
/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0562

Error Coefficients	
Standard Error:	905000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	10.0	0.645415	50.0	598685.0	0.064541	Y
2	STD04 500-663160/5	20.0	1.16528	50.0	616590.0	0.058264	Y
3	STD05 500-663160/6	50.0	2.75416	50.0	621950.0	0.055083	Y
4	STD06 500-663160/7	200.0	11.020658	50.0	654607.0	0.055103	Y
5	STD07 500-663160/8	500.0	30.278308	50.0	695308.0	0.060557	Y
6	STD08 500-663160/9	1000.0	54.301123	50.0	770078.0	0.054301	Y
7	STD09 500-663160/10	1500.0	78.779908	50.0	832388.0	0.05252	Y
8	STD010 500-663160/11	2000.0	98.535235	50.0	894751.0	0.049268	Y



Calibration

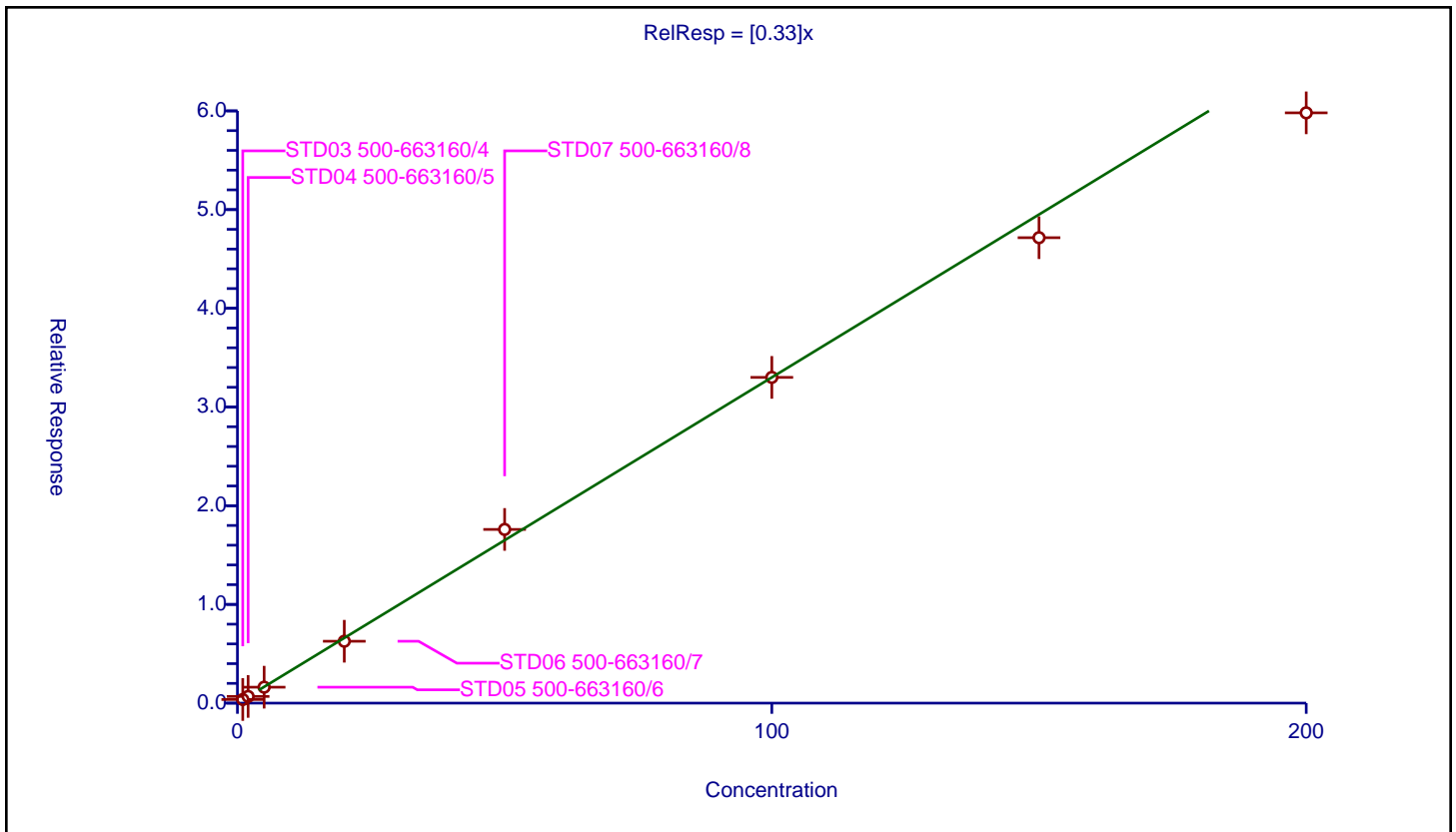
/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.33

Error Coefficients	
Standard Error:	546000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.368892	50.0	598685.0	0.368892	Y
2	STD04 500-663160/5	2.0	0.679057	50.0	616590.0	0.339529	Y
3	STD05 500-663160/6	5.0	1.614278	50.0	621950.0	0.322856	Y
4	STD06 500-663160/7	20.0	6.270556	50.0	654607.0	0.313528	Y
5	STD07 500-663160/8	50.0	17.596015	50.0	695308.0	0.35192	Y
6	STD08 500-663160/9	100.0	33.001982	50.0	770078.0	0.33002	Y
7	STD09 500-663160/10	150.0	47.15241	50.0	832388.0	0.314349	Y
8	STD010 500-663160/11	200.0	59.803901	50.0	894751.0	0.29902	Y



Calibration

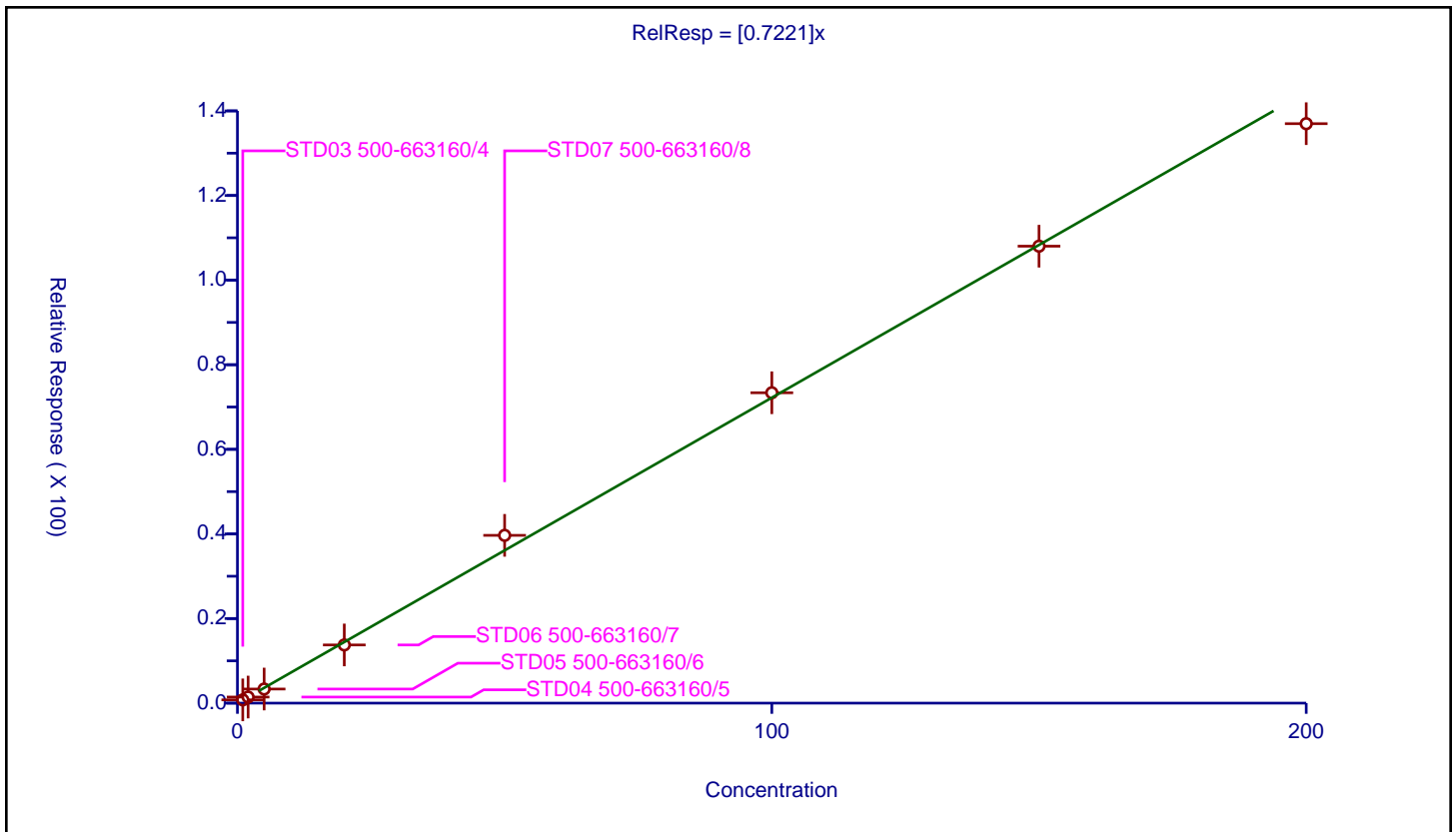
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7221

Error Coefficients	
Standard Error:	1250000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.771775	50.0	598685.0	0.771775	Y
2	STD04 500-663160/5	2.0	1.436206	50.0	616590.0	0.718103	Y
3	STD05 500-663160/6	5.0	3.334432	50.0	621950.0	0.666886	Y
4	STD06 500-663160/7	20.0	13.754741	50.0	654607.0	0.687737	Y
5	STD07 500-663160/8	50.0	39.661201	50.0	695308.0	0.793224	Y
6	STD08 500-663160/9	100.0	73.368931	50.0	770078.0	0.733689	Y
7	STD09 500-663160/10	150.0	108.017655	50.0	832388.0	0.720118	Y
8	STD010 500-663160/11	200.0	136.977941	50.0	894751.0	0.68489	Y



Calibration

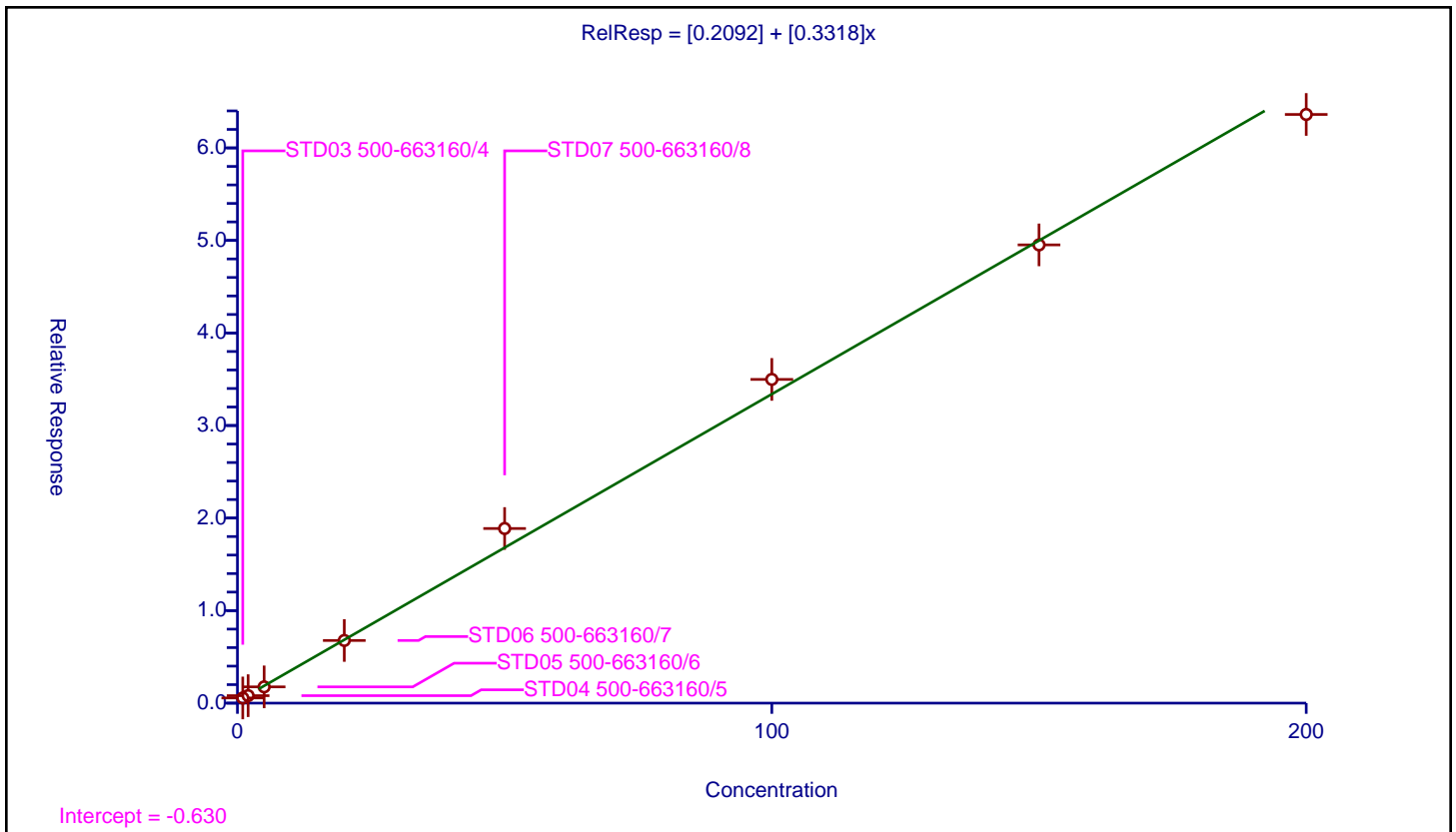
/ Hexane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2092
Slope:	0.3318

Error Coefficients	
Standard Error:	625000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.560478	50.0	598685.0	0.560478	Y
2	STD04 500-663160/5	2.0	0.807668	50.0	616590.0	0.403834	Y
3	STD05 500-663160/6	5.0	1.756009	50.0	621950.0	0.351202	Y
4	STD06 500-663160/7	20.0	6.771009	50.0	654607.0	0.33855	Y
5	STD07 500-663160/8	50.0	18.87063	50.0	695308.0	0.377413	Y
6	STD08 500-663160/9	100.0	34.98282	50.0	770078.0	0.349828	Y
7	STD09 500-663160/10	150.0	49.521377	50.0	832388.0	0.330143	Y
8	STD010 500-663160/11	200.0	63.614458	50.0	894751.0	0.318072	Y



Calibration

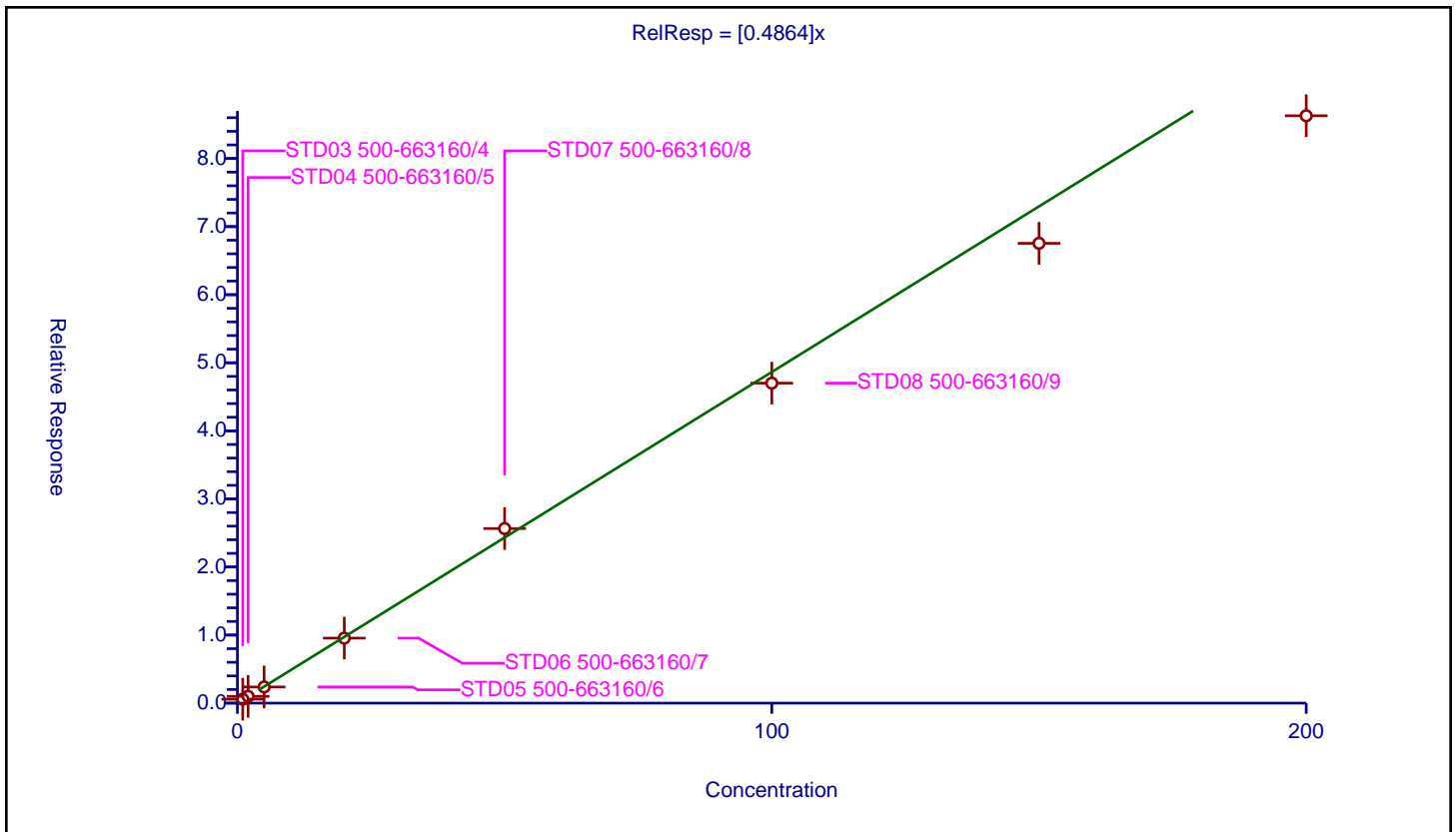
/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4864

Error Coefficients	
Standard Error:	785000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.576096	50.0	598685.0	0.576096	Y
2	STD04 500-663160/5	2.0	0.99507	50.0	616590.0	0.497535	Y
3	STD05 500-663160/6	5.0	2.378326	50.0	621950.0	0.475665	Y
4	STD06 500-663160/7	20.0	9.549165	50.0	654607.0	0.477458	Y
5	STD07 500-663160/8	50.0	25.649353	50.0	695308.0	0.512987	Y
6	STD08 500-663160/9	100.0	47.006083	50.0	770078.0	0.470061	Y
7	STD09 500-663160/10	150.0	67.548247	50.0	832388.0	0.450322	Y
8	STD010 500-663160/11	200.0	86.285235	50.0	894751.0	0.431426	Y



Calibration

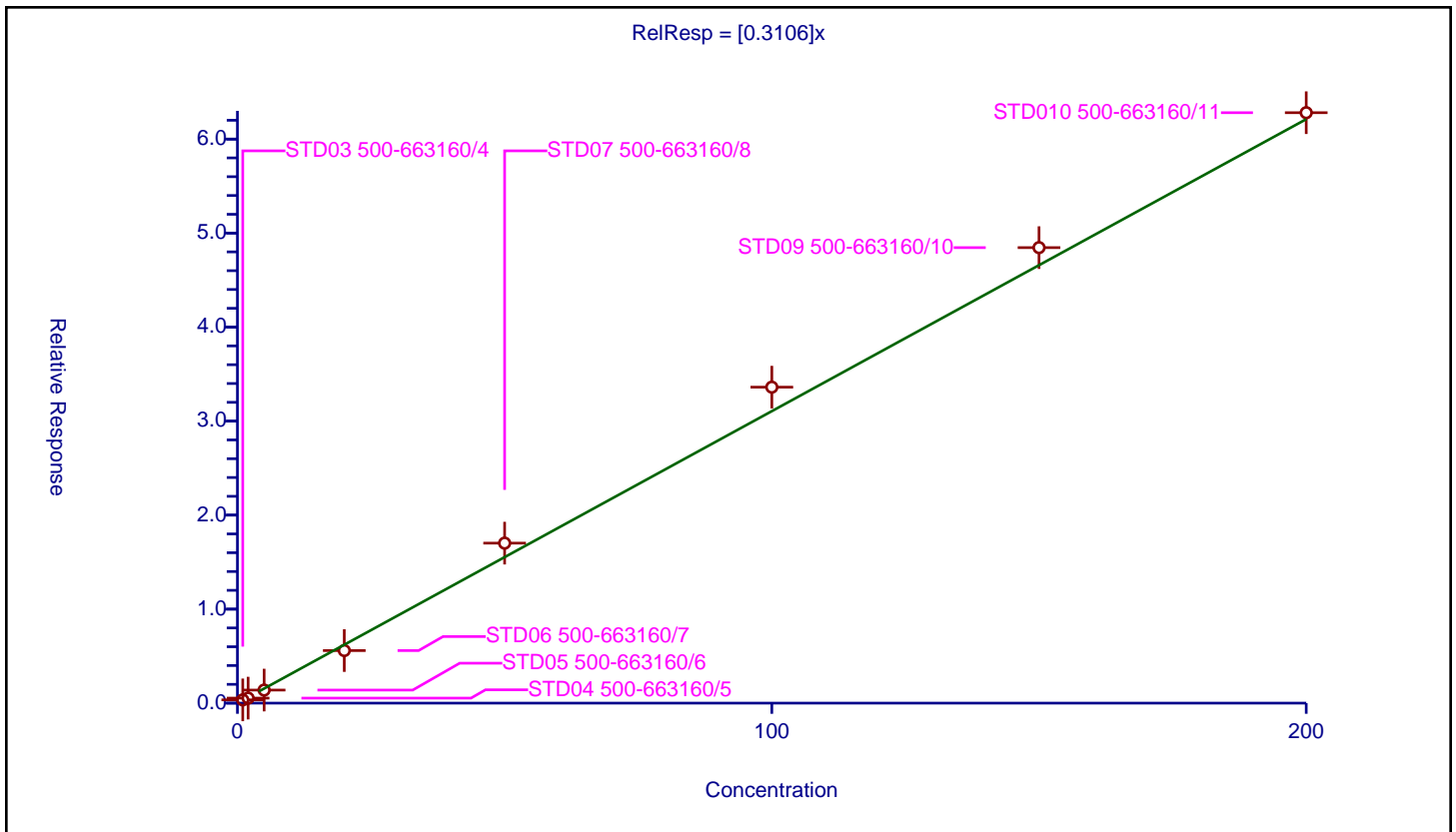
/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3106

Error Coefficients	
Standard Error:	566000
Relative Standard Error:	10.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.346175	50.0	598685.0	0.346175	Y
2	STD04 500-663160/5	2.0	0.535202	50.0	616590.0	0.267601	Y
3	STD05 500-663160/6	5.0	1.388456	50.0	621950.0	0.277691	Y
4	STD06 500-663160/7	20.0	5.591905	50.0	654607.0	0.279595	Y
5	STD07 500-663160/8	50.0	17.01922	50.0	695308.0	0.340384	Y
6	STD08 500-663160/9	100.0	33.610232	50.0	770078.0	0.336102	Y
7	STD09 500-663160/10	150.0	48.454507	50.0	832388.0	0.32303	Y
8	STD010 500-663160/11	200.0	62.807306	50.0	894751.0	0.314037	Y



Calibration

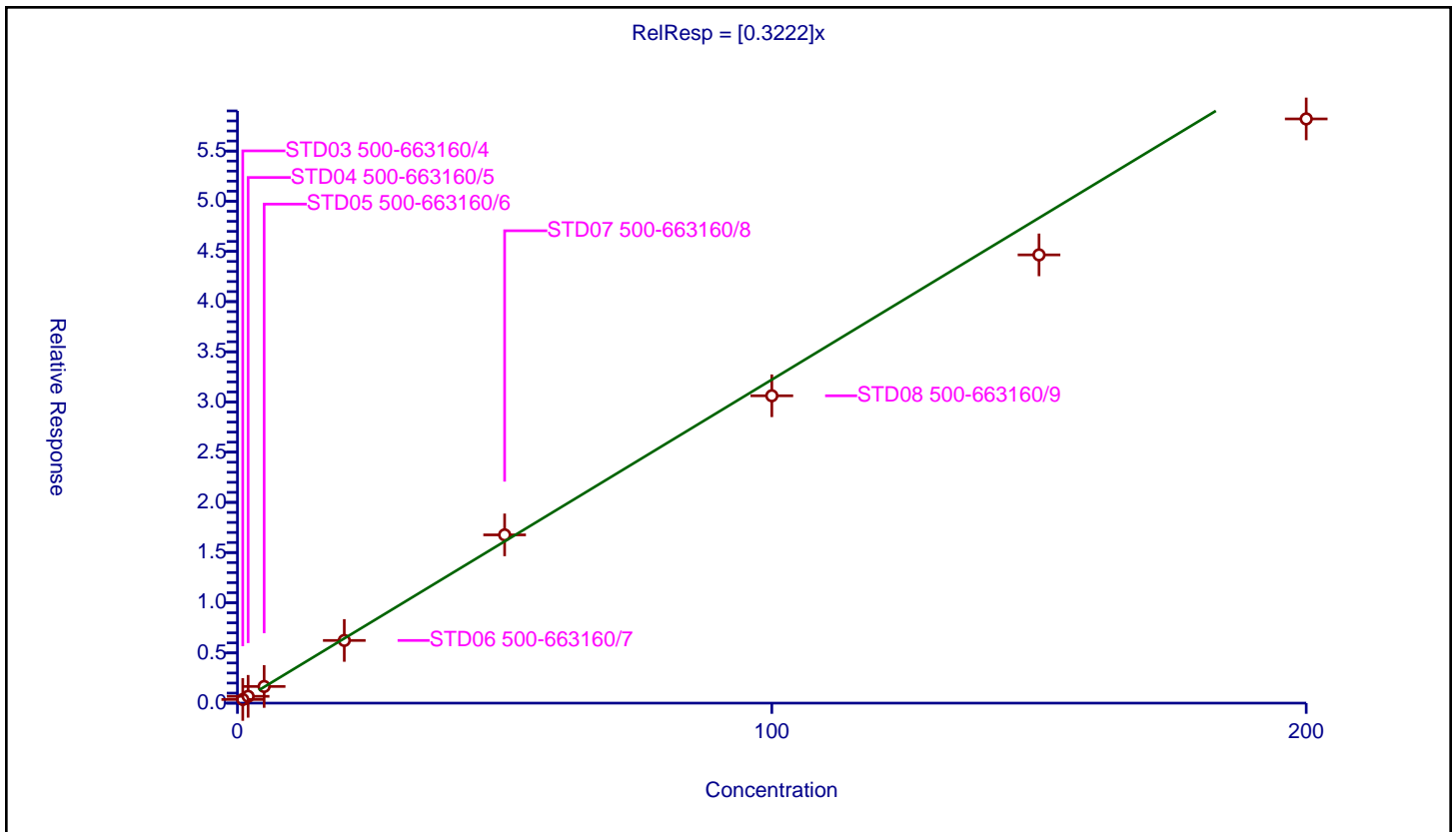
/ cis-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3222

Error Coefficients	
Standard Error:	524000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.364215	50.0	598685.0	0.364215	Y
2	STD04 500-663160/5	2.0	0.678895	50.0	616590.0	0.339448	Y
3	STD05 500-663160/6	5.0	1.659619	50.0	621950.0	0.331924	Y
4	STD06 500-663160/7	20.0	6.244205	50.0	654607.0	0.31221	Y
5	STD07 500-663160/8	50.0	16.761852	50.0	695308.0	0.335237	Y
6	STD08 500-663160/9	100.0	30.620599	50.0	770078.0	0.306206	Y
7	STD09 500-663160/10	150.0	44.655317	50.0	832388.0	0.297702	Y
8	STD010 500-663160/11	200.0	58.202058	50.0	894751.0	0.29101	Y



Calibration

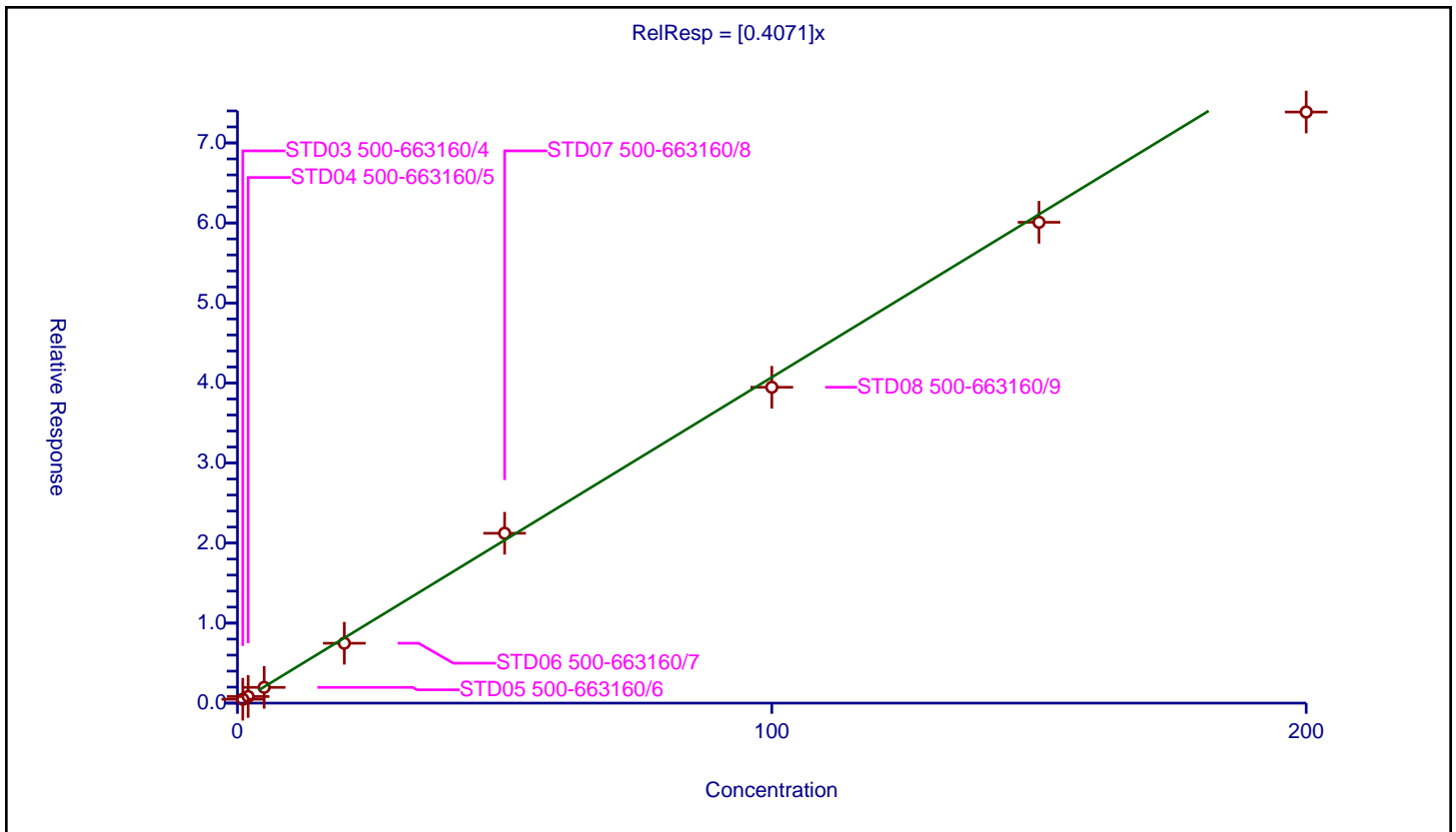
/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4071

Error Coefficients	
Standard Error:	678000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.4869	50.0	598685.0	0.4869	Y
2	STD04 500-663160/5	2.0	0.826643	50.0	616590.0	0.413322	Y
3	STD05 500-663160/6	5.0	1.968808	50.0	621950.0	0.393762	Y
4	STD06 500-663160/7	20.0	7.484109	50.0	654607.0	0.374205	Y
5	STD07 500-663160/8	50.0	21.222969	50.0	695308.0	0.424459	Y
6	STD08 500-663160/9	100.0	39.465288	50.0	770078.0	0.394653	Y
7	STD09 500-663160/10	150.0	60.083339	50.0	832388.0	0.400556	Y
8	STD010 500-663160/11	200.0	73.860437	50.0	894751.0	0.369302	Y



Calibration

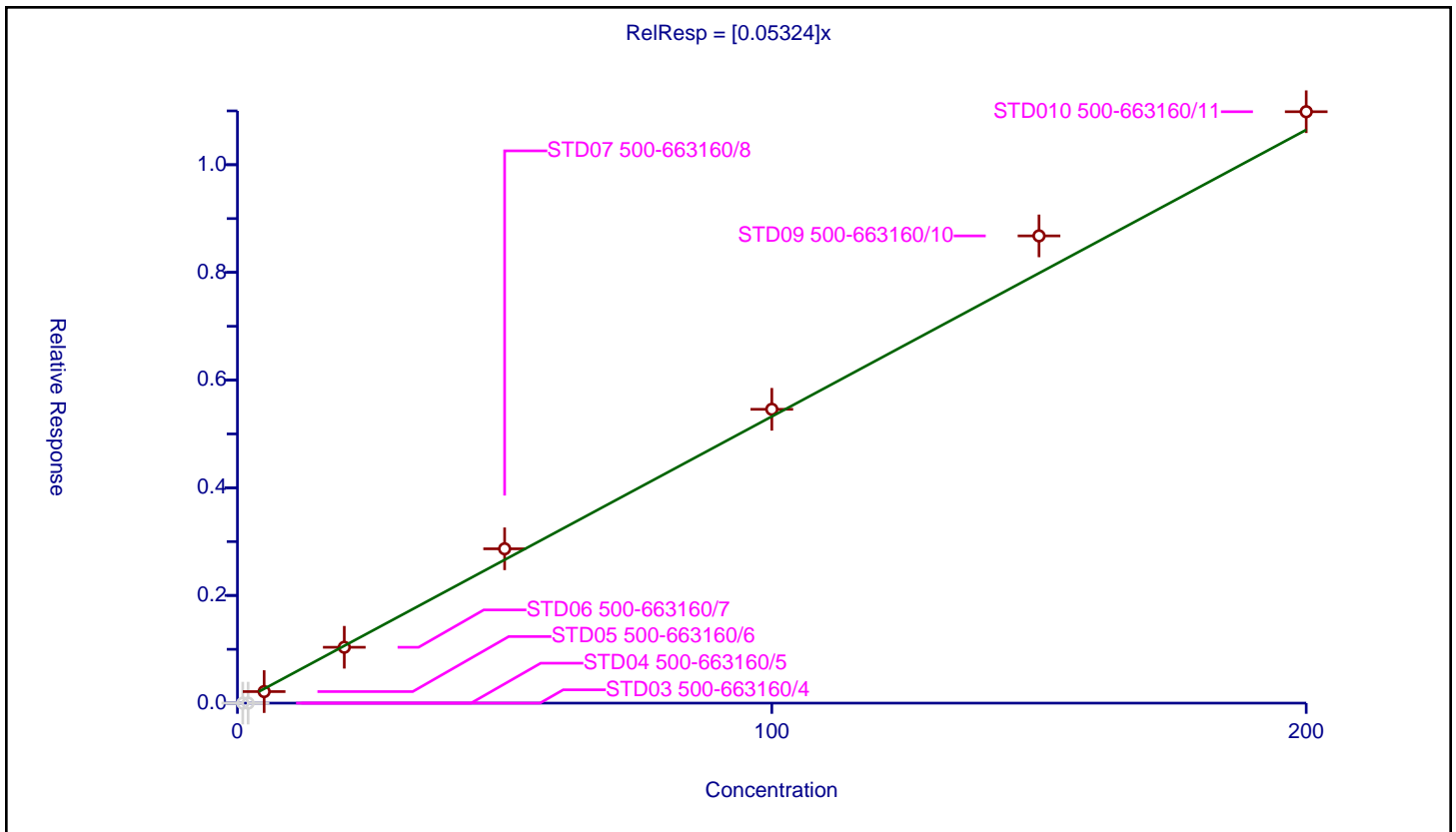
/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05324

Error Coefficients	
Standard Error:	117000
Relative Standard Error:	10.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	2.0	0.0	50.0	616590.0	0.0	N
3	STD05 500-663160/6	5.0	0.214326	50.0	621950.0	0.042865	Y
4	STD06 500-663160/7	20.0	1.037645	50.0	654607.0	0.051882	Y
5	STD07 500-663160/8	50.0	2.866643	50.0	695308.0	0.057333	Y
6	STD08 500-663160/9	100.0	5.457694	50.0	770078.0	0.054577	Y
7	STD09 500-663160/10	150.0	8.678285	50.0	832388.0	0.057855	Y
8	STD010 500-663160/11	200.0	10.984844	50.0	894751.0	0.054924	Y



Calibration

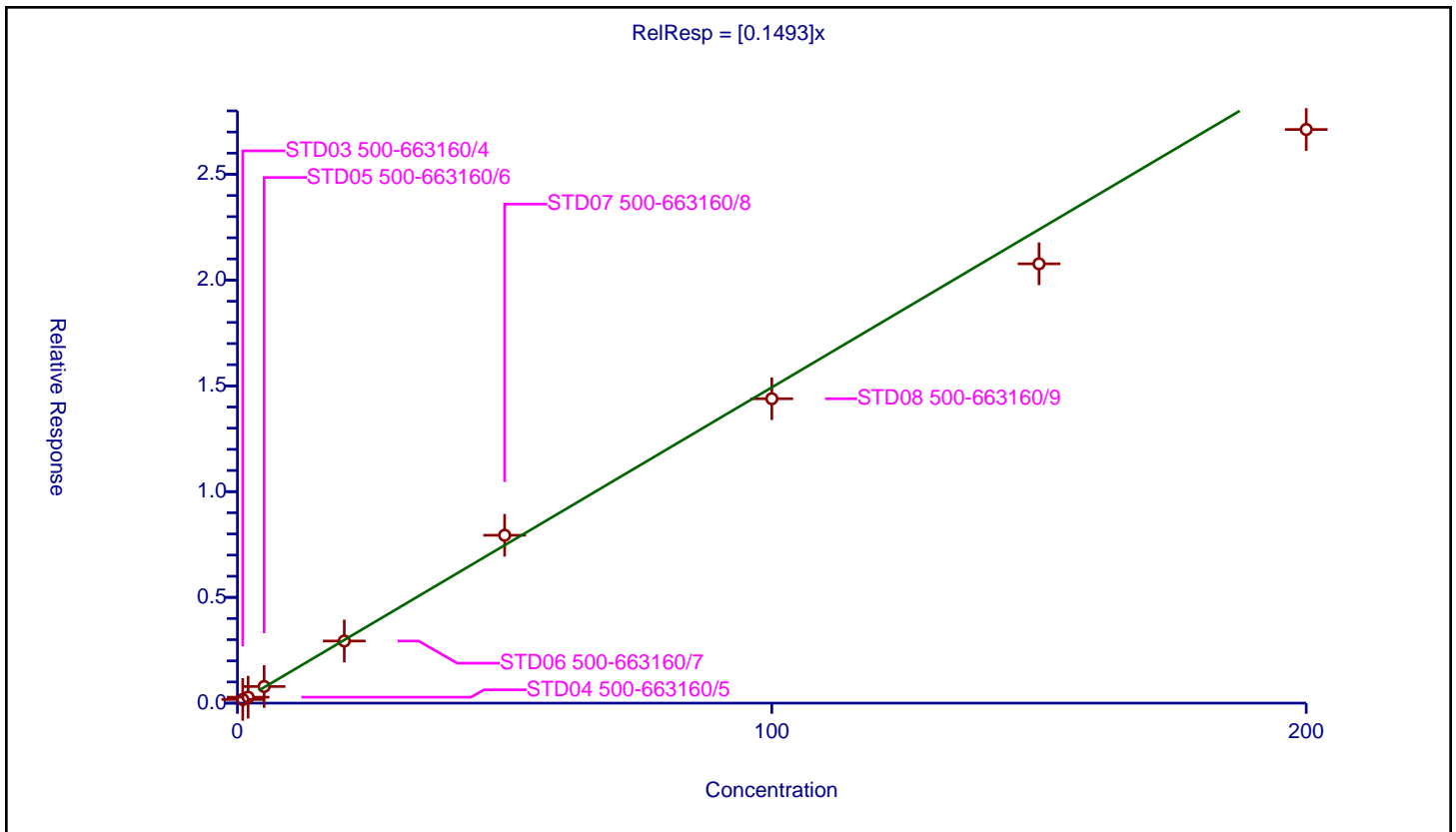
/ Chlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1493

Error Coefficients	
Standard Error:	244000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.172879	50.0	598685.0	0.172879	Y
2	STD04 500-663160/5	2.0	0.281224	50.0	616590.0	0.140612	Y
3	STD05 500-663160/6	5.0	0.786237	50.0	621950.0	0.157247	Y
4	STD06 500-663160/7	20.0	2.936571	50.0	654607.0	0.146829	Y
5	STD07 500-663160/8	50.0	7.936699	50.0	695308.0	0.158734	Y
6	STD08 500-663160/9	100.0	14.392308	50.0	770078.0	0.143923	Y
7	STD09 500-663160/10	150.0	20.769881	50.0	832388.0	0.138466	Y
8	STD010 500-663160/11	200.0	27.120115	50.0	894751.0	0.135601	Y



Calibration

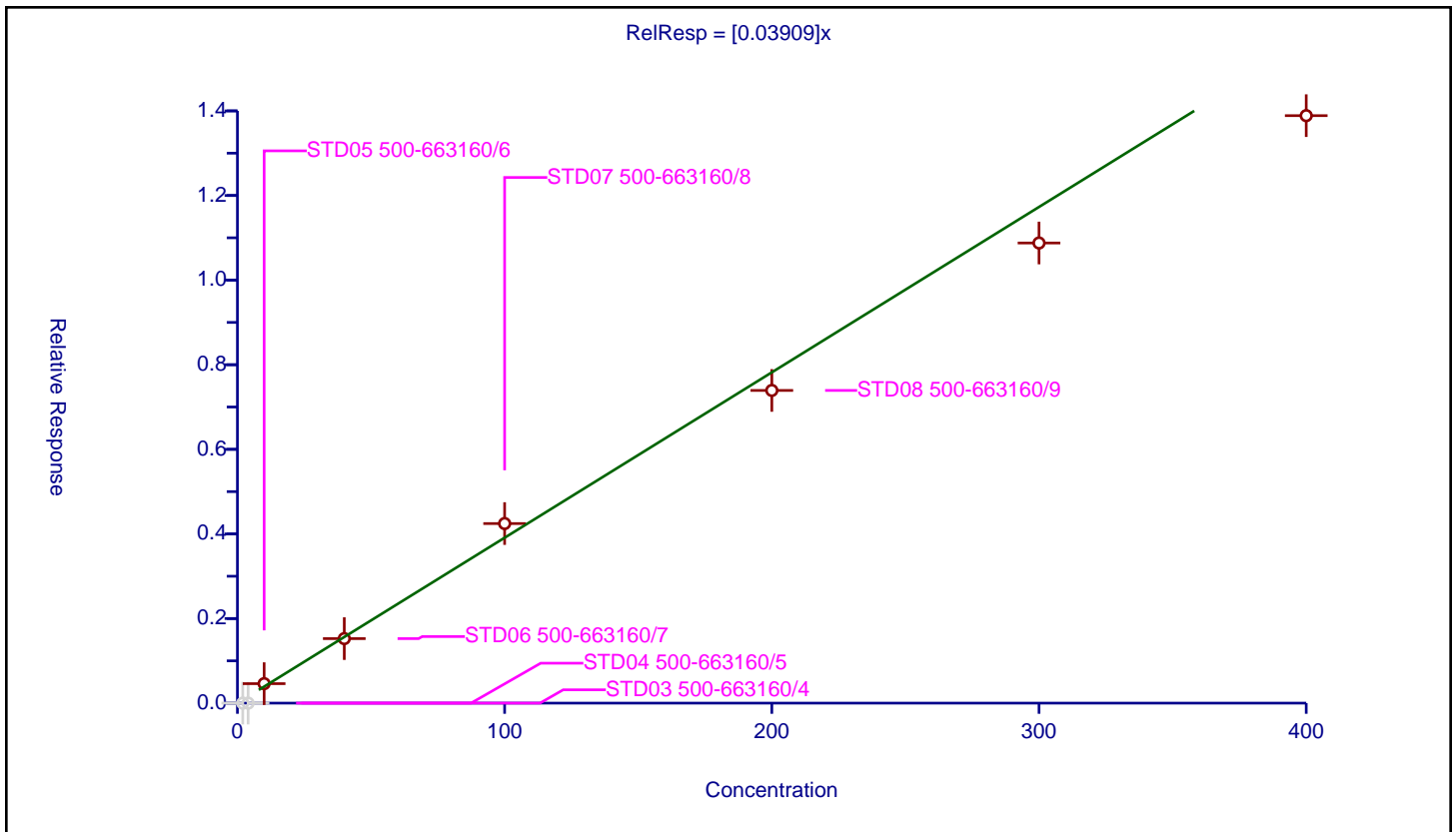
/ Tetrahydrofuran

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03909

Error Coefficients	
Standard Error:	149000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	2.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	4.0	0.0	50.0	616590.0	0.0	N
3	STD05 500-663160/6	10.0	0.460648	50.0	621950.0	0.046065	Y
4	STD06 500-663160/7	40.0	1.524884	50.0	654607.0	0.038122	Y
5	STD07 500-663160/8	100.0	4.245097	50.0	695308.0	0.042451	Y
6	STD08 500-663160/9	200.0	7.391459	50.0	770078.0	0.036957	Y
7	STD09 500-663160/10	300.0	10.876959	50.0	832388.0	0.036257	Y
8	STD010 500-663160/11	400.0	13.887271	50.0	894751.0	0.034718	Y



Calibration

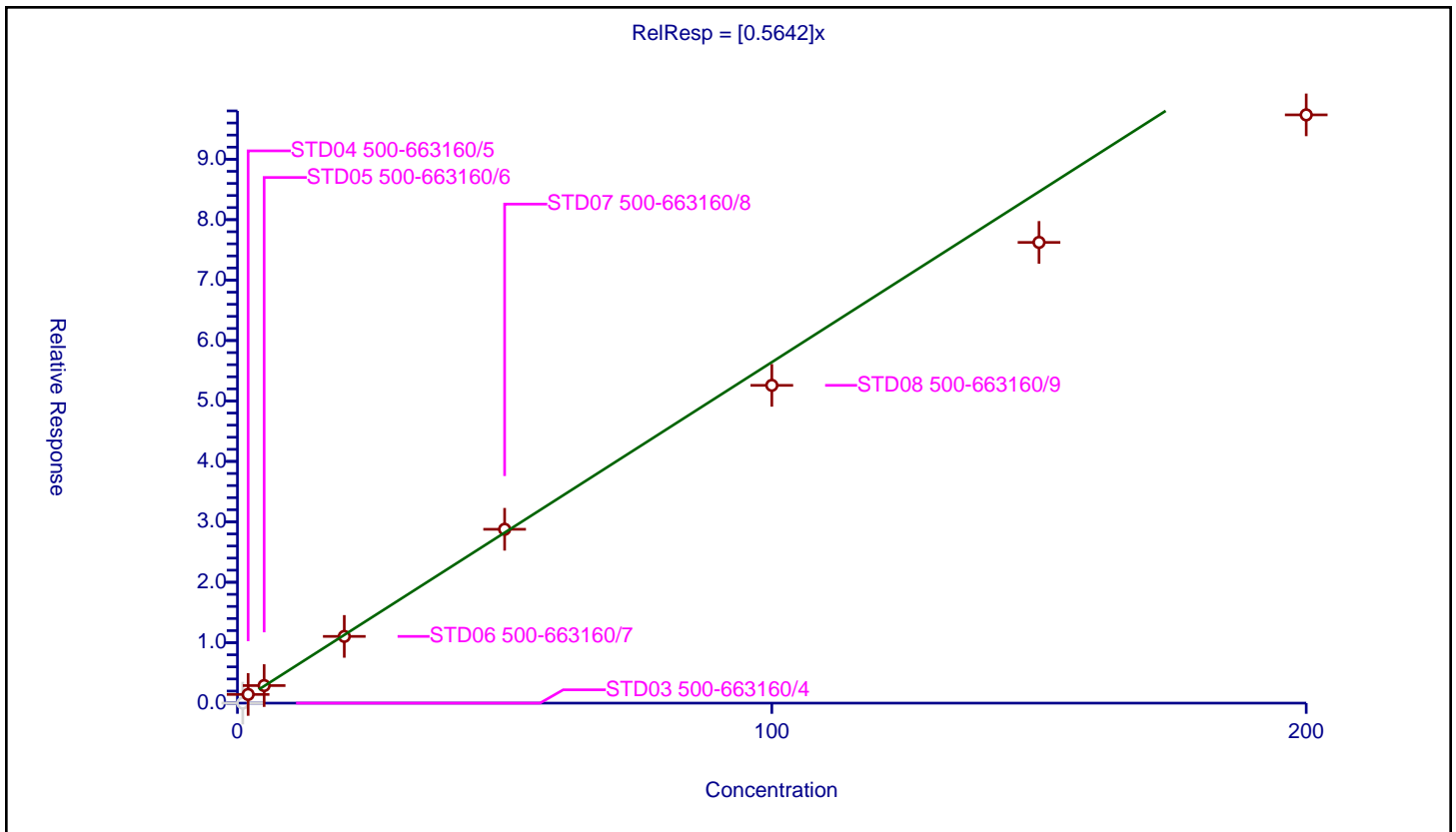
/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5642

Error Coefficients	
Standard Error:	956000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	598685.0	0.0	N
2	STD04 500-663160/5	2.0	1.438557	50.0	616590.0	0.719279	Y
3	STD05 500-663160/6	5.0	2.908594	50.0	621950.0	0.581719	Y
4	STD06 500-663160/7	20.0	11.041663	50.0	654607.0	0.552083	Y
5	STD07 500-663160/8	50.0	28.766245	50.0	695308.0	0.575325	Y
6	STD08 500-663160/9	100.0	52.584219	50.0	770078.0	0.525842	Y
7	STD09 500-663160/10	150.0	76.238665	50.0	832388.0	0.508258	Y
8	STD010 500-663160/11	200.0	97.342948	50.0	894751.0	0.486715	Y



Calibration

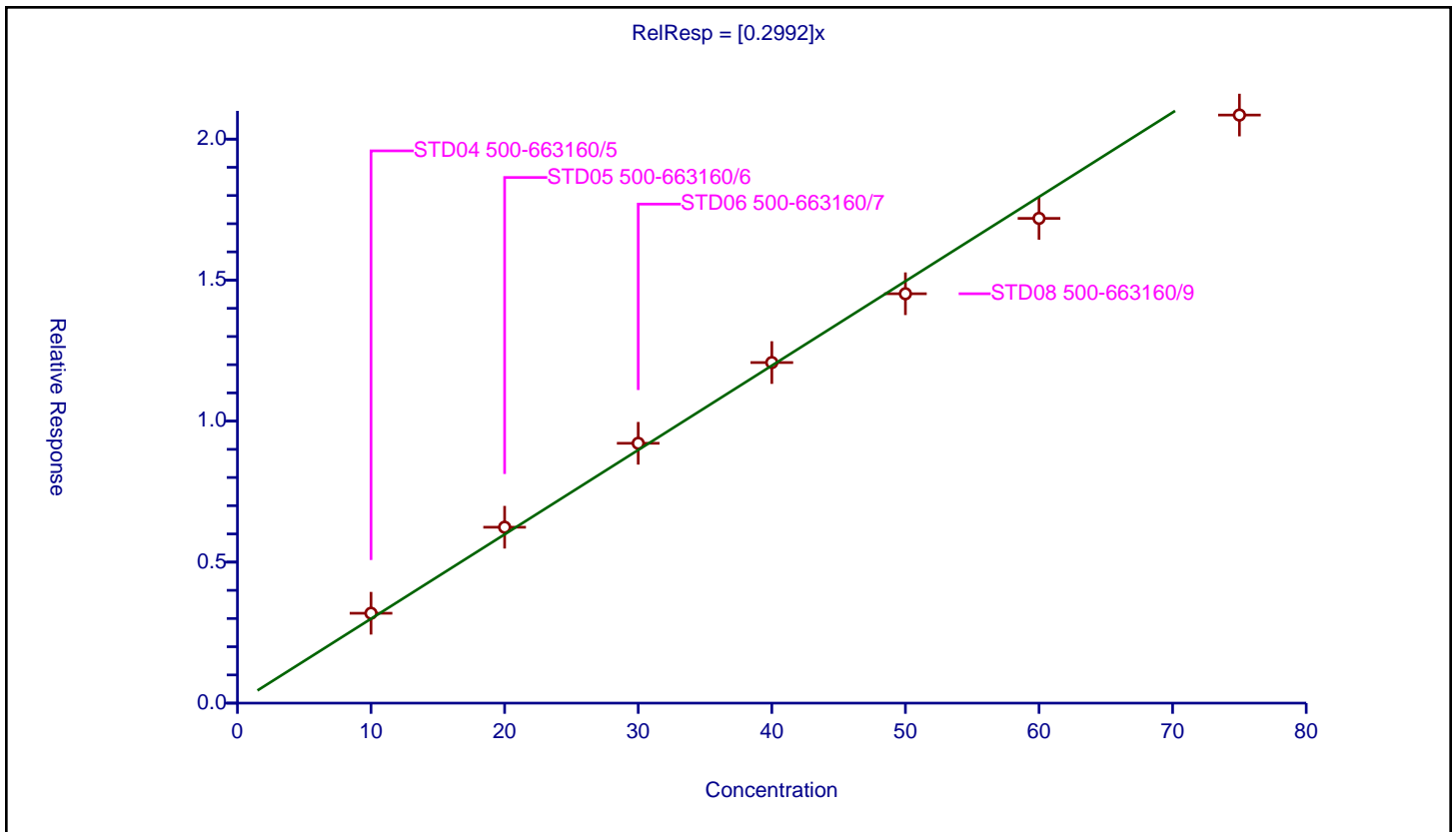
/ Dibromofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2992

Error Coefficients	
Standard Error:	231000
Relative Standard Error:	4.9
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-663160/5	10.0	3.186639	50.0	616590.0	0.318664	Y
2	STD05 500-663160/6	20.0	6.237559	50.0	621950.0	0.311878	Y
3	STD06 500-663160/7	30.0	9.213696	50.0	654607.0	0.307123	Y
4	STD07 500-663160/8	40.0	12.076087	50.0	695308.0	0.301902	Y
5	STD08 500-663160/9	50.0	14.516387	50.0	770078.0	0.290328	Y
6	STD09 500-663160/10	60.0	17.188859	50.0	832388.0	0.286481	Y
7	STD010 500-663160/11	75.0	20.852841	50.0	894751.0	0.278038	Y



Calibration

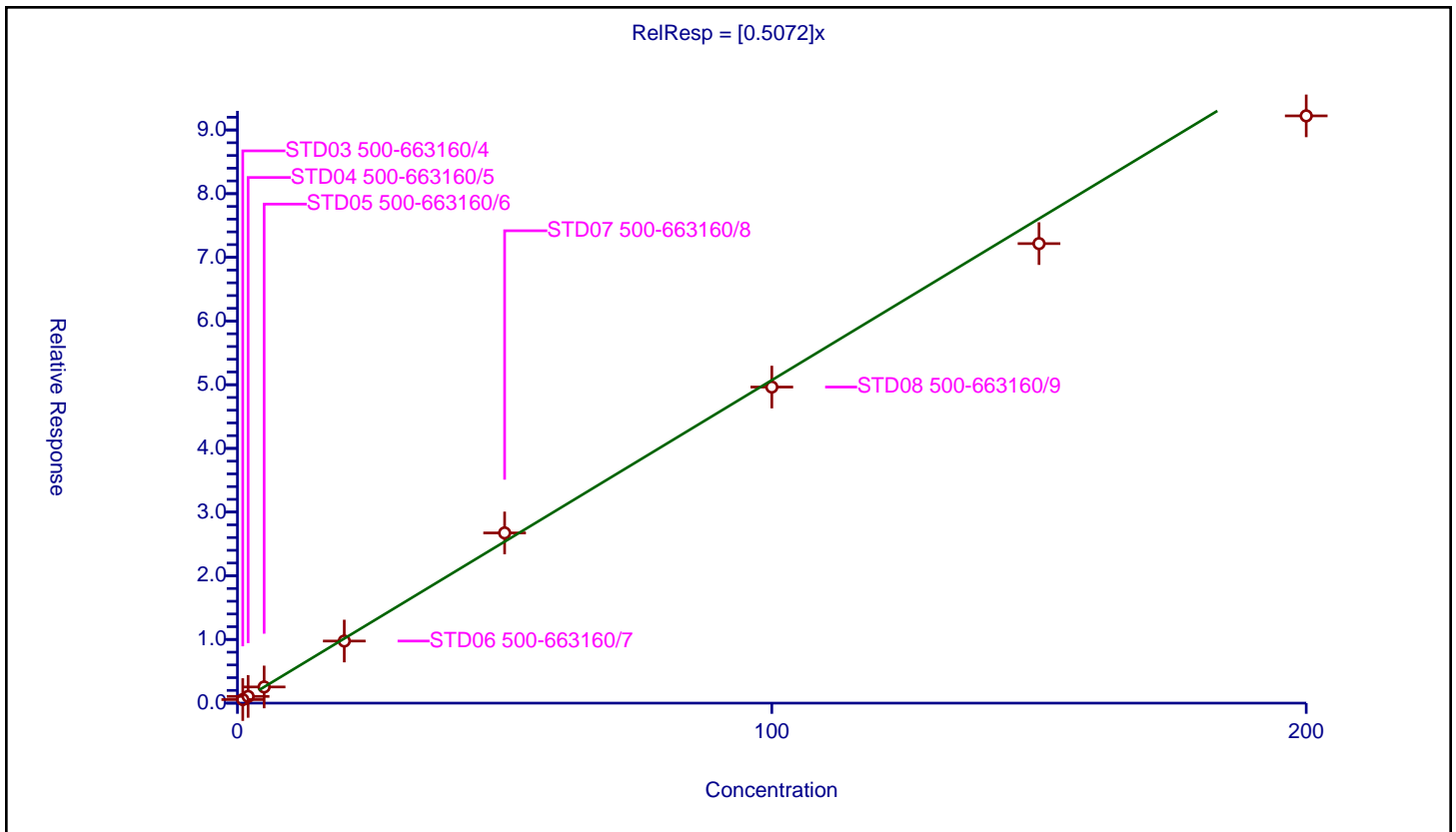
/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5072

Error Coefficients	
Standard Error:	837000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.560645	50.0	598685.0	0.560645	Y
2	STD04 500-663160/5	2.0	1.055807	50.0	616590.0	0.527903	Y
3	STD05 500-663160/6	5.0	2.541121	50.0	621950.0	0.508224	Y
4	STD06 500-663160/7	20.0	9.751271	50.0	654607.0	0.487564	Y
5	STD07 500-663160/8	50.0	26.725926	50.0	695308.0	0.534519	Y
6	STD08 500-663160/9	100.0	49.631985	50.0	770078.0	0.49632	Y
7	STD09 500-663160/10	150.0	72.1613	50.0	832388.0	0.481075	Y
8	STD010 500-663160/11	200.0	92.216941	50.0	894751.0	0.461085	Y



Calibration

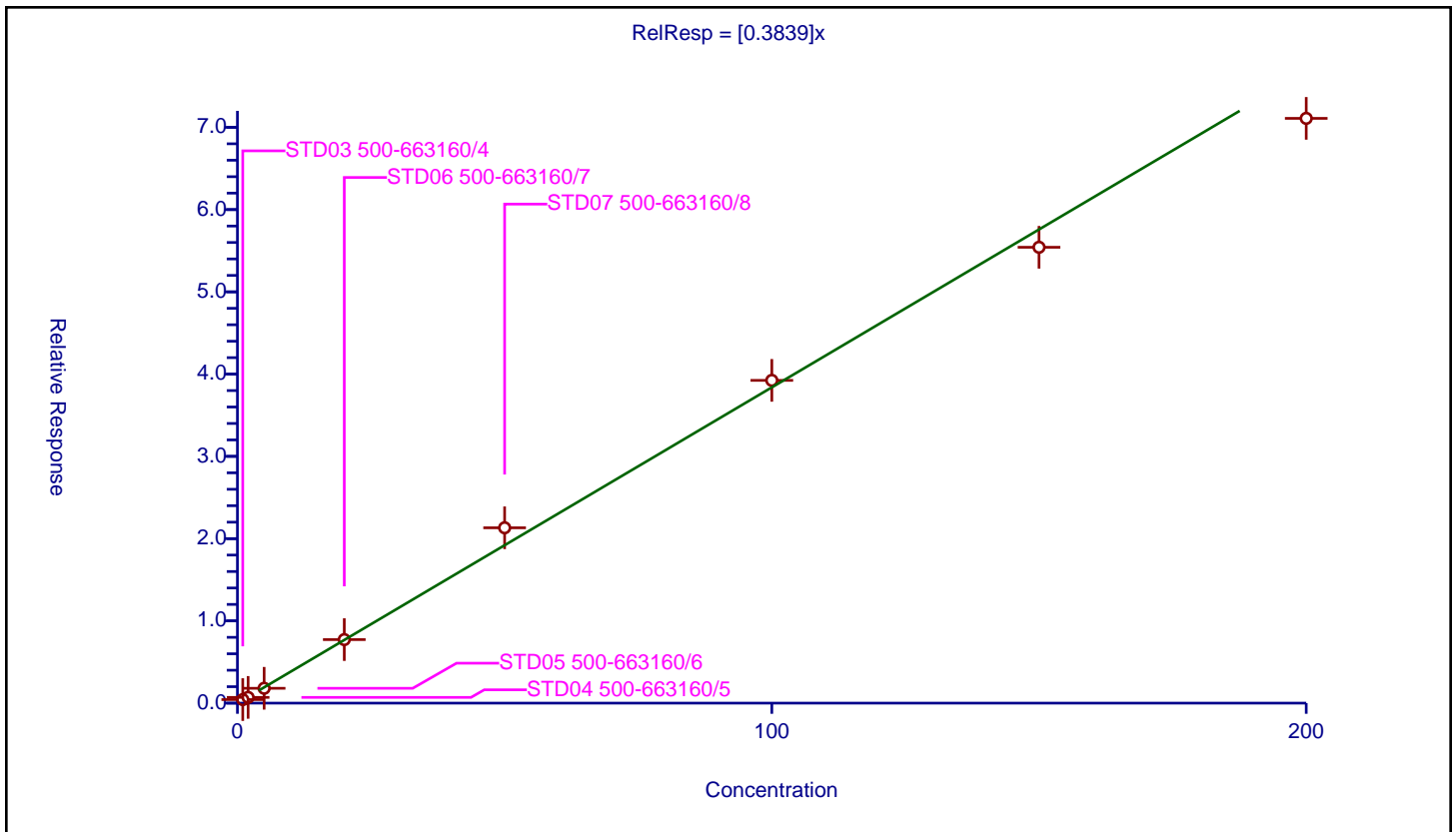
/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3839

Error Coefficients	
Standard Error:	647000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.431613	50.0	598685.0	0.431613	Y
2	STD04 500-663160/5	2.0	0.696816	50.0	616590.0	0.348408	Y
3	STD05 500-663160/6	5.0	1.806335	50.0	621950.0	0.361267	Y
4	STD06 500-663160/7	20.0	7.723336	50.0	654607.0	0.386167	Y
5	STD07 500-663160/8	50.0	21.318178	50.0	695308.0	0.426364	Y
6	STD08 500-663160/9	100.0	39.237584	50.0	770078.0	0.392376	Y
7	STD09 500-663160/10	150.0	55.419228	50.0	832388.0	0.369462	Y
8	STD010 500-663160/11	200.0	71.090113	50.0	894751.0	0.355451	Y



Calibration

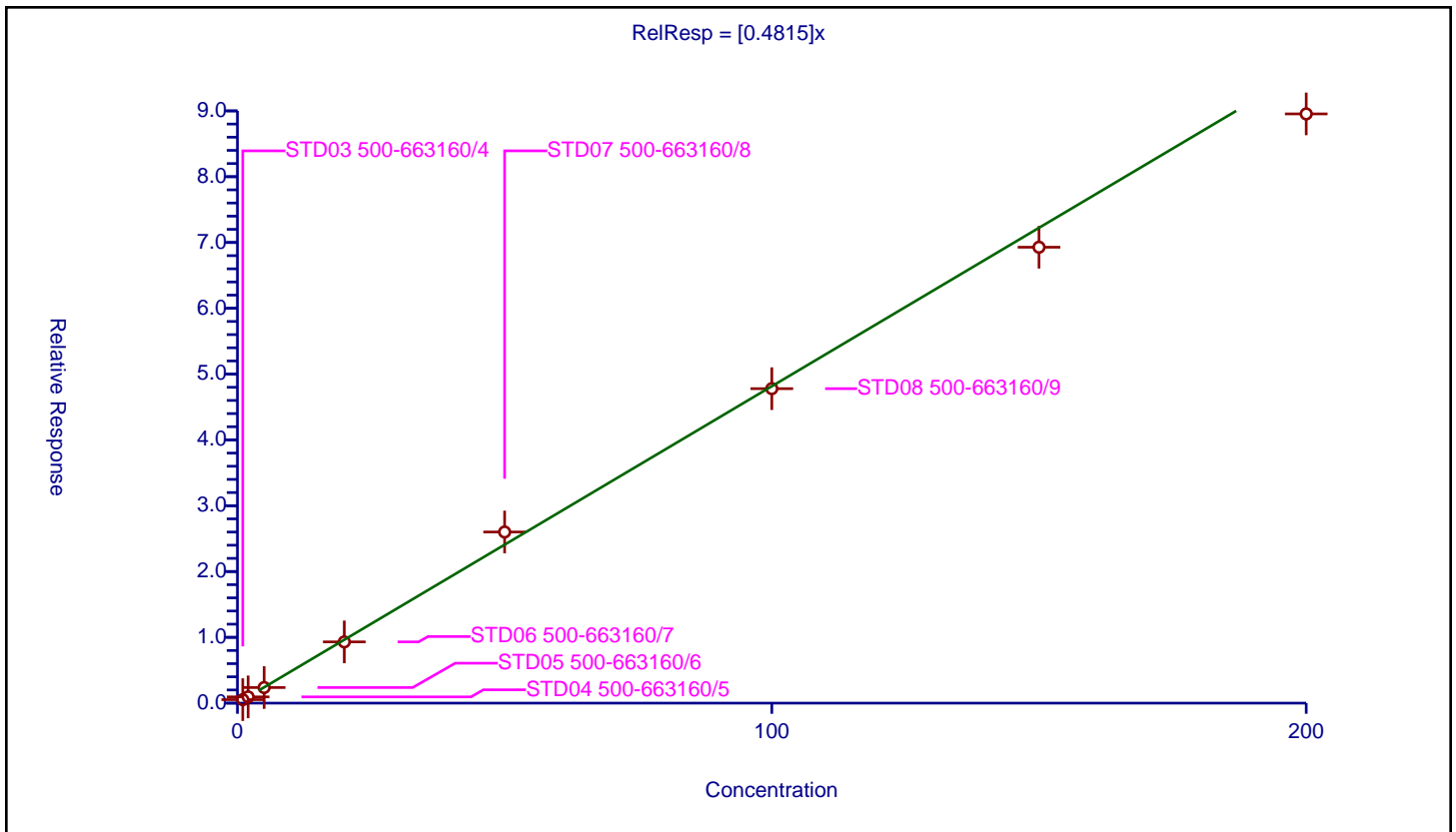
/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4815

Error Coefficients	
Standard Error:	809000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.530496	50.0	598685.0	0.530496	Y
2	STD04 500-663160/5	2.0	0.949902	50.0	616590.0	0.474951	Y
3	STD05 500-663160/6	5.0	2.369644	50.0	621950.0	0.473929	Y
4	STD06 500-663160/7	20.0	9.3065	50.0	654607.0	0.465325	Y
5	STD07 500-663160/8	50.0	26.005669	50.0	695308.0	0.520113	Y
6	STD08 500-663160/9	100.0	47.788471	50.0	770078.0	0.477885	Y
7	STD09 500-663160/10	150.0	69.282534	50.0	832388.0	0.461884	Y
8	STD010 500-663160/11	200.0	89.541448	50.0	894751.0	0.447707	Y



Calibration

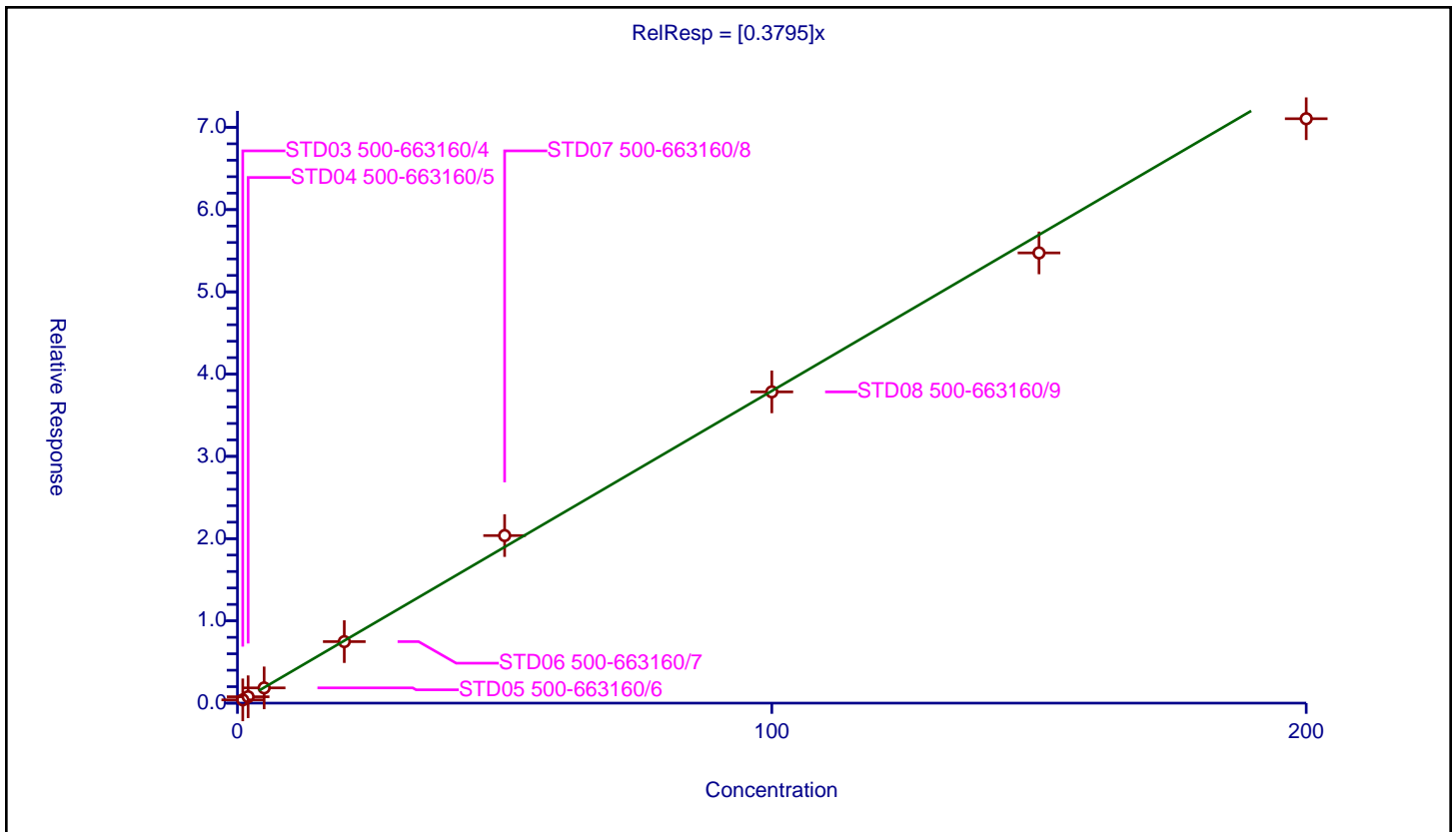
/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3795

Error Coefficients	
Standard Error:	641000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.398123	50.0	598685.0	0.398123	Y
2	STD04 500-663160/5	2.0	0.775556	50.0	616590.0	0.387778	Y
3	STD05 500-663160/6	5.0	1.852641	50.0	621950.0	0.370528	Y
4	STD06 500-663160/7	20.0	7.478533	50.0	654607.0	0.373927	Y
5	STD07 500-663160/8	50.0	20.370757	50.0	695308.0	0.407415	Y
6	STD08 500-663160/9	100.0	37.840777	50.0	770078.0	0.378408	Y
7	STD09 500-663160/10	150.0	54.73409	50.0	832388.0	0.364894	Y
8	STD010 500-663160/11	200.0	71.048929	50.0	894751.0	0.355245	Y



Calibration

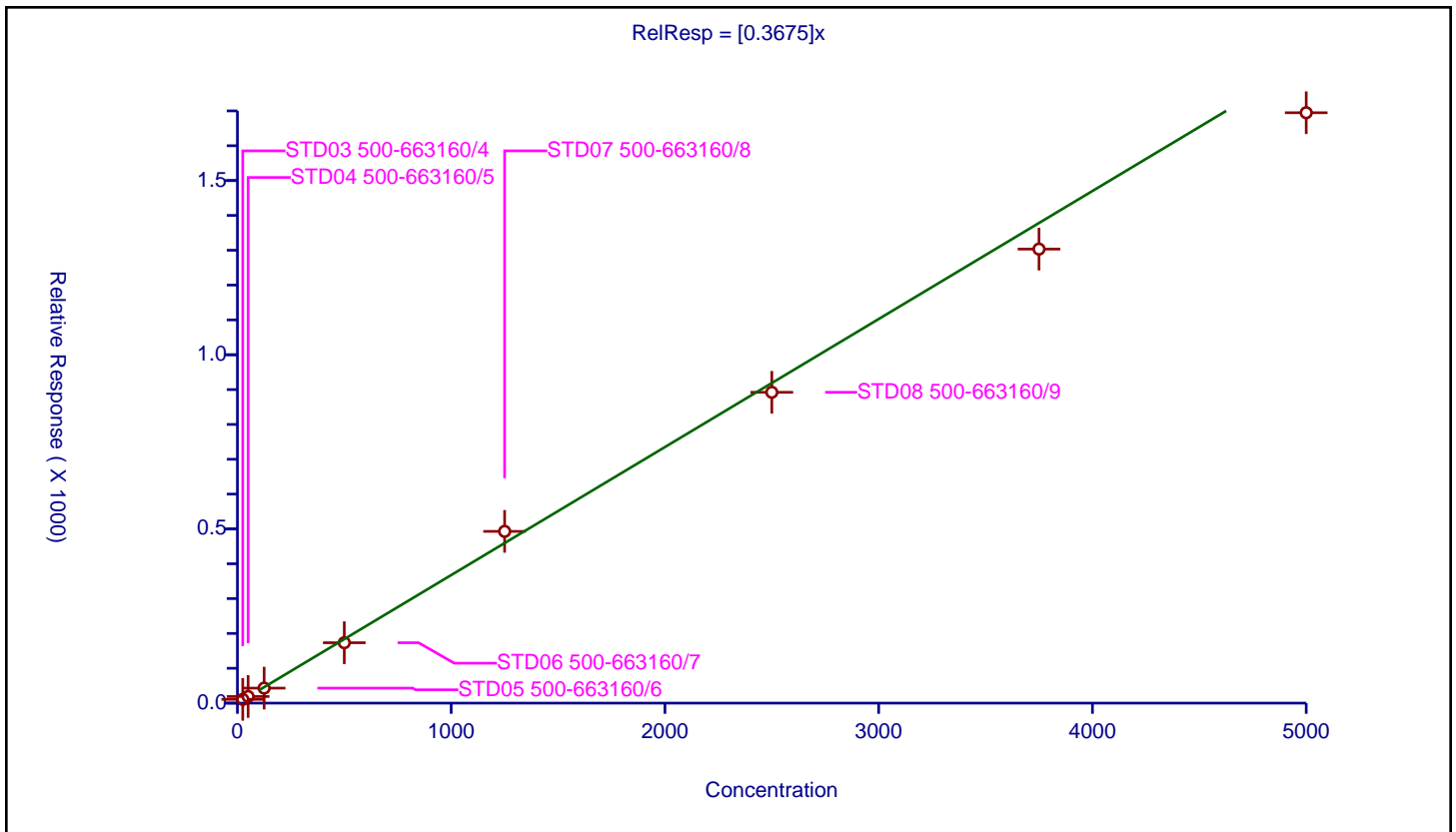
/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3675

Error Coefficients	
Standard Error:	264000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	25.0	10.785099	1000.0	235881.0	0.431404	Y
2	STD04 500-663160/5	50.0	18.983588	1000.0	215818.0	0.379672	Y
3	STD05 500-663160/6	125.0	43.068412	1000.0	205696.0	0.344547	Y
4	STD06 500-663160/7	500.0	173.368367	1000.0	240909.0	0.346737	Y
5	STD07 500-663160/8	1250.0	492.992657	1000.0	238036.0	0.394394	Y
6	STD08 500-663160/9	2500.0	892.194449	1000.0	260840.0	0.356878	Y
7	STD09 500-663160/10	3750.0	1303.305159	1000.0	300984.0	0.347548	Y
8	STD010 500-663160/11	5000.0	1694.742015	1000.0	305250.0	0.338948	Y



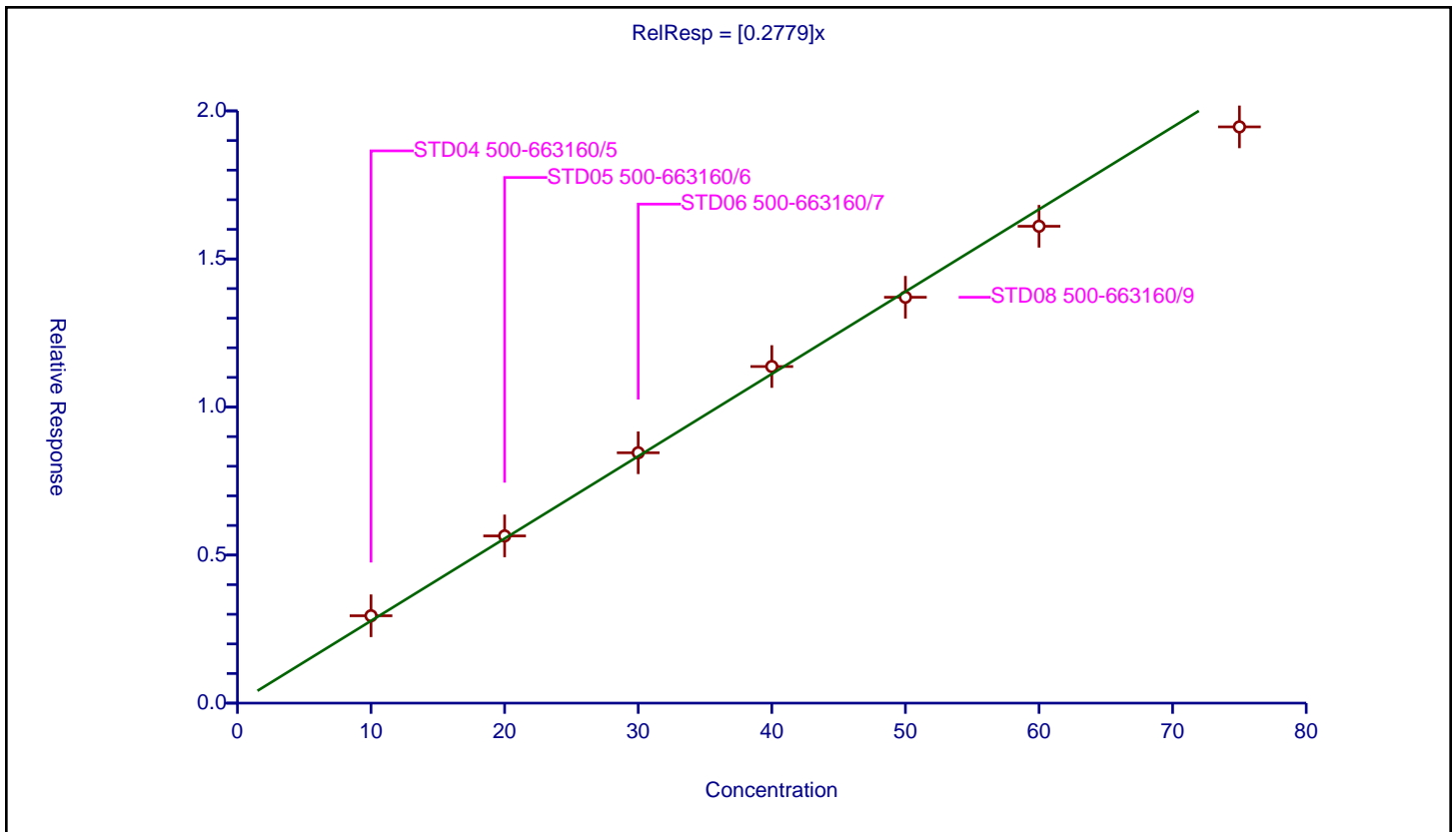
Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2779
Error Coefficients	
Standard Error:	216000
Relative Standard Error:	4.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-663160/5	10.0	2.950096	50.0	616590.0	0.29501	Y
2	STD05 500-663160/6	20.0	5.646676	50.0	621950.0	0.282334	Y
3	STD06 500-663160/7	30.0	8.455455	50.0	654607.0	0.281848	Y
4	STD07 500-663160/8	40.0	11.367552	50.0	695308.0	0.284189	Y
5	STD08 500-663160/9	50.0	13.706339	50.0	770078.0	0.274127	Y
6	STD09 500-663160/10	60.0	16.103728	50.0	832388.0	0.268395	Y
7	STD010 500-663160/11	75.0	19.460721	50.0	894751.0	0.259476	Y



Calibration

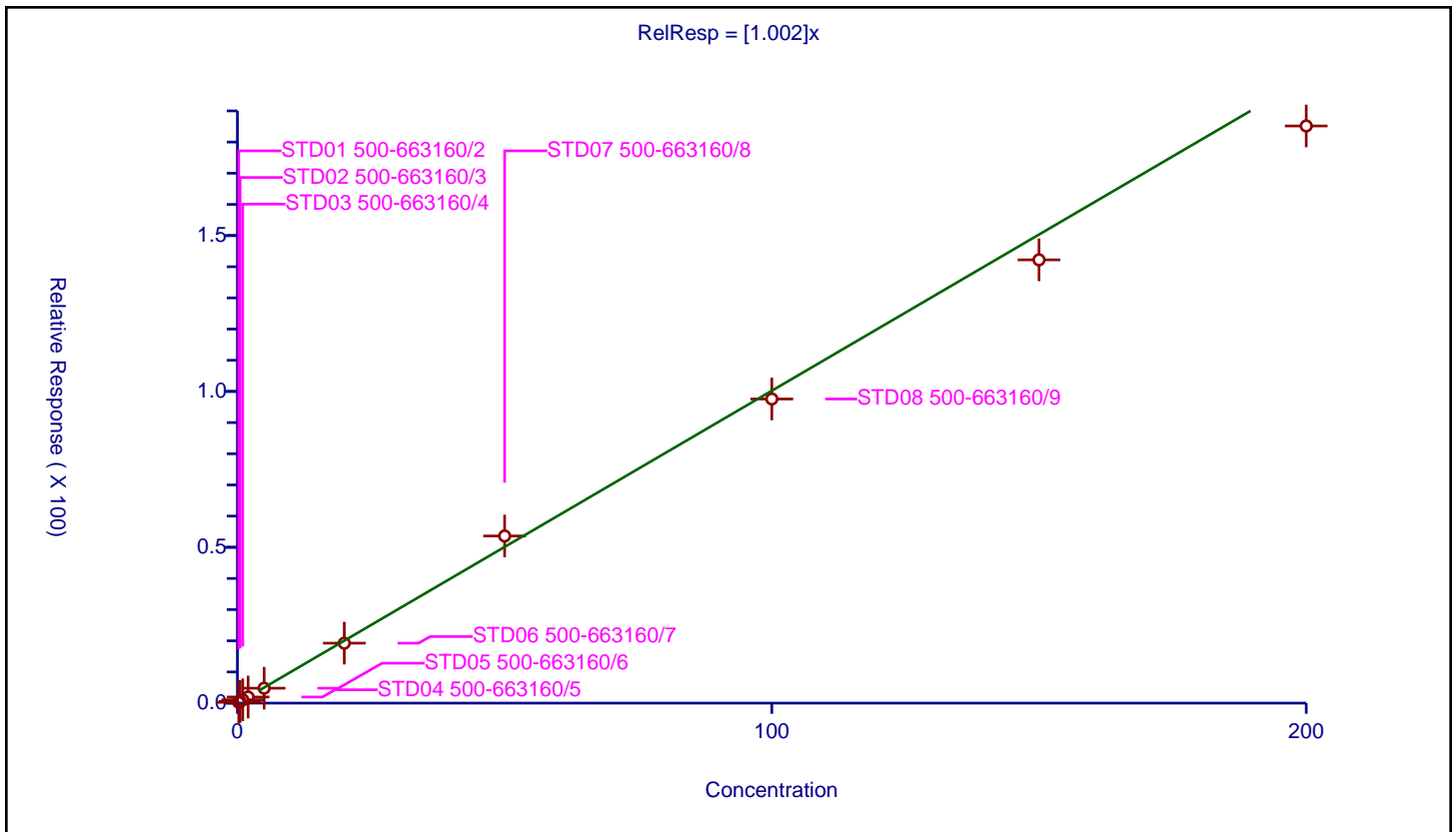
/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.002

Error Coefficients	
Standard Error:	1470000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.26042	50.0	555448.0	1.041682	Y
2	STD02 500-663160/3	0.5	0.544156	50.0	570149.0	1.088312	Y
3	STD03 500-663160/4	1.0	1.06759	50.0	598685.0	1.06759	Y
4	STD04 500-663160/5	2.0	1.962974	50.0	616590.0	0.981487	Y
5	STD05 500-663160/6	5.0	4.793231	50.0	621950.0	0.958646	Y
6	STD06 500-663160/7	20.0	19.240476	50.0	654607.0	0.962024	Y
7	STD07 500-663160/8	50.0	53.623934	50.0	695308.0	1.072479	Y
8	STD08 500-663160/9	100.0	97.575895	50.0	770078.0	0.975759	Y
9	STD09 500-663160/10	150.0	142.212946	50.0	832388.0	0.948086	Y
10	STD010 500-663160/11	200.0	185.162744	50.0	894751.0	0.925814	Y



Calibration

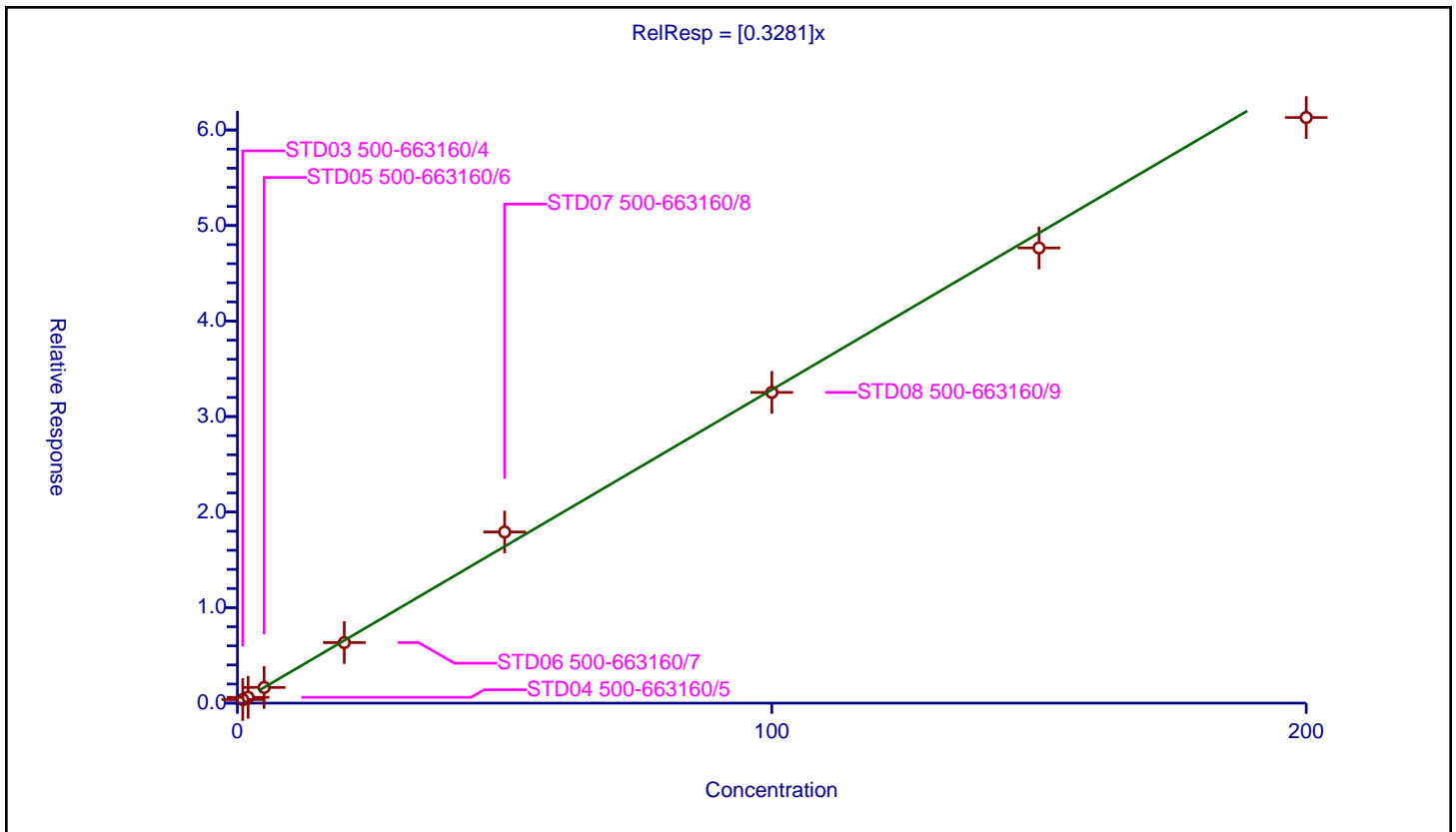
/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3281

Error Coefficients	
Standard Error:	555000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.368391	50.0	598685.0	0.368391	Y
2	STD04 500-663160/5	2.0	0.606724	50.0	616590.0	0.303362	Y
3	STD05 500-663160/6	5.0	1.640486	50.0	621950.0	0.328097	Y
4	STD06 500-663160/7	20.0	6.338001	50.0	654607.0	0.3169	Y
5	STD07 500-663160/8	50.0	17.918318	50.0	695308.0	0.358366	Y
6	STD08 500-663160/9	100.0	32.530406	50.0	770078.0	0.325304	Y
7	STD09 500-663160/10	150.0	47.652117	50.0	832388.0	0.317681	Y
8	STD010 500-663160/11	200.0	61.308118	50.0	894751.0	0.306541	Y



Calibration

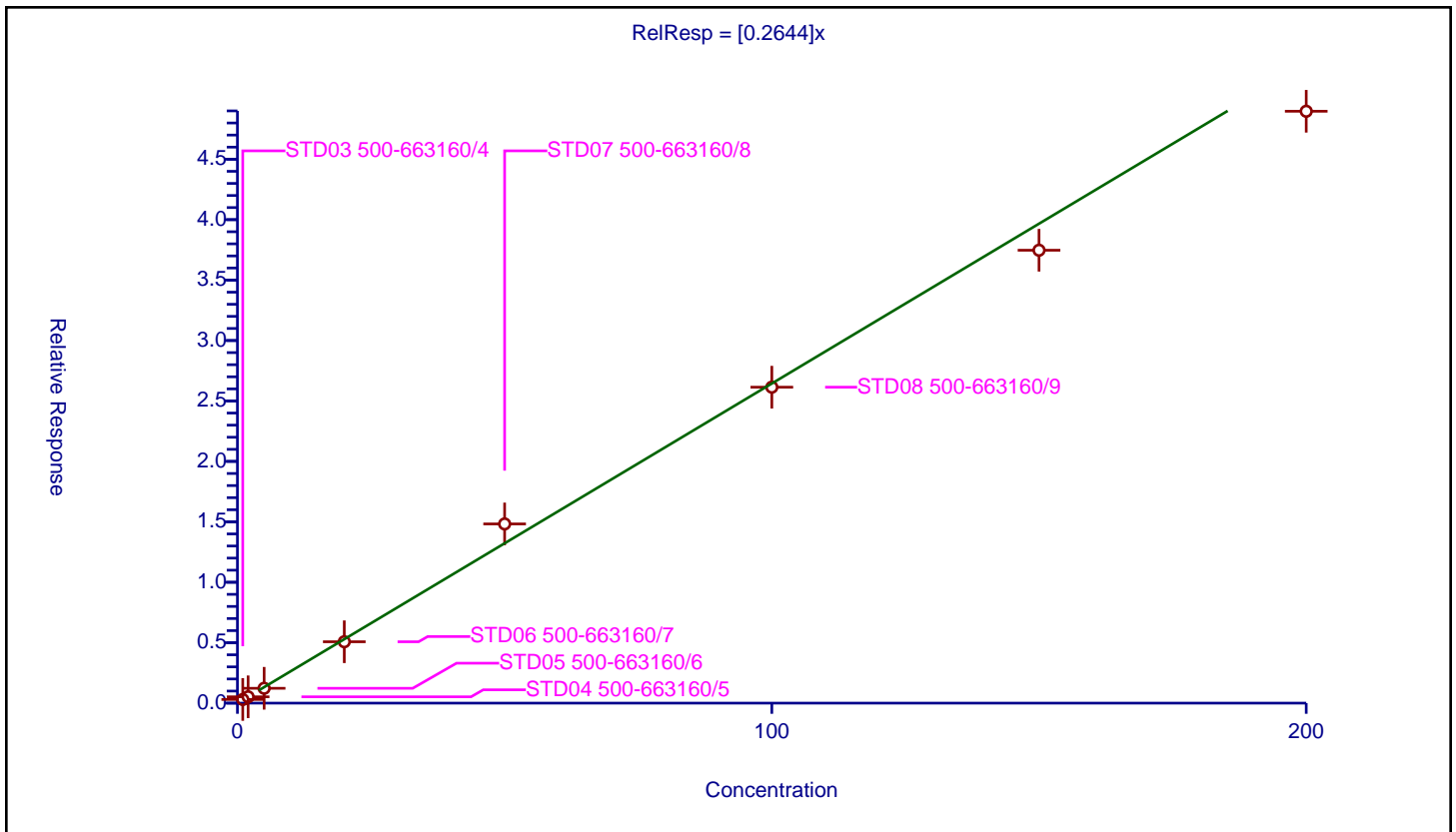
/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2644

Error Coefficients	
Standard Error:	442000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.301912	50.0	598685.0	0.301912	Y
2	STD04 500-663160/5	2.0	0.522308	50.0	616590.0	0.261154	Y
3	STD05 500-663160/6	5.0	1.229198	50.0	621950.0	0.24584	Y
4	STD06 500-663160/7	20.0	5.078925	50.0	654607.0	0.253946	Y
5	STD07 500-663160/8	50.0	14.826811	50.0	695308.0	0.296536	Y
6	STD08 500-663160/9	100.0	26.140923	50.0	770078.0	0.261409	Y
7	STD09 500-663160/10	150.0	37.470927	50.0	832388.0	0.249806	Y
8	STD010 500-663160/11	200.0	48.969043	50.0	894751.0	0.244845	Y



Calibration

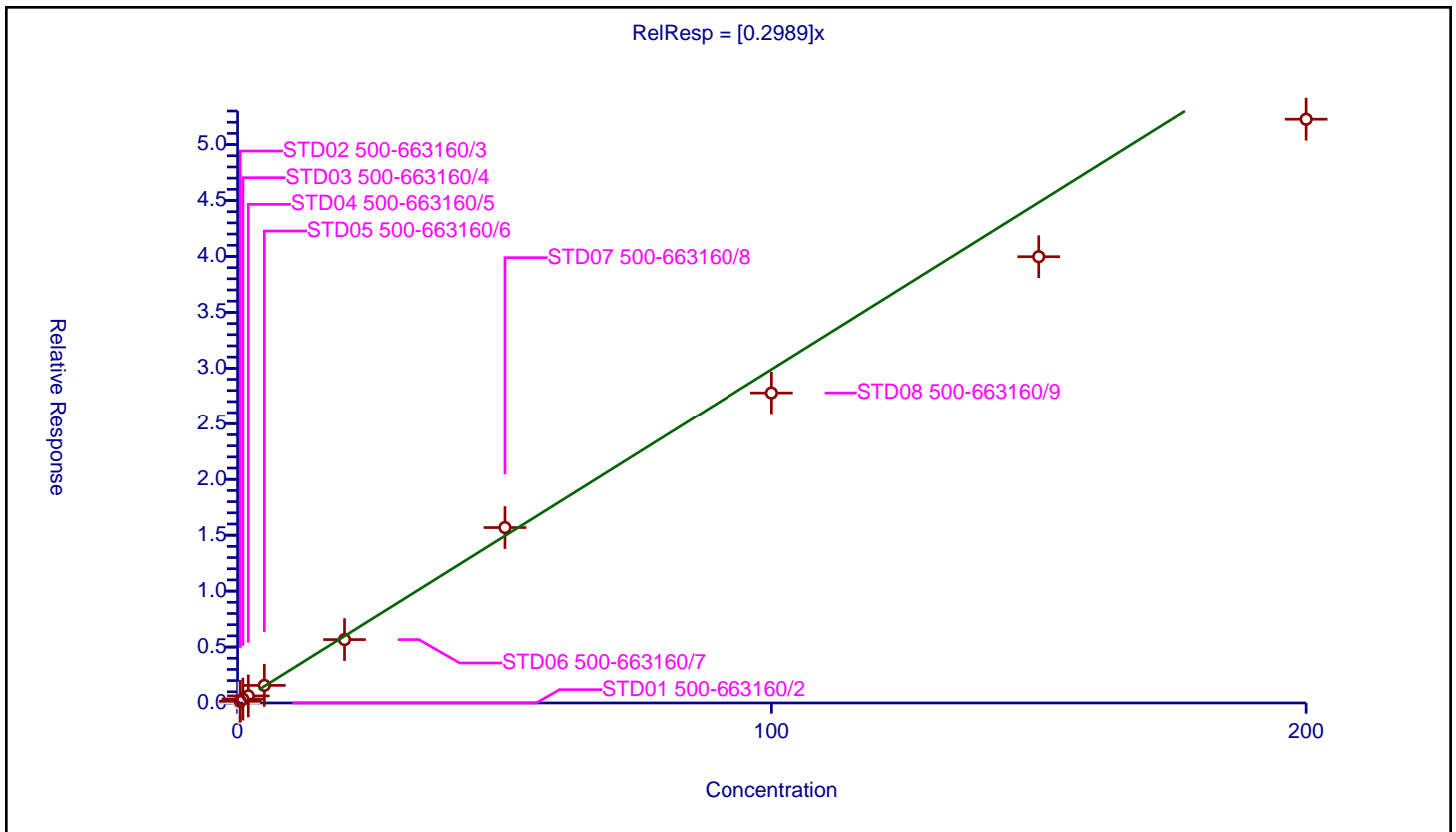
/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2989

Error Coefficients	
Standard Error:	441000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.0	50.0	555448.0	0.0	N
2	STD02 500-663160/3	0.5	0.154959	50.0	570149.0	0.309919	Y
3	STD03 500-663160/4	1.0	0.346092	50.0	598685.0	0.346092	Y
4	STD04 500-663160/5	2.0	0.633079	50.0	616590.0	0.316539	Y
5	STD05 500-663160/6	5.0	1.572795	50.0	621950.0	0.314559	Y
6	STD06 500-663160/7	20.0	5.665537	50.0	654607.0	0.283277	Y
7	STD07 500-663160/8	50.0	15.681252	50.0	695308.0	0.313625	Y
8	STD08 500-663160/9	100.0	27.784783	50.0	770078.0	0.277848	Y
9	STD09 500-663160/10	150.0	39.977751	50.0	832388.0	0.266518	Y
10	STD010 500-663160/11	200.0	52.267838	50.0	894751.0	0.261339	Y



Calibration

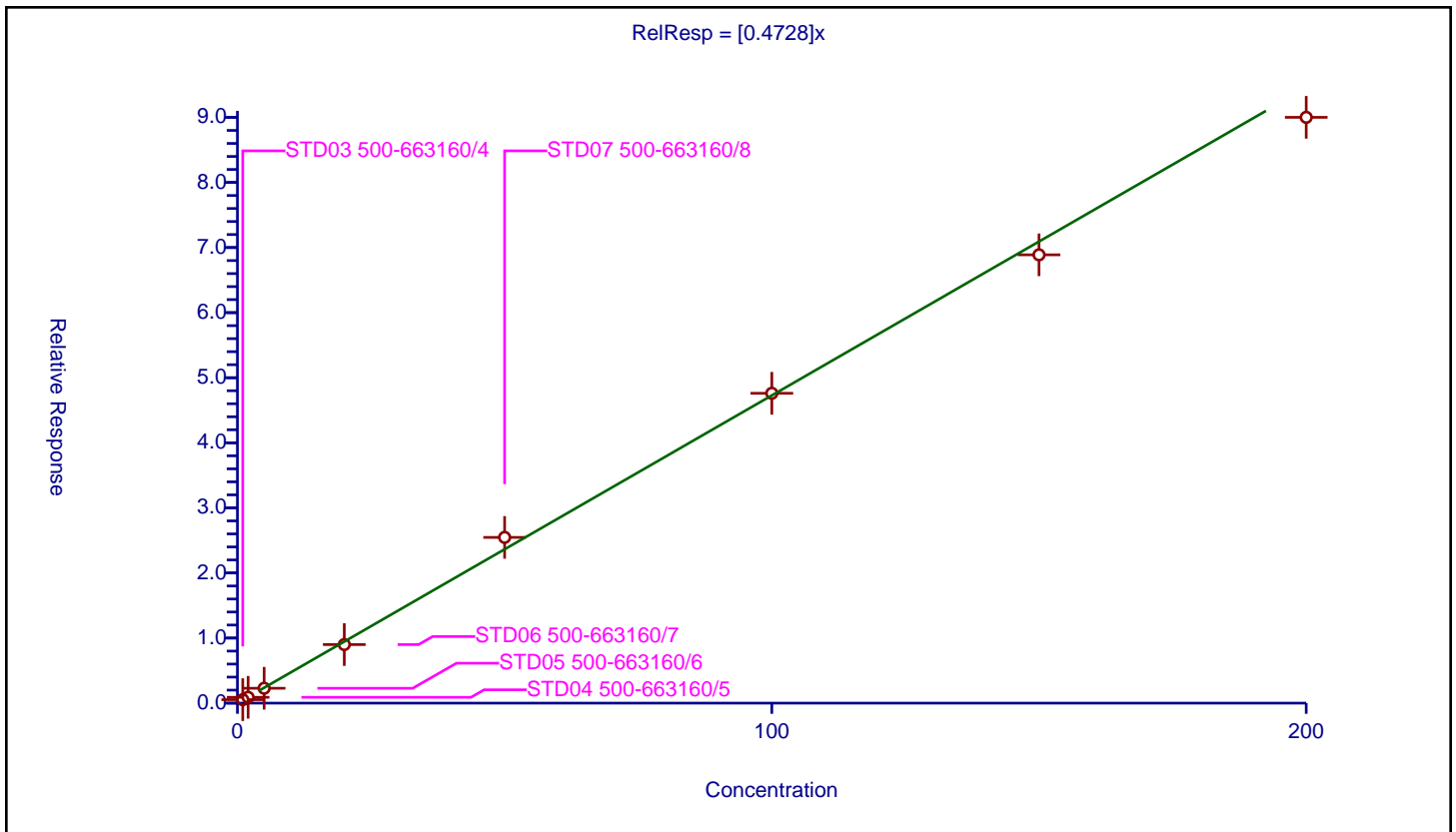
/ Methylcyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4728

Error Coefficients	
Standard Error:	809000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.534171	50.0	598685.0	0.534171	Y
2	STD04 500-663160/5	2.0	0.893706	50.0	616590.0	0.446853	Y
3	STD05 500-663160/6	5.0	2.285312	50.0	621950.0	0.457062	Y
4	STD06 500-663160/7	20.0	8.997536	50.0	654607.0	0.449877	Y
5	STD07 500-663160/8	50.0	25.464039	50.0	695308.0	0.509281	Y
6	STD08 500-663160/9	100.0	47.606736	50.0	770078.0	0.476067	Y
7	STD09 500-663160/10	150.0	68.882901	50.0	832388.0	0.459219	Y
8	STD010 500-663160/11	200.0	90.007946	50.0	894751.0	0.45004	Y



Calibration

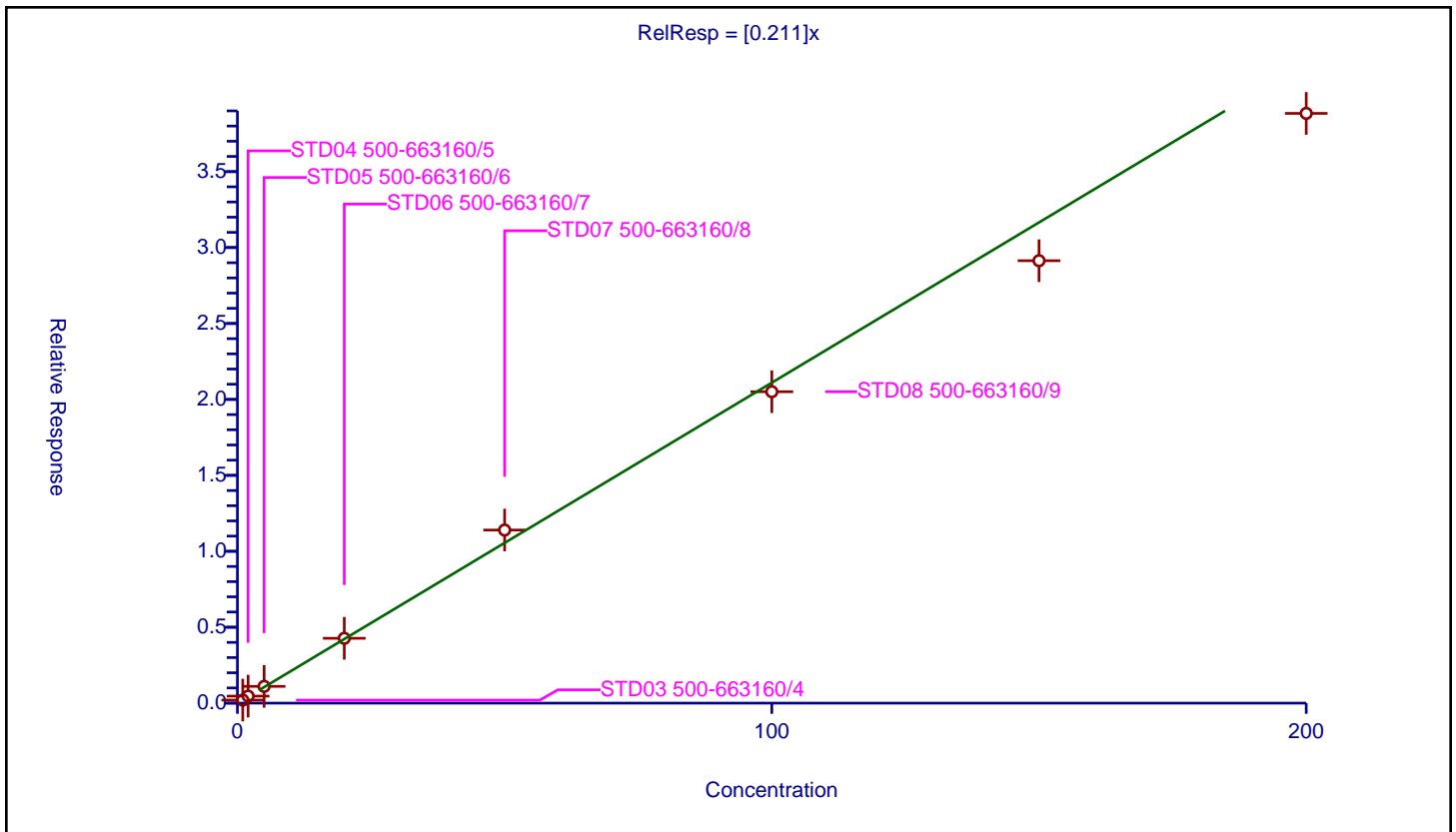
/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.211

Error Coefficients	
Standard Error:	348000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.201525	50.0	598685.0	0.201525	Y
2	STD04 500-663160/5	2.0	0.461895	50.0	616590.0	0.230948	Y
3	STD05 500-663160/6	5.0	1.104188	50.0	621950.0	0.220838	Y
4	STD06 500-663160/7	20.0	4.269432	50.0	654607.0	0.213472	Y
5	STD07 500-663160/8	50.0	11.397179	50.0	695308.0	0.227944	Y
6	STD08 500-663160/9	100.0	20.506364	50.0	770078.0	0.205064	Y
7	STD09 500-663160/10	150.0	29.13467	50.0	832388.0	0.194231	Y
8	STD010 500-663160/11	200.0	38.834715	50.0	894751.0	0.194174	Y



Calibration

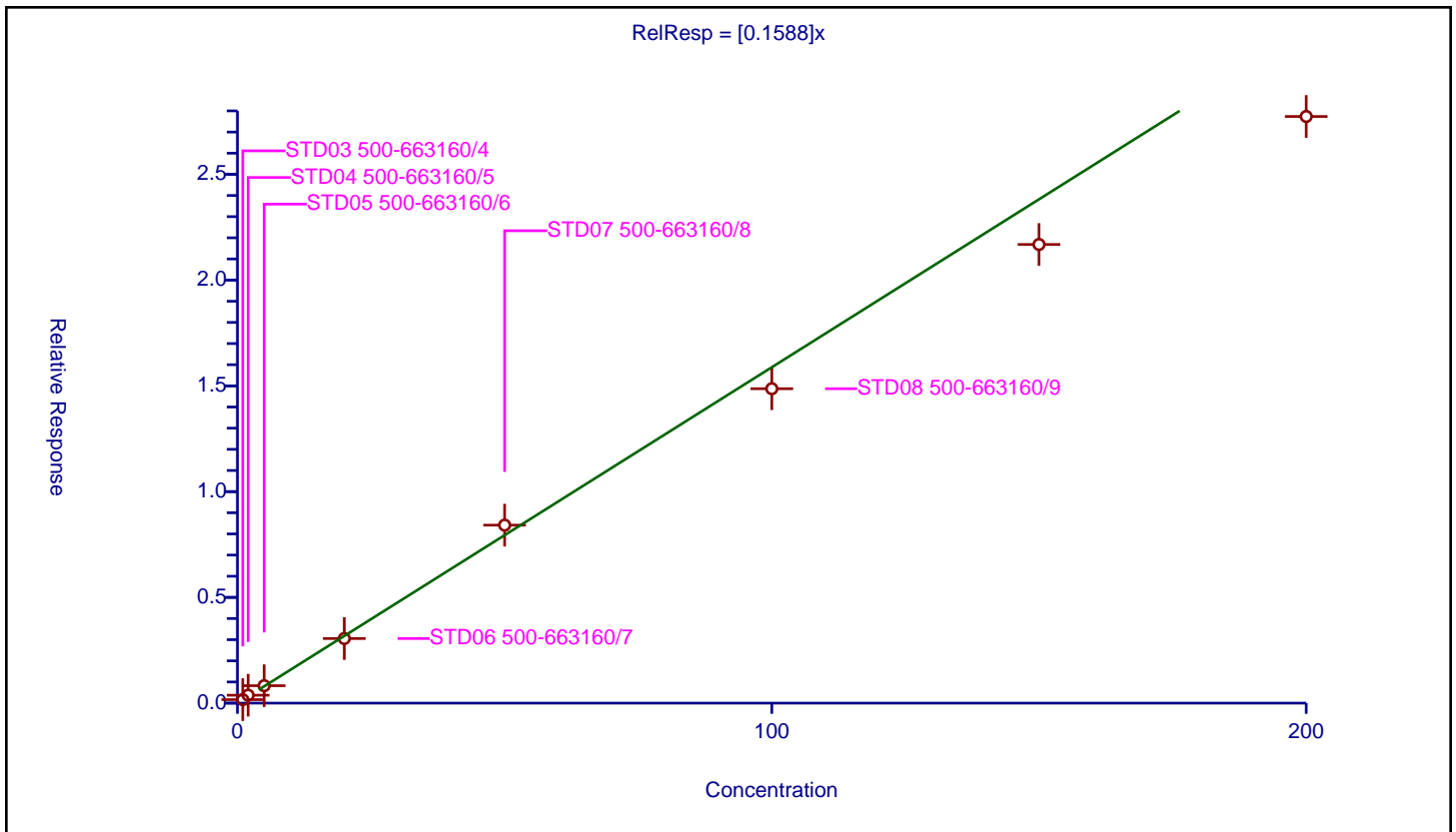
/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1588

Error Coefficients	
Standard Error:	252000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.165613	50.0	598685.0	0.165613	Y
2	STD04 500-663160/5	2.0	0.374317	50.0	616590.0	0.187158	Y
3	STD05 500-663160/6	5.0	0.823539	50.0	621950.0	0.164708	Y
4	STD06 500-663160/7	20.0	3.054275	50.0	654607.0	0.152714	Y
5	STD07 500-663160/8	50.0	8.414544	50.0	695308.0	0.168291	Y
6	STD08 500-663160/9	100.0	14.864793	50.0	770078.0	0.148648	Y
7	STD09 500-663160/10	150.0	21.684118	50.0	832388.0	0.144561	Y
8	STD010 500-663160/11	200.0	27.735538	50.0	894751.0	0.138678	Y



Calibration

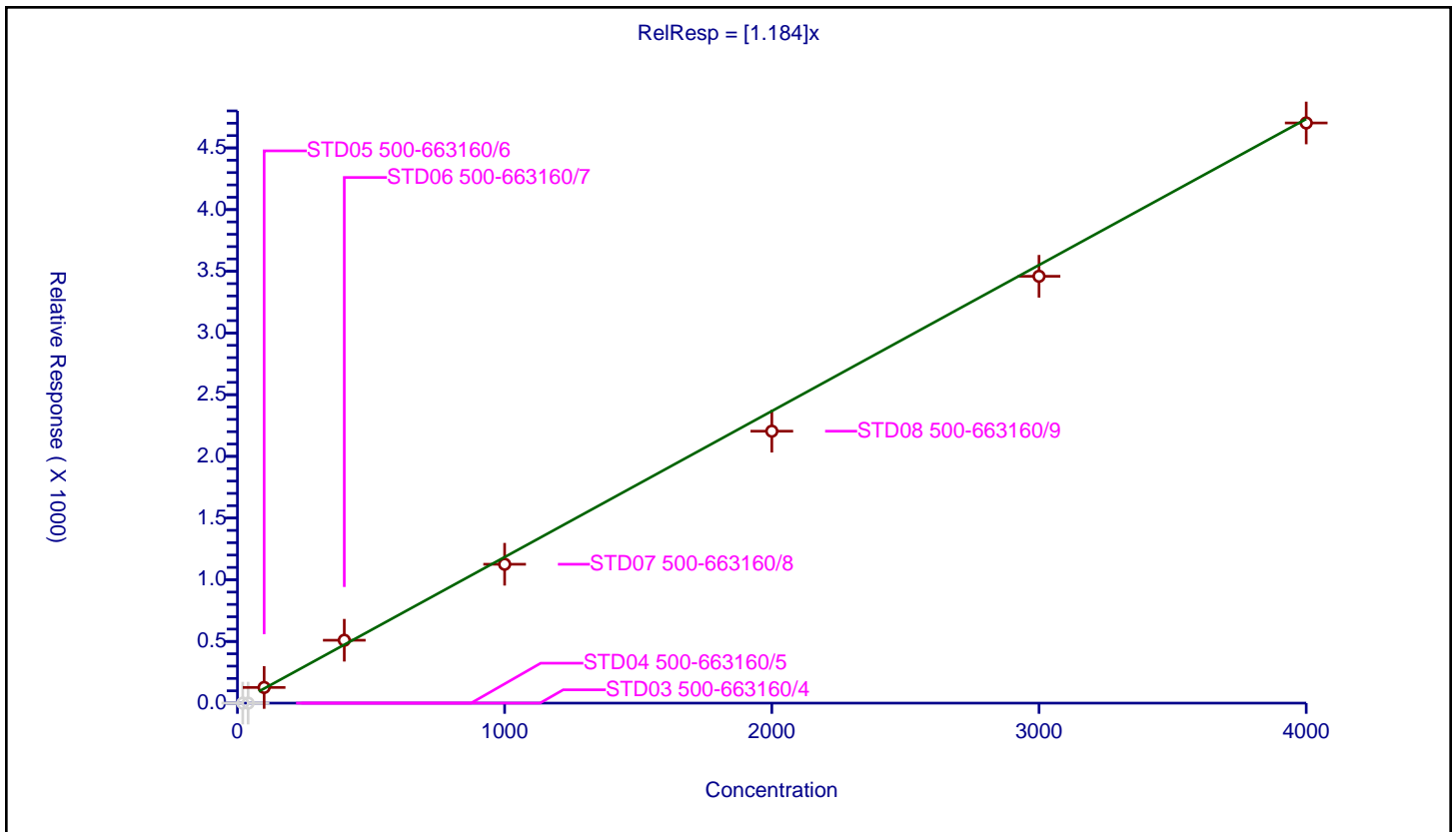
/ 1,4-Dioxane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.184

Error Coefficients	
Standard Error:	62500
Relative Standard Error:	6.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	20.0	0.0	1000.0	19670.0	0.0	N
2	STD04 500-663160/5	40.0	0.0	1000.0	17677.0	0.0	N
3	STD05 500-663160/6	100.0	127.05072	1000.0	15970.0	1.270507	Y
4	STD06 500-663160/7	400.0	509.742748	1000.0	18270.0	1.274357	Y
5	STD07 500-663160/8	1000.0	1125.605058	1000.0	20246.0	1.125605	Y
6	STD08 500-663160/9	2000.0	2203.960203	1000.0	20504.0	1.10198	Y
7	STD09 500-663160/10	3000.0	3459.53211	1000.0	23809.0	1.153177	Y
8	STD010 500-663160/11	4000.0	4702.163348	1000.0	23251.0	1.175541	Y



Calibration

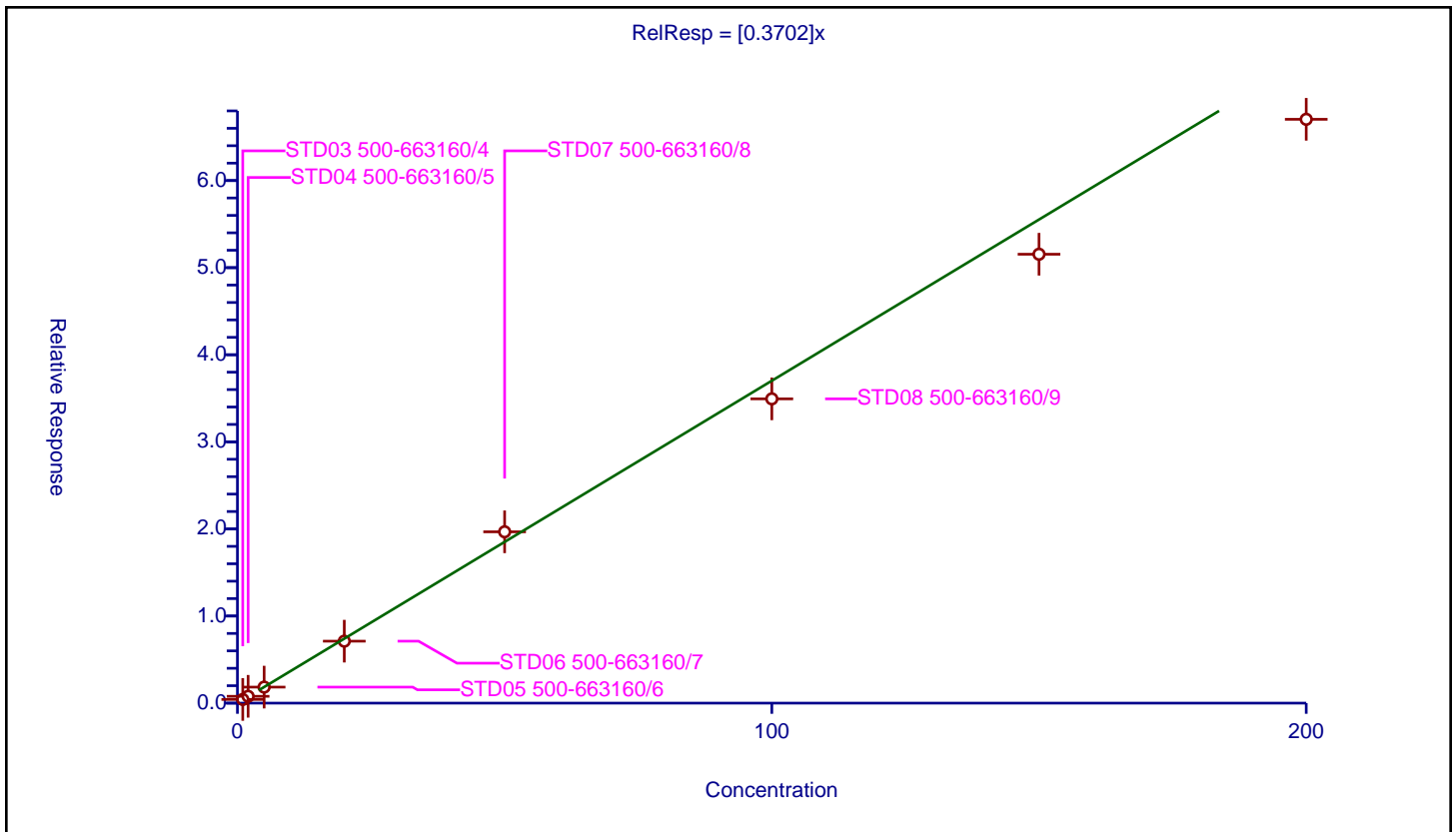
/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3702

Error Coefficients	
Standard Error:	603000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.42443	50.0	598685.0	0.42443	Y
2	STD04 500-663160/5	2.0	0.783908	50.0	616590.0	0.391954	Y
3	STD05 500-663160/6	5.0	1.838331	50.0	621950.0	0.367666	Y
4	STD06 500-663160/7	20.0	7.113352	50.0	654607.0	0.355668	Y
5	STD07 500-663160/8	50.0	19.67157	50.0	695308.0	0.393431	Y
6	STD08 500-663160/9	100.0	34.937045	50.0	770078.0	0.34937	Y
7	STD09 500-663160/10	150.0	51.54237	50.0	832388.0	0.343616	Y
8	STD010 500-663160/11	200.0	67.032616	50.0	894751.0	0.335163	Y



Calibration

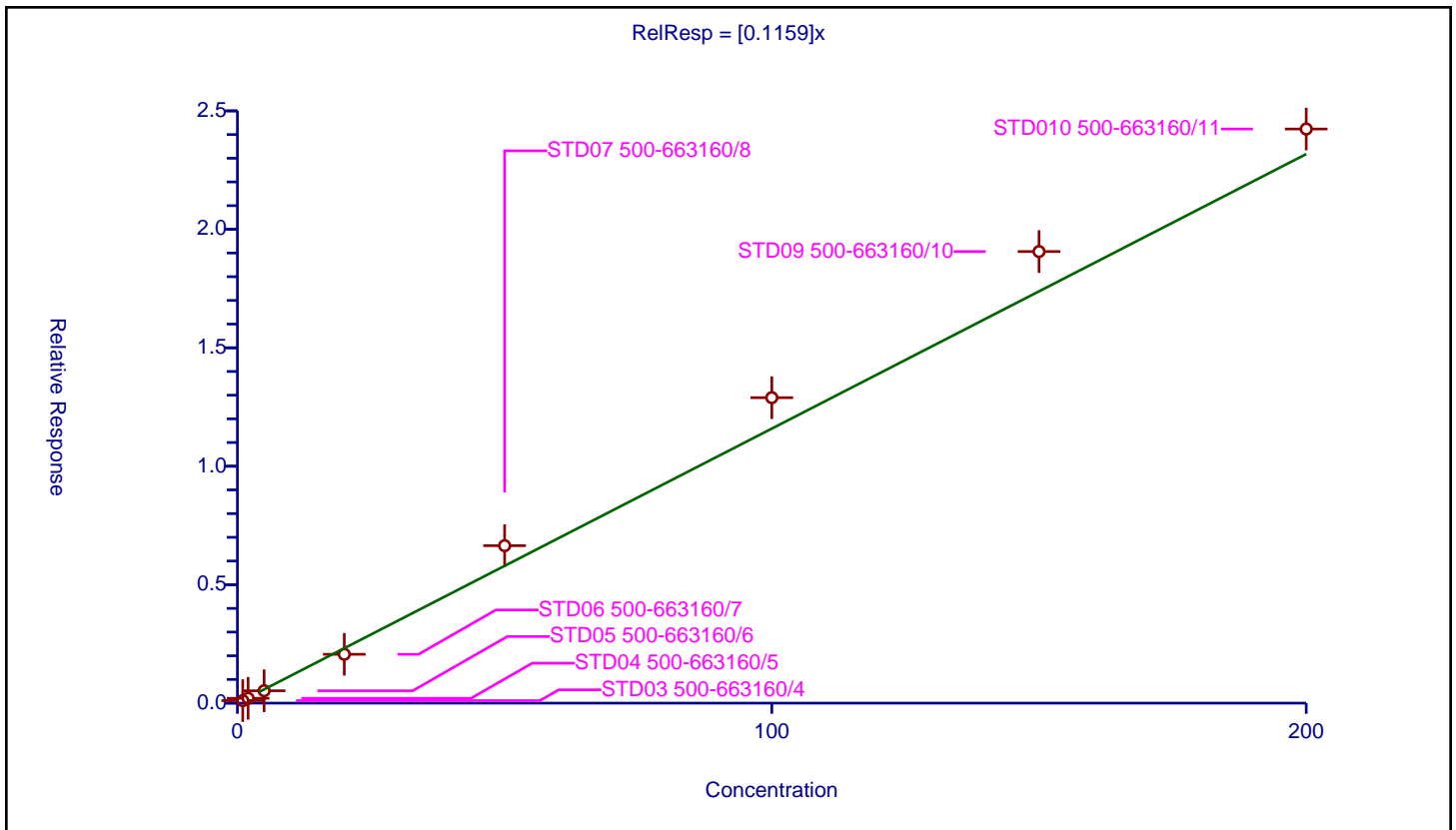
/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1159

Error Coefficients	
Standard Error:	149000
Relative Standard Error:	11.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.107315	50.0	445883.0	0.107315	Y
2	STD04 500-663160/5	2.0	0.204274	50.0	449886.0	0.102137	Y
3	STD05 500-663160/6	5.0	0.522042	50.0	452741.0	0.104408	Y
4	STD06 500-663160/7	20.0	2.061726	50.0	463665.0	0.103086	Y
5	STD07 500-663160/8	50.0	6.645948	50.0	483633.0	0.132919	Y
6	STD08 500-663160/9	100.0	12.893616	50.0	516081.0	0.128936	Y
7	STD09 500-663160/10	150.0	19.062372	50.0	562611.0	0.127082	Y
8	STD010 500-663160/11	200.0	24.233987	50.0	608802.0	0.12117	Y



Calibration

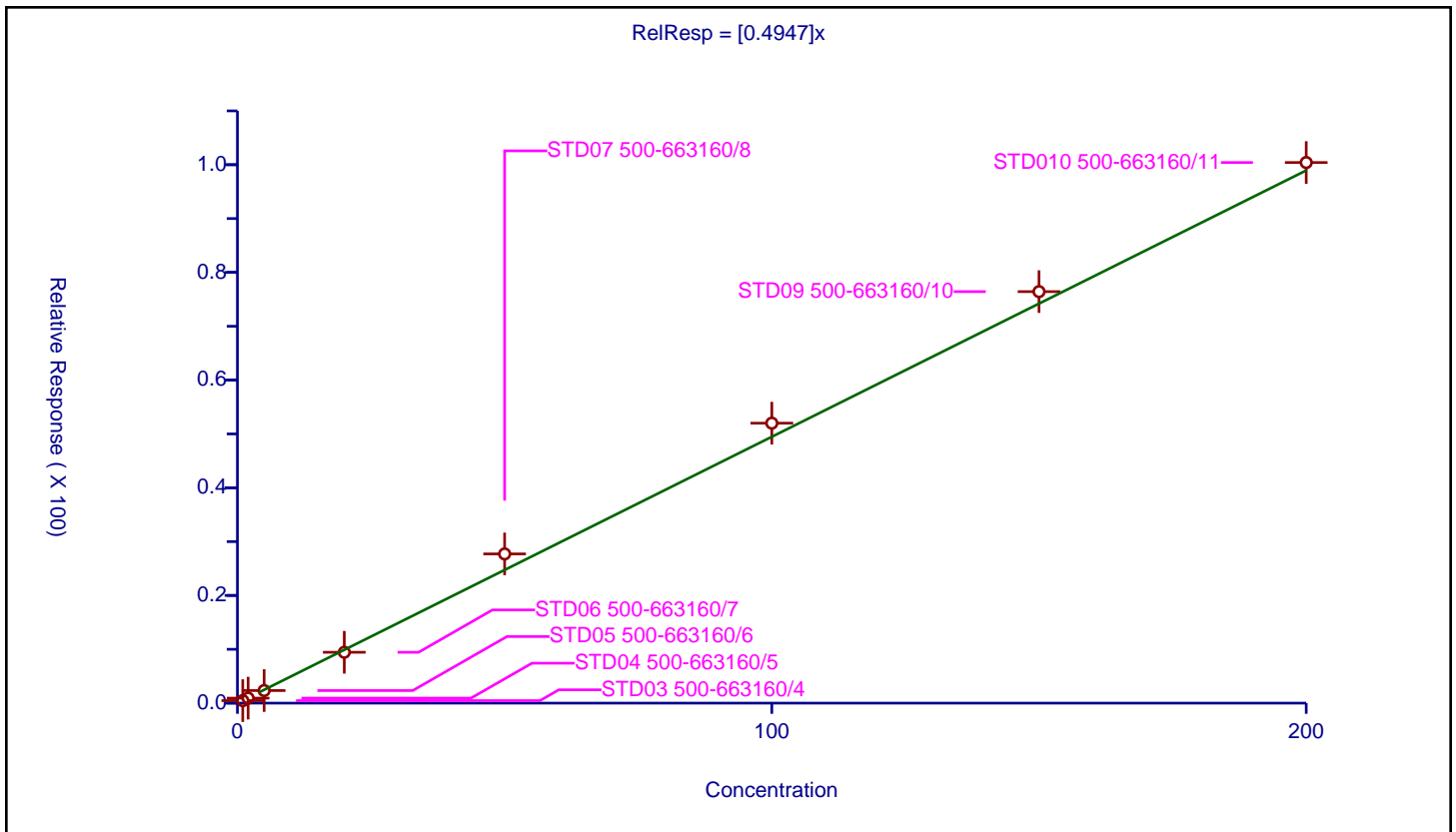
/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4947

Error Coefficients	
Standard Error:	610000
Relative Standard Error:	6.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.468621	50.0	445883.0	0.468621	Y
2	STD04 500-663160/5	2.0	0.927013	50.0	449886.0	0.463506	Y
3	STD05 500-663160/6	5.0	2.336214	50.0	452741.0	0.467243	Y
4	STD06 500-663160/7	20.0	9.44723	50.0	463665.0	0.472362	Y
5	STD07 500-663160/8	50.0	27.712956	50.0	483633.0	0.554259	Y
6	STD08 500-663160/9	100.0	52.000171	50.0	516081.0	0.520002	Y
7	STD09 500-663160/10	150.0	76.433273	50.0	562611.0	0.509555	Y
8	STD010 500-663160/11	200.0	100.409411	50.0	608802.0	0.502047	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

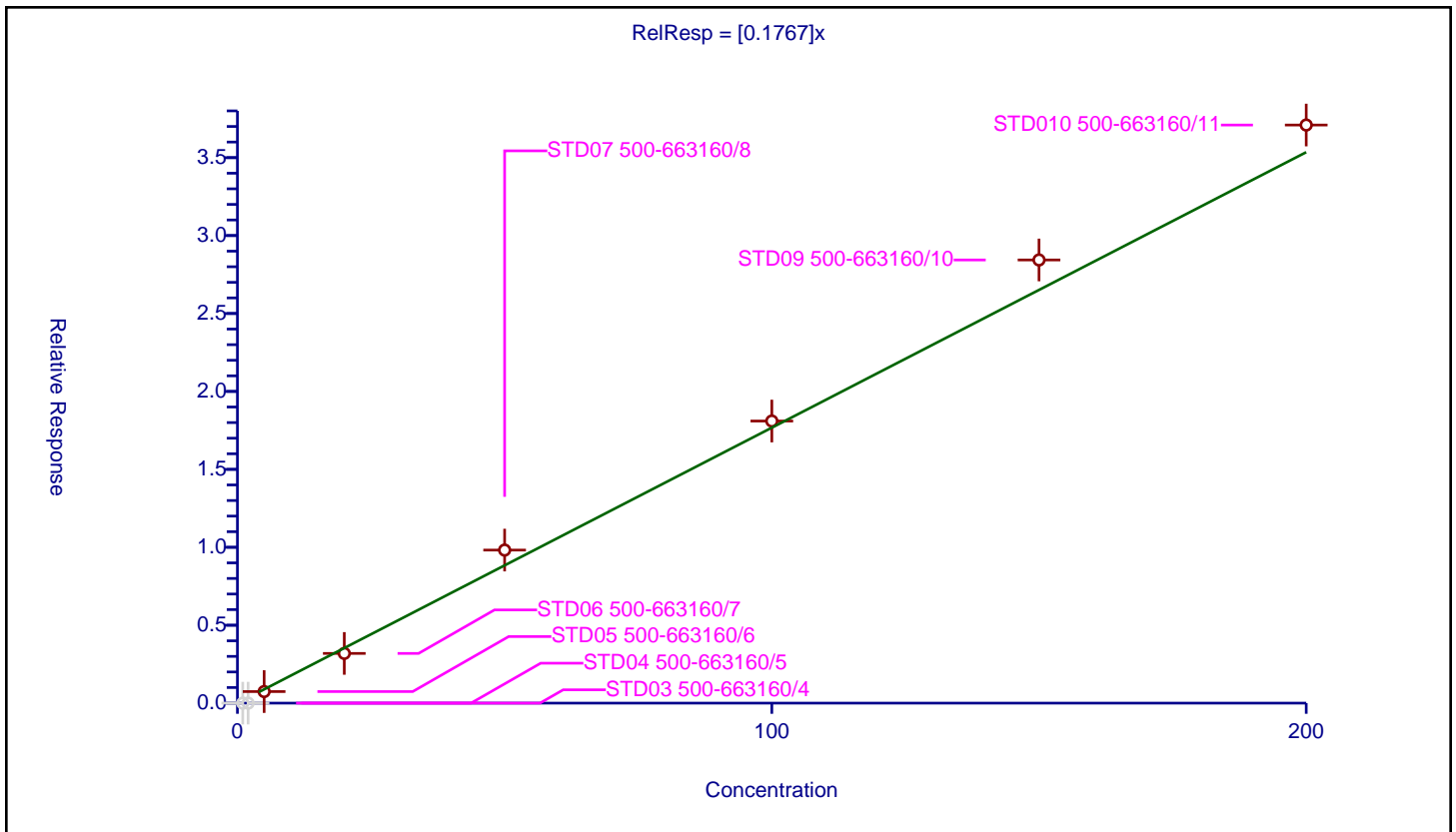
Curve Coefficients

Intercept: 0
 Slope: 0.1767

Error Coefficients

Standard Error: 265000
 Relative Standard Error: 10.5
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	445883.0	0.0	N
2	STD04 500-663160/5	2.0	0.0	50.0	449886.0	0.0	N
3	STD05 500-663160/6	5.0	0.742698	50.0	452741.0	0.14854	Y
4	STD06 500-663160/7	20.0	3.189911	50.0	463665.0	0.159496	Y
5	STD07 500-663160/8	50.0	9.82005	50.0	483633.0	0.196401	Y
6	STD08 500-663160/9	100.0	18.099872	50.0	516081.0	0.180999	Y
7	STD09 500-663160/10	150.0	28.434744	50.0	562611.0	0.189565	Y
8	STD010 500-663160/11	200.0	37.093259	50.0	608802.0	0.185466	Y



Calibration

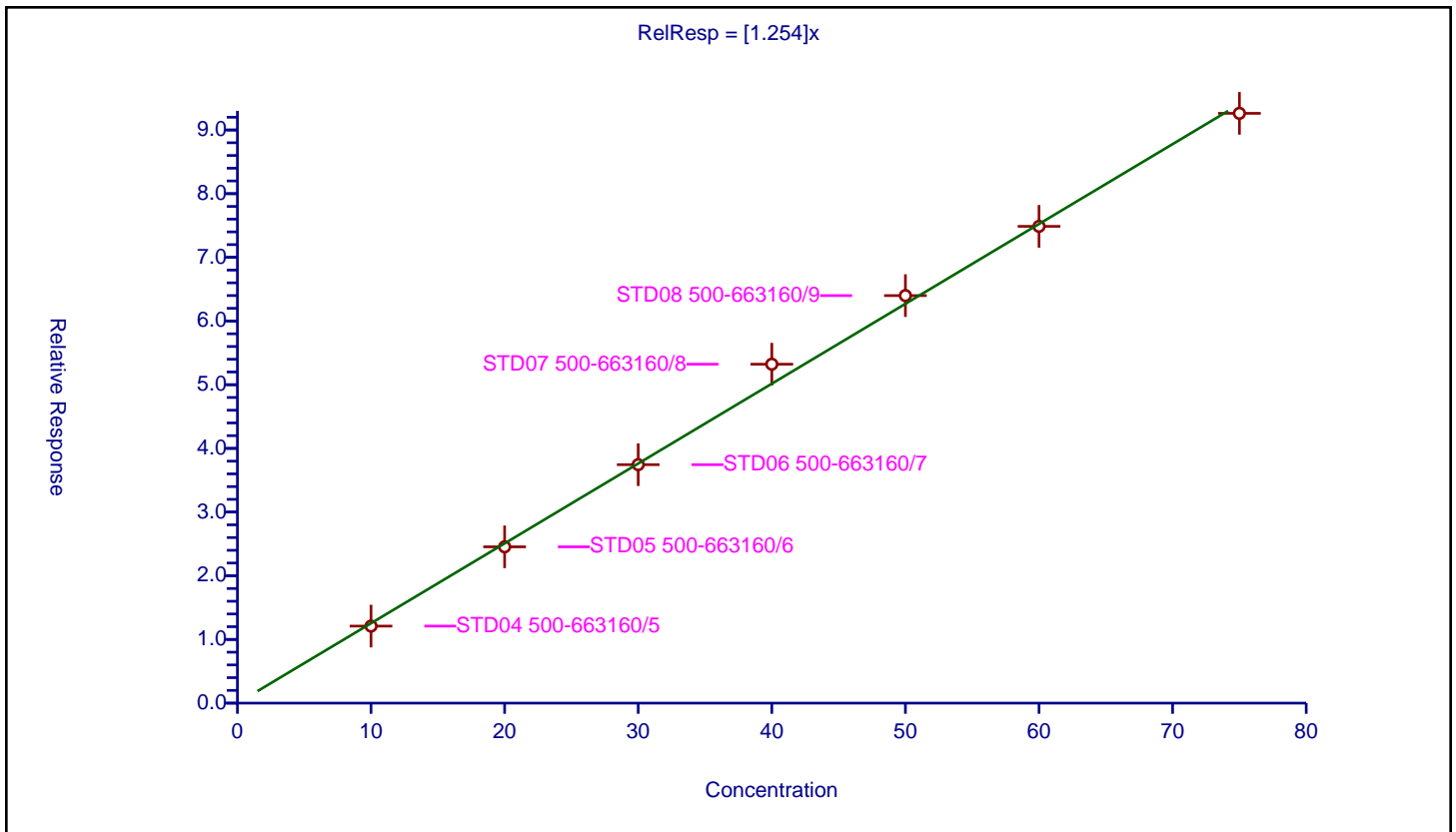
/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.254

Error Coefficients	
Standard Error:	691000
Relative Standard Error:	3.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-663160/5	10.0	12.096064	50.0	449886.0	1.209606	Y
2	STD05 500-663160/6	20.0	24.545049	50.0	452741.0	1.227252	Y
3	STD06 500-663160/7	30.0	37.448265	50.0	463665.0	1.248276	Y
4	STD07 500-663160/8	40.0	53.221968	50.0	483633.0	1.330549	Y
5	STD08 500-663160/9	50.0	63.995477	50.0	516081.0	1.27991	Y
6	STD09 500-663160/10	60.0	74.868959	50.0	562611.0	1.247816	Y
7	STD010 500-663160/11	75.0	92.615497	50.0	608802.0	1.234873	Y



Calibration

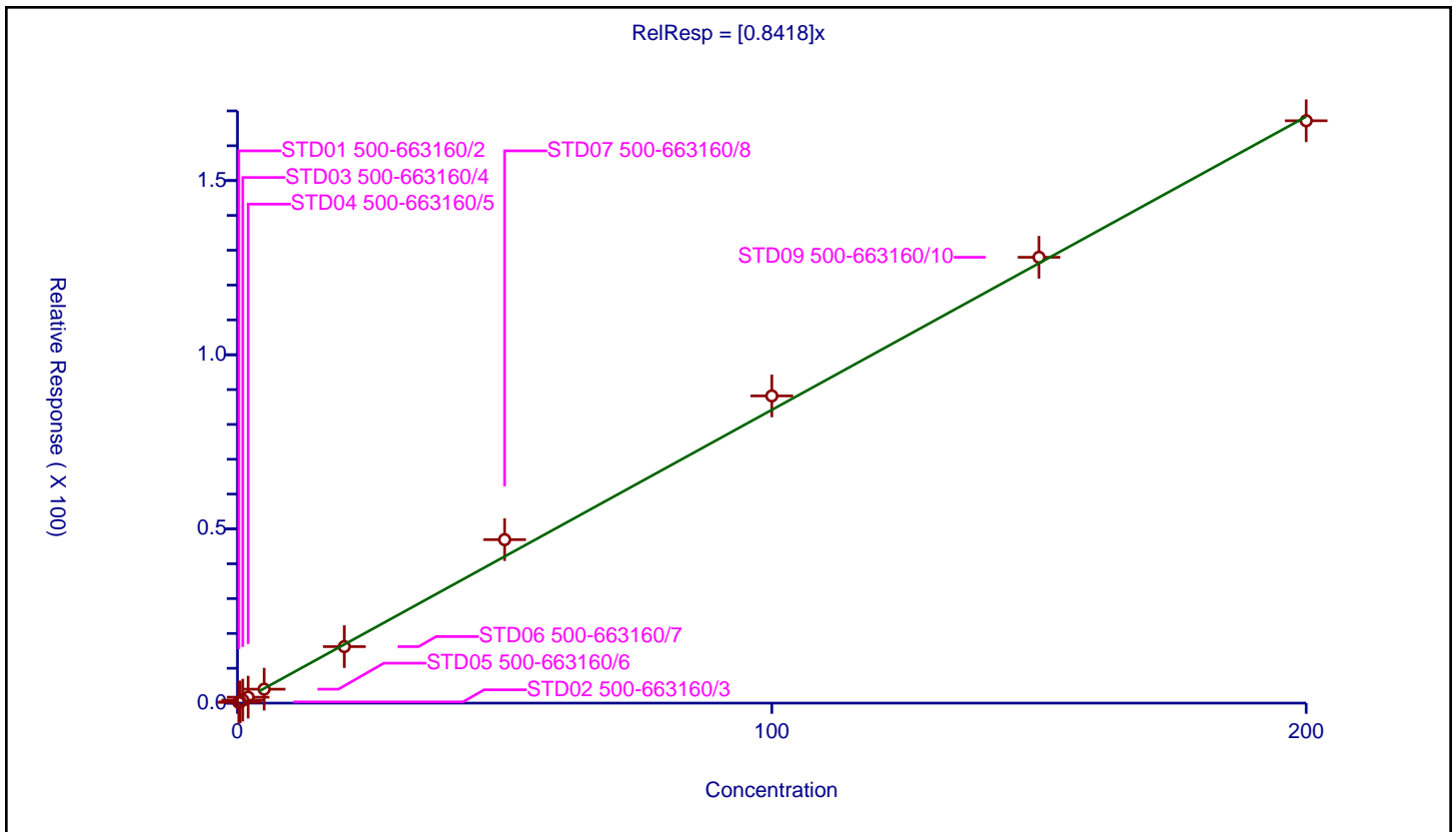
/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8418

Error Coefficients	
Standard Error:	899000
Relative Standard Error:	7.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.222246	50.0	413956.0	0.888983	Y
2	STD02 500-663160/3	0.5	0.346336	50.0	426898.0	0.692671	Y
3	STD03 500-663160/4	1.0	0.861997	50.0	445883.0	0.861997	Y
4	STD04 500-663160/5	2.0	1.707655	50.0	449886.0	0.853827	Y
5	STD05 500-663160/6	5.0	3.998423	50.0	452741.0	0.799685	Y
6	STD06 500-663160/7	20.0	16.220763	50.0	463665.0	0.811038	Y
7	STD07 500-663160/8	50.0	46.925975	50.0	483633.0	0.938519	Y
8	STD08 500-663160/9	100.0	88.188579	50.0	516081.0	0.881886	Y
9	STD09 500-663160/10	150.0	127.985944	50.0	562611.0	0.85324	Y
10	STD010 500-663160/11	200.0	167.172414	50.0	608802.0	0.835862	Y



Calibration

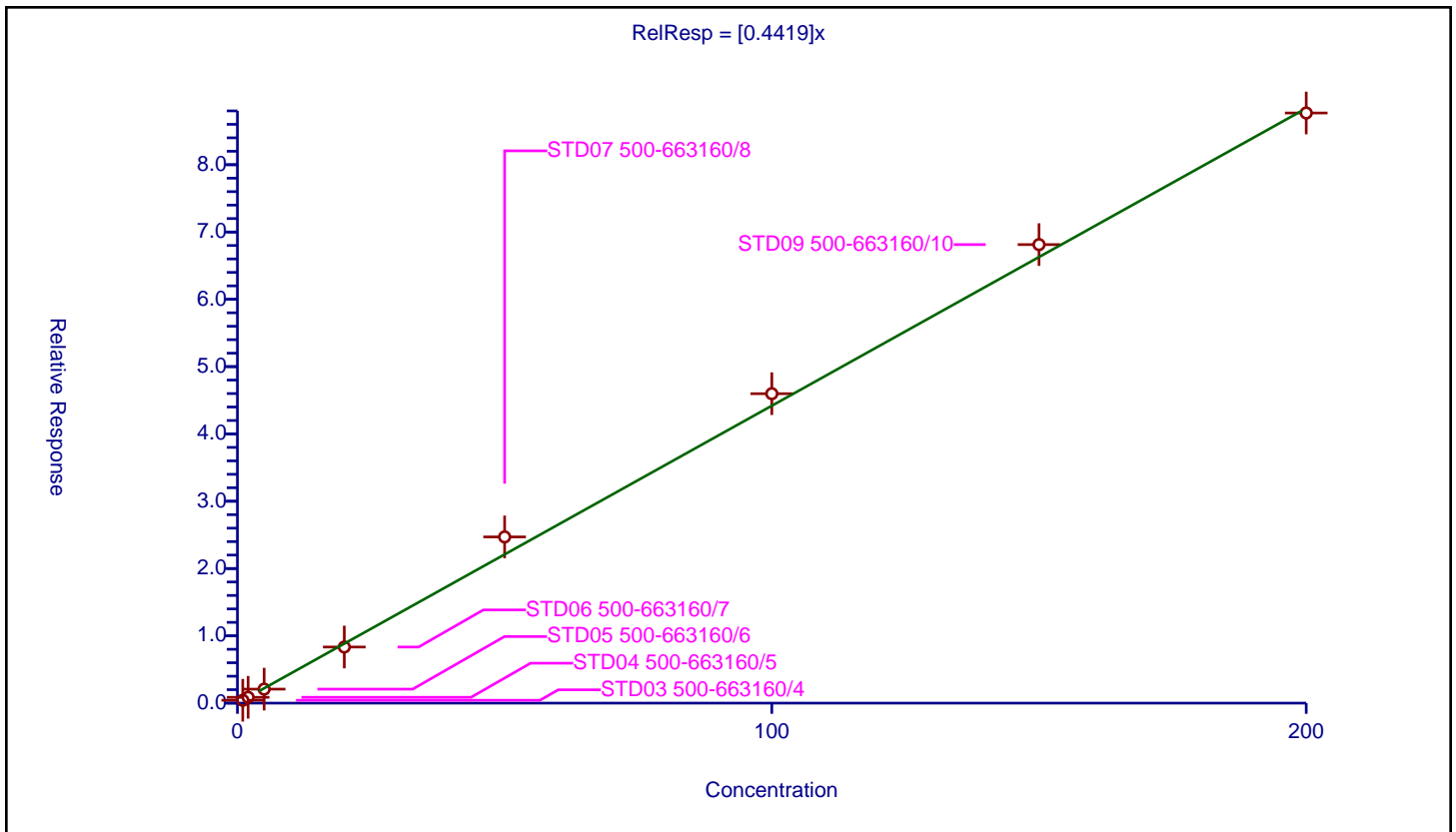
/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4419

Error Coefficients	
Standard Error:	537000
Relative Standard Error:	6.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.424439	50.0	445883.0	0.424439	Y
2	STD04 500-663160/5	2.0	0.862885	50.0	449886.0	0.431443	Y
3	STD05 500-663160/6	5.0	2.079555	50.0	452741.0	0.415911	Y
4	STD06 500-663160/7	20.0	8.338024	50.0	463665.0	0.416901	Y
5	STD07 500-663160/8	50.0	24.698273	50.0	483633.0	0.493965	Y
6	STD08 500-663160/9	100.0	45.97941	50.0	516081.0	0.459794	Y
7	STD09 500-663160/10	150.0	68.133222	50.0	562611.0	0.454221	Y
8	STD010 500-663160/11	200.0	87.687787	50.0	608802.0	0.438439	Y



Calibration

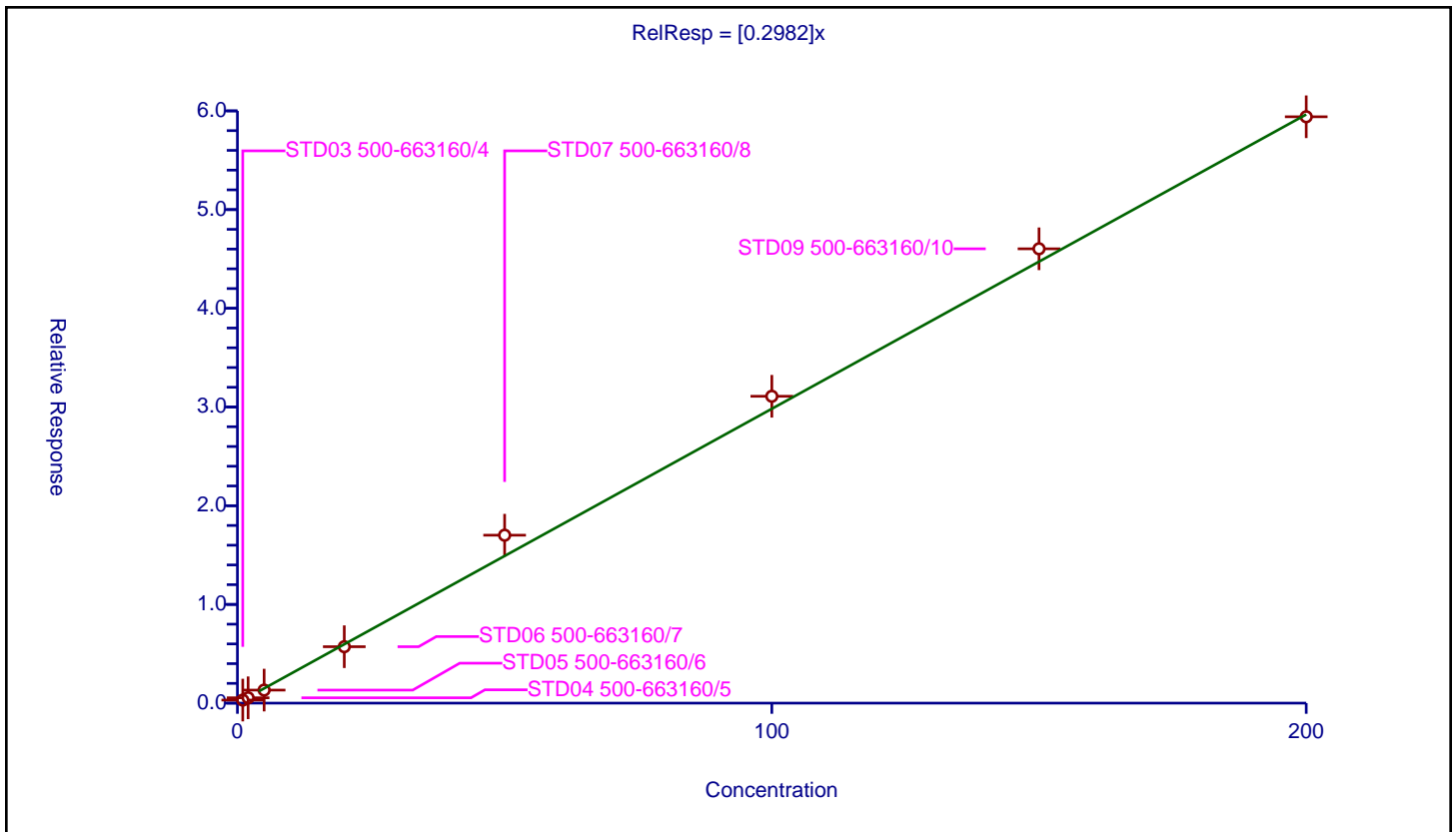
/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2982

Error Coefficients	
Standard Error:	363000
Relative Standard Error:	8.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.30961	50.0	445883.0	0.30961	Y
2	STD04 500-663160/5	2.0	0.541693	50.0	449886.0	0.270846	Y
3	STD05 500-663160/6	5.0	1.321285	50.0	452741.0	0.264257	Y
4	STD06 500-663160/7	20.0	5.716196	50.0	463665.0	0.28581	Y
5	STD07 500-663160/8	50.0	17.012797	50.0	483633.0	0.340256	Y
6	STD08 500-663160/9	100.0	31.089209	50.0	516081.0	0.310892	Y
7	STD09 500-663160/10	150.0	46.027984	50.0	562611.0	0.306853	Y
8	STD010 500-663160/11	200.0	59.403961	50.0	608802.0	0.29702	Y



Calibration

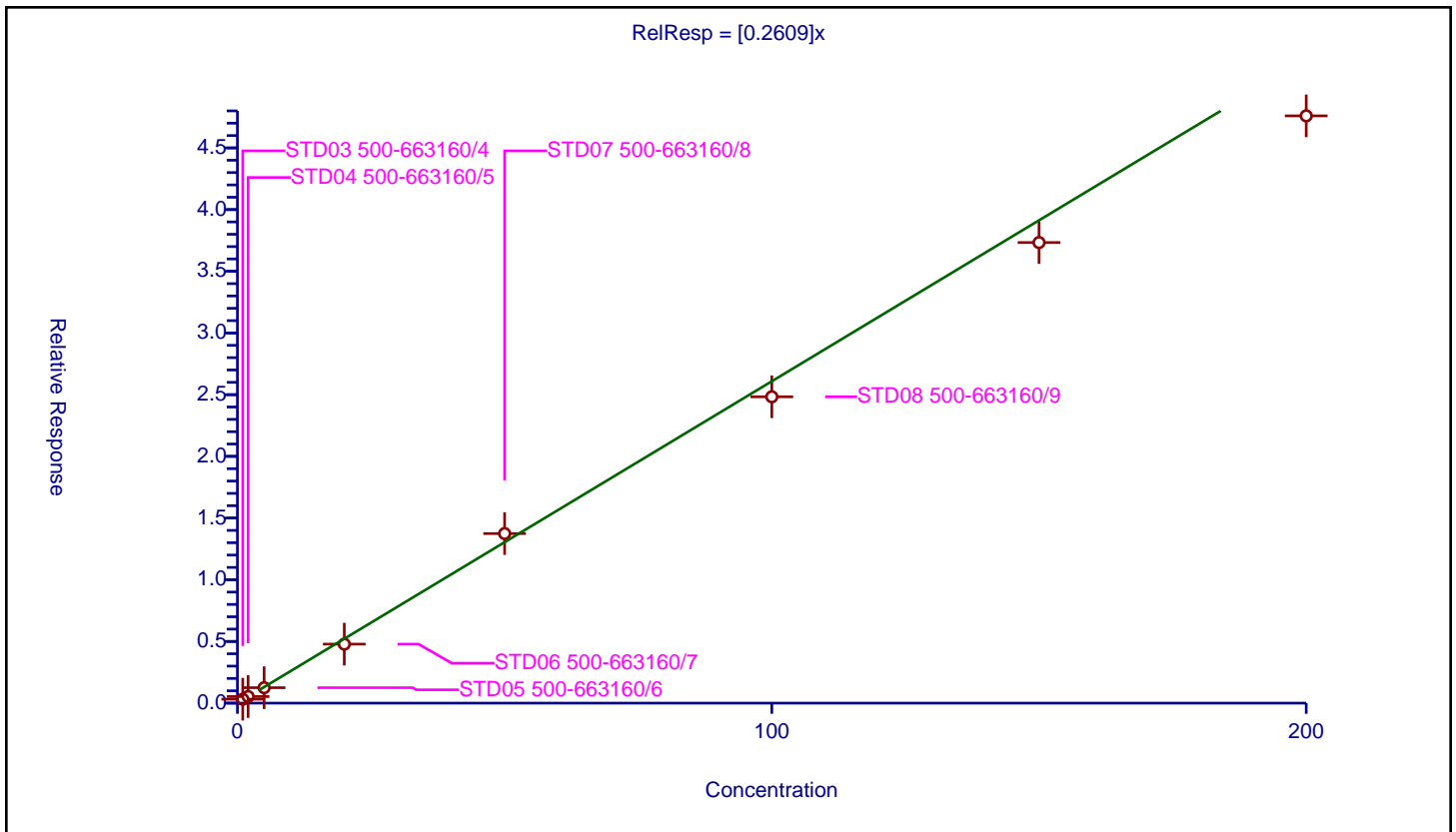
/ 1,1,2-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2609

Error Coefficients	
Standard Error:	292000
Relative Standard Error:	10.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.319927	50.0	445883.0	0.319927	Y
2	STD04 500-663160/5	2.0	0.535024	50.0	449886.0	0.267512	Y
3	STD05 500-663160/6	5.0	1.25193	50.0	452741.0	0.250386	Y
4	STD06 500-663160/7	20.0	4.781685	50.0	463665.0	0.239084	Y
5	STD07 500-663160/8	50.0	13.742859	50.0	483633.0	0.274857	Y
6	STD08 500-663160/9	100.0	24.829339	50.0	516081.0	0.248293	Y
7	STD09 500-663160/10	150.0	37.329611	50.0	562611.0	0.248864	Y
8	STD010 500-663160/11	200.0	47.595934	50.0	608802.0	0.23798	Y



Calibration

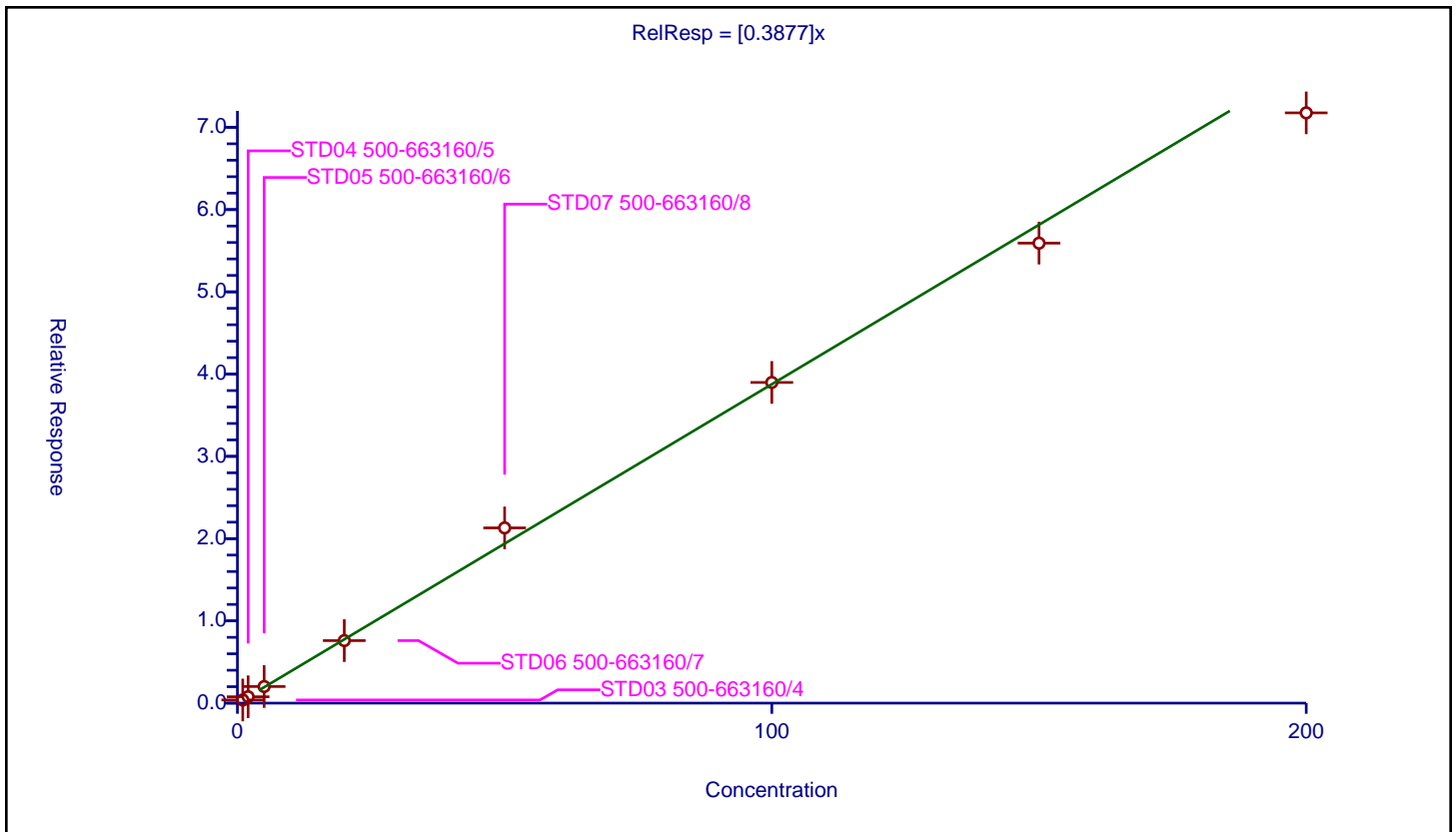
/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3877

Error Coefficients	
Standard Error:	442000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.382051	50.0	445883.0	0.382051	Y
2	STD04 500-663160/5	2.0	0.776752	50.0	449886.0	0.388376	Y
3	STD05 500-663160/6	5.0	2.01771	50.0	452741.0	0.403542	Y
4	STD06 500-663160/7	20.0	7.601285	50.0	463665.0	0.380064	Y
5	STD07 500-663160/8	50.0	21.303033	50.0	483633.0	0.426061	Y
6	STD08 500-663160/9	100.0	38.984869	50.0	516081.0	0.389849	Y
7	STD09 500-663160/10	150.0	55.921587	50.0	562611.0	0.372811	Y
8	STD010 500-663160/11	200.0	71.761427	50.0	608802.0	0.358807	Y



Calibration

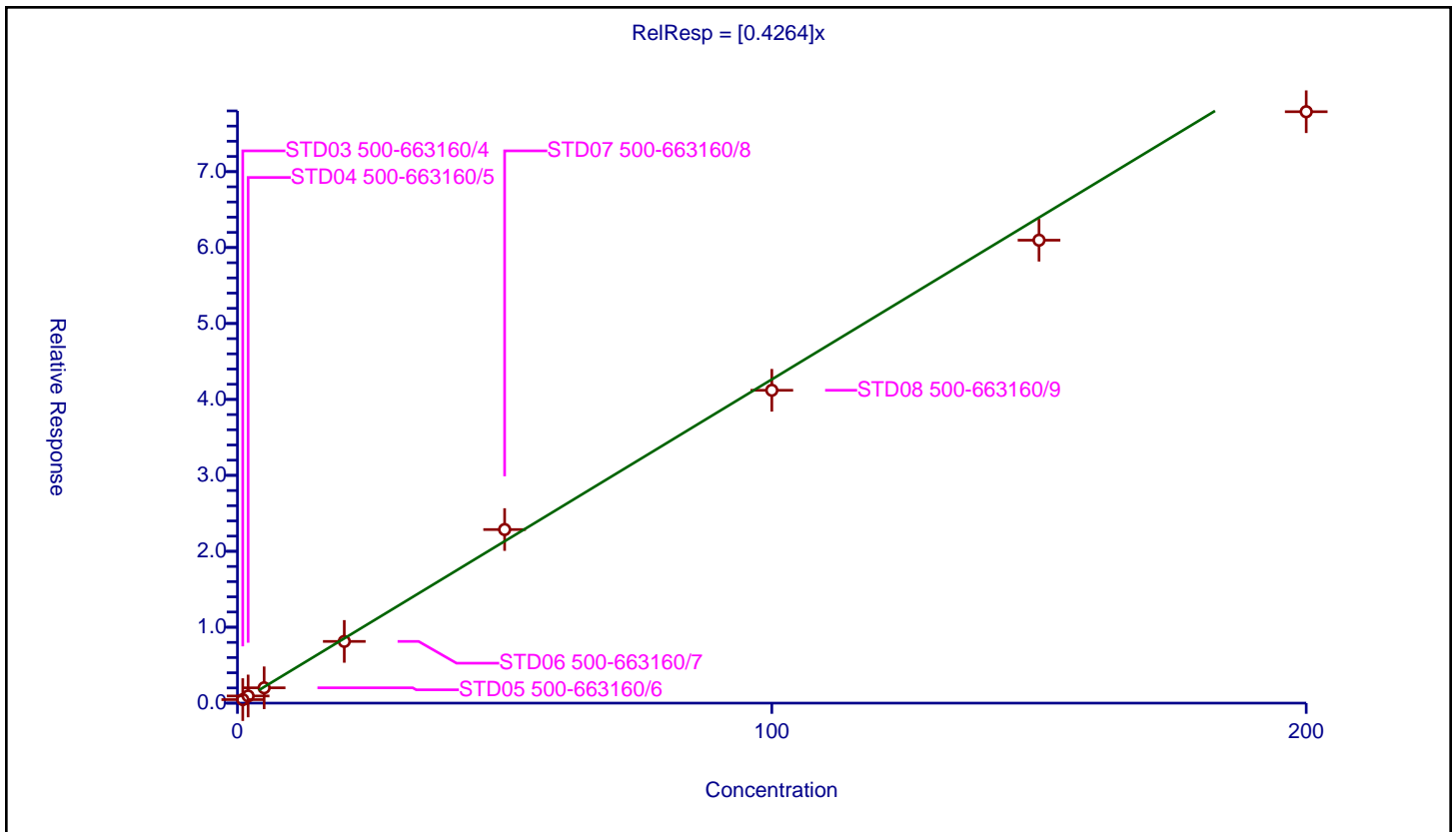
/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4264

Error Coefficients	
Standard Error:	479000
Relative Standard Error:	7.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.465257	50.0	445883.0	0.465257	Y
2	STD04 500-663160/5	2.0	0.941127	50.0	449886.0	0.470564	Y
3	STD05 500-663160/6	5.0	2.017268	50.0	452741.0	0.403454	Y
4	STD06 500-663160/7	20.0	8.128606	50.0	463665.0	0.40643	Y
5	STD07 500-663160/8	50.0	22.860516	50.0	483633.0	0.45721	Y
6	STD08 500-663160/9	100.0	41.20361	50.0	516081.0	0.412036	Y
7	STD09 500-663160/10	150.0	60.970191	50.0	562611.0	0.406468	Y
8	STD010 500-663160/11	200.0	77.892895	50.0	608802.0	0.389464	Y



Calibration

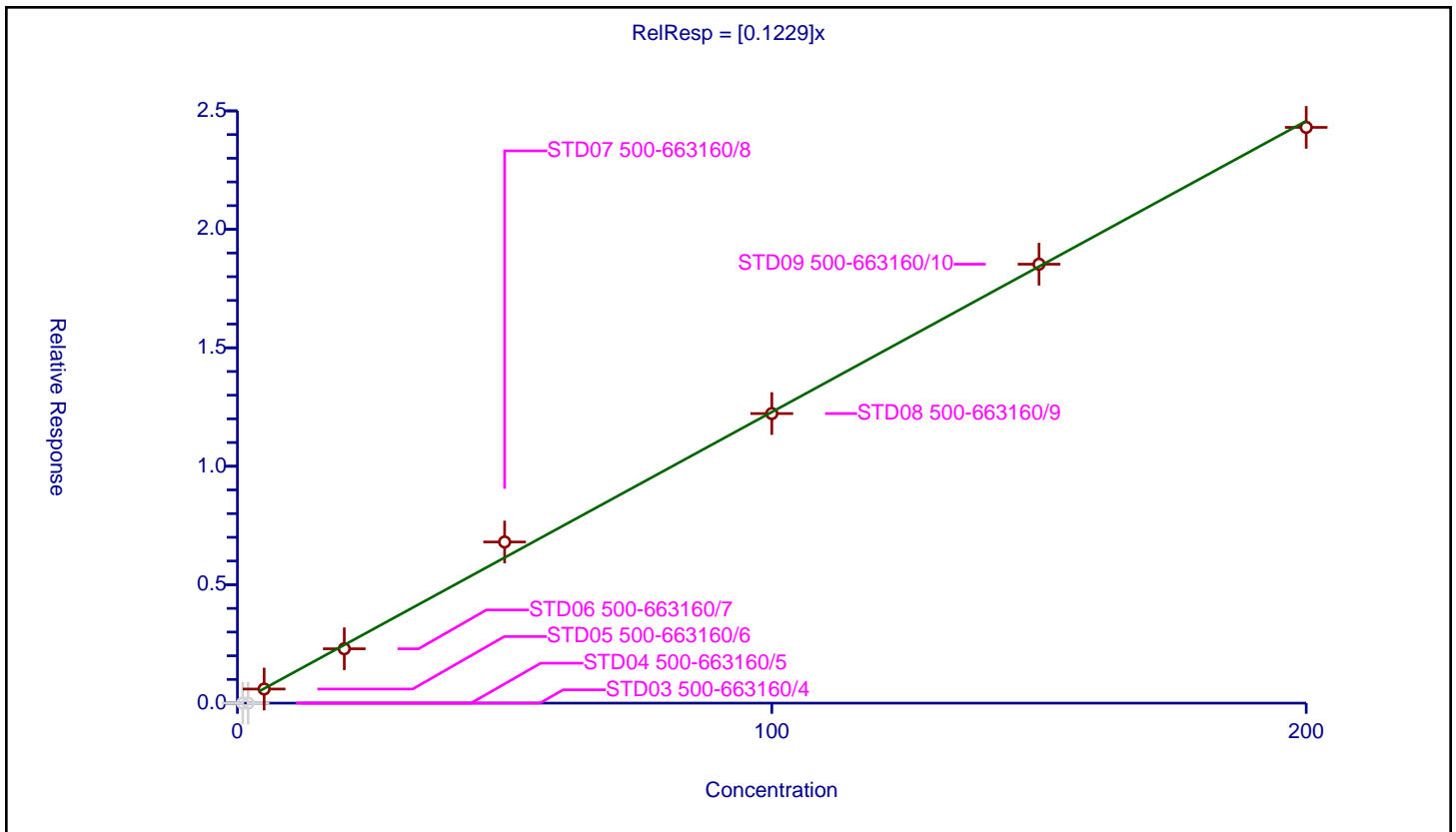
/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1229

Error Coefficients	
Standard Error:	174000
Relative Standard Error:	5.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	445883.0	0.0	N
2	STD04 500-663160/5	2.0	0.0	50.0	449886.0	0.0	N
3	STD05 500-663160/6	5.0	0.595705	50.0	452741.0	0.119141	Y
4	STD06 500-663160/7	20.0	2.294437	50.0	463665.0	0.114722	Y
5	STD07 500-663160/8	50.0	6.802989	50.0	483633.0	0.13606	Y
6	STD08 500-663160/9	100.0	12.22405	50.0	516081.0	0.122241	Y
7	STD09 500-663160/10	150.0	18.528966	50.0	562611.0	0.123526	Y
8	STD010 500-663160/11	200.0	24.304618	50.0	608802.0	0.121523	Y



Calibration

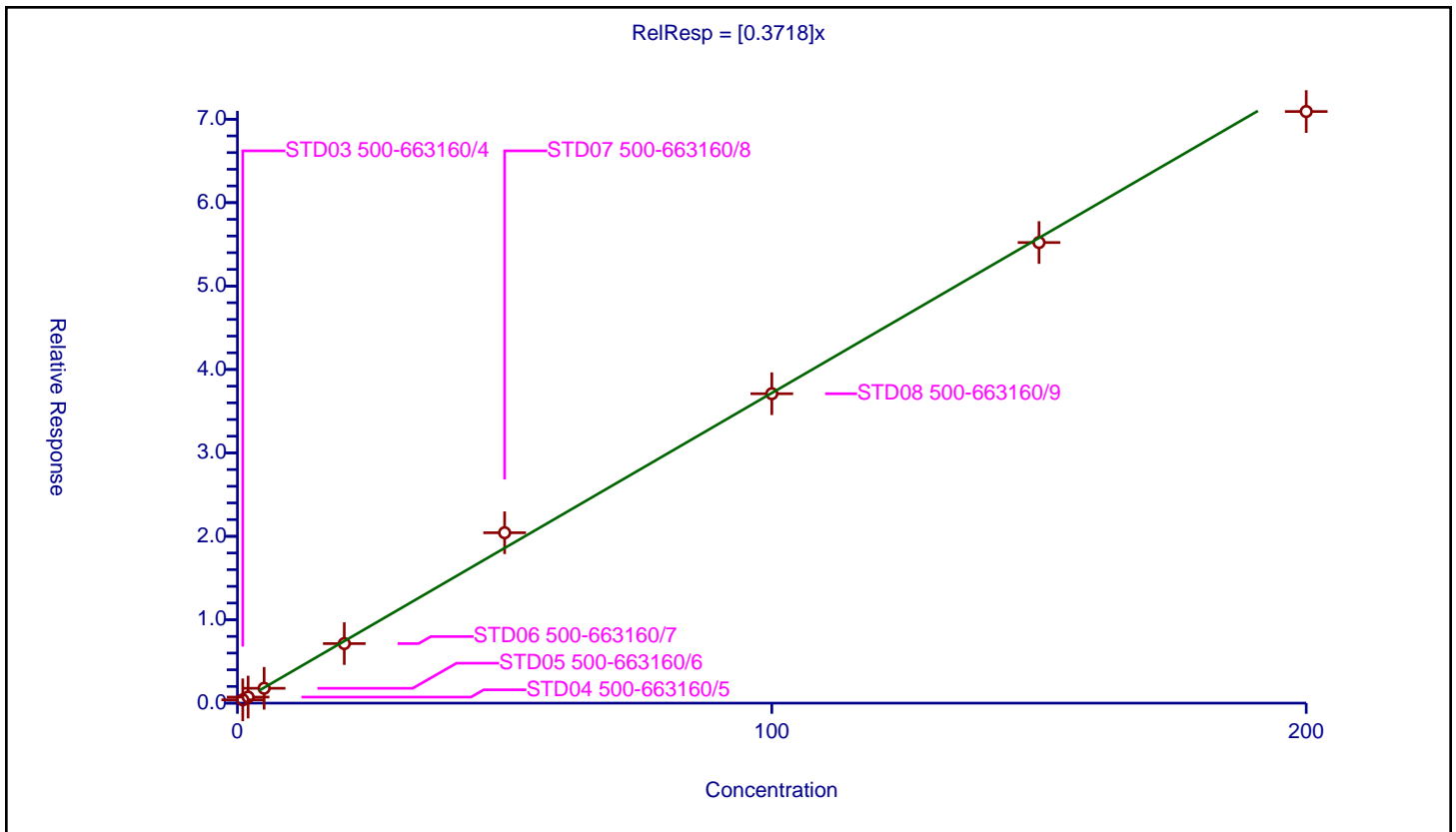
/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3718

Error Coefficients	
Standard Error:	435000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.395956	50.0	445883.0	0.395956	Y
2	STD04 500-663160/5	2.0	0.726073	50.0	449886.0	0.363036	Y
3	STD05 500-663160/6	5.0	1.781593	50.0	452741.0	0.356319	Y
4	STD06 500-663160/7	20.0	7.137481	50.0	463665.0	0.356874	Y
5	STD07 500-663160/8	50.0	20.425405	50.0	483633.0	0.408508	Y
6	STD08 500-663160/9	100.0	37.09253	50.0	516081.0	0.370925	Y
7	STD09 500-663160/10	150.0	55.21737	50.0	562611.0	0.368116	Y
8	STD010 500-663160/11	200.0	70.924537	50.0	608802.0	0.354623	Y



Calibration

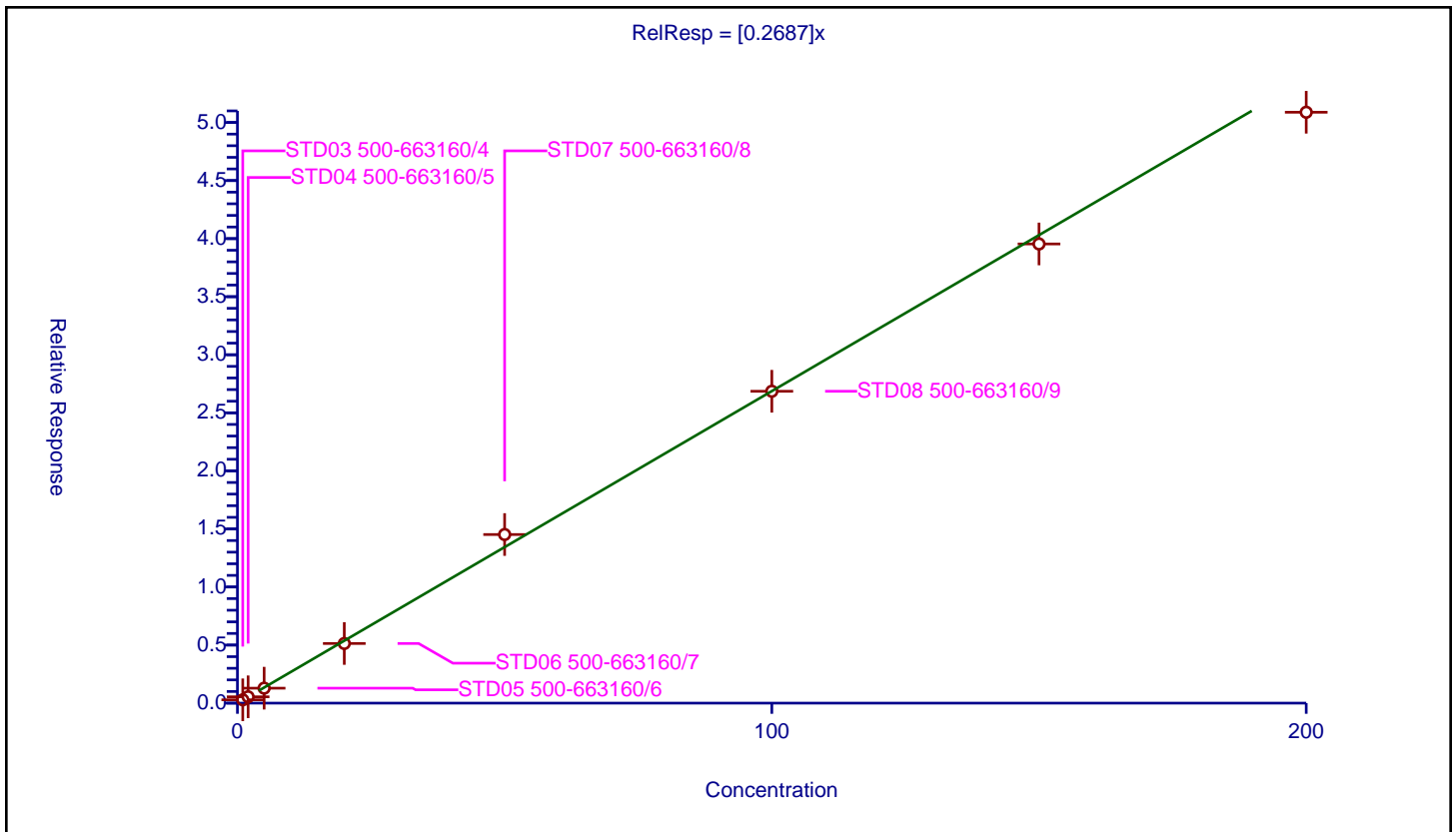
/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2687

Error Coefficients	
Standard Error:	312000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.285949	50.0	445883.0	0.285949	Y
2	STD04 500-663160/5	2.0	0.544138	50.0	449886.0	0.272069	Y
3	STD05 500-663160/6	5.0	1.288927	50.0	452741.0	0.257785	Y
4	STD06 500-663160/7	20.0	5.135389	50.0	463665.0	0.256769	Y
5	STD07 500-663160/8	50.0	14.518343	50.0	483633.0	0.290367	Y
6	STD08 500-663160/9	100.0	26.856346	50.0	516081.0	0.268563	Y
7	STD09 500-663160/10	150.0	39.541708	50.0	562611.0	0.263611	Y
8	STD010 500-663160/11	200.0	50.883949	50.0	608802.0	0.25442	Y



Calibration

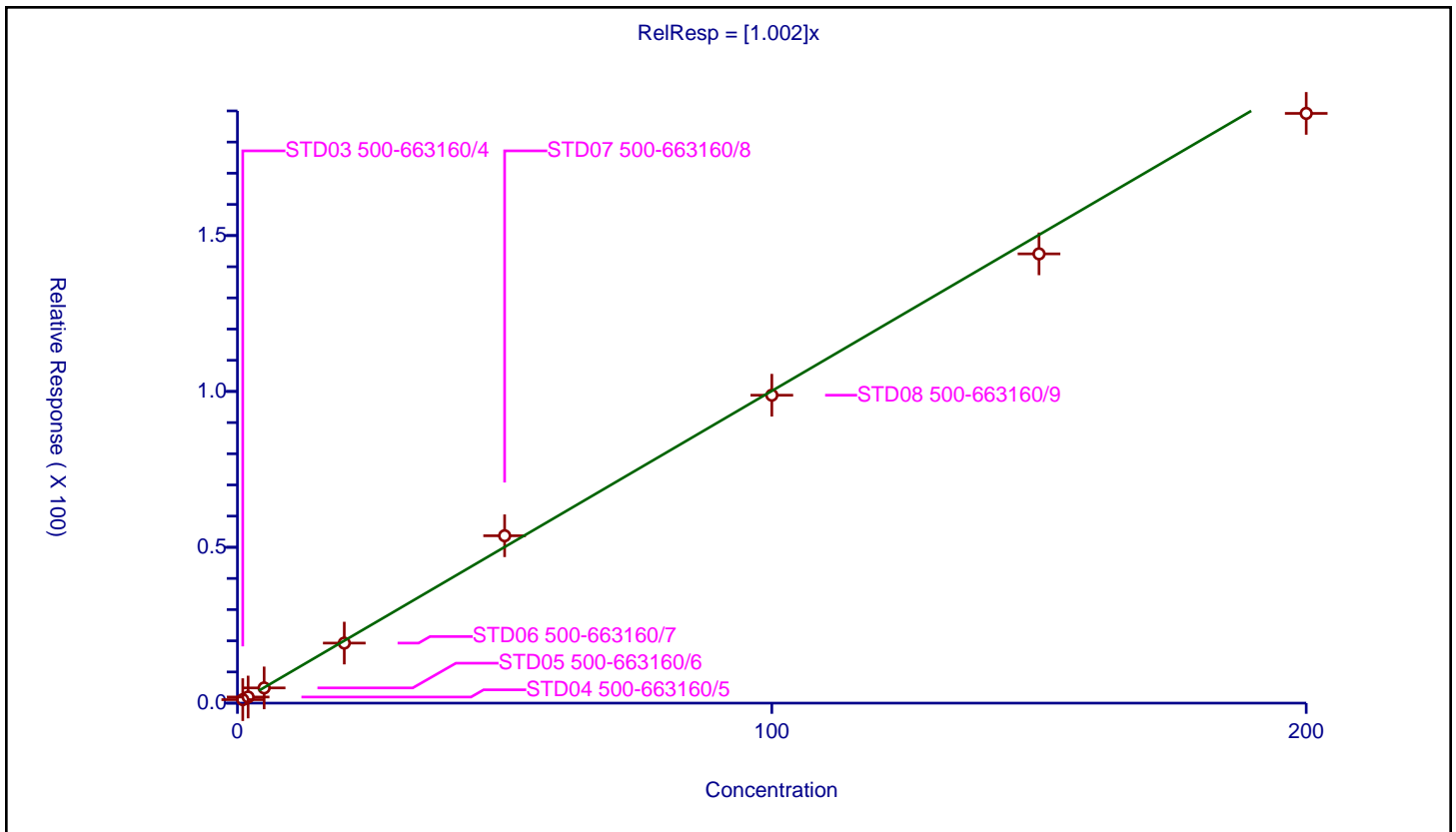
/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.002

Error Coefficients	
Standard Error:	1150000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.122155	50.0	445883.0	1.122155	Y
2	STD04 500-663160/5	2.0	1.962275	50.0	449886.0	0.981137	Y
3	STD05 500-663160/6	5.0	4.885243	50.0	452741.0	0.977049	Y
4	STD06 500-663160/7	20.0	19.260242	50.0	463665.0	0.963012	Y
5	STD07 500-663160/8	50.0	53.701981	50.0	483633.0	1.07404	Y
6	STD08 500-663160/9	100.0	98.788175	50.0	516081.0	0.987882	Y
7	STD09 500-663160/10	150.0	144.131558	50.0	562611.0	0.960877	Y
8	STD010 500-663160/11	200.0	189.194106	50.0	608802.0	0.945971	Y



Calibration

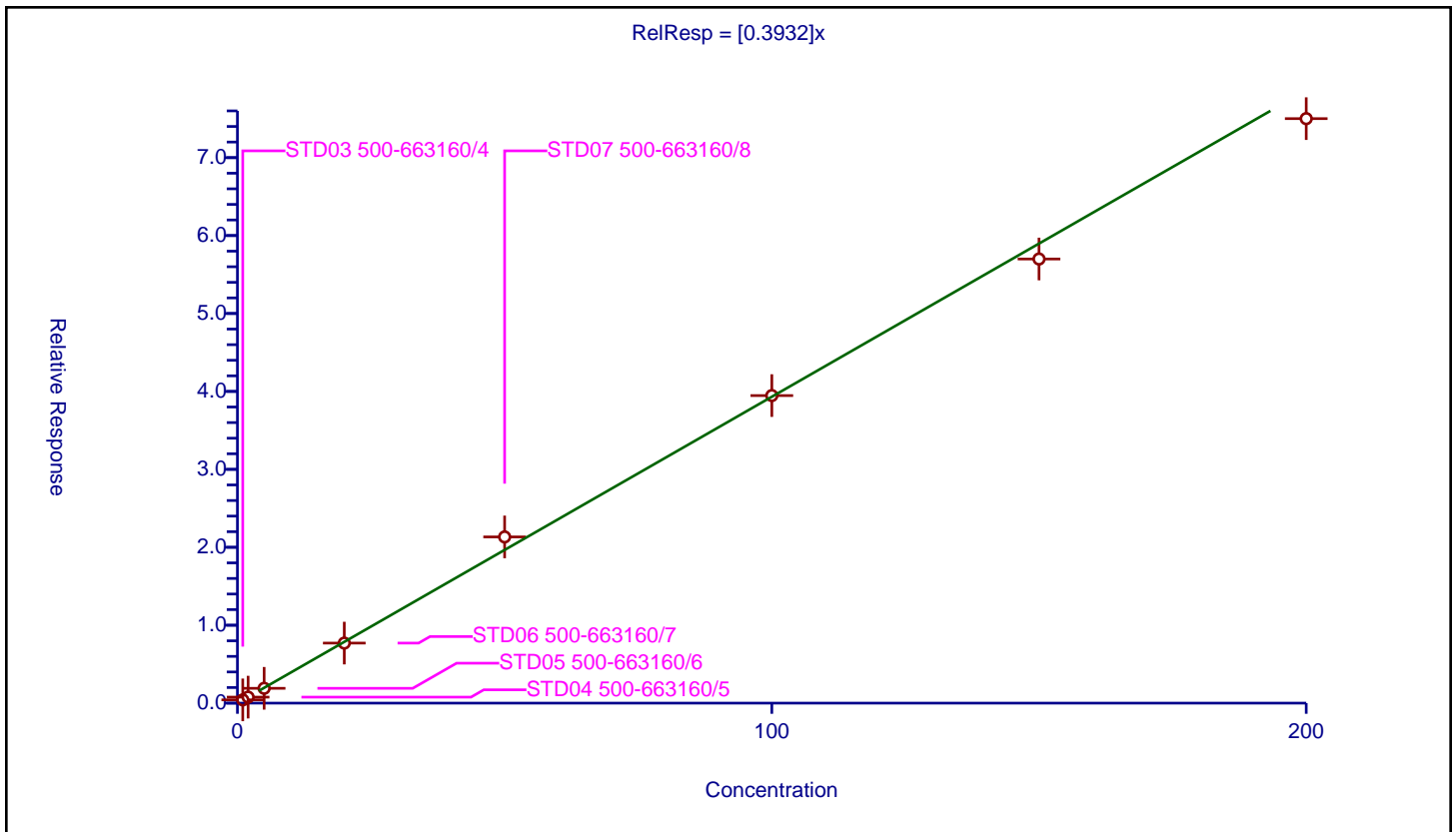
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3932

Error Coefficients	
Standard Error:	457000
Relative Standard Error:	4.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.417823	50.0	445883.0	0.417823	Y
2	STD04 500-663160/5	2.0	0.77064	50.0	449886.0	0.38532	Y
3	STD05 500-663160/6	5.0	1.903406	50.0	452741.0	0.380681	Y
4	STD06 500-663160/7	20.0	7.704161	50.0	463665.0	0.385208	Y
5	STD07 500-663160/8	50.0	21.327432	50.0	483633.0	0.426549	Y
6	STD08 500-663160/9	100.0	39.467642	50.0	516081.0	0.394676	Y
7	STD09 500-663160/10	150.0	56.993553	50.0	562611.0	0.379957	Y
8	STD010 500-663160/11	200.0	75.005092	50.0	608802.0	0.375025	Y



Calibration

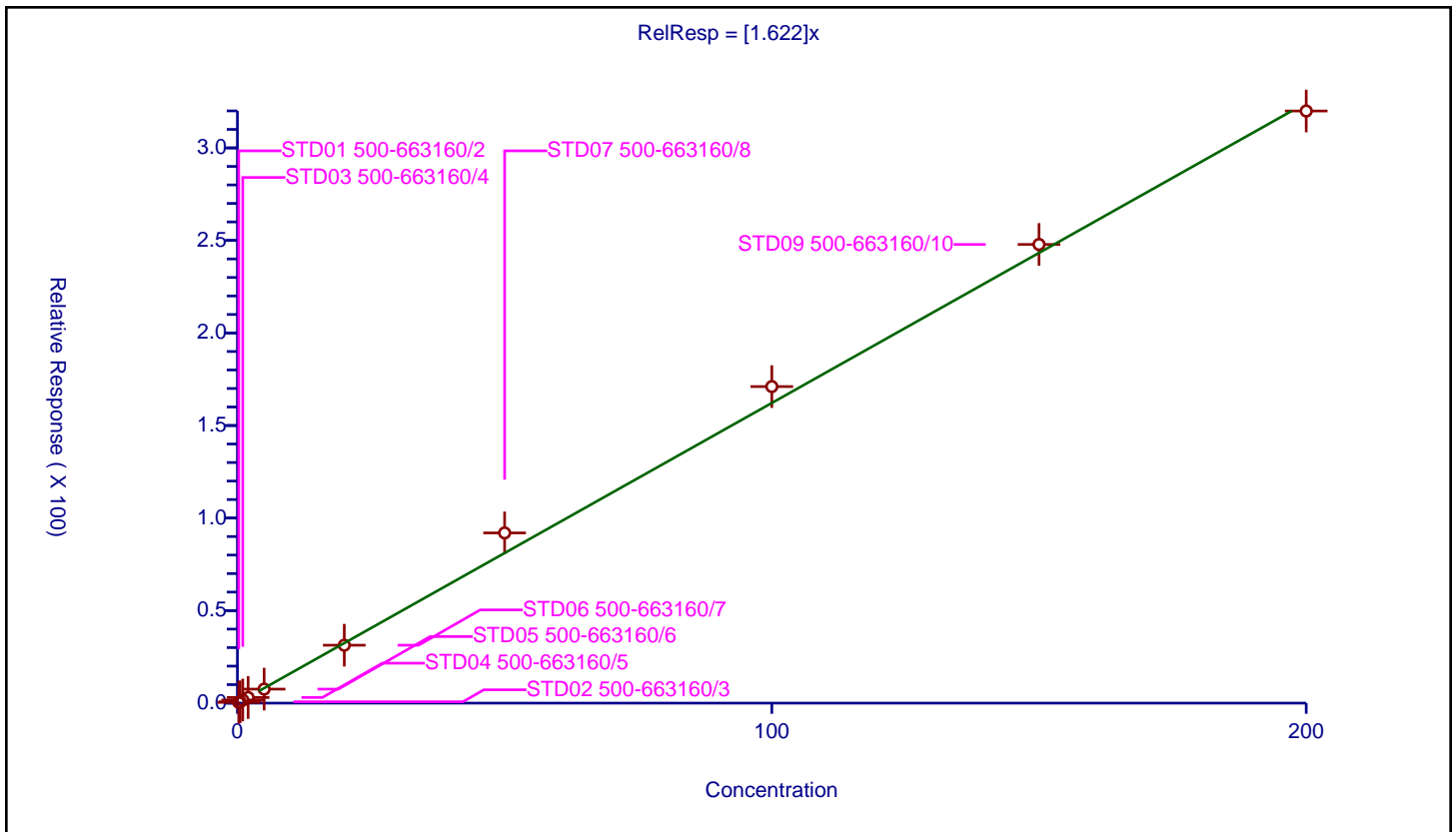
/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.622

Error Coefficients	
Standard Error:	1730000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.408377	50.0	413956.0	1.633507	Y
2	STD02 500-663160/3	0.5	0.7469	50.0	426898.0	1.493799	Y
3	STD03 500-663160/4	1.0	1.685195	50.0	445883.0	1.685195	Y
4	STD04 500-663160/5	2.0	3.046994	50.0	449886.0	1.523497	Y
5	STD05 500-663160/6	5.0	7.578616	50.0	452741.0	1.515723	Y
6	STD06 500-663160/7	20.0	31.288538	50.0	463665.0	1.564427	Y
7	STD07 500-663160/8	50.0	91.968704	50.0	483633.0	1.839374	Y
8	STD08 500-663160/9	100.0	171.048343	50.0	516081.0	1.710483	Y
9	STD09 500-663160/10	150.0	247.832339	50.0	562611.0	1.652216	Y
10	STD010 500-663160/11	200.0	319.947536	50.0	608802.0	1.599738	Y



Calibration

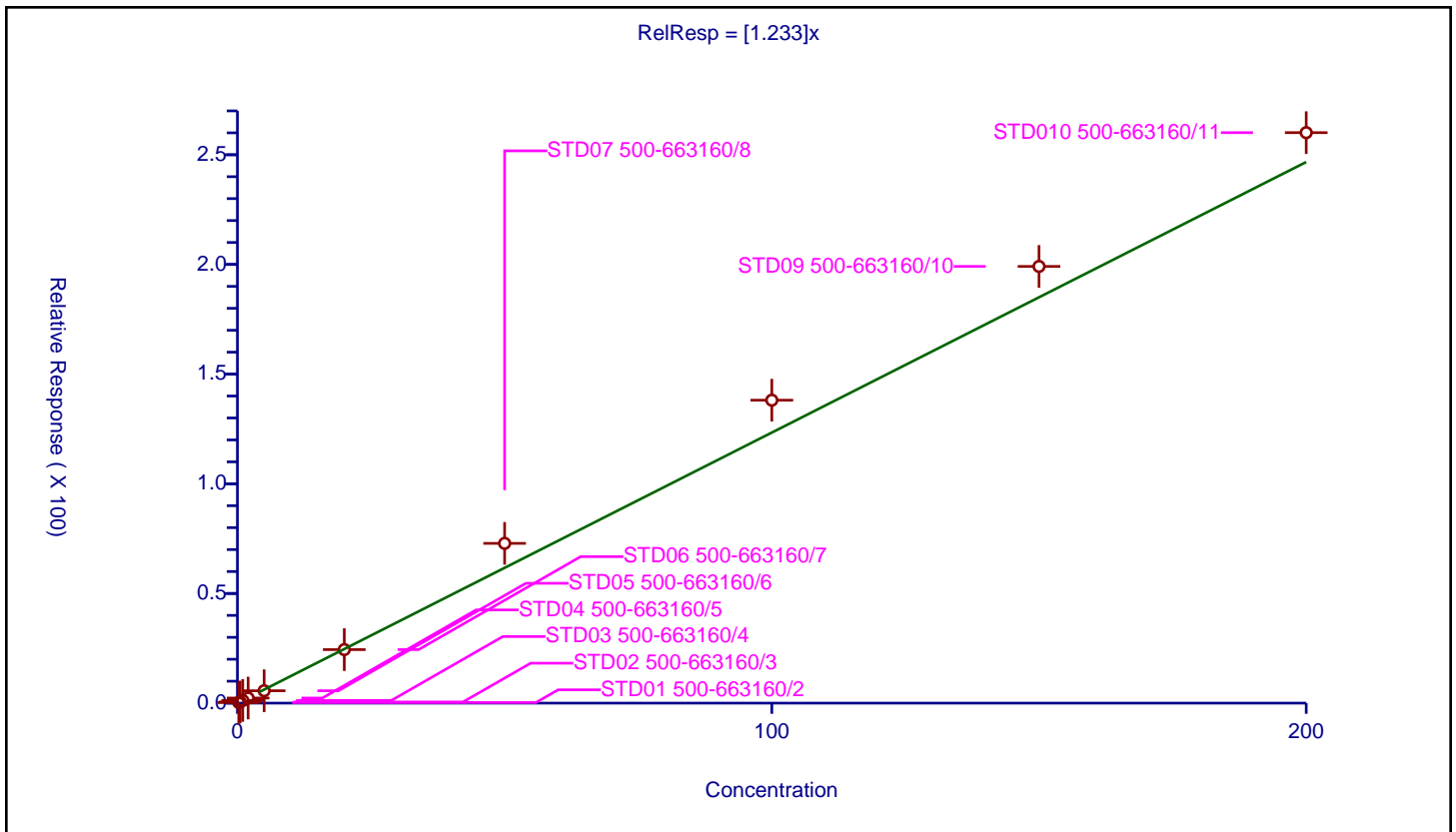
/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.233

Error Coefficients	
Standard Error:	1400000
Relative Standard Error:	10.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.272372	50.0	413956.0	1.089488	Y
2	STD02 500-663160/3	0.5	0.522139	50.0	426898.0	1.044278	Y
3	STD03 500-663160/4	1.0	1.223527	50.0	445883.0	1.223527	Y
4	STD04 500-663160/5	2.0	2.326589	50.0	449886.0	1.163295	Y
5	STD05 500-663160/6	5.0	5.640974	50.0	452741.0	1.128195	Y
6	STD06 500-663160/7	20.0	24.402963	50.0	463665.0	1.220148	Y
7	STD07 500-663160/8	50.0	72.837151	50.0	483633.0	1.456743	Y
8	STD08 500-663160/9	100.0	138.114075	50.0	516081.0	1.381141	Y
9	STD09 500-663160/10	150.0	199.091824	50.0	562611.0	1.327279	Y
10	STD010 500-663160/11	200.0	260.079057	50.0	608802.0	1.300395	Y



Calibration

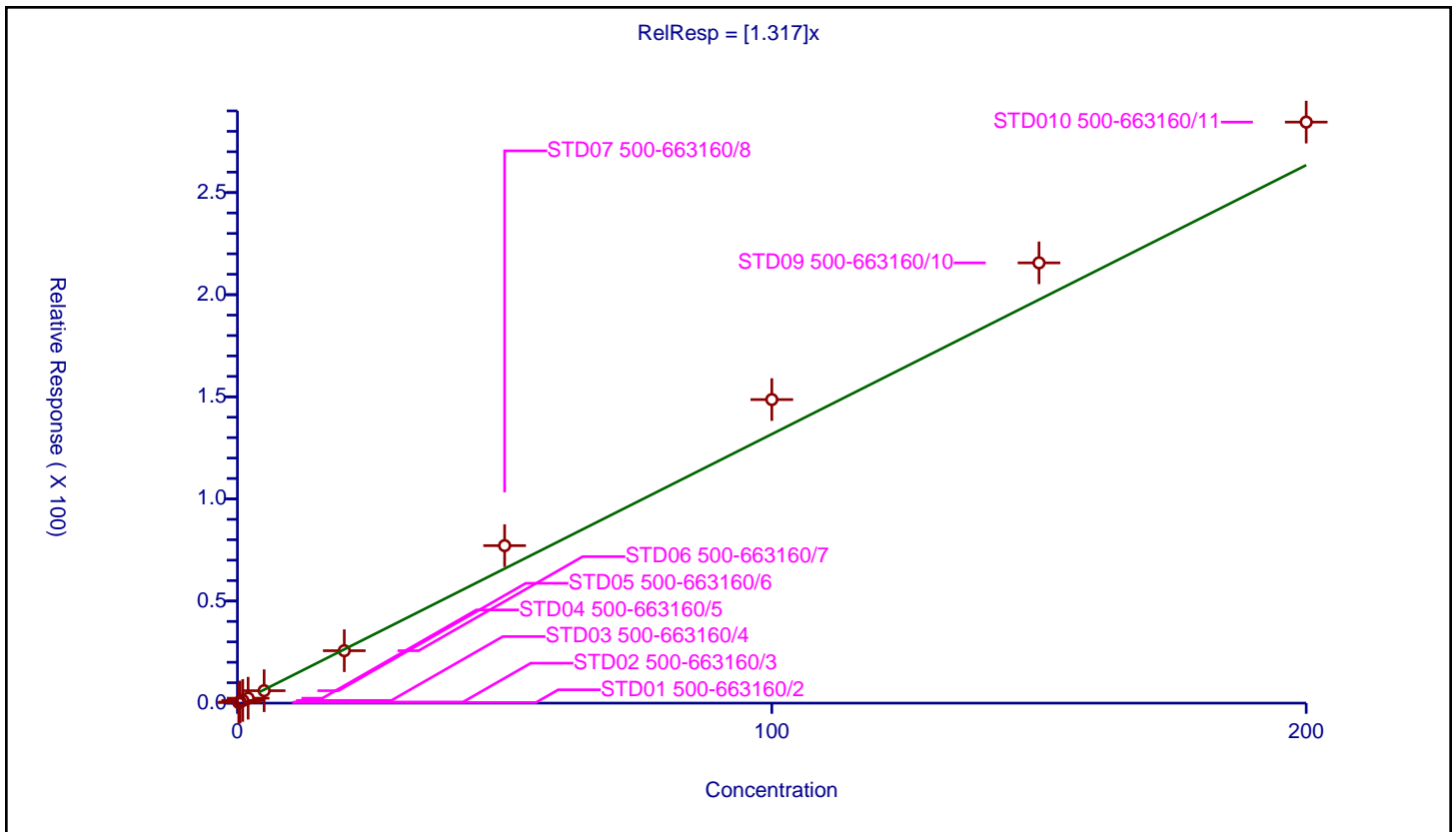
/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.317

Error Coefficients	
Standard Error:	1520000
Relative Standard Error:	11.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD01 500-663160/2	0.25	0.298824	50.0	413956.0	1.195296	Y
2	STD02 500-663160/3	0.5	0.538536	50.0	426898.0	1.077072	Y
3	STD03 500-663160/4	1.0	1.305499	50.0	445883.0	1.305499	Y
4	STD04 500-663160/5	2.0	2.409277	50.0	449886.0	1.204639	Y
5	STD05 500-663160/6	5.0	6.084494	50.0	452741.0	1.216899	Y
6	STD06 500-663160/7	20.0	25.666807	50.0	463665.0	1.28334	Y
7	STD07 500-663160/8	50.0	77.126147	50.0	483633.0	1.542523	Y
8	STD08 500-663160/9	100.0	148.637036	50.0	516081.0	1.48637	Y
9	STD09 500-663160/10	150.0	215.584302	50.0	562611.0	1.437229	Y
10	STD010 500-663160/11	200.0	284.51237	50.0	608802.0	1.422562	Y



Calibration

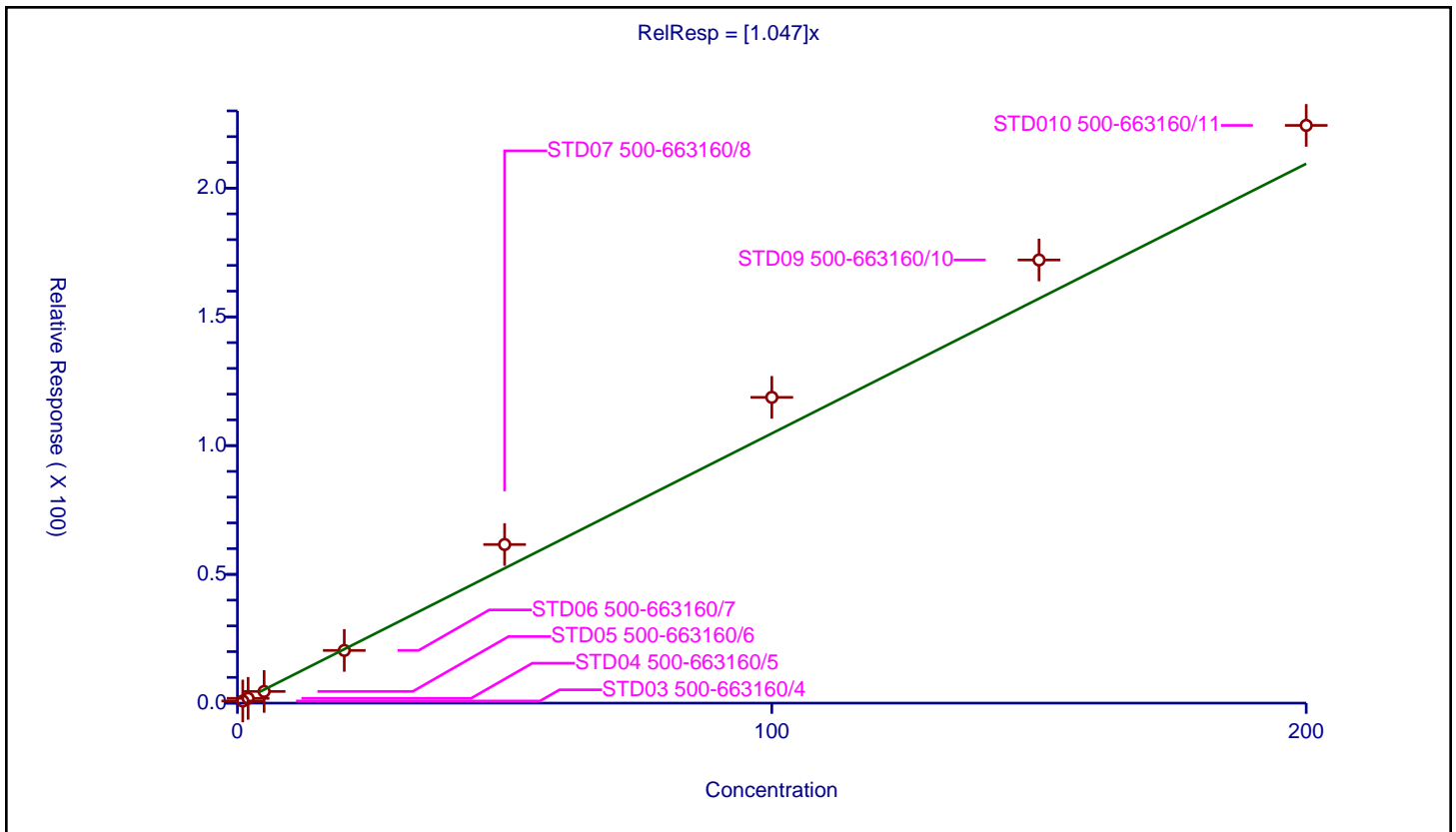
/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.047

Error Coefficients	
Standard Error:	1370000
Relative Standard Error:	14.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.833739	50.0	445883.0	0.833739	Y
2	STD04 500-663160/5	2.0	1.852914	50.0	449886.0	0.926457	Y
3	STD05 500-663160/6	5.0	4.536037	50.0	452741.0	0.907207	Y
4	STD06 500-663160/7	20.0	20.463589	50.0	463665.0	1.023179	Y
5	STD07 500-663160/8	50.0	61.601772	50.0	483633.0	1.232035	Y
6	STD08 500-663160/9	100.0	118.74822	50.0	516081.0	1.187482	Y
7	STD09 500-663160/10	150.0	172.100617	50.0	562611.0	1.147337	Y
8	STD010 500-663160/11	200.0	224.359726	50.0	608802.0	1.121799	Y



Calibration

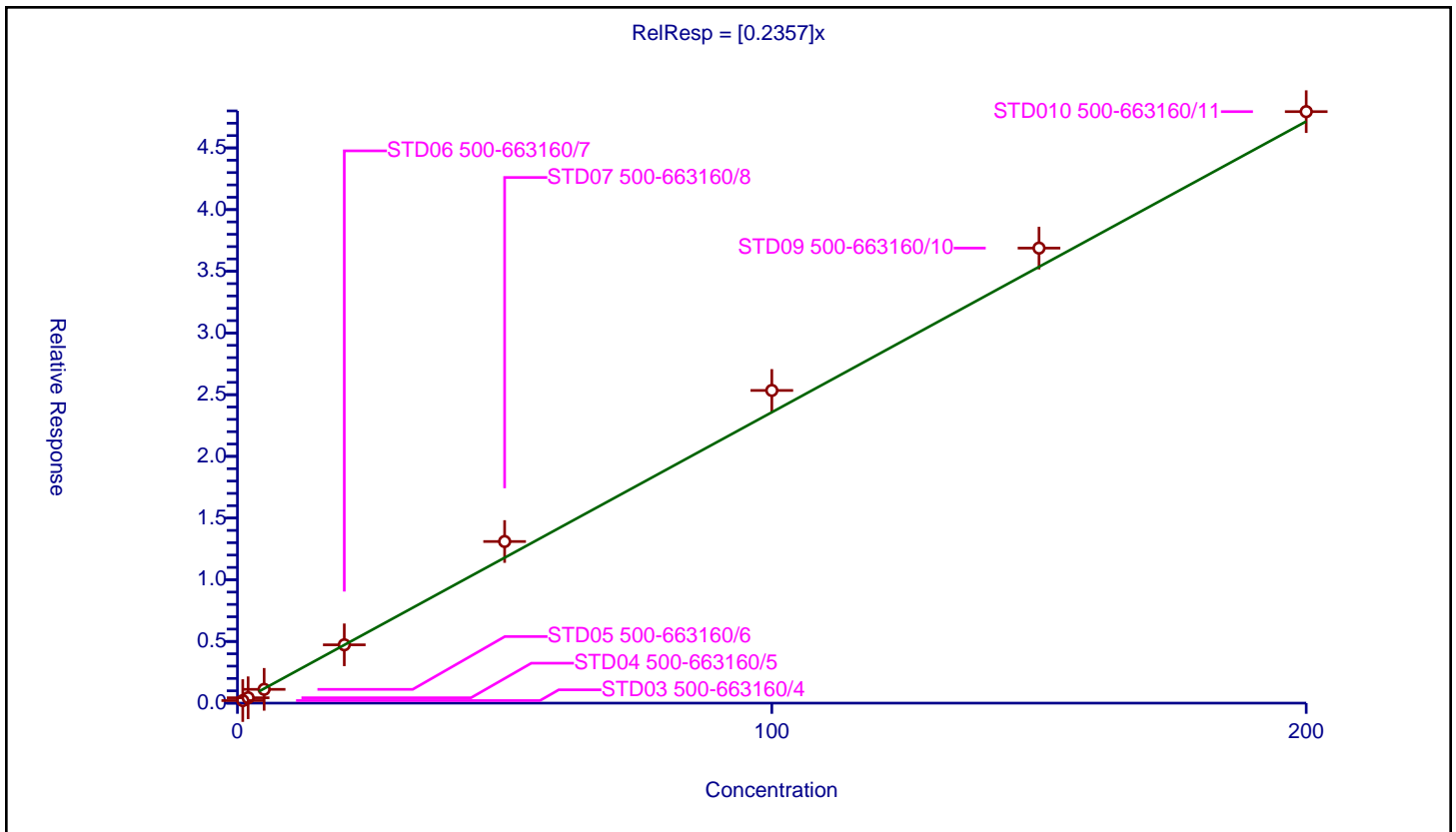
/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2357

Error Coefficients	
Standard Error:	293000
Relative Standard Error:	7.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.207566	50.0	445883.0	0.207566	Y
2	STD04 500-663160/5	2.0	0.435555	50.0	449886.0	0.217777	Y
3	STD05 500-663160/6	5.0	1.116201	50.0	452741.0	0.22324	Y
4	STD06 500-663160/7	20.0	4.725826	50.0	463665.0	0.236291	Y
5	STD07 500-663160/8	50.0	13.099499	50.0	483633.0	0.26199	Y
6	STD08 500-663160/9	100.0	25.342437	50.0	516081.0	0.253424	Y
7	STD09 500-663160/10	150.0	36.879567	50.0	562611.0	0.245864	Y
8	STD010 500-663160/11	200.0	47.939724	50.0	608802.0	0.239699	Y



Calibration

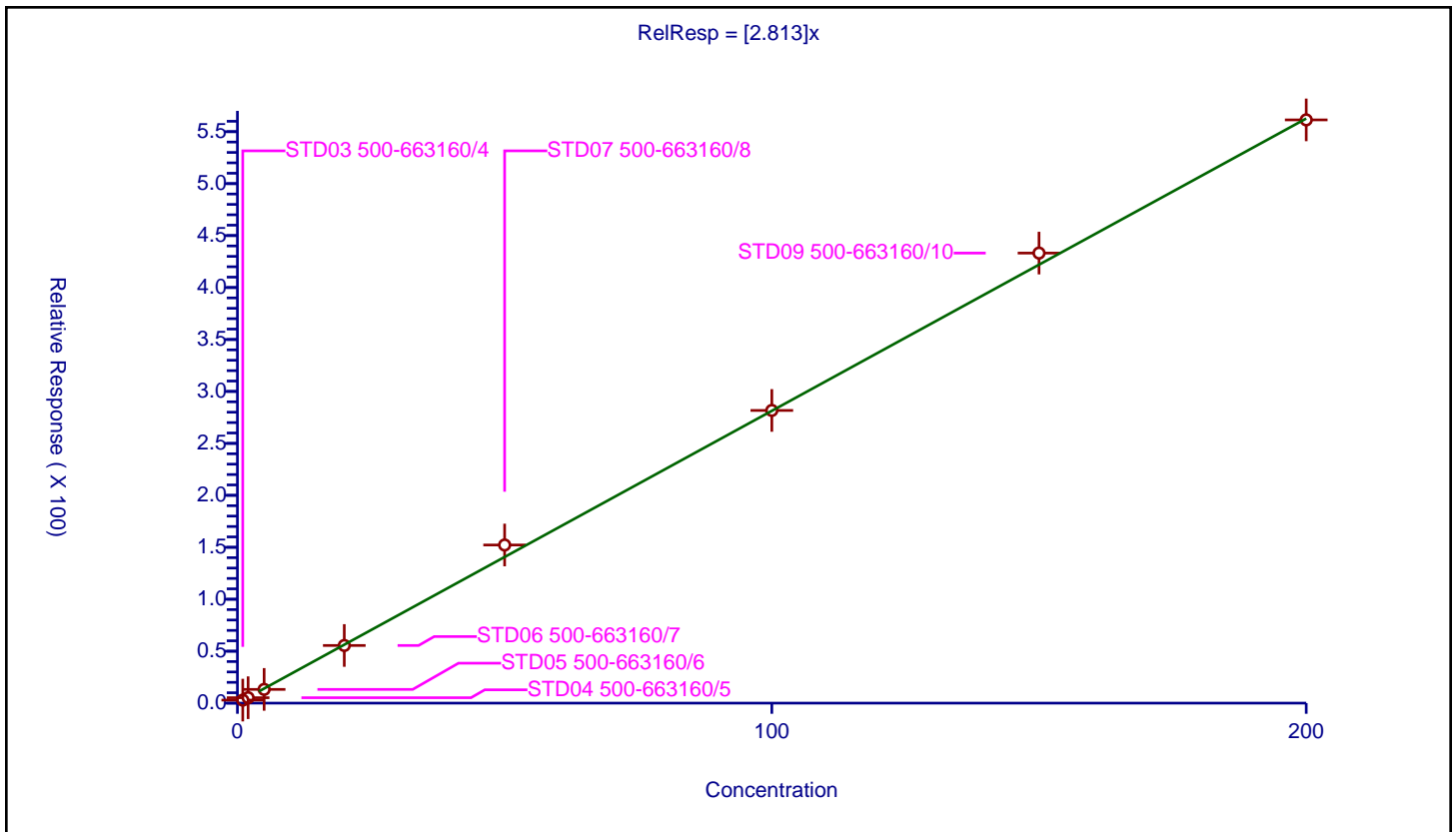
/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.813

Error Coefficients	
Standard Error:	2240000
Relative Standard Error:	5.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.921309	50.0	246636.0	2.921309	Y
2	STD04 500-663160/5	2.0	5.220452	50.0	256654.0	2.610226	Y
3	STD05 500-663160/6	5.0	13.225085	50.0	259866.0	2.645017	Y
4	STD06 500-663160/7	20.0	55.4728	50.0	280679.0	2.77364	Y
5	STD07 500-663160/8	50.0	152.204667	50.0	315263.0	3.044093	Y
6	STD08 500-663160/9	100.0	281.703899	50.0	353906.0	2.817039	Y
7	STD09 500-663160/10	150.0	433.141758	50.0	366696.0	2.887612	Y
8	STD010 500-663160/11	200.0	561.345914	50.0	397804.0	2.80673	Y



Calibration

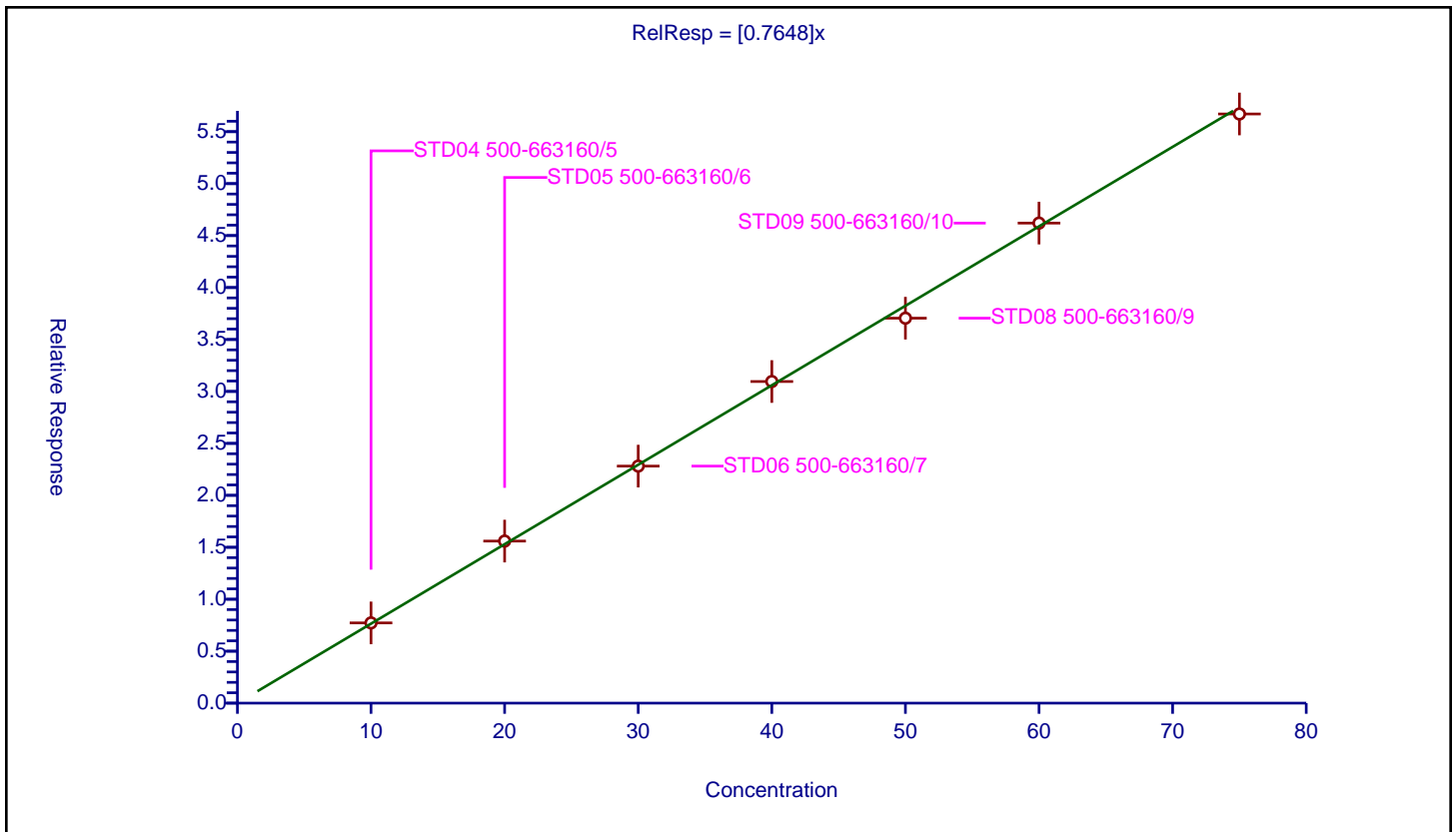
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7648

Error Coefficients	
Standard Error:	274000
Relative Standard Error:	1.7
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD04 500-663160/5	10.0	7.722849	50.0	256654.0	0.772285	Y
2	STD05 500-663160/6	20.0	15.5965	50.0	259866.0	0.779825	Y
3	STD06 500-663160/7	30.0	22.813606	50.0	280679.0	0.760454	Y
4	STD07 500-663160/8	40.0	30.953046	50.0	315263.0	0.773826	Y
5	STD08 500-663160/9	50.0	37.048962	50.0	353906.0	0.740979	Y
6	STD09 500-663160/10	60.0	46.19944	50.0	366696.0	0.769991	Y
7	STD010 500-663160/11	75.0	56.702547	50.0	397804.0	0.756034	Y



Calibration

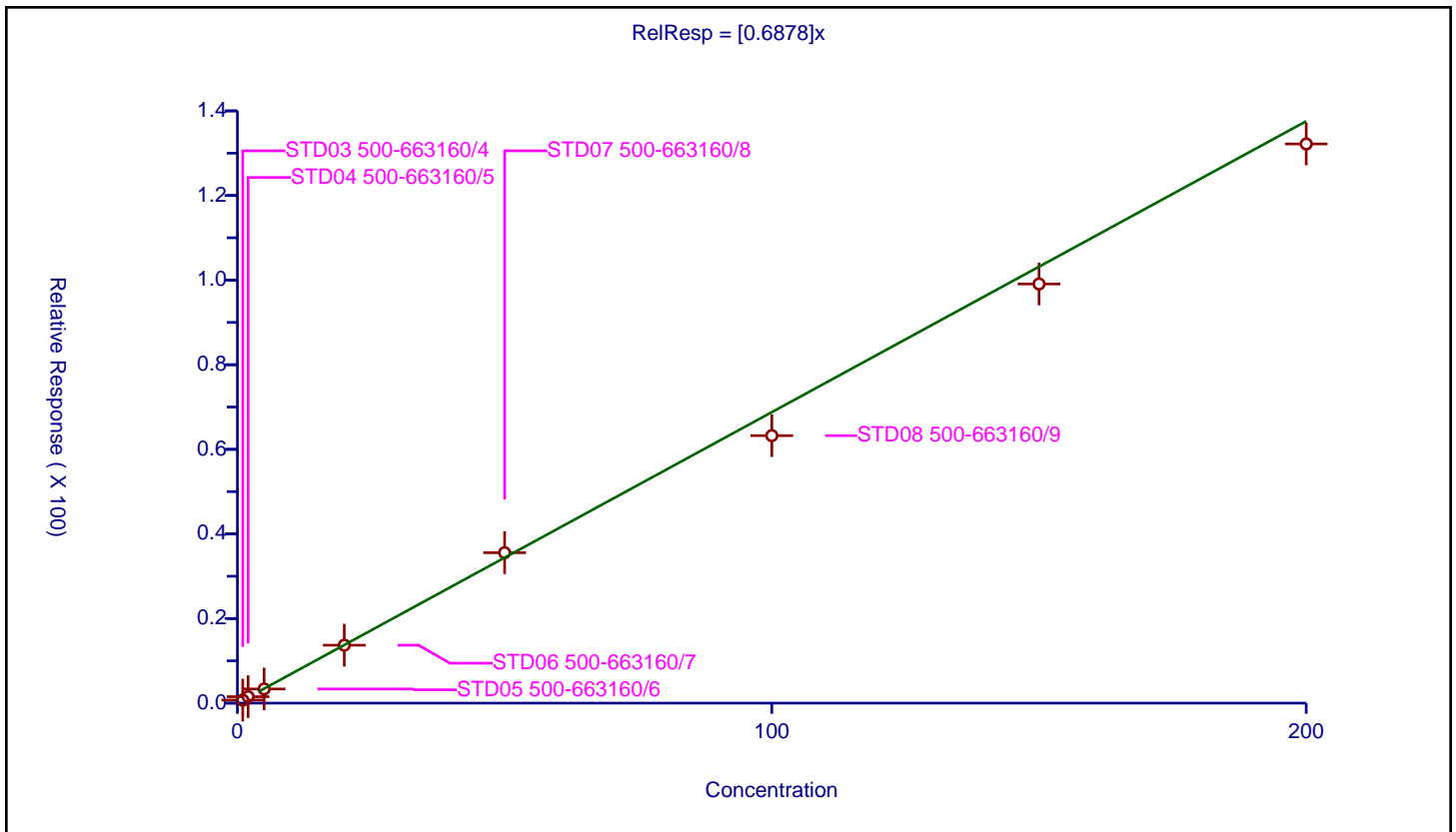
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6878

Error Coefficients	
Standard Error:	520000
Relative Standard Error:	6.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.718468	50.0	246636.0	0.718468	Y
2	STD04 500-663160/5	2.0	1.528517	50.0	256654.0	0.764258	Y
3	STD05 500-663160/6	5.0	3.348072	50.0	259866.0	0.669614	Y
4	STD06 500-663160/7	20.0	13.697142	50.0	280679.0	0.684857	Y
5	STD07 500-663160/8	50.0	35.564434	50.0	315263.0	0.711289	Y
6	STD08 500-663160/9	100.0	63.235859	50.0	353906.0	0.632359	Y
7	STD09 500-663160/10	150.0	99.084664	50.0	366696.0	0.660564	Y
8	STD010 500-663160/11	200.0	132.178535	50.0	397804.0	0.660893	Y



Calibration

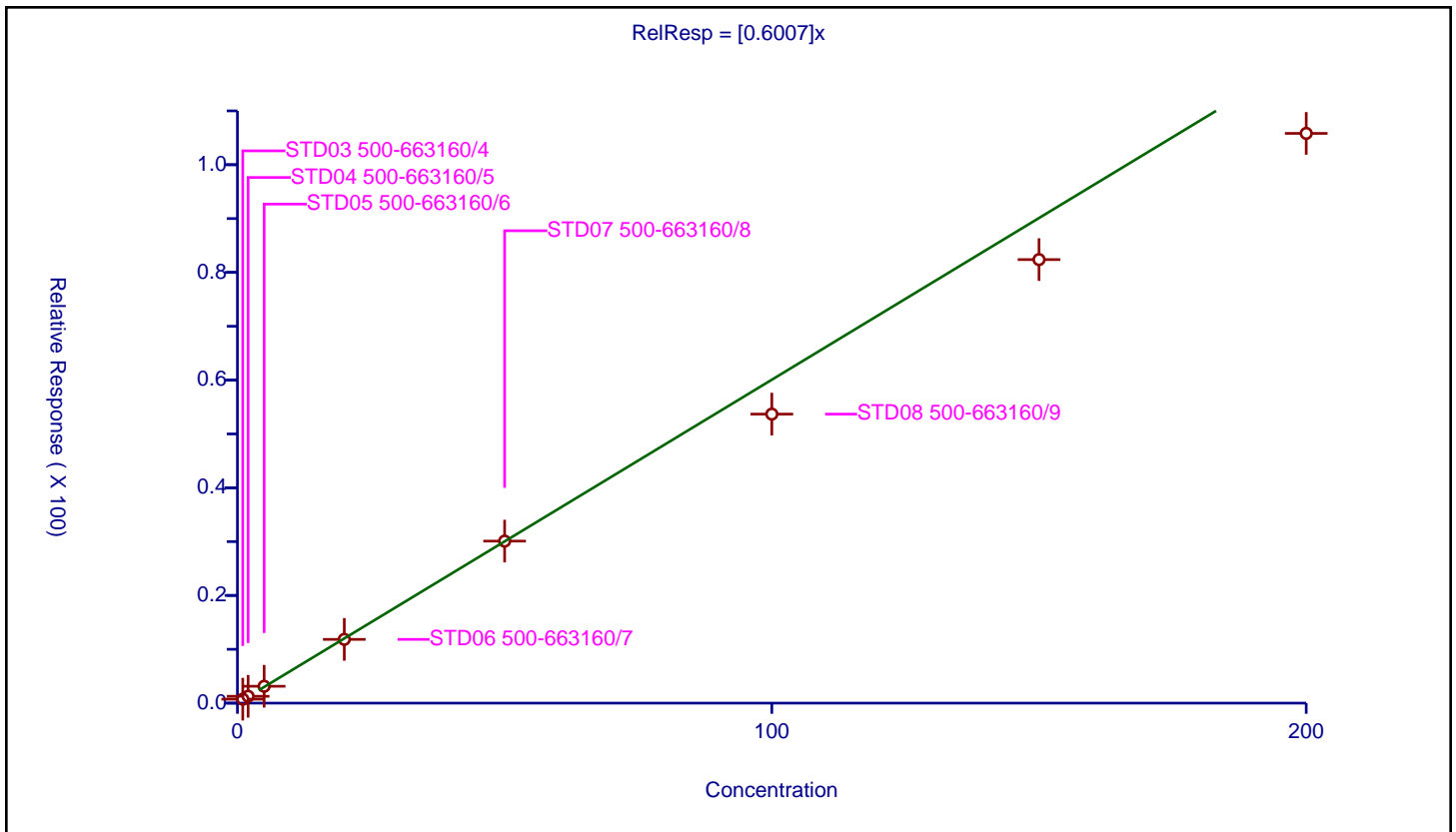
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6007

Error Coefficients	
Standard Error:	424000
Relative Standard Error:	11.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.733875	50.0	246636.0	0.733875	Y
2	STD04 500-663160/5	2.0	1.271751	50.0	256654.0	0.635876	Y
3	STD05 500-663160/6	5.0	3.132768	50.0	259866.0	0.626554	Y
4	STD06 500-663160/7	20.0	11.84075	50.0	280679.0	0.592038	Y
5	STD07 500-663160/8	50.0	30.091543	50.0	315263.0	0.601831	Y
6	STD08 500-663160/9	100.0	53.681345	50.0	353906.0	0.536813	Y
7	STD09 500-663160/10	150.0	82.379682	50.0	366696.0	0.549198	Y
8	STD010 500-663160/11	200.0	105.817689	50.0	397804.0	0.529088	Y



Calibration

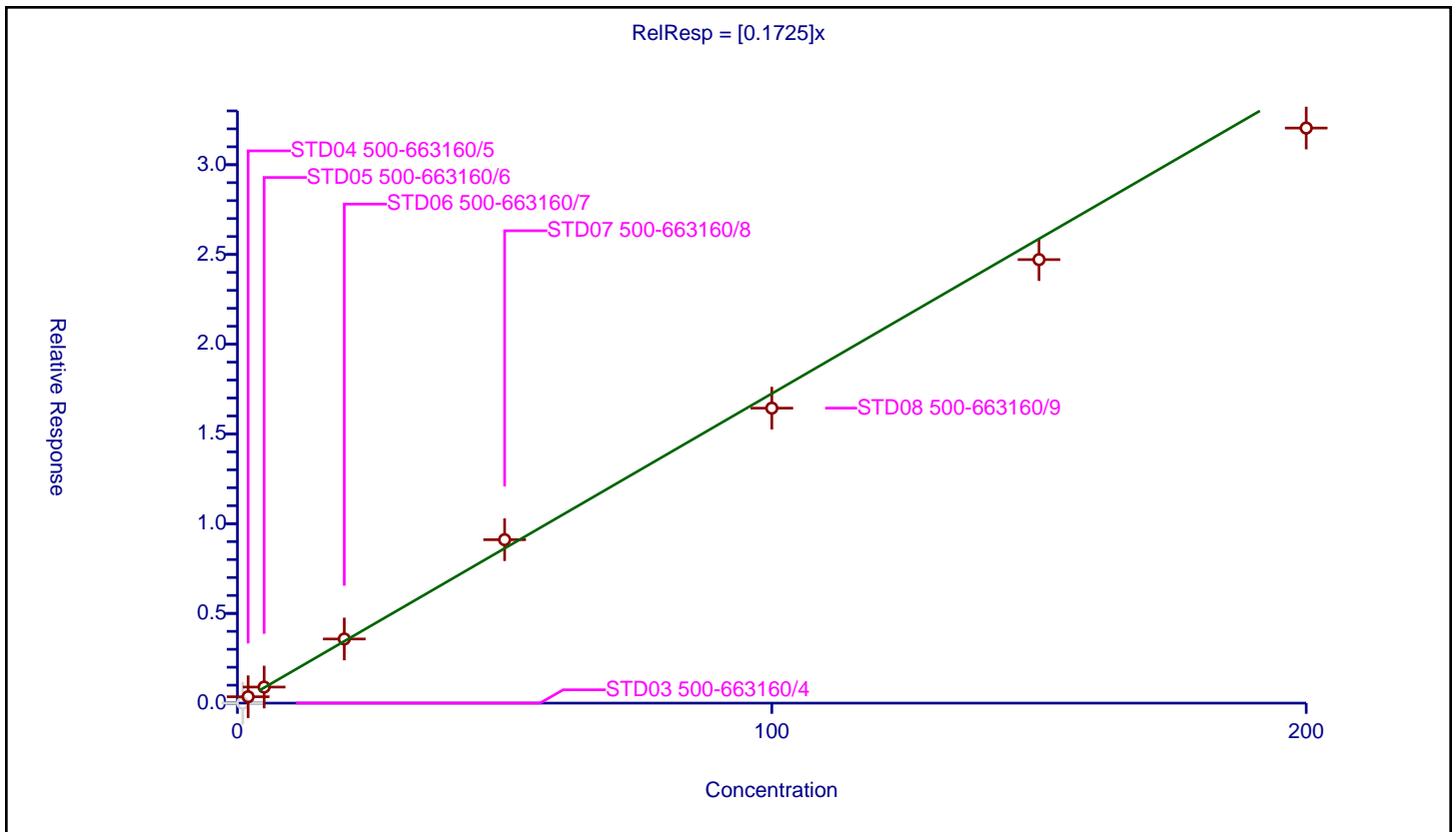
/ 1,2,3-Trichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1725

Error Coefficients	
Standard Error:	138000
Relative Standard Error:	5.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	246636.0	0.0	N
2	STD04 500-663160/5	2.0	0.355927	50.0	256654.0	0.177963	Y
3	STD05 500-663160/6	5.0	0.895846	50.0	259866.0	0.179169	Y
4	STD06 500-663160/7	20.0	3.57419	50.0	280679.0	0.178709	Y
5	STD07 500-663160/8	50.0	9.106365	50.0	315263.0	0.182127	Y
6	STD08 500-663160/9	100.0	16.436568	50.0	353906.0	0.164366	Y
7	STD09 500-663160/10	150.0	24.713387	50.0	366696.0	0.164756	Y
8	STD010 500-663160/11	200.0	32.044675	50.0	397804.0	0.160223	Y



Calibration

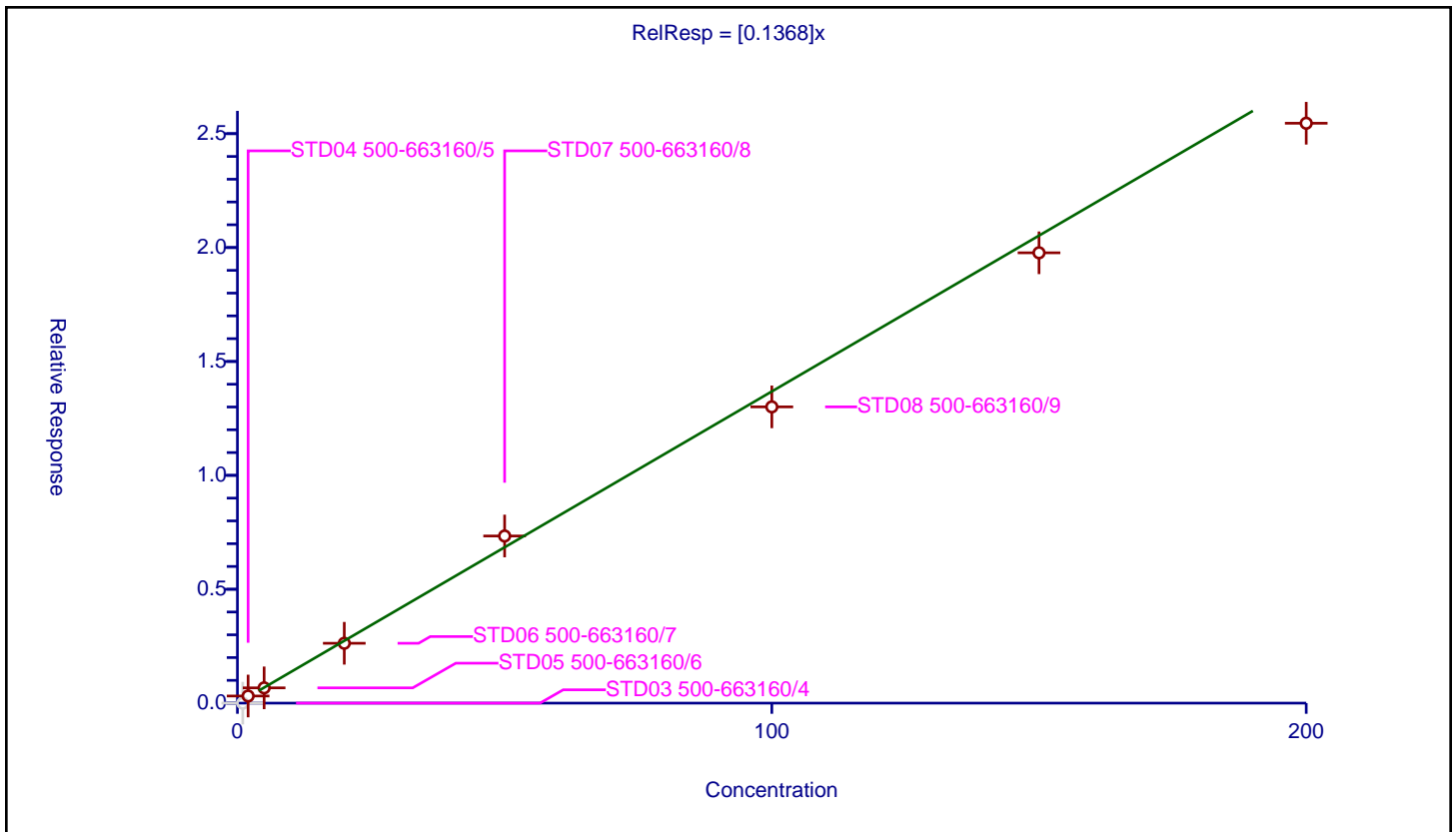
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1368

Error Coefficients	
Standard Error:	110000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.0	50.0	246636.0	0.0	N
2	STD04 500-663160/5	2.0	0.312873	50.0	256654.0	0.156436	Y
3	STD05 500-663160/6	5.0	0.670153	50.0	259866.0	0.134031	Y
4	STD06 500-663160/7	20.0	2.628447	50.0	280679.0	0.131422	Y
5	STD07 500-663160/8	50.0	7.337525	50.0	315263.0	0.14675	Y
6	STD08 500-663160/9	100.0	13.005996	50.0	353906.0	0.13006	Y
7	STD09 500-663160/10	150.0	19.769782	50.0	366696.0	0.131799	Y
8	STD010 500-663160/11	200.0	25.45726	50.0	397804.0	0.127286	Y



Calibration

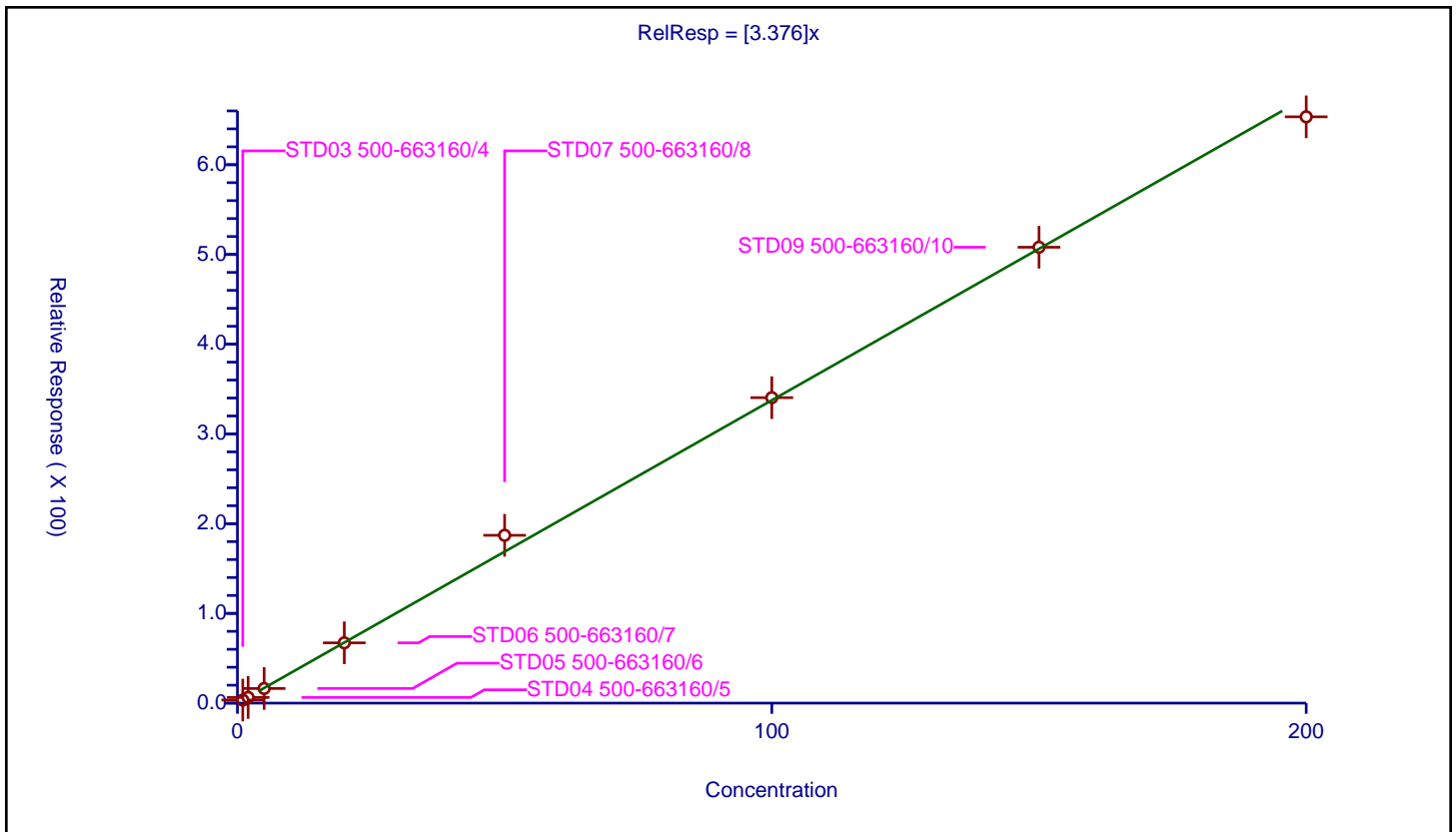
/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.376

Error Coefficients	
Standard Error:	2630000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	3.417993	50.0	246636.0	3.417993	Y
2	STD04 500-663160/5	2.0	6.335378	50.0	256654.0	3.167689	Y
3	STD05 500-663160/6	5.0	16.306289	50.0	259866.0	3.261258	Y
4	STD06 500-663160/7	20.0	67.176027	50.0	280679.0	3.358801	Y
5	STD07 500-663160/8	50.0	187.035903	50.0	315263.0	3.740718	Y
6	STD08 500-663160/9	100.0	340.414969	50.0	353906.0	3.40415	Y
7	STD09 500-663160/10	150.0	508.057628	50.0	366696.0	3.387051	Y
8	STD010 500-663160/11	200.0	653.406577	50.0	397804.0	3.267033	Y



Calibration

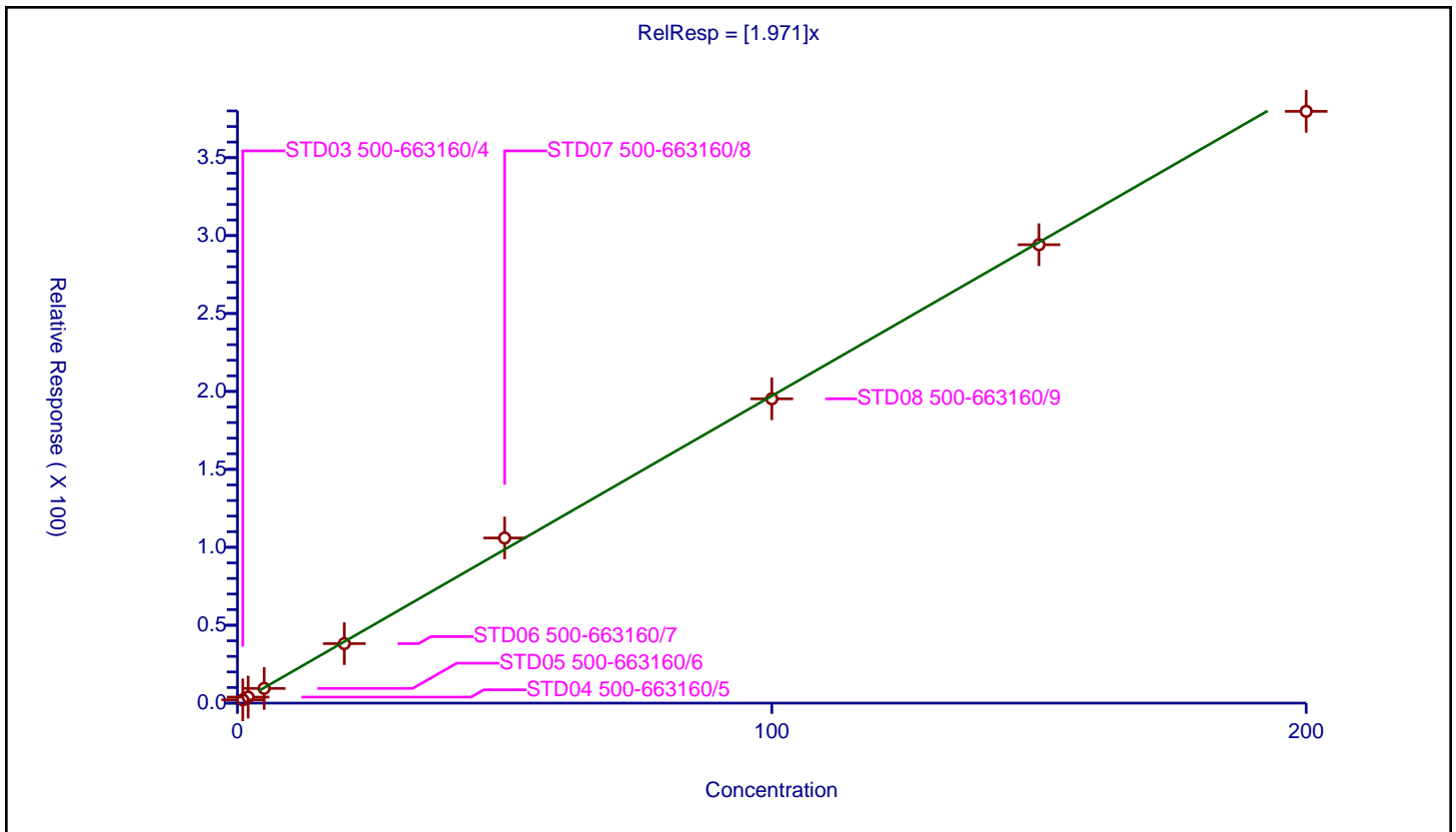
/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.971

Error Coefficients	
Standard Error:	1520000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.108168	50.0	246636.0	2.108168	Y
2	STD04 500-663160/5	2.0	3.864347	50.0	256654.0	1.932173	Y
3	STD05 500-663160/6	5.0	9.446792	50.0	259866.0	1.889358	Y
4	STD06 500-663160/7	20.0	38.179201	50.0	280679.0	1.90896	Y
5	STD07 500-663160/8	50.0	105.955187	50.0	315263.0	2.119104	Y
6	STD08 500-663160/9	100.0	195.264703	50.0	353906.0	1.952647	Y
7	STD09 500-663160/10	150.0	294.148695	50.0	366696.0	1.960991	Y
8	STD010 500-663160/11	200.0	379.727077	50.0	397804.0	1.898635	Y



Calibration

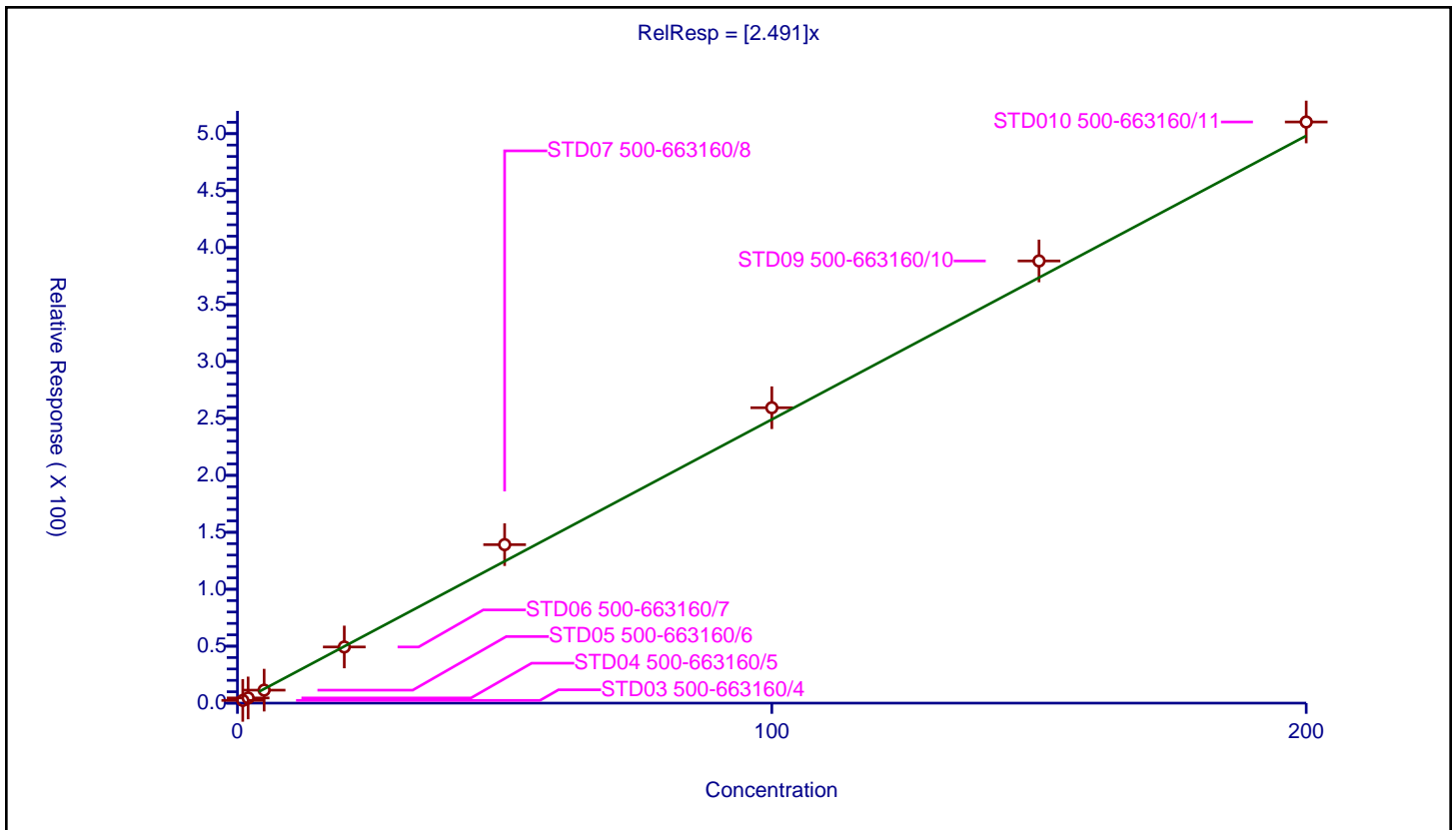
/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.491

Error Coefficients	
Standard Error:	2030000
Relative Standard Error:	7.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.387324	50.0	246636.0	2.387324	Y
2	STD04 500-663160/5	2.0	4.556524	50.0	256654.0	2.278262	Y
3	STD05 500-663160/6	5.0	11.393949	50.0	259866.0	2.27879	Y
4	STD06 500-663160/7	20.0	49.300625	50.0	280679.0	2.465031	Y
5	STD07 500-663160/8	50.0	139.150487	50.0	315263.0	2.78301	Y
6	STD08 500-663160/9	100.0	259.367459	50.0	353906.0	2.593675	Y
7	STD09 500-663160/10	150.0	388.245849	50.0	366696.0	2.588306	Y
8	STD010 500-663160/11	200.0	510.275412	50.0	397804.0	2.551377	Y



Calibration

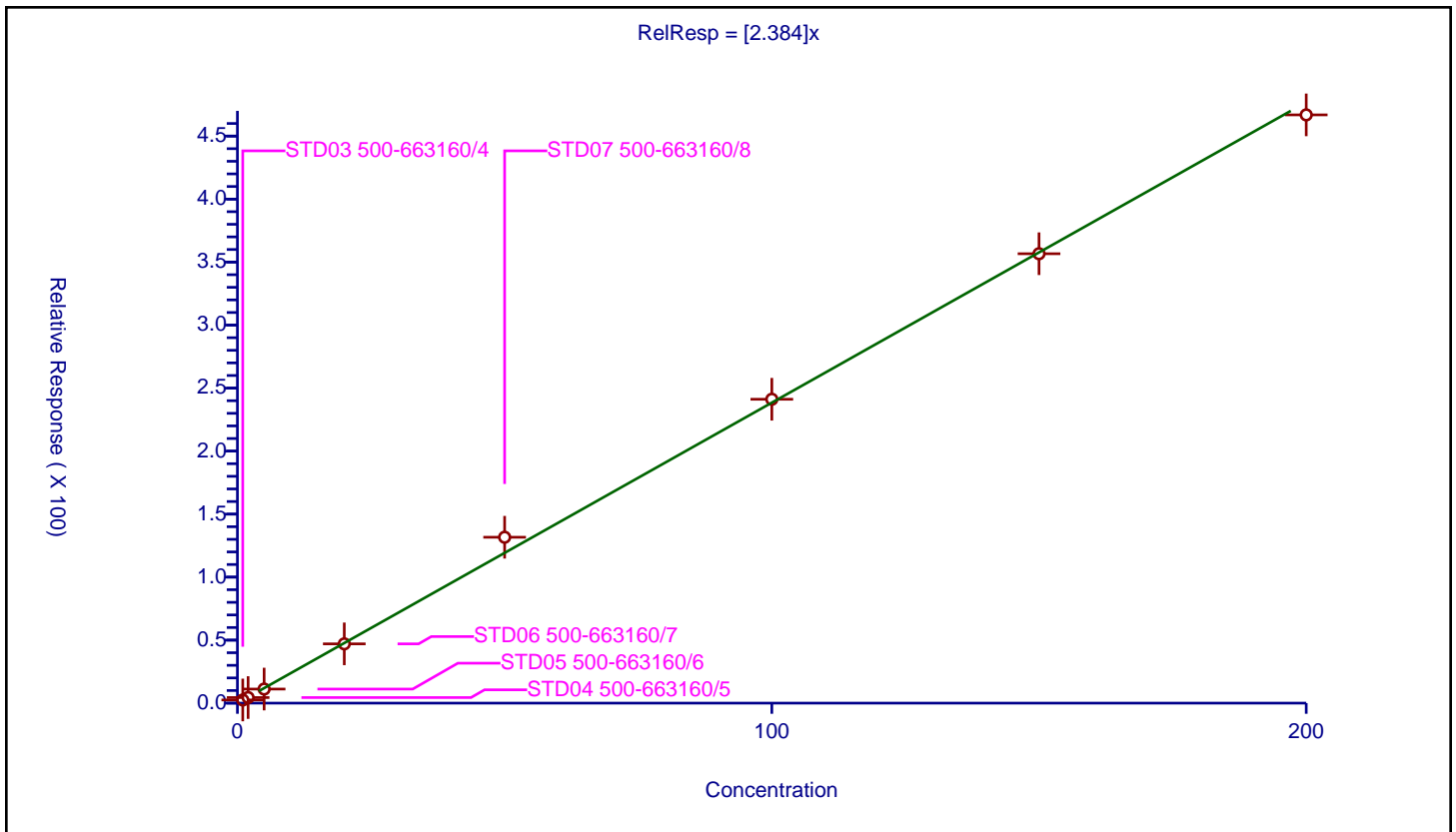
/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.384

Error Coefficients	
Standard Error:	1860000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.514231	50.0	246636.0	2.514231	Y
2	STD04 500-663160/5	2.0	4.433985	50.0	256654.0	2.216993	Y
3	STD05 500-663160/6	5.0	11.179608	50.0	259866.0	2.235922	Y
4	STD06 500-663160/7	20.0	47.04431	50.0	280679.0	2.352216	Y
5	STD07 500-663160/8	50.0	131.640091	50.0	315263.0	2.632802	Y
6	STD08 500-663160/9	100.0	241.148356	50.0	353906.0	2.411484	Y
7	STD09 500-663160/10	150.0	356.644605	50.0	366696.0	2.377631	Y
8	STD010 500-663160/11	200.0	466.825371	50.0	397804.0	2.334127	Y



Calibration

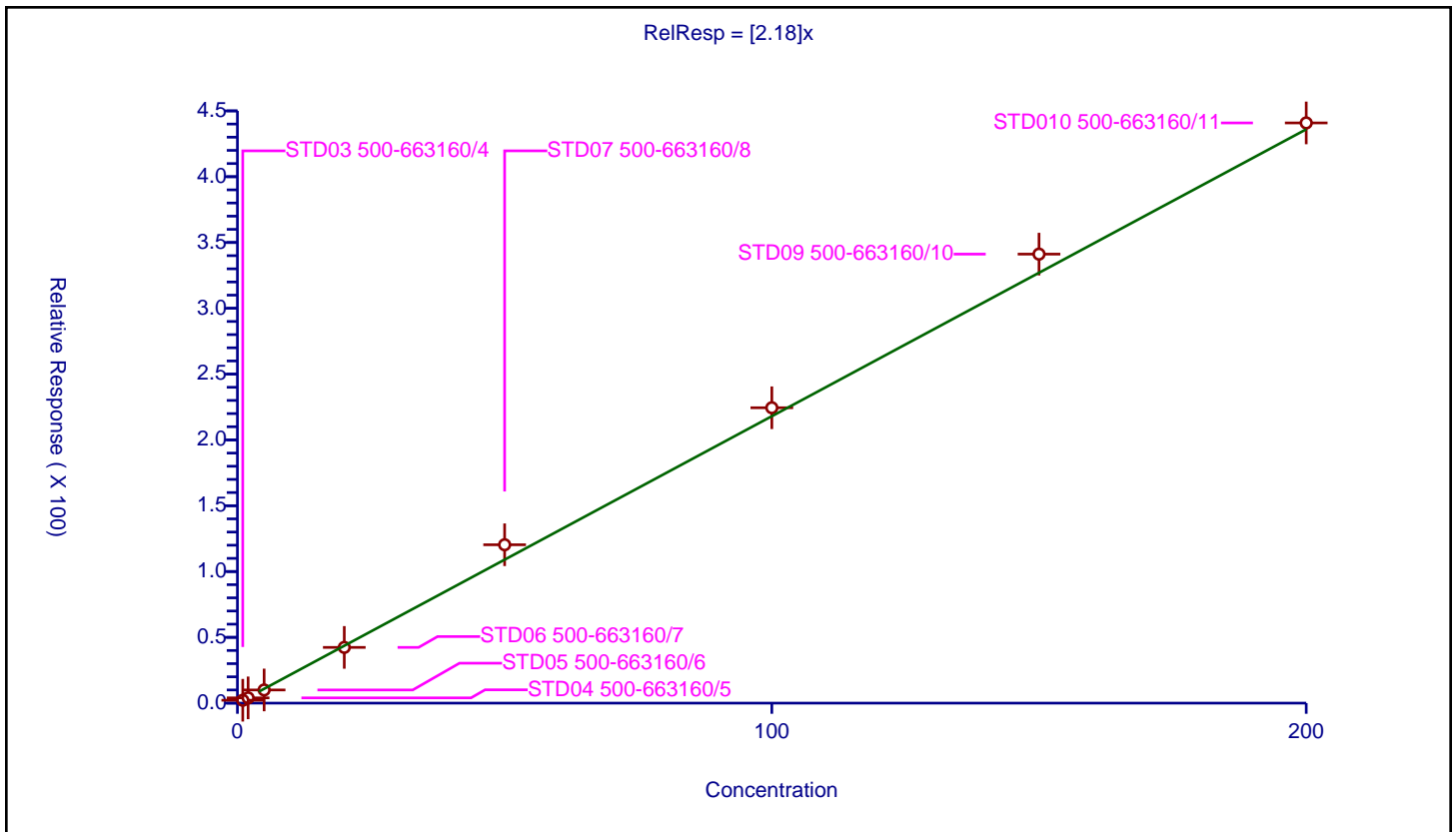
/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.18

Error Coefficients	
Standard Error:	1760000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.19088	50.0	246636.0	2.19088	Y
2	STD04 500-663160/5	2.0	4.001107	50.0	256654.0	2.000553	Y
3	STD05 500-663160/6	5.0	10.007273	50.0	259866.0	2.001455	Y
4	STD06 500-663160/7	20.0	42.338757	50.0	280679.0	2.116938	Y
5	STD07 500-663160/8	50.0	120.335561	50.0	315263.0	2.406711	Y
6	STD08 500-663160/9	100.0	224.43728	50.0	353906.0	2.244373	Y
7	STD09 500-663160/10	150.0	341.172524	50.0	366696.0	2.274483	Y
8	STD010 500-663160/11	200.0	440.851776	50.0	397804.0	2.204259	Y



Calibration

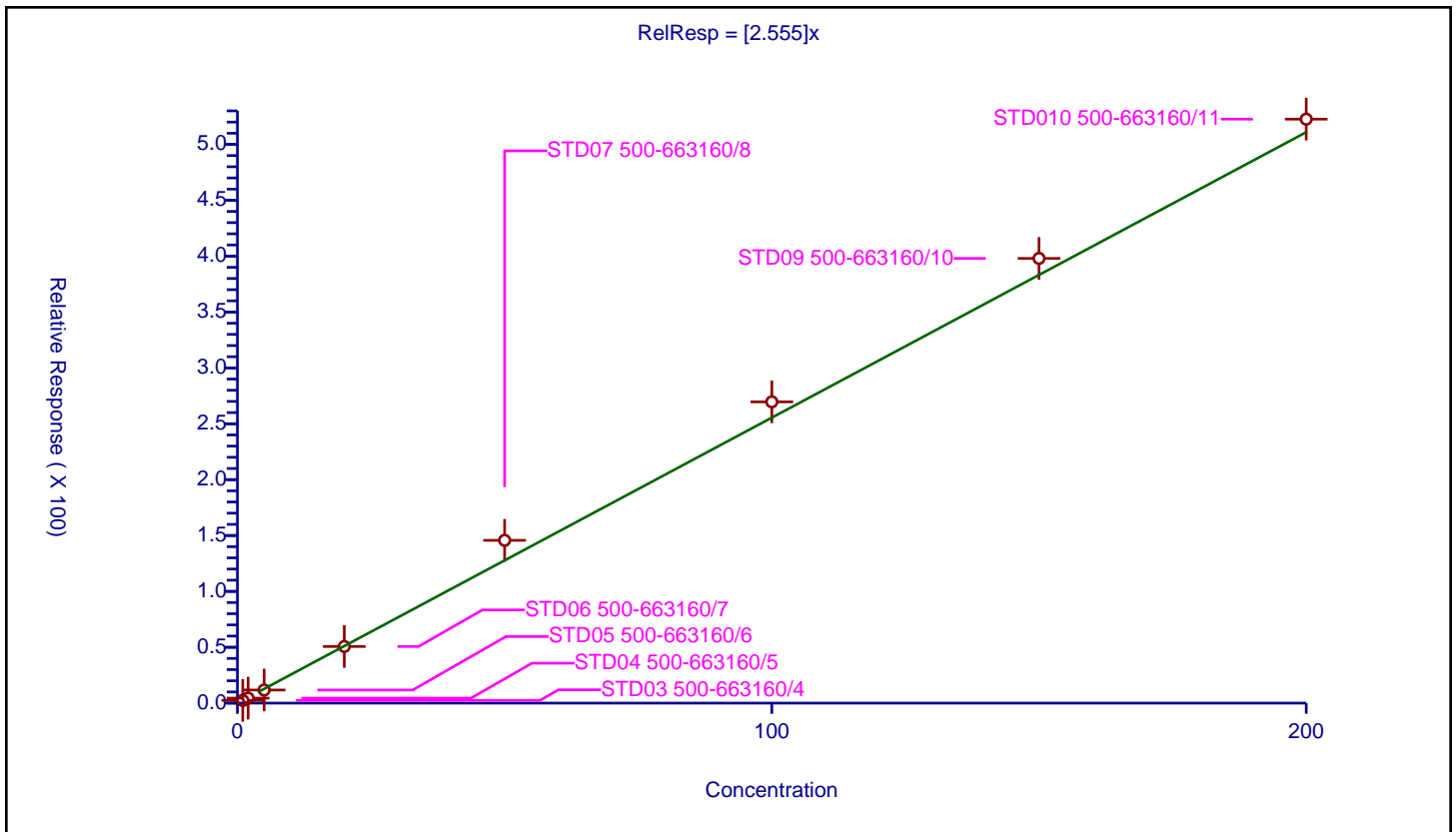
/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.555

Error Coefficients	
Standard Error:	2080000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.439628	50.0	246636.0	2.439628	Y
2	STD04 500-663160/5	2.0	4.480156	50.0	256654.0	2.240078	Y
3	STD05 500-663160/6	5.0	11.734894	50.0	259866.0	2.346979	Y
4	STD06 500-663160/7	20.0	50.686015	50.0	280679.0	2.534301	Y
5	STD07 500-663160/8	50.0	145.678529	50.0	315263.0	2.913571	Y
6	STD08 500-663160/9	100.0	269.610857	50.0	353906.0	2.696109	Y
7	STD09 500-663160/10	150.0	397.982389	50.0	366696.0	2.653216	Y
8	STD010 500-663160/11	200.0	522.610255	50.0	397804.0	2.613051	Y



Calibration

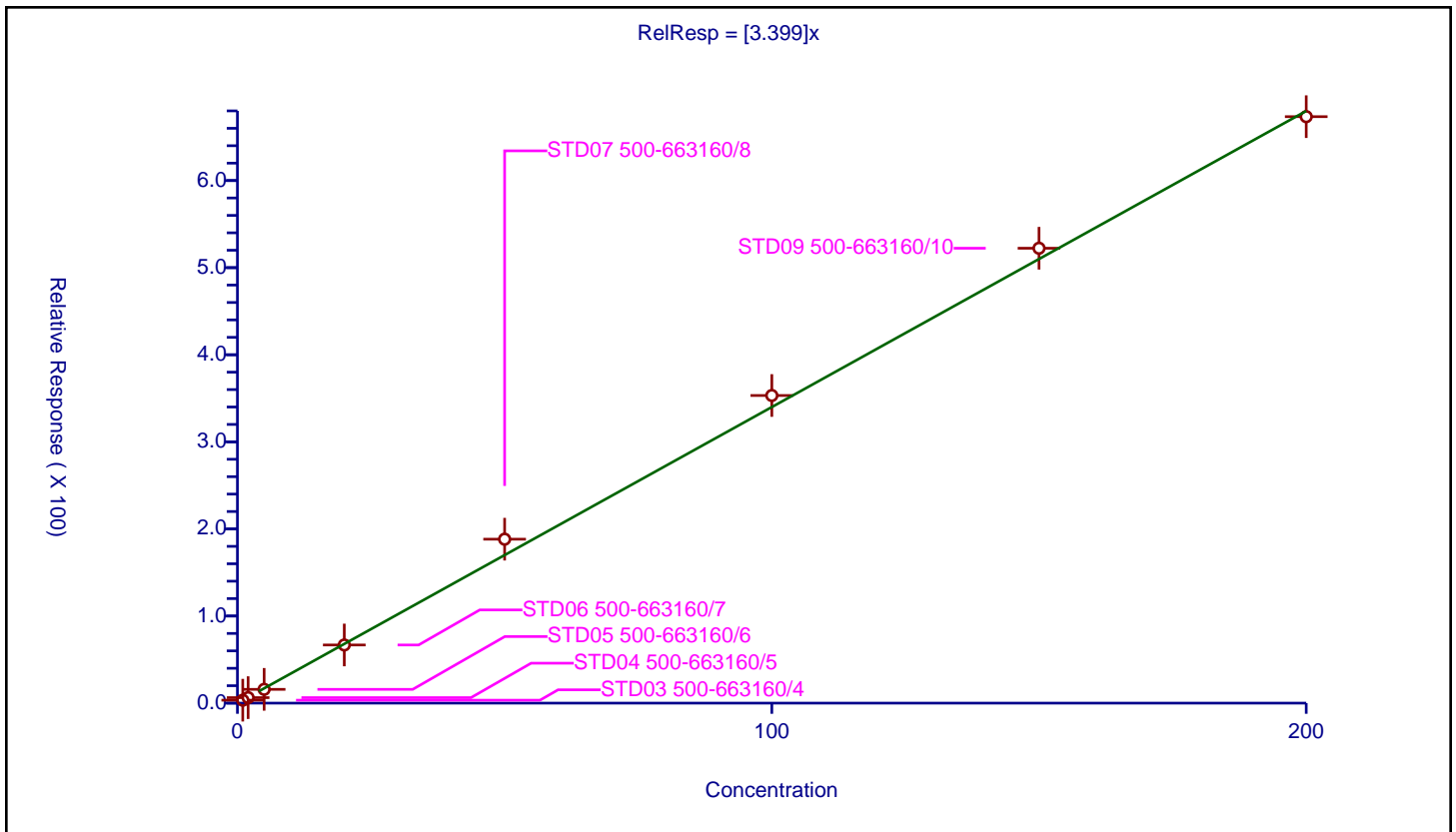
/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.399

Error Coefficients	
Standard Error:	2700000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	3.392652	50.0	246636.0	3.392652	Y
2	STD04 500-663160/5	2.0	6.30674	50.0	256654.0	3.15337	Y
3	STD05 500-663160/6	5.0	15.823155	50.0	259866.0	3.164631	Y
4	STD06 500-663160/7	20.0	66.776816	50.0	280679.0	3.338841	Y
5	STD07 500-663160/8	50.0	188.232365	50.0	315263.0	3.764647	Y
6	STD08 500-663160/9	100.0	353.216108	50.0	353906.0	3.532161	Y
7	STD09 500-663160/10	150.0	522.300489	50.0	366696.0	3.482003	Y
8	STD010 500-663160/11	200.0	673.366909	50.0	397804.0	3.366835	Y



Calibration

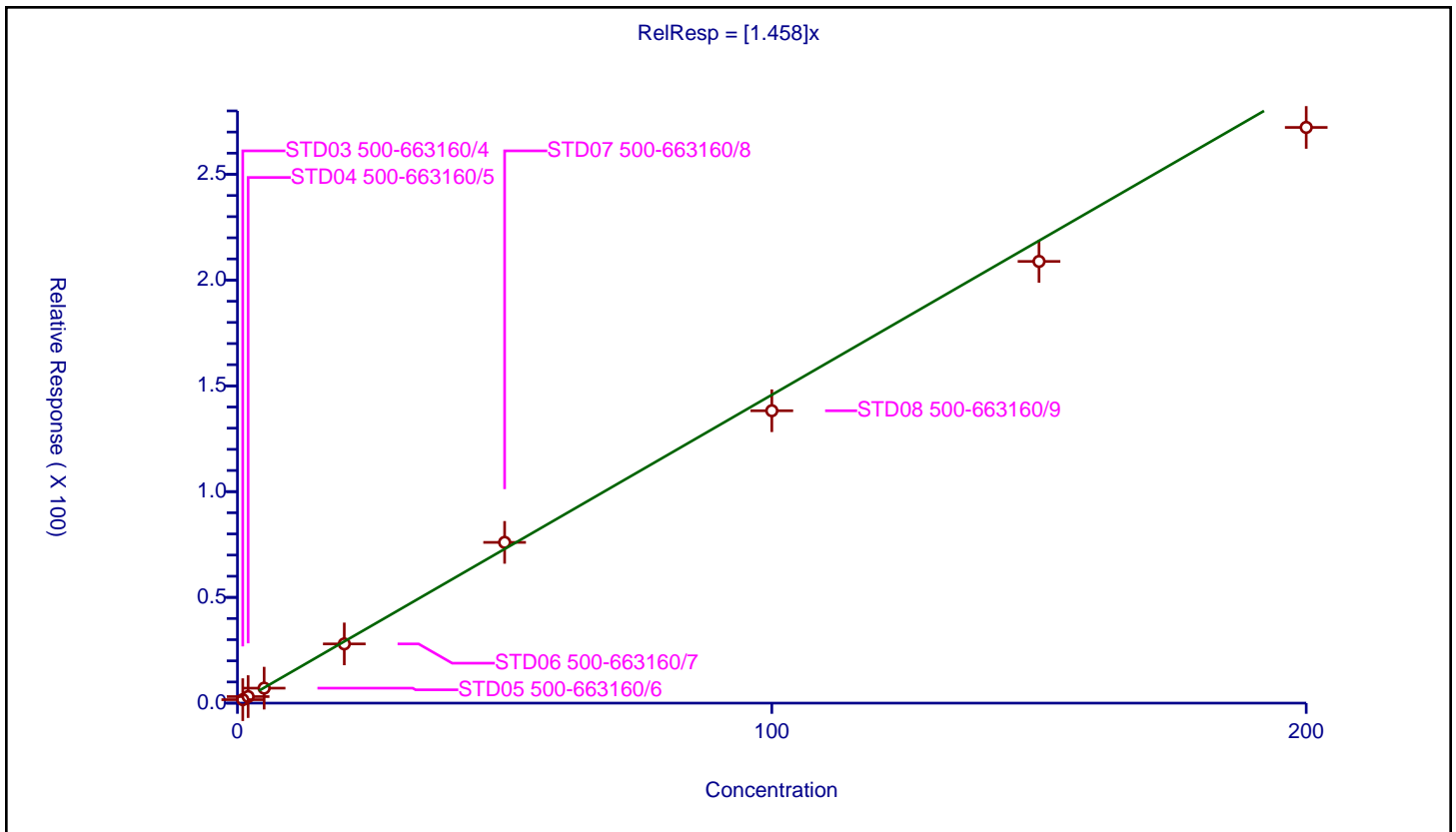
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.458

Error Coefficients	
Standard Error:	1090000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.644326	50.0	246636.0	1.644326	Y
2	STD04 500-663160/5	2.0	3.089568	50.0	256654.0	1.544784	Y
3	STD05 500-663160/6	5.0	7.077879	50.0	259866.0	1.415576	Y
4	STD06 500-663160/7	20.0	27.998888	50.0	280679.0	1.399944	Y
5	STD07 500-663160/8	50.0	75.99639	50.0	315263.0	1.519928	Y
6	STD08 500-663160/9	100.0	138.245042	50.0	353906.0	1.38245	Y
7	STD09 500-663160/10	150.0	208.824612	50.0	366696.0	1.392164	Y
8	STD010 500-663160/11	200.0	272.182155	50.0	397804.0	1.360911	Y



Calibration

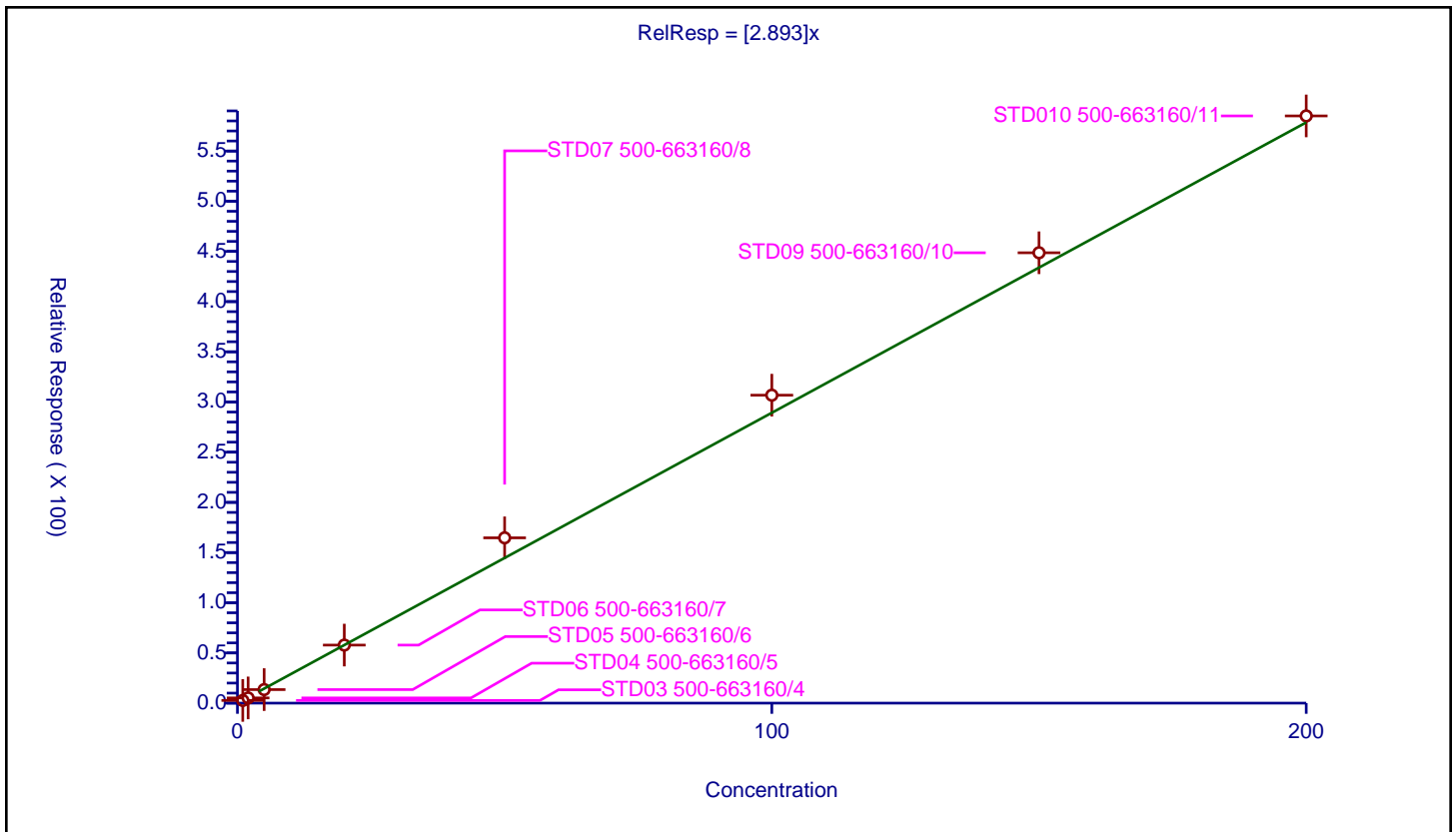
/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.893

Error Coefficients	
Standard Error:	2340000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.685334	50.0	246636.0	2.685334	Y
2	STD04 500-663160/5	2.0	5.181295	50.0	256654.0	2.590647	Y
3	STD05 500-663160/6	5.0	13.479255	50.0	259866.0	2.695851	Y
4	STD06 500-663160/7	20.0	57.81854	50.0	280679.0	2.890927	Y
5	STD07 500-663160/8	50.0	164.677111	50.0	315263.0	3.293542	Y
6	STD08 500-663160/9	100.0	306.776234	50.0	353906.0	3.067762	Y
7	STD09 500-663160/10	150.0	448.656789	50.0	366696.0	2.991045	Y
8	STD010 500-663160/11	200.0	584.996254	50.0	397804.0	2.924981	Y



Calibration

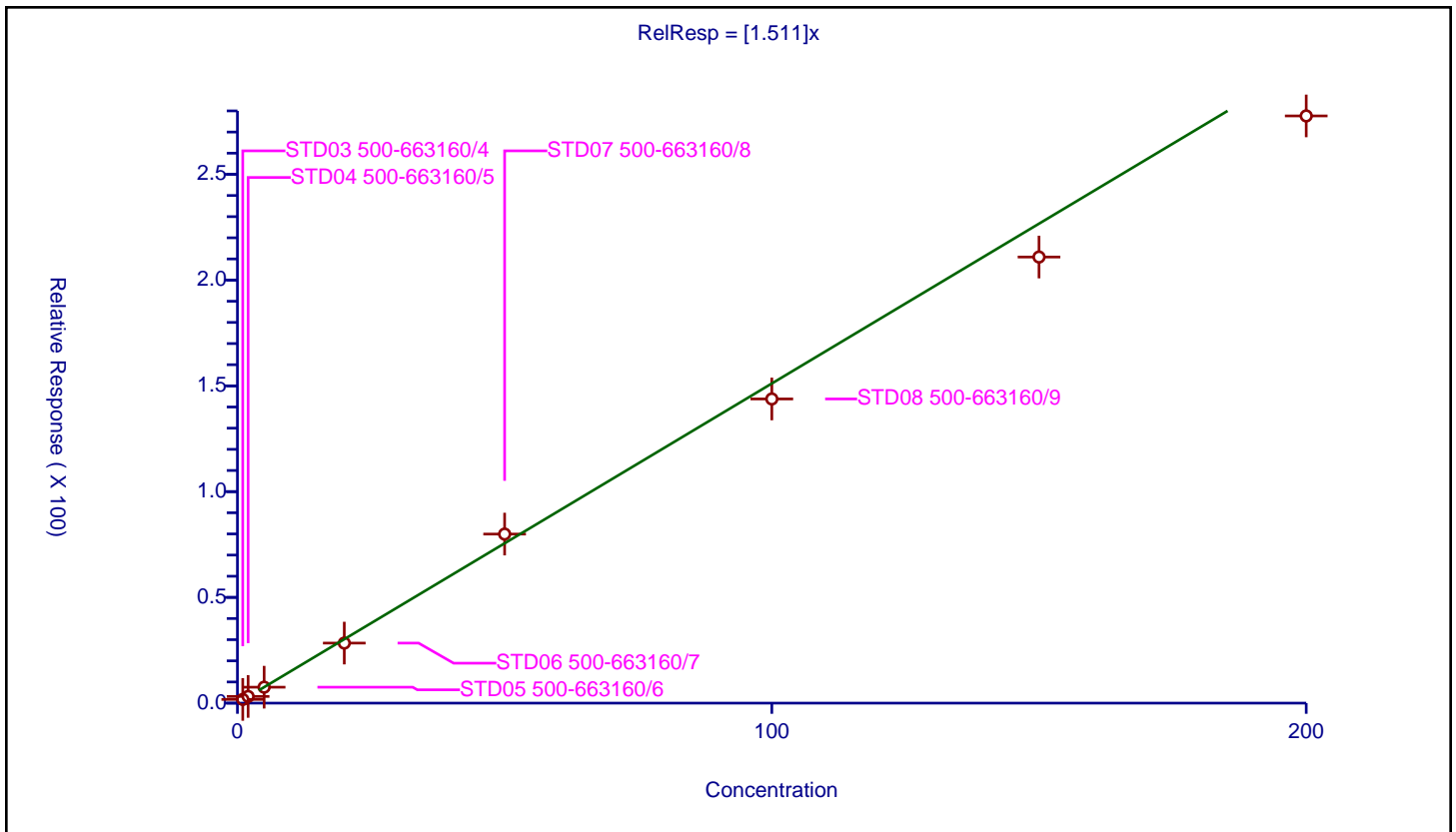
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.511

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.750555	50.0	246636.0	1.750555	Y
2	STD04 500-663160/5	2.0	3.161065	50.0	256654.0	1.580533	Y
3	STD05 500-663160/6	5.0	7.538885	50.0	259866.0	1.507777	Y
4	STD06 500-663160/7	20.0	28.391151	50.0	280679.0	1.419558	Y
5	STD07 500-663160/8	50.0	79.930249	50.0	315263.0	1.598605	Y
6	STD08 500-663160/9	100.0	143.804287	50.0	353906.0	1.438043	Y
7	STD09 500-663160/10	150.0	210.909718	50.0	366696.0	1.406065	Y
8	STD010 500-663160/11	200.0	277.625791	50.0	397804.0	1.388129	Y



Calibration

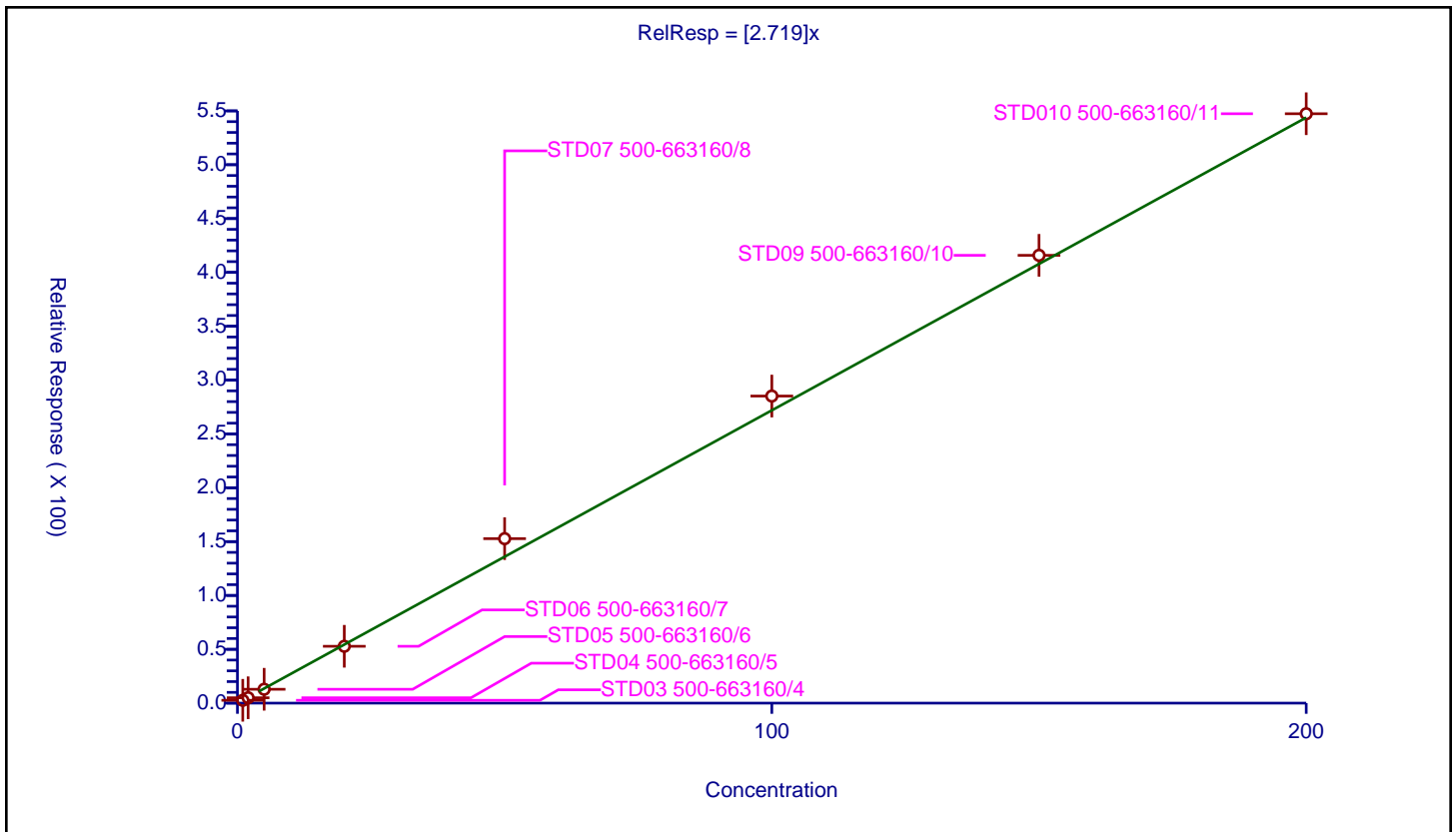
/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.719

Error Coefficients	
Standard Error:	2180000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	2.625326	50.0	246636.0	2.625326	Y
2	STD04 500-663160/5	2.0	4.990961	50.0	256654.0	2.49548	Y
3	STD05 500-663160/6	5.0	12.882601	50.0	259866.0	2.57652	Y
4	STD06 500-663160/7	20.0	52.787882	50.0	280679.0	2.639394	Y
5	STD07 500-663160/8	50.0	152.743424	50.0	315263.0	3.054868	Y
6	STD08 500-663160/9	100.0	285.160042	50.0	353906.0	2.8516	Y
7	STD09 500-663160/10	150.0	415.865731	50.0	366696.0	2.772438	Y
8	STD010 500-663160/11	200.0	547.355607	50.0	397804.0	2.736778	Y



Calibration

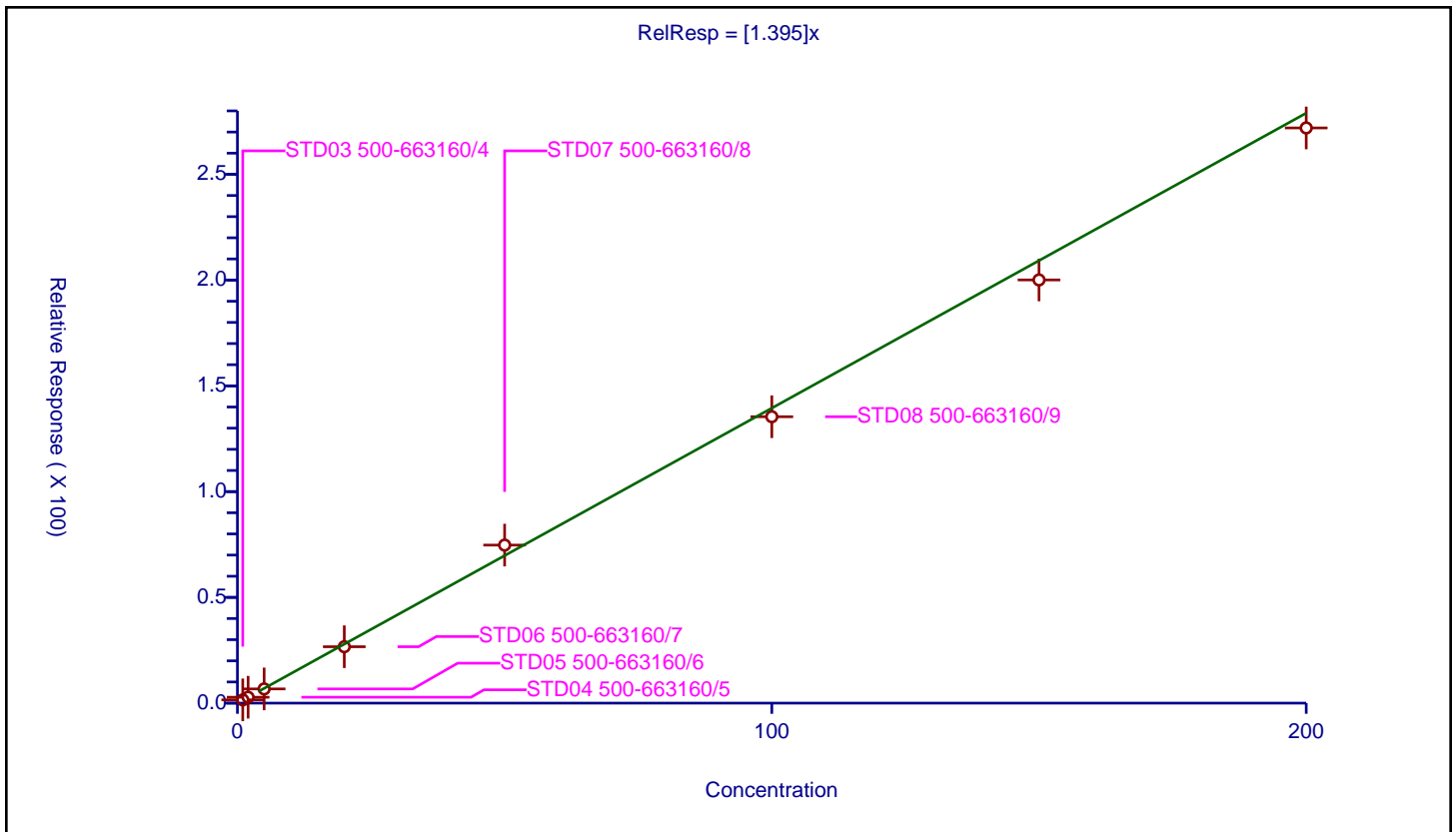
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.395

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	5.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.546408	50.0	246636.0	1.546408	Y
2	STD04 500-663160/5	2.0	2.788384	50.0	256654.0	1.394192	Y
3	STD05 500-663160/6	5.0	6.713075	50.0	259866.0	1.342615	Y
4	STD06 500-663160/7	20.0	26.665337	50.0	280679.0	1.333267	Y
5	STD07 500-663160/8	50.0	74.716348	50.0	315263.0	1.494327	Y
6	STD08 500-663160/9	100.0	135.401915	50.0	353906.0	1.354019	Y
7	STD09 500-663160/10	150.0	200.083993	50.0	366696.0	1.333893	Y
8	STD010 500-663160/11	200.0	271.939448	50.0	397804.0	1.359697	Y



Calibration

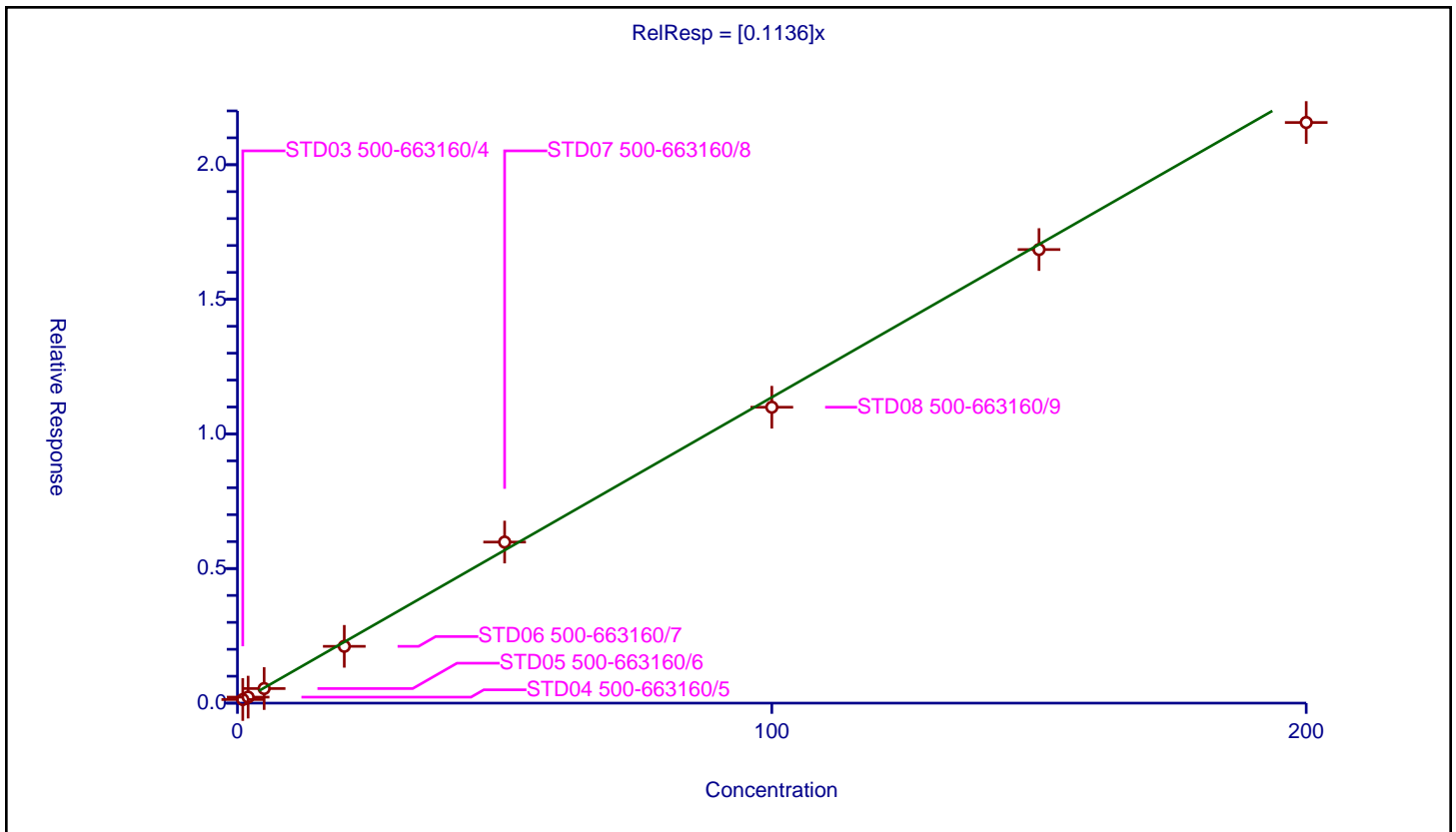
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1136

Error Coefficients	
Standard Error:	86500
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.1338	50.0	246636.0	0.1338	Y
2	STD04 500-663160/5	2.0	0.222673	50.0	256654.0	0.111337	Y
3	STD05 500-663160/6	5.0	0.54201	50.0	259866.0	0.108402	Y
4	STD06 500-663160/7	20.0	2.109884	50.0	280679.0	0.105494	Y
5	STD07 500-663160/8	50.0	5.983258	50.0	315263.0	0.119665	Y
6	STD08 500-663160/9	100.0	10.992184	50.0	353906.0	0.109922	Y
7	STD09 500-663160/10	150.0	16.849379	50.0	366696.0	0.112329	Y
8	STD010 500-663160/11	200.0	21.568788	50.0	397804.0	0.107844	Y



Calibration

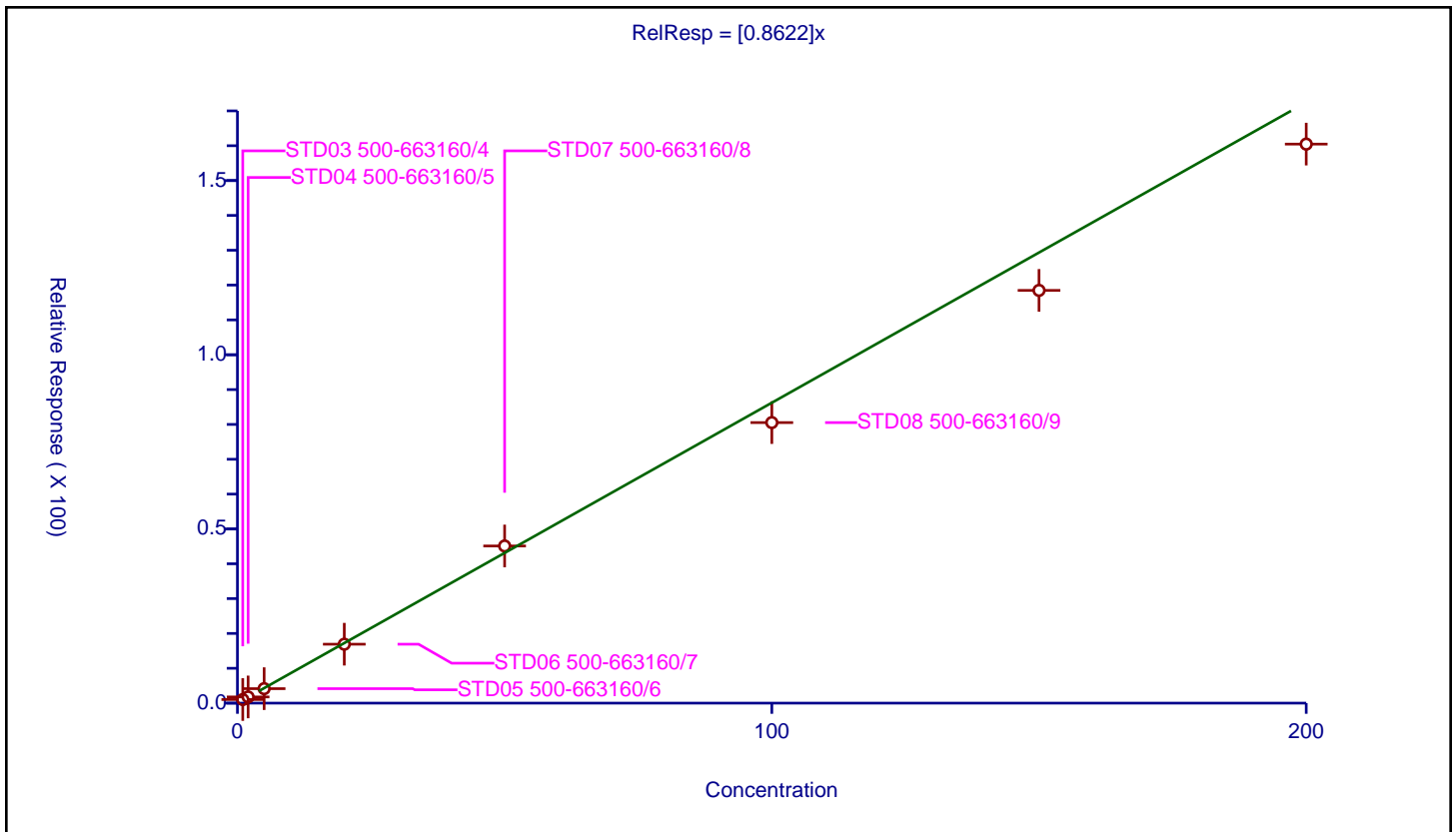
/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8622

Error Coefficients	
Standard Error:	632000
Relative Standard Error:	9.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.033101	50.0	246636.0	1.033101	Y
2	STD04 500-663160/5	2.0	1.775737	50.0	256654.0	0.887868	Y
3	STD05 500-663160/6	5.0	4.158297	50.0	259866.0	0.831659	Y
4	STD06 500-663160/7	20.0	16.913093	50.0	280679.0	0.845655	Y
5	STD07 500-663160/8	50.0	45.108528	50.0	315263.0	0.902171	Y
6	STD08 500-663160/9	100.0	80.531271	50.0	353906.0	0.805313	Y
7	STD09 500-663160/10	150.0	118.474567	50.0	366696.0	0.78983	Y
8	STD010 500-663160/11	200.0	160.465581	50.0	397804.0	0.802328	Y



Calibration

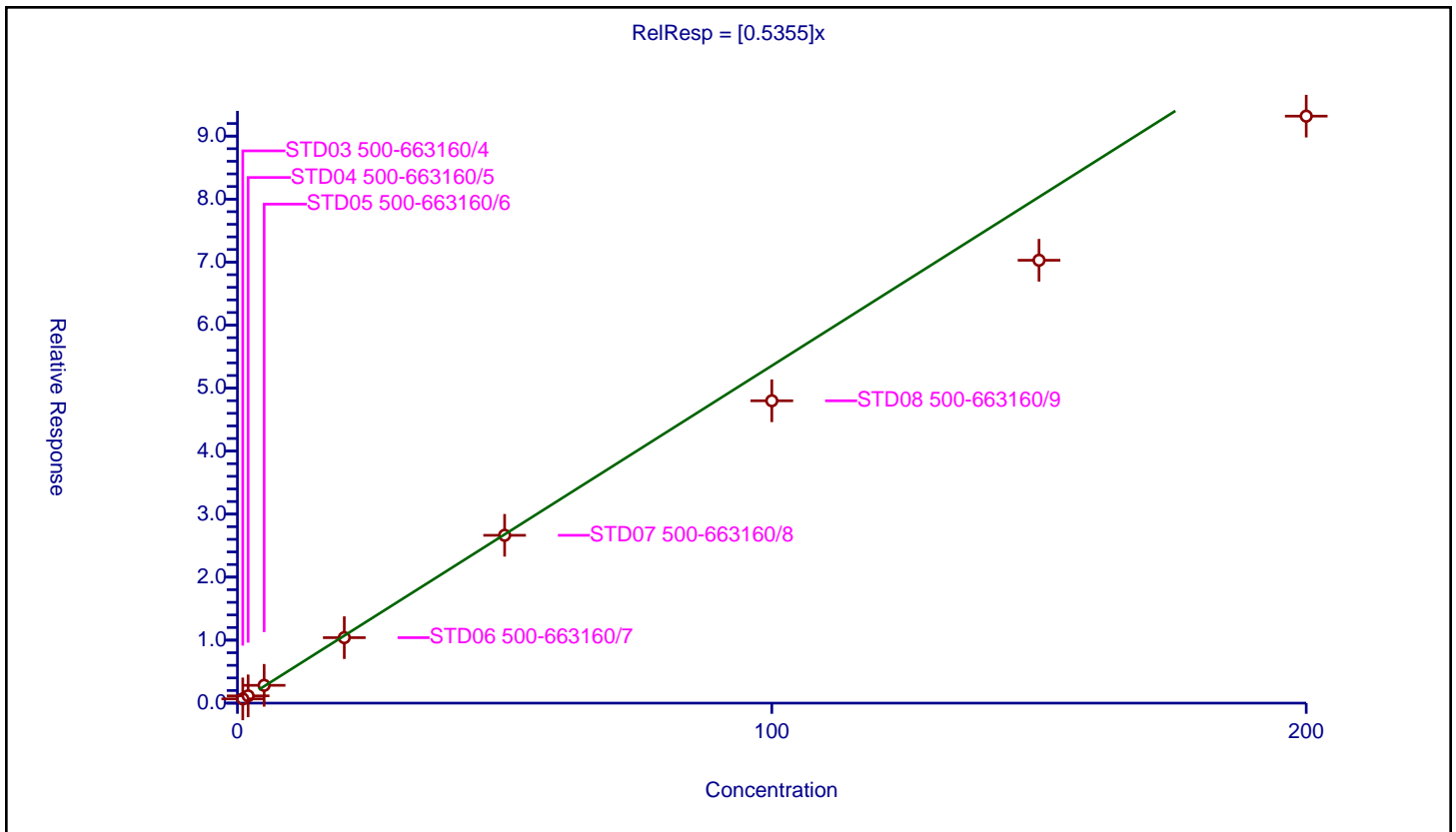
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5355

Error Coefficients	
Standard Error:	371000
Relative Standard Error:	13.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.6763	50.0	246636.0	0.6763	Y
2	STD04 500-663160/5	2.0	1.152524	50.0	256654.0	0.576262	Y
3	STD05 500-663160/6	5.0	2.825495	50.0	259866.0	0.565099	Y
4	STD06 500-663160/7	20.0	10.39123	50.0	280679.0	0.519561	Y
5	STD07 500-663160/8	50.0	26.63776	50.0	315263.0	0.532755	Y
6	STD08 500-663160/9	100.0	47.991416	50.0	353906.0	0.479914	Y
7	STD09 500-663160/10	150.0	70.294604	50.0	366696.0	0.468631	Y
8	STD010 500-663160/11	200.0	93.165353	50.0	397804.0	0.465827	Y



Calibration

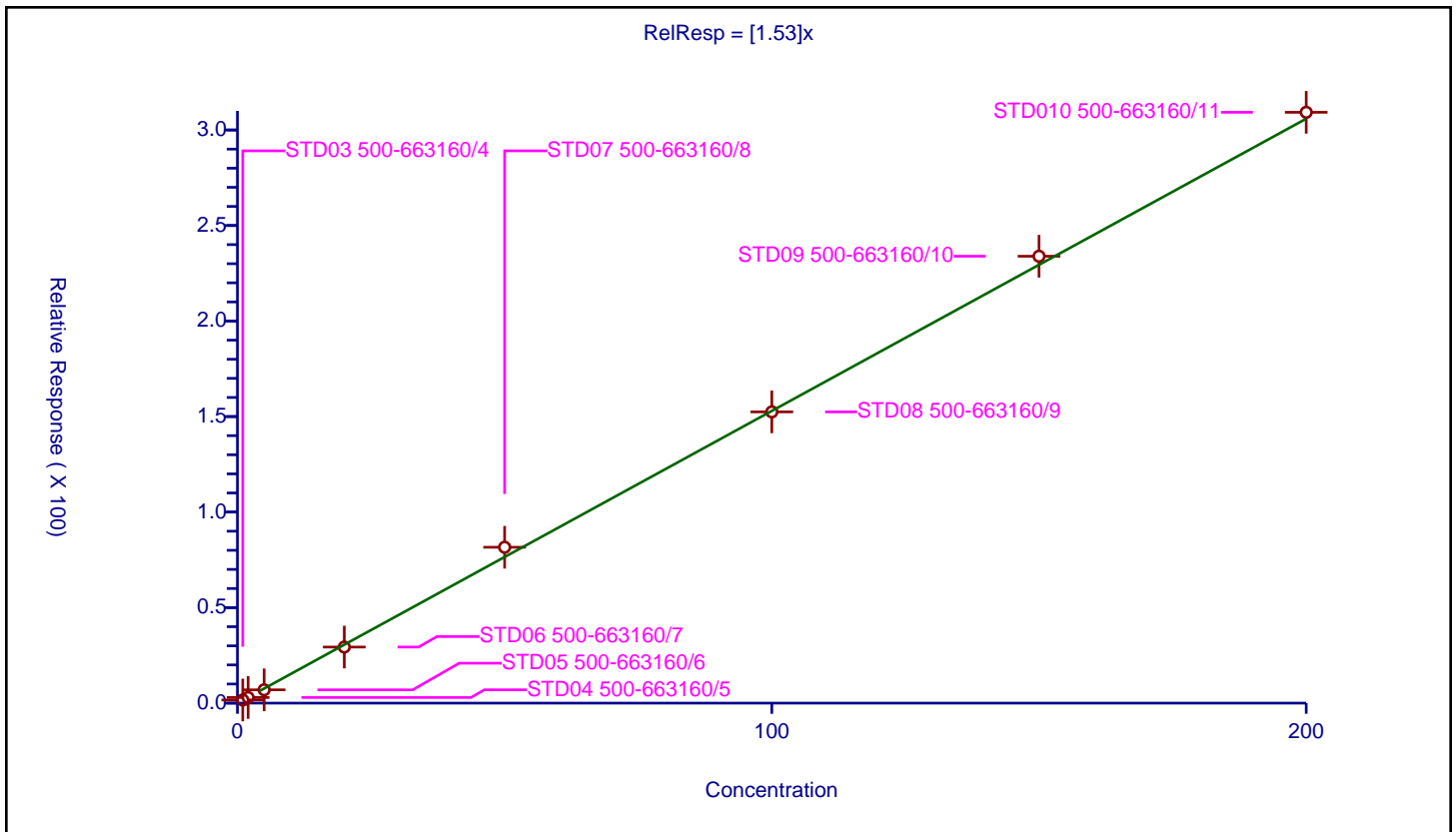
/ Naphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.53

Error Coefficients	
Standard Error:	1220000
Relative Standard Error:	5.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	1.642907	50.0	246636.0	1.642907	Y
2	STD04 500-663160/5	2.0	2.943067	50.0	256654.0	1.471534	Y
3	STD05 500-663160/6	5.0	6.959741	50.0	259866.0	1.391948	Y
4	STD06 500-663160/7	20.0	29.350789	50.0	280679.0	1.467539	Y
5	STD07 500-663160/8	50.0	81.586326	50.0	315263.0	1.631727	Y
6	STD08 500-663160/9	100.0	152.449803	50.0	353906.0	1.524498	Y
7	STD09 500-663160/10	150.0	233.929195	50.0	366696.0	1.559528	Y
8	STD010 500-663160/11	200.0	309.264613	50.0	397804.0	1.546323	Y



Calibration

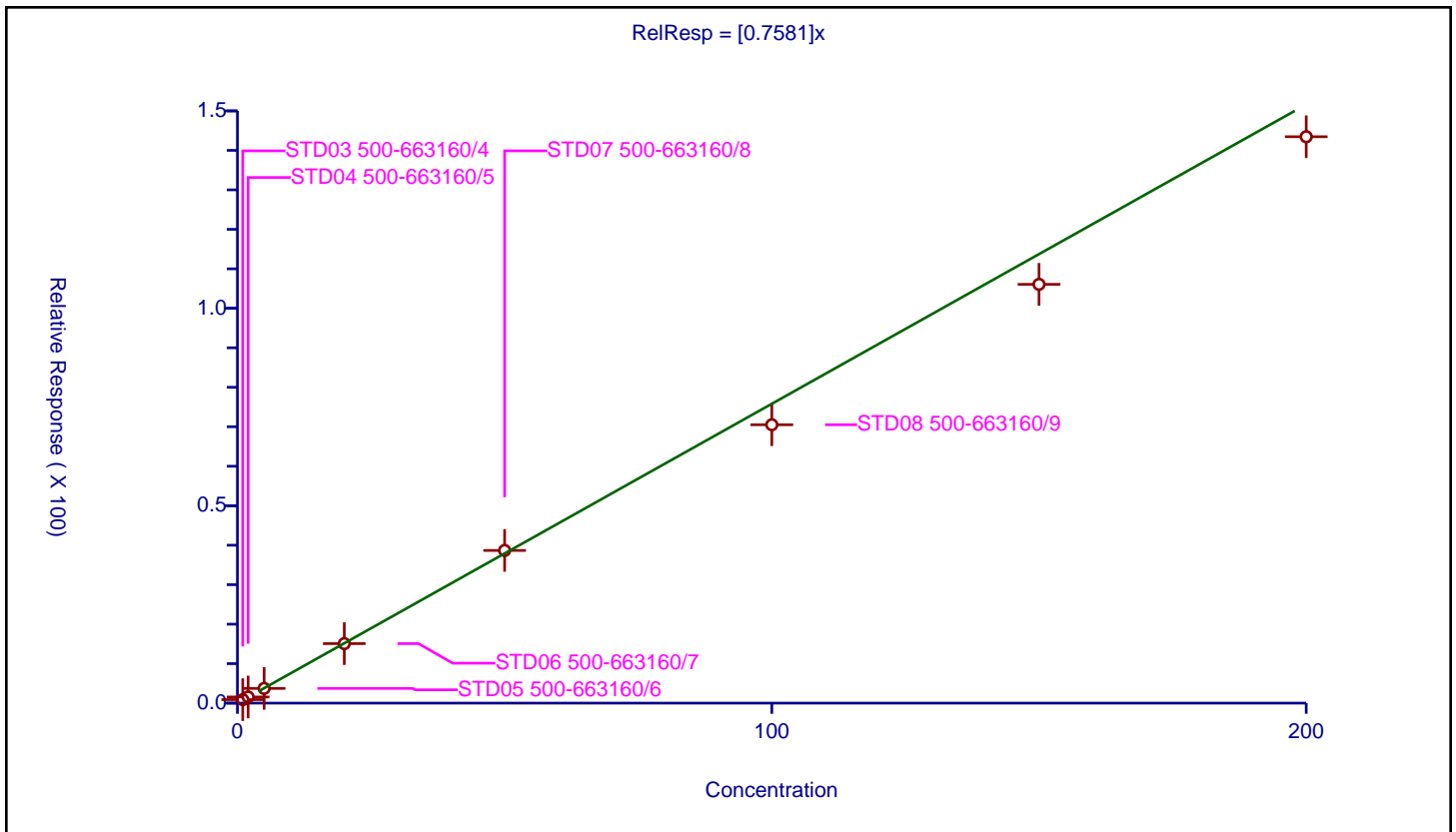
/ 1,2,3-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7581

Error Coefficients	
Standard Error:	564000
Relative Standard Error:	7.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD03 500-663160/4	1.0	0.886732	50.0	246636.0	0.886732	Y
2	STD04 500-663160/5	2.0	1.552869	50.0	256654.0	0.776434	Y
3	STD05 500-663160/6	5.0	3.726728	50.0	259866.0	0.745346	Y
4	STD06 500-663160/7	20.0	15.076119	50.0	280679.0	0.753806	Y
5	STD07 500-663160/8	50.0	38.667716	50.0	315263.0	0.773354	Y
6	STD08 500-663160/9	100.0	70.507423	50.0	353906.0	0.705074	Y
7	STD09 500-663160/10	150.0	106.070423	50.0	366696.0	0.707136	Y
8	STD010 500-663160/11	200.0	143.453686	50.0	397804.0	0.717268	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638287/22 Calibration Date: 01/18/2022 20:07
 Instrument ID: CMS16 Calib Start Date: 12/10/2020 22:57
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 12/11/2020 02:32
 Lab File ID: ICV 2.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,3-Dichloro-1-propene	Ave	0.4303			<2.00	50.0		

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
 Lims ID: ICV 2
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Jan-2022 20:07:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV 2
 Misc. Info.: 500-0083302-022
 Operator ID: Instrument ID: CMS16
 Sublist:

Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:46:31 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello Date: 20-Jan-2022 14:25:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.697	2.700	-0.003	98	50091	2000.0	2061.1	
18 Isopropyl alcohol	45	3.168	3.171	-0.003	95	76976	500.0	490.4	
19 Acetonitrile	41	3.287	3.284	0.003	99	136872	500.0	564.5	
* 23 TBA-d9 (IS)	65	3.463	3.465	-0.002	95	209373	1068.6	1068.6	
32 Isopropyl ether	45	4.135	4.135	0.000	94	506763	50.0	54.4	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	98	234482	50.0	52.5	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	98	484422	50.0	57.5	
38 Ethyl acetate	43	4.696	4.696	0.000	99	207068	100.0	112.8	
37 Propionitrile	54	4.699	4.699	0.000	82	148307	500.0	564.6	
40 Methacrylonitrile	41	4.849	4.852	-0.003	93	650971	500.0	538.7	
\$ 43 Dibromofluoromethane	113	5.099	5.096	0.003	71	119574	53.4	50.7	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.445	5.442	0.003	97	123417	53.4	50.4	
52 Isooctane	57	5.578	5.578	0.000	97	710116	50.0	53.6	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	94	429275	50.0	55.5	
* 55 Fluorobenzene (IS)	96	5.788	5.788	0.000	99	524419	53.4	53.4	a
56 n-Butanol	56	6.085	6.086	-0.001	87	85724	1250.0	1292.9	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	131720	50.0	56.7	a
* 62 1,4-Dioxane-d8	96	6.511	6.500	0.011	62	15290	1068.6	1068.6	a
64 Methyl methacrylate	41	6.539	6.536	0.003	89	192809	100.0	111.0	
67 2-Nitropropane	43	6.984	6.982	0.002	94	63950	100.0	111.3	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	85	477982	53.4	52.5	
79 n-Butyl acetate	43	8.581	8.578	0.003	95	166535	50.0	54.7	
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	86	374165	53.4	53.4	
83 1-Chlorohexane	55	9.341	9.338	0.003	90	132932	50.0	49.1	
92 Cyclohexanone	55	10.648	10.648	0.000	96	383488	5000.0	5677.3	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	178212	53.4	54.0	
105 Pentachloroethane	167	11.490	11.490	0.000	94	88833	50.0	50.7	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	222196	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	91	647388	50.0	51.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
113 Benzyl chloride	126	11.983	11.981	0.002	98	61426	50.0	52.3	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	97	254765	50.0	49.2	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	84	163378	50.0	44.4	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	79	128123	50.0	45.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00117	Amount Added: 5.00	Units: mL
2,3DCLP SPK_00082	Amount Added: 5.00	Units: uL
8260 ADDS SPK_00133	Amount Added: 5.00	Units: uL
STD 2 SPK_00134	Amount Added: 5.00	Units: uL
CYCLOHEX SPK_00268	Amount Added: 5.00	Units: uL
POLRADDSSPK_00114	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D

Injection Date: 18-Jan-2022 20:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: ICV 2

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

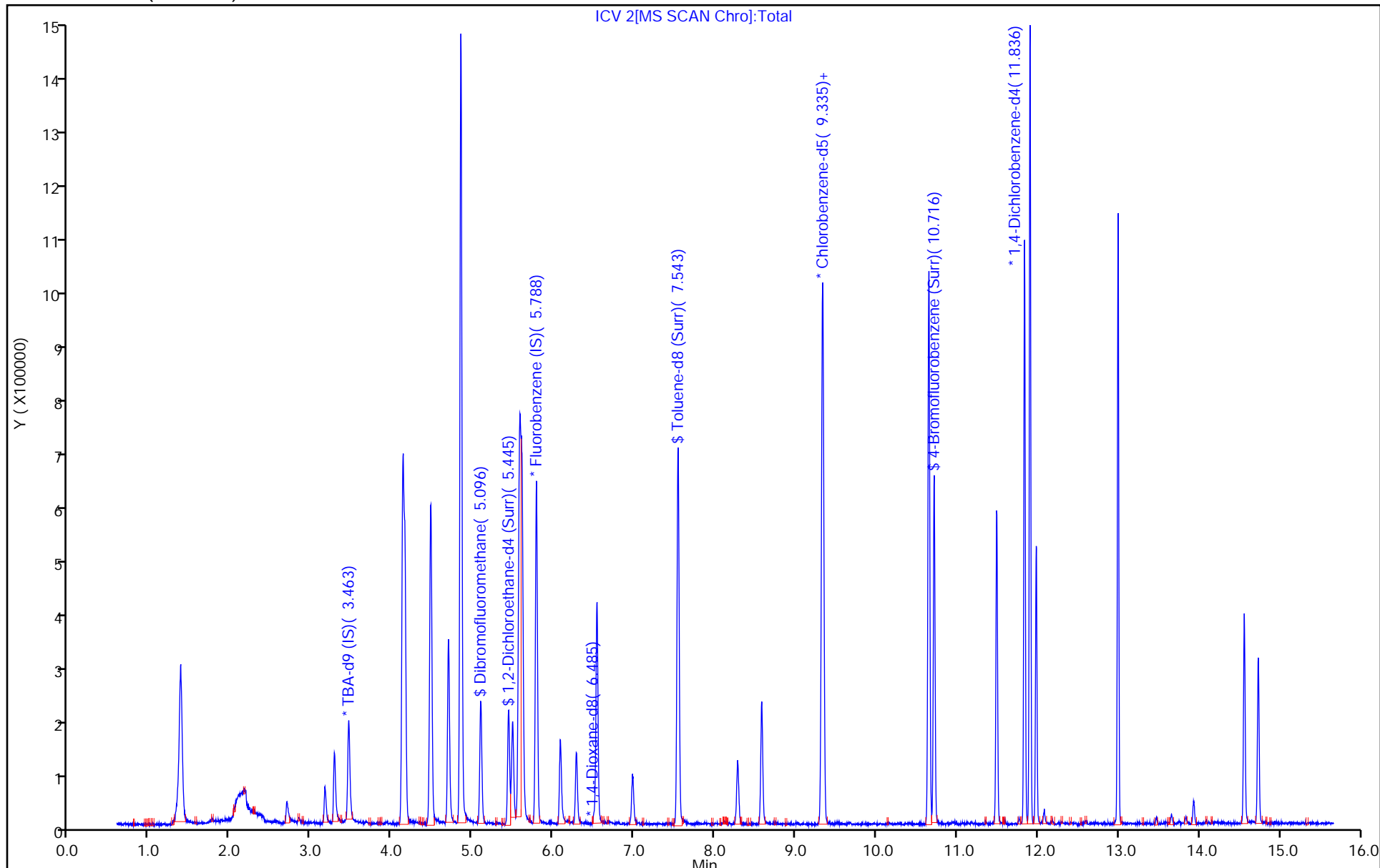
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



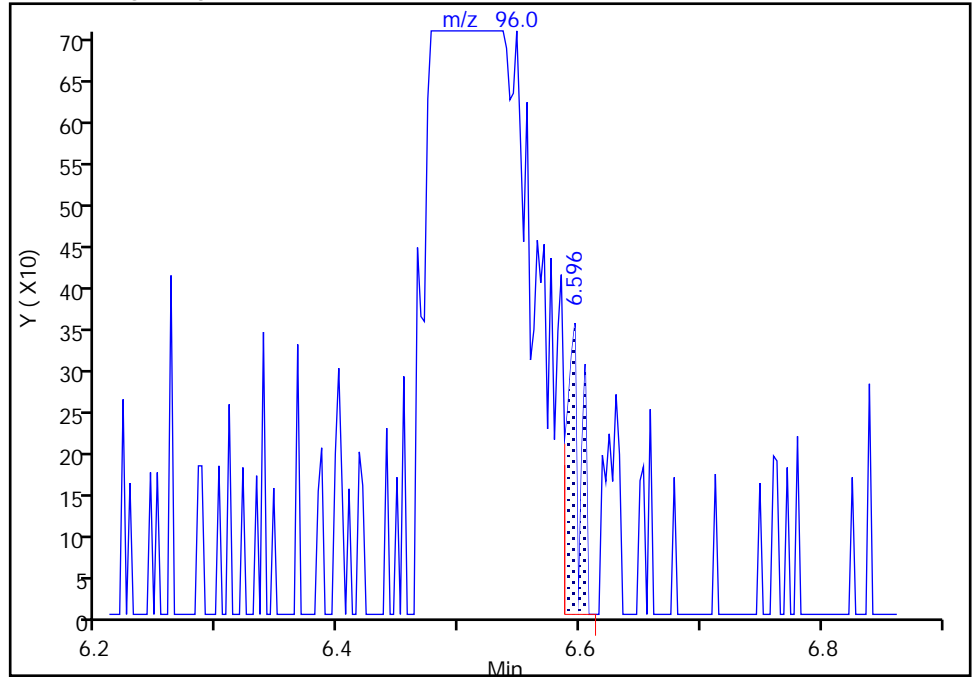
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

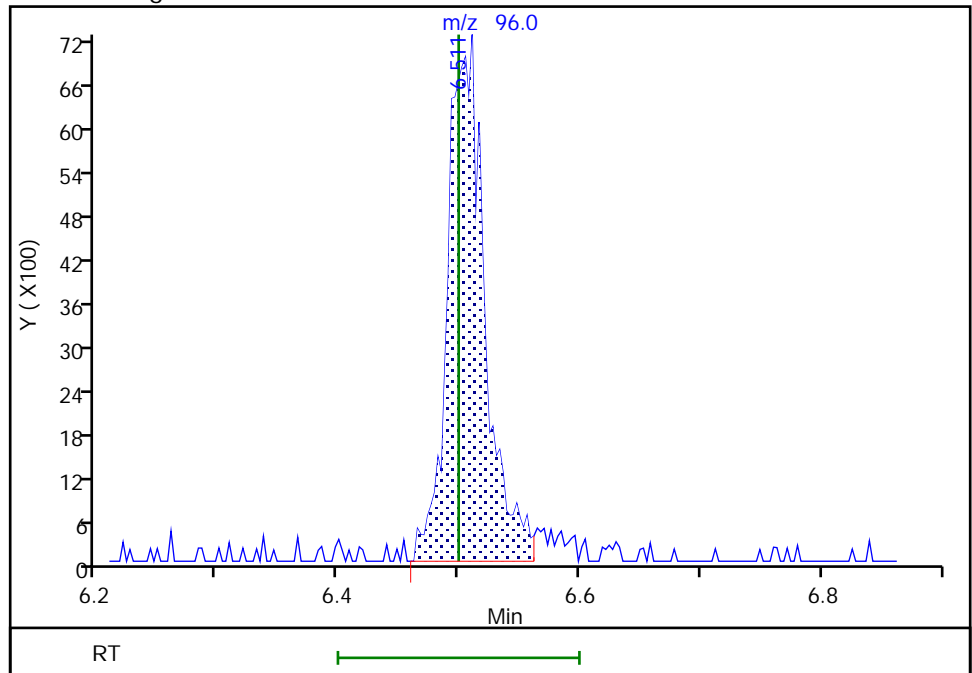
RT: 6.60
Area: 278
Amount: 1068.6000
Amount Units: UG/L

Processing Integration Results



RT: 6.51
Area: 15290
Amount: 1068.6000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:36
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

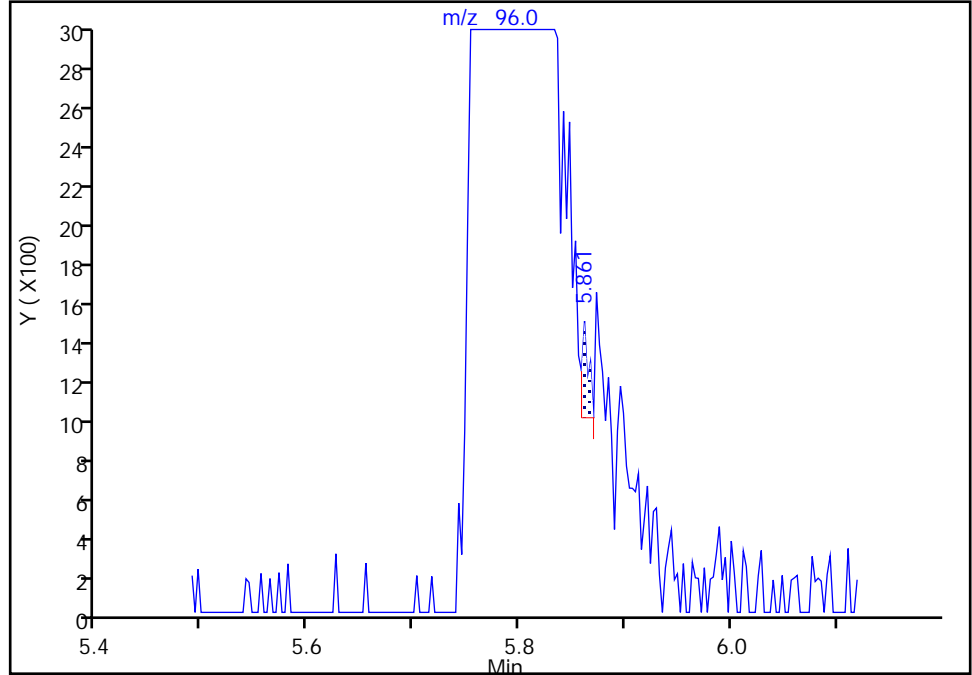
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

ALS Bottle#: 21 Worklist Smp#: 22
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector MS SCAN

* 55 Fluorobenzene (IS), CAS: 462-06-6
Signal: 1

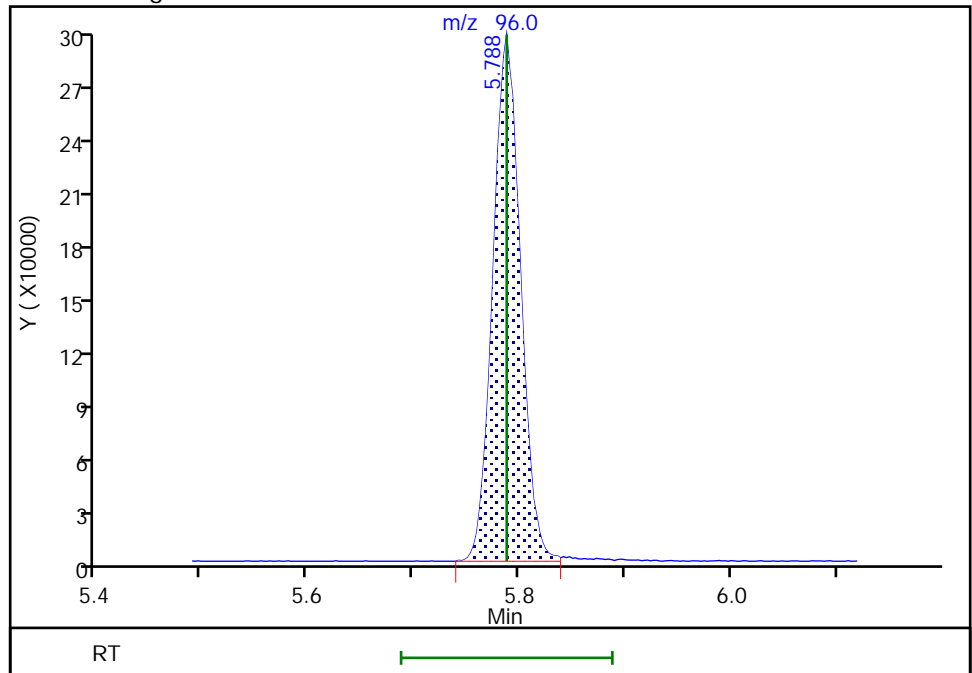
RT: 5.86
Area: 205
Amount: 53.430000
Amount Units: UG/L

Processing Integration Results



RT: 5.79
Area: 524419
Amount: 53.430000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638287/22 Calibration Date: 01/18/2022 20:07
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: ICV 2.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2403	0.2280	0.0100	50.7	53.4	-5.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2495	0.2353	0.0100	50.4	53.4	-5.7	30.0
Toluene-d8 (Surr)	Ave	1.300	1.277	0.0100	52.5	53.4	-1.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7938	0.8020	0.0100	54.0	53.4	1.0	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
 Lims ID: ICV 2
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Jan-2022 20:07:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV 2
 Misc. Info.: 500-0083302-022
 Operator ID: Instrument ID: CMS16
 Sublist:

Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:46:31 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello Date: 20-Jan-2022 14:25:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.697	2.700	-0.003	98	50091	2000.0	2061.1	
18 Isopropyl alcohol	45	3.168	3.171	-0.003	95	76976	500.0	490.4	
19 Acetonitrile	41	3.287	3.284	0.003	99	136872	500.0	564.5	
* 23 TBA-d9 (IS)	65	3.463	3.465	-0.002	95	209373	1068.6	1068.6	
32 Isopropyl ether	45	4.135	4.135	0.000	94	506763	50.0	54.4	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	98	234482	50.0	52.5	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	98	484422	50.0	57.5	
38 Ethyl acetate	43	4.696	4.696	0.000	99	207068	100.0	112.8	
37 Propionitrile	54	4.699	4.699	0.000	82	148307	500.0	564.6	
40 Methacrylonitrile	41	4.849	4.852	-0.003	93	650971	500.0	538.7	
\$ 43 Dibromofluoromethane	113	5.099	5.096	0.003	71	119574	53.4	50.7	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.445	5.442	0.003	97	123417	53.4	50.4	
52 Isooctane	57	5.578	5.578	0.000	97	710116	50.0	53.6	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	94	429275	50.0	55.5	
* 55 Fluorobenzene (IS)	96	5.788	5.788	0.000	99	524419	53.4	53.4	a
56 n-Butanol	56	6.085	6.086	-0.001	87	85724	1250.0	1292.9	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	131720	50.0	56.7	a
* 62 1,4-Dioxane-d8	96	6.511	6.500	0.011	62	15290	1068.6	1068.6	a
64 Methyl methacrylate	41	6.539	6.536	0.003	89	192809	100.0	111.0	
67 2-Nitropropane	43	6.984	6.982	0.002	94	63950	100.0	111.3	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	85	477982	53.4	52.5	
79 n-Butyl acetate	43	8.581	8.578	0.003	95	166535	50.0	54.7	
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	86	374165	53.4	53.4	
83 1-Chlorohexane	55	9.341	9.338	0.003	90	132932	50.0	49.1	
92 Cyclohexanone	55	10.648	10.648	0.000	96	383488	5000.0	5677.3	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	178212	53.4	54.0	
105 Pentachloroethane	167	11.490	11.490	0.000	94	88833	50.0	50.7	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	222196	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	91	647388	50.0	51.9	

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
113 Benzyl chloride	126	11.983	11.981	0.002	98	61426	50.0	52.3	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	97	254765	50.0	49.2	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	84	163378	50.0	44.4	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	79	128123	50.0	45.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00117	Amount Added: 5.00	Units: mL
2,3DCLP SPK_00082	Amount Added: 5.00	Units: uL
8260 ADDS SPK_00133	Amount Added: 5.00	Units: uL
STD 2 SPK_00134	Amount Added: 5.00	Units: uL
CYCLOHEX SPK_00268	Amount Added: 5.00	Units: uL
POLRADDSSPK_00114	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D

Injection Date: 18-Jan-2022 20:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: ICV 2

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

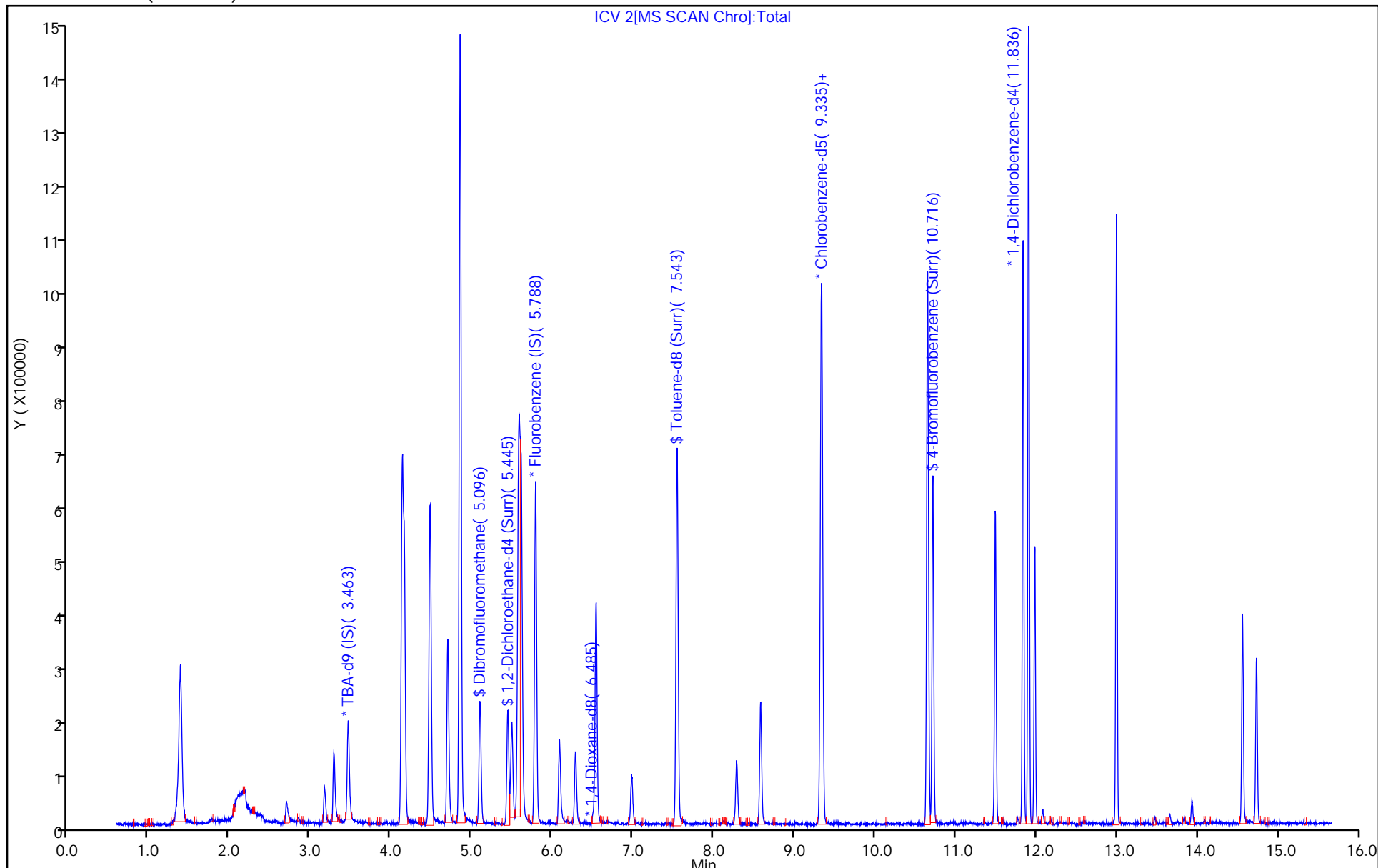
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



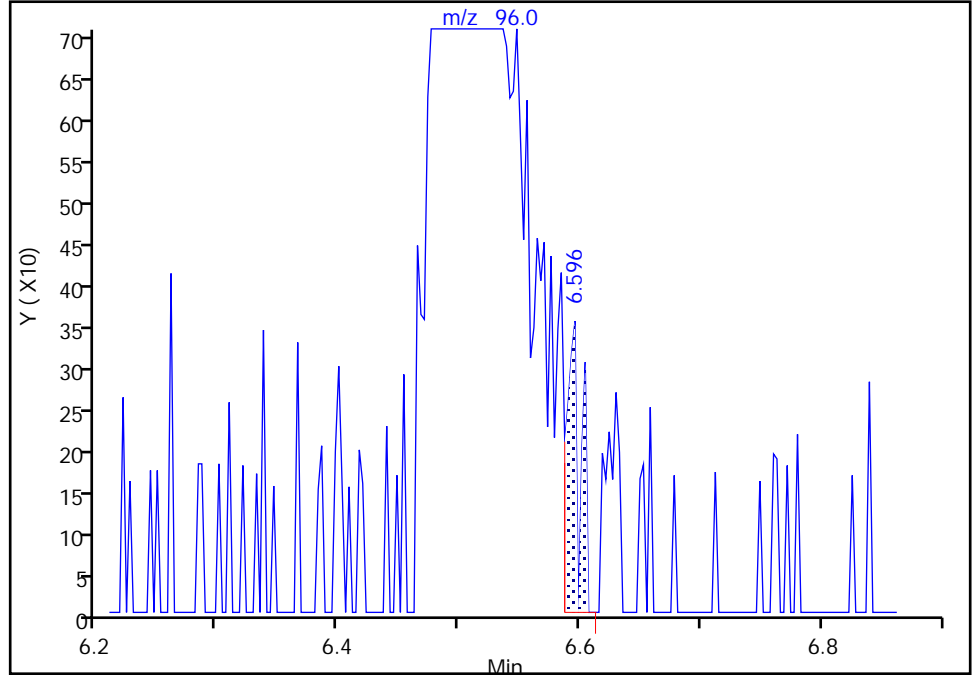
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID: ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

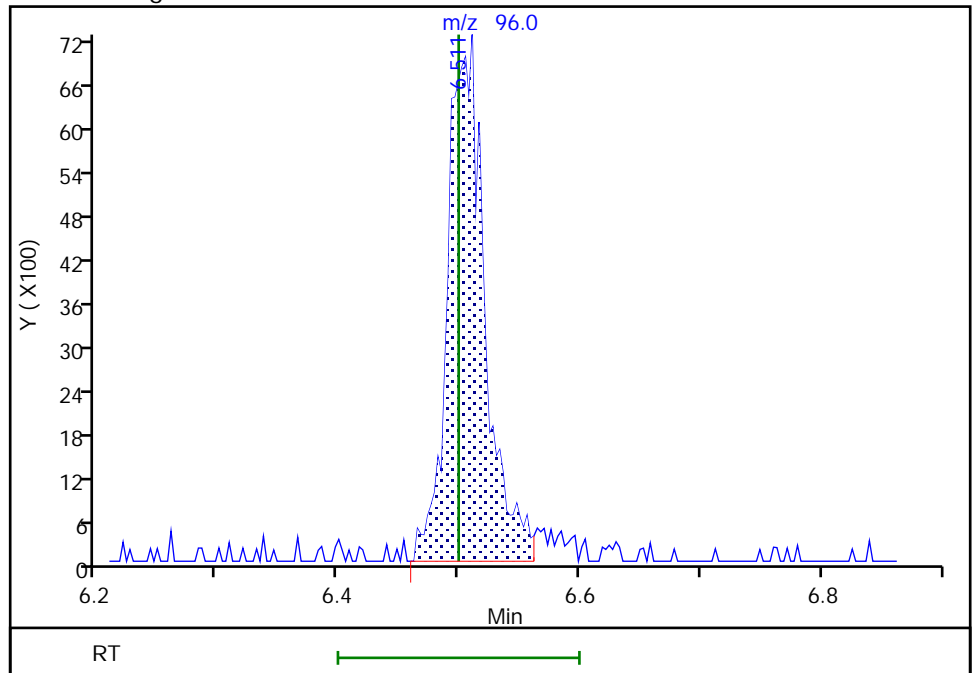
RT: 6.60
Area: 278
Amount: 1068.6000
Amount Units: UG/L

Processing Integration Results



RT: 6.51
Area: 15290
Amount: 1068.6000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:36
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

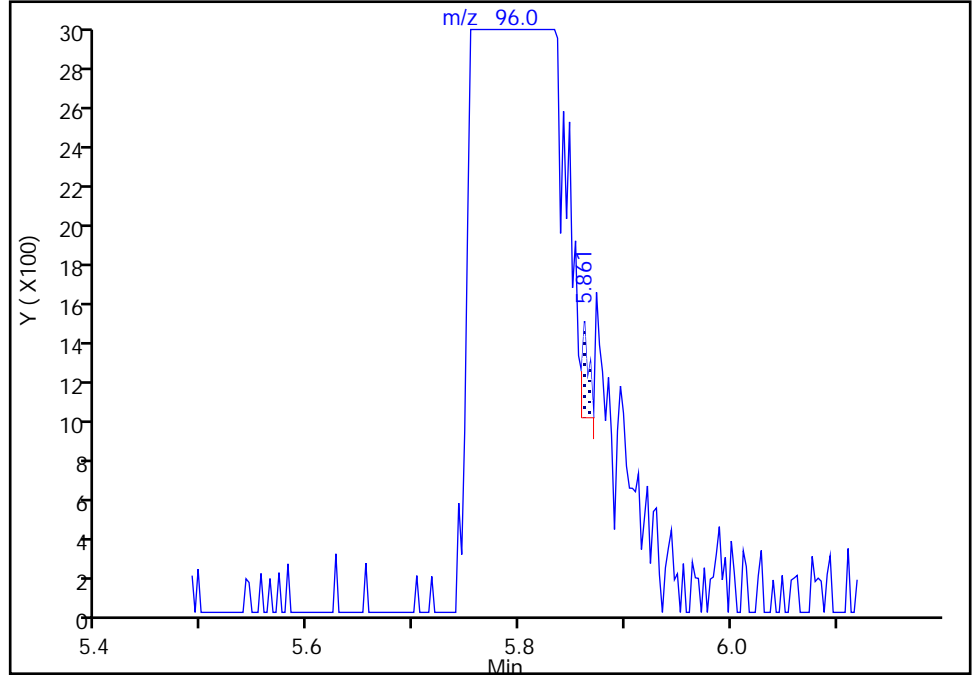
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

ALS Bottle#: 21 Worklist Smp#: 22
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

* 55 Fluorobenzene (IS), CAS: 462-06-6
Signal: 1

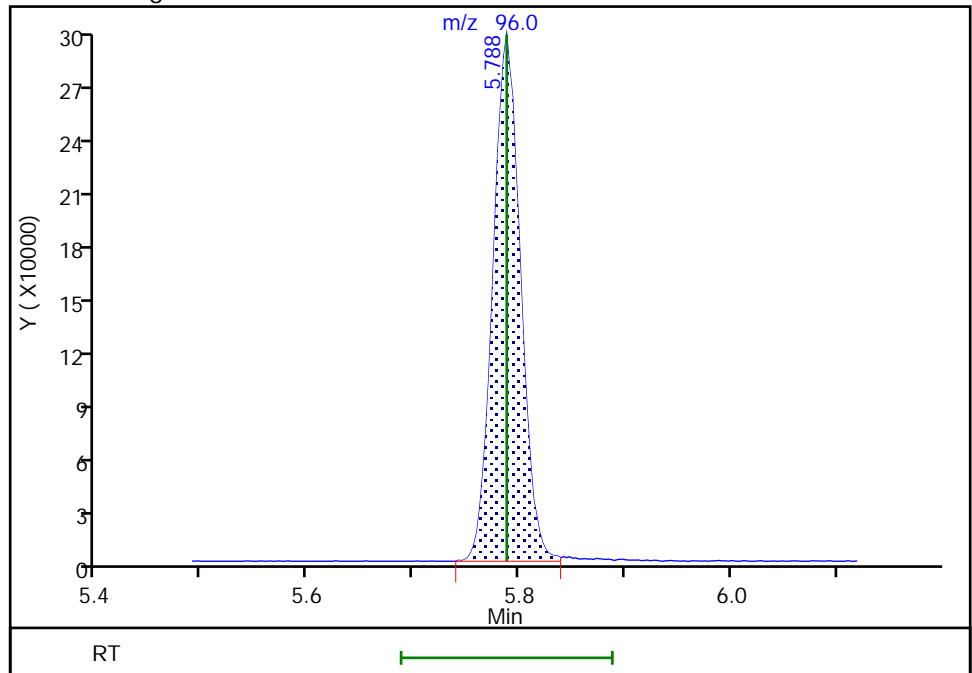
RT: 5.86
Area: 205
Amount: 53.430000
Amount Units: UG/L

Processing Integration Results



RT: 5.79
Area: 524419
Amount: 53.430000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638287/22 Calibration Date: 01/18/2022 20:07
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 15:24
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 17:58
 Lab File ID: ICV 2.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.1240	0.1278	0.0010	2060	2000	3.1	30.0
Isopropyl alcohol	Ave	0.8011	0.7857	0.0010	490	500	-1.9	30.0
Acetonitrile	Ave	0.0247	0.0279	0.0010	565	500	12.9	30.0
Isopropyl ether	Ave	0.9487	1.033	0.0100	54.4	50.0	8.8	30.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.4778	0.0100	52.5	50.0	5.1	30.0
Tert-butyl ethyl ether	Ave	0.8585	0.9871	0.0010	57.5	50.0	15.0	30.0
Ethyl acetate	Lin1		0.2110	0.0100	113	100	12.8	30.0
Propionitrile	Ave	0.0268	0.0302	0.0010	565	500	12.9	30.0
Methacrylonitrile	Ave	0.1231	0.1326	0.0100	539	500	7.7	30.0
Isooctane	Ave	1.350	1.447	0.0100	53.6	50.0	7.2	30.0
Tert-amyl methyl ether	Ave	0.7879	0.8747	0.0100	55.5	50.0	11.0	30.0
n-Butyl alcohol	Ave	0.3384	0.3500	0.0010	1290	1250	3.4	30.0
Ethyl acrylate	Ave	0.2368	0.2684	0.0010	56.7	50.0	13.3	30.0
Methyl methacrylate	Ave	0.1770	0.1964	0.0100	111	100	11.0	30.0
2-Nitropropane	Ave	0.0821	0.0913	0.0100	111	100	11.3	30.0
n-Butyl acetate	Ave	0.4348	0.4756	0.0010	54.7	50.0	9.4	30.0
1-Chlorohexane	Lin1		0.3796	0.0100	49.1	50.0	-1.9	30.0
Cyclohexanone	Ave	0.0162	0.0184	0.0100	5680	5000	13.5	30.0
Pentachloroethane	Ave	0.4212	0.4272	0.0100	50.7	50.0	1.4	30.0
1,2,3-Trimethylbenzene	Ave	2.998	3.113	0.0010	51.9	50.0	3.8	30.0
Benzyl chloride	Ave	0.2826	0.2954	0.0010	52.3	50.0	4.5	30.0
1,3,5-Trichlorobenzene	Ave	1.246	1.225	0.0100	49.2	50.0	-1.7	30.0
2-Methylnaphthalene	Lin1		0.7857	0.0100	44.4	50.0	-11.2	30.0
1-Methylnaphthalene	Lin1		0.6162	0.0100	45.6	50.0	-8.8	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
 Lims ID: ICV 2
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Jan-2022 20:07:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV 2
 Misc. Info.: 500-0083302-022
 Operator ID: Instrument ID: CMS16
 Sublist:

Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:46:31 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarello Date: 20-Jan-2022 14:25:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.697	2.700	-0.003	98	50091	2000.0	2061.1	
18 Isopropyl alcohol	45	3.168	3.171	-0.003	95	76976	500.0	490.4	
19 Acetonitrile	41	3.287	3.284	0.003	99	136872	500.0	564.5	
* 23 TBA-d9 (IS)	65	3.463	3.465	-0.002	95	209373	1068.6	1068.6	
32 Isopropyl ether	45	4.135	4.135	0.000	94	506763	50.0	54.4	
31 2-Chloro-1,3-butadiene	53	4.157	4.157	0.000	98	234482	50.0	52.5	
33 Tert-butyl ethyl ether	59	4.478	4.475	0.003	98	484422	50.0	57.5	
38 Ethyl acetate	43	4.696	4.696	0.000	99	207068	100.0	112.8	
37 Propionitrile	54	4.699	4.699	0.000	82	148307	500.0	564.6	
40 Methacrylonitrile	41	4.849	4.852	-0.003	93	650971	500.0	538.7	
\$ 43 Dibromofluoromethane	113	5.099	5.096	0.003	71	119574	53.4	50.7	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.445	5.442	0.003	97	123417	53.4	50.4	
52 Isooctane	57	5.578	5.578	0.000	97	710116	50.0	53.6	
53 Tert-amyl methyl ether	73	5.609	5.609	0.000	94	429275	50.0	55.5	
* 55 Fluorobenzene (IS)	96	5.788	5.788	0.000	99	524419	53.4	53.4	a
56 n-Butanol	56	6.085	6.086	-0.001	87	85724	1250.0	1292.9	
58 Ethyl acrylate	55	6.281	6.287	-0.006	99	131720	50.0	56.7	a
* 62 1,4-Dioxane-d8	96	6.511	6.500	0.011	62	15290	1068.6	1068.6	a
64 Methyl methacrylate	41	6.539	6.536	0.003	89	192809	100.0	111.0	
67 2-Nitropropane	43	6.984	6.982	0.002	94	63950	100.0	111.3	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	85	477982	53.4	52.5	
79 n-Butyl acetate	43	8.581	8.578	0.003	95	166535	50.0	54.7	
* 82 Chlorobenzene-d5	117	9.329	9.327	0.002	86	374165	53.4	53.4	
83 1-Chlorohexane	55	9.341	9.338	0.003	90	132932	50.0	49.1	
92 Cyclohexanone	55	10.648	10.648	0.000	96	383488	5000.0	5677.3	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.716	10.716	0.000	0	178212	53.4	54.0	
105 Pentachloroethane	167	11.490	11.490	0.000	94	88833	50.0	50.7	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	222196	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.904	11.904	0.000	91	647388	50.0	51.9	

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
113 Benzyl chloride	126	11.983	11.981	0.002	98	61426	50.0	52.3	
117 1,3,5-Trichlorobenzene	180	12.996	12.993	0.003	97	254765	50.0	49.2	
122 2-Methylnaphthalene	142	14.558	14.561	-0.003	84	163378	50.0	44.4	
123 1-Methylnaphthalene	142	14.731	14.731	0.000	79	128123	50.0	45.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00117	Amount Added: 5.00	Units: mL
2,3DCLP SPK_00082	Amount Added: 5.00	Units: uL
8260 ADDS SPK_00133	Amount Added: 5.00	Units: uL
STD 2 SPK_00134	Amount Added: 5.00	Units: uL
CYCLOHEX SPK_00268	Amount Added: 5.00	Units: uL
POLRADDSSPK_00114	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D

Injection Date: 18-Jan-2022 20:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: ICV 2

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

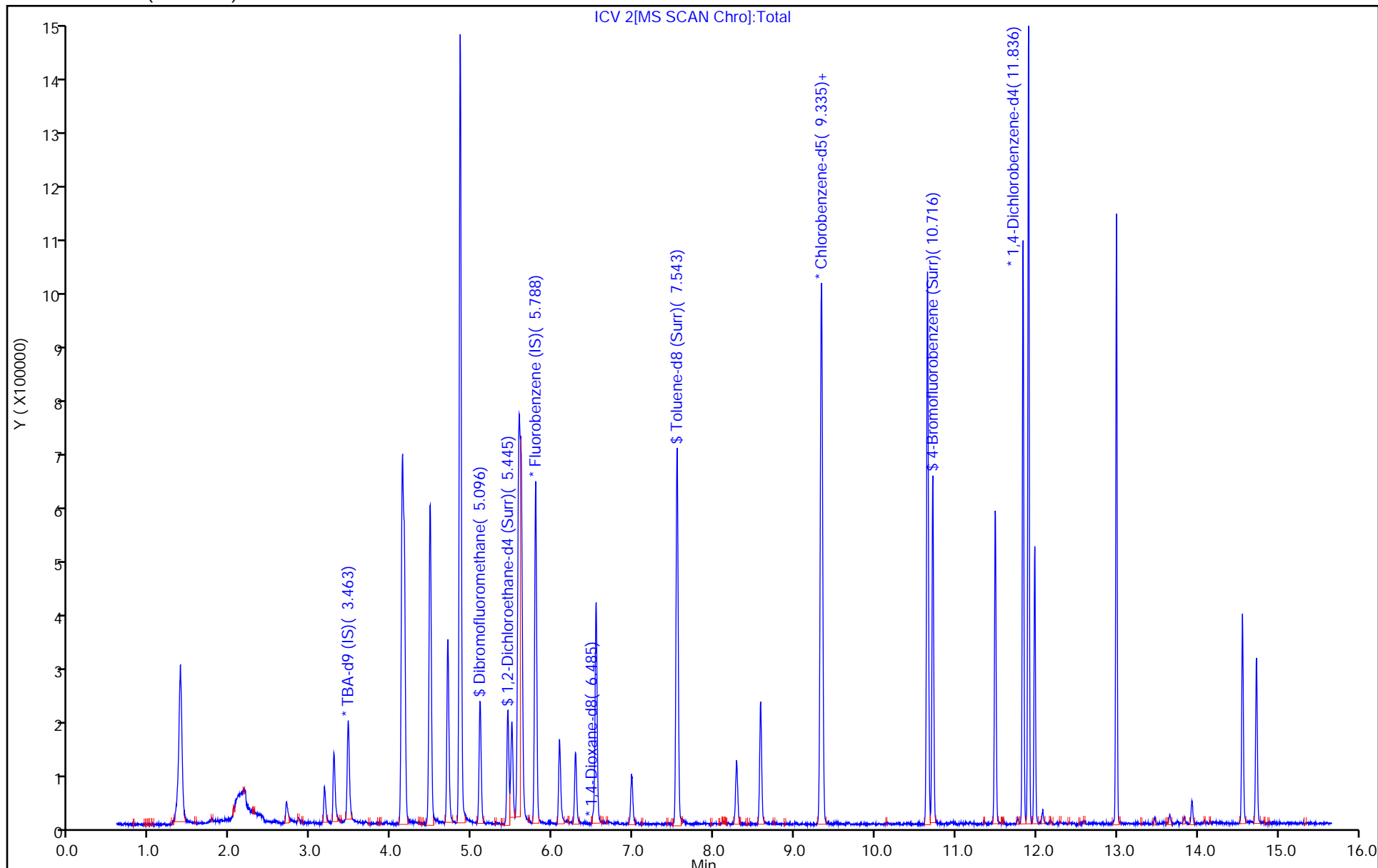
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

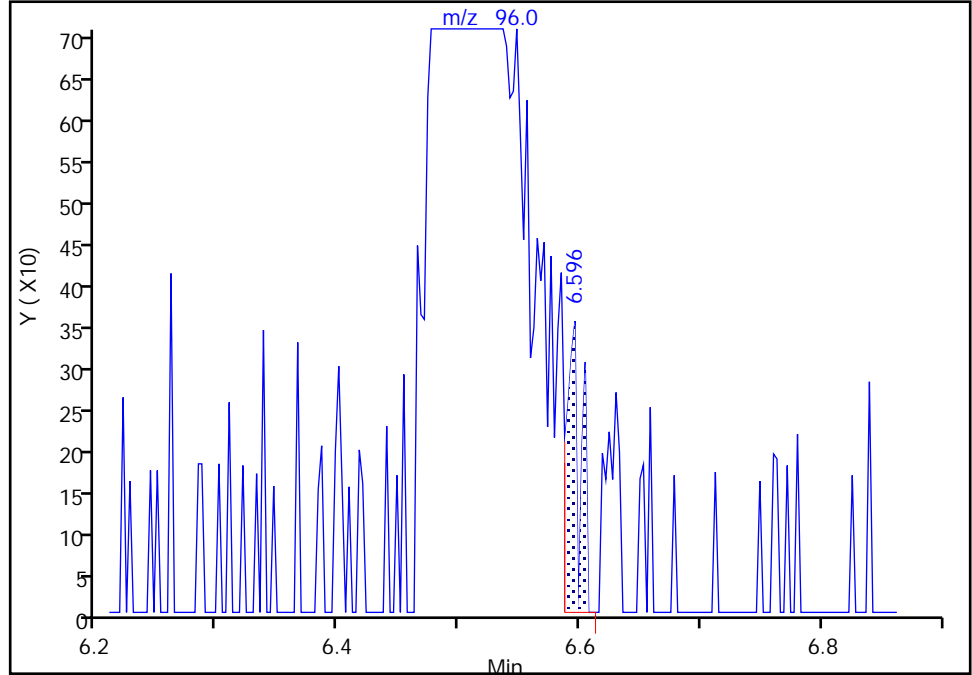
Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

ALS Bottle#: 21 Worklist Smp#: 22
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

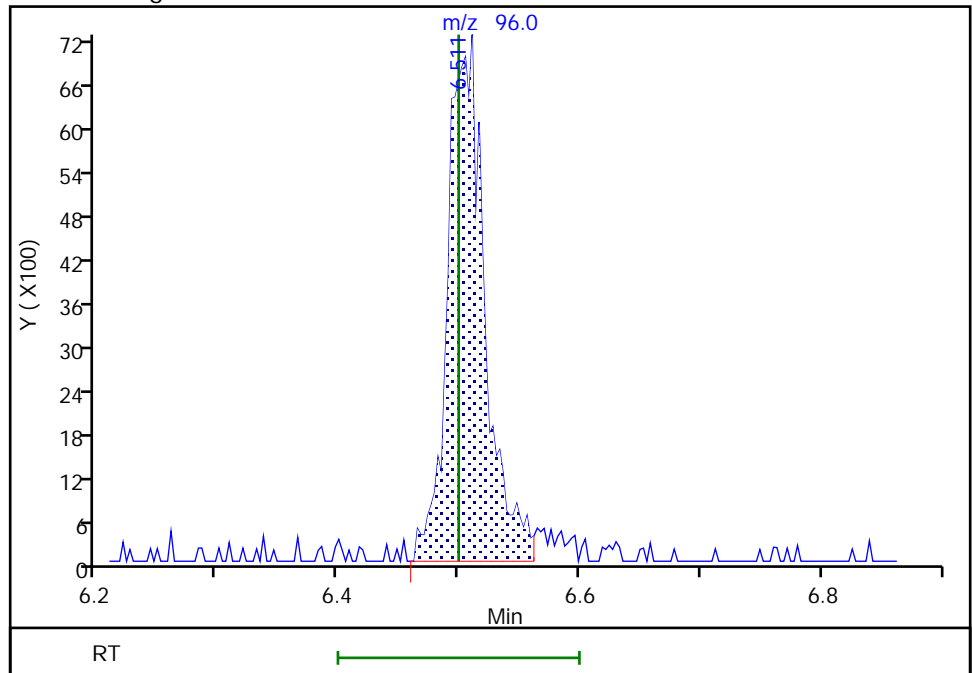
RT: 6.60
Area: 278
Amount: 1068.6000
Amount Units: UG/L

Processing Integration Results



RT: 6.51
Area: 15290
Amount: 1068.6000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:36
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

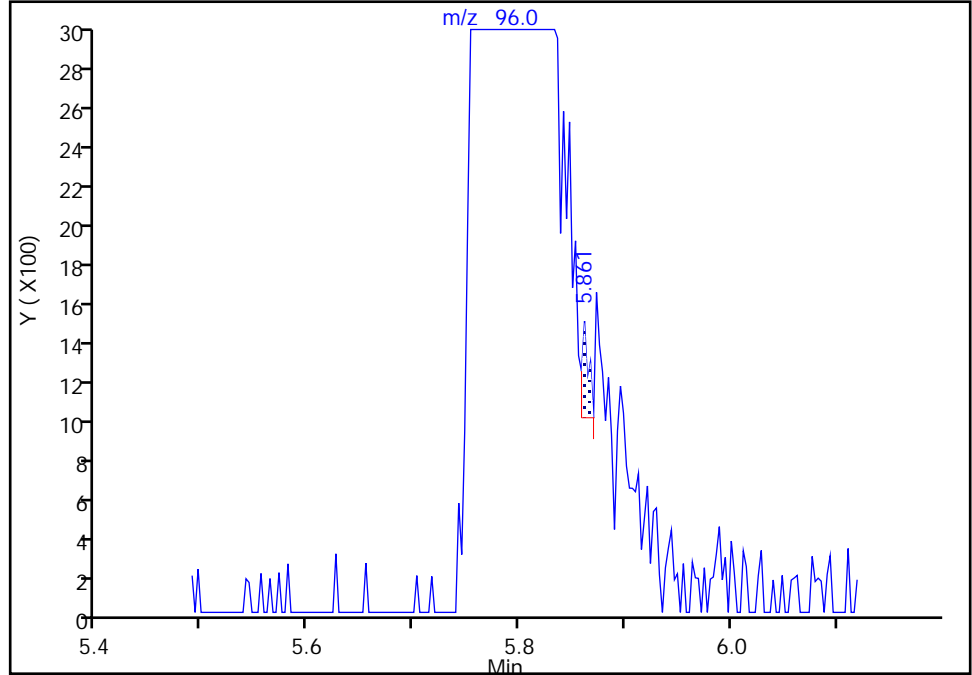
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Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

ALS Bottle#: 21 Worklist Smp#: 22
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

* 55 Fluorobenzene (IS), CAS: 462-06-6
Signal: 1

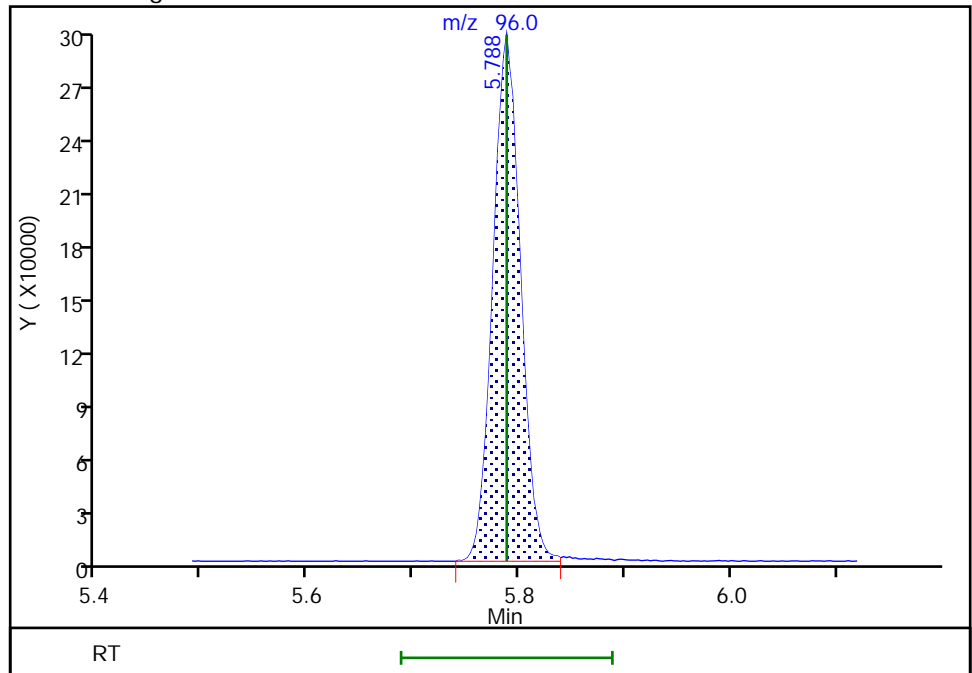
RT: 5.86
Area: 205
Amount: 53.430000
Amount Units: UG/L

Processing Integration Results



RT: 5.79
Area: 524419
Amount: 53.430000
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 18-Jan-2022 20:33:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\ICV 2.D
Injection Date: 18-Jan-2022 20:07:30 Instrument ID: CMS16
Lims ID: ICV 2
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

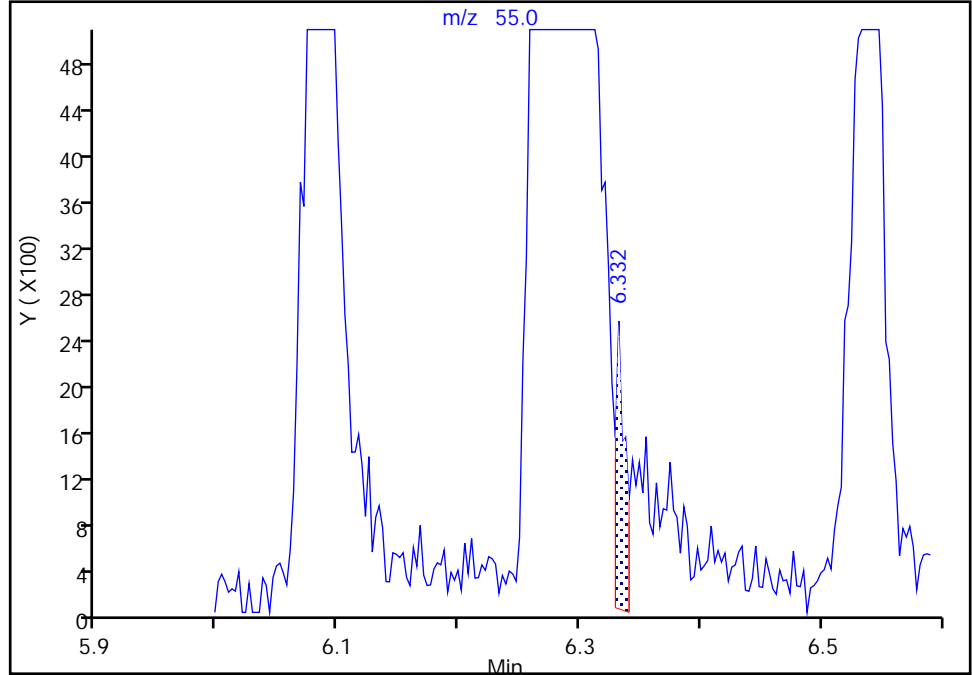
ALS Bottle#: 21 Worklist Smp#: 22
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector MS SCAN

58 Ethyl acrylate, CAS: 140-88-5

Signal: 1

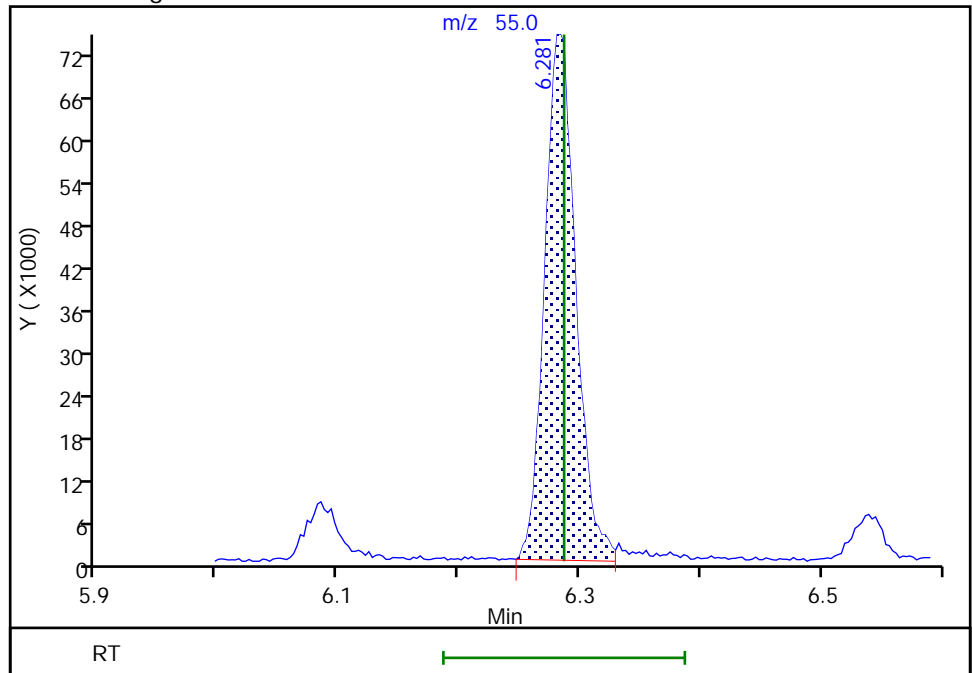
RT: 6.33
Area: 1344
Amount: 0.578192
Amount Units: UG/L

Processing Integration Results



RT: 6.28
Area: 131720
Amount: 56.666279
Amount Units: UG/L

Manual Integration Results



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638461/3 Calibration Date: 01/19/2022 09:45
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: ICV 1.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3890	0.4842	0.0100	62.2	50.0	24.5	30.0
Chloromethane	Lin1		0.5580	0.1000	62.9	50.0	25.8	30.0
Vinyl chloride	Ave	0.4126	0.4714	0.0100	57.1	50.0	14.2	30.0
Butadiene	Ave	0.4453	0.4543	0.0100	51.0	50.0	2.0	30.0
Bromomethane	Ave	0.2925	0.3297	0.0100	56.4	50.0	12.7	30.0
Chloroethane	Ave	0.2487	0.2747	0.0100	55.2	50.0	10.5	30.0
Dichlorofluoromethane	Ave	0.5689	0.6001	0.0100	52.7	50.0	5.5	30.0
Trichlorofluoromethane	Ave	0.5092	0.5534	0.0100	54.3	50.0	8.7	30.0
Ethyl ether	Ave	0.2060	0.2073	0.0100	50.3	50.0	0.6	30.0
Acrolein	Lin1		0.0162	0.0010	1330	2000	-33.3*	30.0
1,1-Dichloroethene	Ave	0.2778	0.2743	0.0100	49.4	50.0	-1.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3207	0.3170	0.0100	49.4	50.0	-1.1	30.0
Acetone	Ave	0.0676	0.0687	0.0100	50.8	50.0	1.6	30.0
Iodomethane	Ave	0.4598	0.4510	0.0100	49.0	50.0	-1.9	30.0
Carbon disulfide	Ave	0.9798	0.9909	0.0100	50.6	50.0	1.1	30.0
3-Chloropropene	Ave	0.1686	0.1771	0.0100	52.5	50.0	5.1	30.0
Methyl acetate	Ave	0.1396	0.1379	0.0100	98.8	100	-1.2	30.0
Methylene Chloride	Ave	0.2912	0.2948	0.0100	50.6	50.0	1.2	30.0
tert-Butyl alcohol	Ave	1.316	1.147	0.0100	436	500	-12.8	30.0
Acrylonitrile	Ave	0.0739	0.0715	0.0010	483	500	-3.3	30.0
trans-1,2-Dichloroethene	Ave	0.2992	0.2964	0.0100	49.5	50.0	-0.9	30.0
Methyl tert-butyl ether	Ave	0.7176	0.7037	0.0100	49.0	50.0	-1.9	30.0
Hexane	Ave	0.4536	0.4507	0.0100	49.7	50.0	-0.6	30.0
1,1-Dichloroethane	Ave	0.4940	0.4848	0.1000	49.1	50.0	-1.9	30.0
Vinyl acetate	Ave	0.4283	0.4651	0.0100	54.3	50.0	8.6	30.0
2,2-Dichloropropane	Ave	0.2251	0.2273	0.0100	50.5	50.0	1.0	30.0
cis-1,2-Dichloroethene	Ave	0.3041	0.2969	0.0100	48.8	50.0	-2.4	30.0
2-Butanone (MEK)	Ave	0.0829	0.0810	0.0100	48.9	50.0	-2.3	30.0
Bromochloromethane	Ave	0.1332	0.1285	0.0100	48.2	50.0	-3.5	30.0
Tetrahydrofuran	Lin1		0.0570	0.0100	94.5	100	-5.5	30.0
Chloroform	Ave	0.4562	0.4474	0.0100	49.0	50.0	-1.9	30.0
1,1,1-Trichloroethane	Ave	0.4362	0.4330	0.0100	49.6	50.0	-0.7	30.0
Cyclohexane	Ave	0.5786	0.5842	0.0100	50.5	50.0	1.0	30.0
1,1-Dichloropropene	Ave	0.3673	0.3517	0.0100	47.9	50.0	-4.3	30.0
Carbon tetrachloride	Ave	0.4032	0.3937	0.0100	48.8	50.0	-2.4	30.0
Isobutyl alcohol	Ave	0.5398	0.5044	0.0010	1170	1250	-6.6	30.0
Benzene	Ave	1.100	1.073	0.0100	48.8	50.0	-2.5	30.0
1,2-Dichloroethane	Ave	0.3102	0.2932	0.0100	47.3	50.0	-5.5	30.0
Heptane	Ave	0.4696	0.4519	0.0100	48.1	50.0	-3.8	30.0
Trichloroethene	Ave	0.2795	0.2693	0.0100	48.2	50.0	-3.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638461/3 Calibration Date: 01/19/2022 09:45
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: ICV 1.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5791	0.5746	0.0100	49.6	50.0	-0.8	30.0
1,2-Dichloropropane	Ave	0.2603	0.2579	0.0100	49.5	50.0	-0.9	30.0
Dibromomethane	Ave	0.1359	0.1342	0.0100	49.4	50.0	-1.2	30.0
1,4-Dioxane	Ave	1.449	1.187	0.0010	819	1000	-18.1	30.0
Dichlorobromomethane	Ave	0.3313	0.3165	0.0100	47.8	50.0	-4.4	30.0
2-Chloroethyl vinyl ether	Ave	0.1120	0.1162	0.0100	51.9	50.0	3.7	30.0
cis-1,3-Dichloropropene	Ave	0.5451	0.5354	0.0100	49.1	50.0	-1.8	30.0
methyl isobutyl ketone	Ave	0.2900	0.2817	0.0100	48.6	50.0	-2.8	30.0
Toluene	Ave	0.9320	0.9129	0.0100	49.0	50.0	-2.0	30.0
trans-1,3-Dichloropropene	Ave	0.4845	0.4696	0.0100	48.5	50.0	-3.1	30.0
Ethyl methacrylate	Ave	0.3770	0.3631	0.0100	48.2	50.0	-3.7	30.0
1,1,2-Trichloroethane	Ave	0.2605	0.2469	0.0100	47.4	50.0	-5.2	30.0
Tetrachloroethene	Ave	0.3896	0.3952	0.0100	50.7	50.0	1.4	30.0
1,3-Dichloropropane	Ave	0.4514	0.4345	0.0100	48.1	50.0	-3.8	30.0
2-Hexanone	Ave	0.1930	0.1904	0.0100	49.3	50.0	-1.4	30.0
Chlorodibromomethane	Ave	0.3229	0.3068	0.0100	47.5	50.0	-5.0	30.0
Ethylene Dibromide	Ave	0.2600	0.2465	0.0100	47.4	50.0	-5.2	30.0
Chlorobenzene	Ave	0.996	0.9897	0.3000	49.7	50.0	-0.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3884	0.3739	0.0100	48.1	50.0	-3.7	30.0
Ethylbenzene	Ave	0.5637	0.5632	0.0100	50.0	50.0	-0.0	30.0
m&p-Xylene	Ave	1.377	1.357	0.0100	49.3	50.0	-1.4	30.0
o-Xylene	Ave	1.465	1.458	0.0100	49.8	50.0	-0.5	30.0
Styrene	Ave	1.181	1.133	0.0100	48.0	50.0	-4.1	30.0
Bromoform	Ave	0.2124	0.1999	0.1000	47.1	50.0	-5.9	30.0
Isopropylbenzene	Ave	3.063	3.105	0.0100	50.7	50.0	1.3	30.0
Bromobenzene	Ave	0.7132	0.7069	0.0100	49.6	50.0	-0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5913	0.5974	0.3000	50.5	50.0	1.0	30.0
1,2,3-Trichloropropane	Ave	0.1734	0.1575	0.0100	45.4	50.0	-9.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1799	0.1882	0.0100	52.3	50.0	4.6	30.0
N-Propylbenzene	Ave	3.604	3.668	0.0100	50.9	50.0	1.8	30.0
2-Chlorotoluene	Ave	2.073	2.109	0.0100	50.9	50.0	1.7	30.0
1,3,5-Trimethylbenzene	Ave	2.681	2.699	0.0100	50.3	50.0	0.7	30.0
4-Chlorotoluene	Ave	2.471	2.450	0.0100	49.6	50.0	-0.9	30.0
tert-Butylbenzene	Ave	2.431	2.420	0.0100	49.8	50.0	-0.4	30.0
1,2,4-Trimethylbenzene	Ave	2.723	2.750	0.0100	50.5	50.0	1.0	30.0
sec-Butylbenzene	Ave	3.682	3.703	0.0100	50.3	50.0	0.6	30.0
1,3-Dichlorobenzene	Ave	1.551	1.543	0.0100	49.8	50.0	-0.5	30.0
p-Isopropyltoluene	Ave	3.196	3.209	0.0100	50.2	50.0	0.4	30.0
1,4-Dichlorobenzene	Ave	1.587	1.577	0.0100	49.7	50.0	-0.6	30.0
n-Butylbenzene	Ave	2.959	3.008	0.0100	50.8	50.0	1.6	30.0
1,2-Dichlorobenzene	Ave	1.489	1.467	0.0100	49.2	50.0	-1.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-638461/3 Calibration Date: 01/19/2022 09:45
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: ICV 1.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1040	0.0999	0.0100	48.1	50.0	-3.9	30.0
1,2,4-Trichlorobenzene	Ave	0.9302	0.9426	0.0100	50.7	50.0	1.3	30.0
Hexachlorobutadiene	Ave	0.5734	0.5760	0.0100	50.2	50.0	0.5	30.0
Naphthalene	Ave	1.775	1.697	0.0100	47.8	50.0	-4.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7354	0.7230	0.0100	49.2	50.0	-1.7	30.0
Dibromofluoromethane	Ave	0.2403	0.2280	0.0100	50.7	53.4	-5.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2495	0.2331	0.0100	49.9	53.4	-6.5	30.0
Toluene-d8 (Surr)	Ave	1.300	1.304	0.0100	53.6	53.4	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7938	0.7649	0.0100	51.5	53.4	-3.6	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\ICV 1.D
 Lims ID: ICV 1
 Client ID:
 Sample Type: ICV
 Inject. Date: 19-Jan-2022 09:45:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV 1
 Misc. Info.: 500-0083323-003
 Operator ID: Instrument ID: CMS16
 Sublist:

Method: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:59:14 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1633

First Level Reviewer: ficarello Date: 20-Jan-2022 12:16:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.523	1.523	0.000	98	250616	50.0	62.2	
2 Chloromethane	50	1.713	1.716	-0.003	100	288787	50.0	62.9	
3 Vinyl chloride	62	1.824	1.832	-0.008	100	243970	50.0	57.1	
4 Butadiene	39	1.846	1.849	-0.003	94	235127	50.0	51.0	
5 Bromomethane	94	2.122	2.127	-0.005	90	170644	50.0	56.4	
6 Chloroethane	64	2.221	2.232	-0.011	98	142187	50.0	55.2	
7 Dichlorofluoromethane	67	2.433	2.442	-0.009	100	310601	50.0	52.7	
8 Trichlorofluoromethane	101	2.473	2.476	-0.003	97	286406	50.0	54.3	
11 Ethyl ether	59	2.757	2.757	0.000	93	107274	50.0	50.3	
12 Acrolein	56	2.876	2.879	-0.003	94	335441	2000.0	1334.2	
13 1,1-Dichloroethene	96	2.961	2.964	-0.003	98	141950	50.0	49.4	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.972	2.981	-0.009	90	164068	50.0	49.4	
15 Acetone	43	3.026	3.023	0.003	99	35540	50.0	50.8	
16 Iodomethane	142	3.103	3.105	-0.002	99	233424	50.0	49.0	
17 Carbon disulfide	76	3.165	3.168	-0.003	100	512852	50.0	50.6	
20 3-Chloro-1-propene	76	3.304	3.304	0.000	96	91661	50.0	52.5	
21 Methyl acetate	43	3.327	3.327	0.000	98	142758	100.0	98.8	
22 Methylene Chloride	84	3.417	3.417	0.000	94	152606	50.0	50.6	
* 23 TBA-d9 (IS)	65	3.457	3.465	-0.008	97	194565	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.531	3.531	0.000	98	104445	500.0	436.0	
25 Acrylonitrile	53	3.650	3.650	0.000	99	369975	500.0	483.4	
26 trans-1,2-Dichloroethene	96	3.673	3.675	-0.002	79	153425	50.0	49.5	
27 Methyl tert-butyl ether	73	3.675	3.675	0.000	91	364198	50.0	49.0	
28 Hexane	57	3.925	3.928	-0.003	94	233283	50.0	49.7	
29 1,1-Dichloroethane	63	4.070	4.070	0.000	98	250909	50.0	49.1	
30 Vinyl acetate	43	4.112	4.118	-0.006	99	240716	50.0	54.3	
35 cis-1,2-Dichloroethene	96	4.625	4.625	0.000	97	153657	50.0	48.8	
34 2,2-Dichloropropane	41	4.625	4.628	-0.003	67	117658	50.0	50.5	
36 2-Butanone (MEK)	43	4.640	4.637	0.003	54	41924	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.861	4.861	0.000	96	66509	50.0	48.2	
41 Tetrahydrofuran	42	4.906	4.909	-0.003	91	59025	100.0	94.5	
42 Chloroform	83	4.937	4.940	-0.003	97	231560	50.0	49.0	
\$ 43 Dibromofluoromethane	113	5.096	5.096	0.000	85	126128	53.4	50.7	
44 1,1,1-Trichloroethane	97	5.122	5.127	-0.005	98	224103	50.0	49.6	
45 Cyclohexane	56	5.178	5.184	-0.006	94	302373	50.0	50.5	
47 1,1-Dichloropropene	75	5.286	5.292	-0.006	89	182033	50.0	47.9	
46 Carbon tetrachloride	117	5.292	5.292	0.000	92	203745	50.0	48.8	
49 Isobutyl alcohol	43	5.391	5.391	0.000	95	114791	1250.0	1168.0	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.442	-0.006	98	128940	53.4	49.9	
50 Benzene	78	5.502	5.502	0.000	96	555310	50.0	48.8	
51 1,2-Dichloroethane	62	5.516	5.521	-0.005	74	151745	50.0	47.3	
54 n-Heptane	43	5.765	5.765	0.000	92	233867	50.0	48.1	
* 55 Fluorobenzene (IS)	96	5.785	5.788	-0.003	98	553078	53.4	53.4	
57 Trichloroethene	130	6.174	6.174	0.000	98	139393	50.0	48.2	
59 Methylcyclohexane	83	6.381	6.383	-0.002	94	297409	50.0	49.6	
60 1,2-Dichloropropane	63	6.417	6.423	-0.006	90	133481	50.0	49.5	
* 62 1,4-Dioxane-d8	96	6.497	6.500	-0.003	64	13584	1068.6	1068.6	
63 Dibromomethane	93	6.548	6.551	-0.003	89	69479	50.0	49.4	
65 1,4-Dioxane	88	6.559	6.559	0.000	48	15094	1000.0	819.3	
66 Dichlorobromomethane	83	6.718	6.721	-0.003	97	163836	50.0	47.8	
68 2-Chloroethyl vinyl ether	63	7.058	7.058	0.000	94	43990	50.0	51.9	
69 cis-1,3-Dichloropropene	75	7.228	7.228	0.000	90	202721	50.0	49.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.404	7.404	0.000	97	106667	50.0	48.6	
\$ 71 Toluene-d8 (Surr)	98	7.543	7.540	0.003	95	527472	53.4	53.6	
72 Toluene	92	7.620	7.623	-0.003	94	345665	50.0	49.0	
73 trans-1,3-Dichloropropene	75	7.883	7.883	0.000	97	177806	50.0	48.5	
74 Ethyl methacrylate	69	7.991	7.991	0.000	90	137475	50.0	48.2	a
75 1,1,2-Trichloroethane	97	8.105	8.107	-0.002	92	93493	50.0	47.4	
76 Tetrachloroethene	166	8.280	8.283	-0.003	95	149633	50.0	50.7	
77 1,3-Dichloropropane	76	8.312	8.314	-0.002	92	164498	50.0	48.1	a
78 2-Hexanone	43	8.417	8.414	0.003	97	72077	50.0	49.3	
80 Chlorodibromomethane	129	8.589	8.589	0.000	87	116164	50.0	47.5	
81 Ethylene Dibromide	107	8.737	8.740	-0.003	99	93344	50.0	47.4	
* 82 Chlorobenzene-d5	117	9.327	9.327	0.000	86	404601	53.4	53.4	a
84 Chlorobenzene	112	9.364	9.366	-0.002	94	374729	50.0	49.7	
85 1,1,1,2-Tetrachloroethane	131	9.474	9.474	0.000	94	141585	50.0	48.1	
86 Ethylbenzene	106	9.511	9.511	0.000	98	213246	50.0	50.0	
87 m-Xylene & p-Xylene	91	9.661	9.664	-0.003	99	513949	50.0	49.3	
88 o-Xylene	91	10.141	10.141	0.000	93	551977	50.0	49.8	
89 Styrene	104	10.158	10.158	0.000	95	428858	50.0	48.0	a
90 Bromoform	173	10.359	10.359	0.000	96	75698	50.0	47.1	
91 Isopropylbenzene	105	10.555	10.557	-0.002	97	720515	50.0	50.7	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.713	10.716	-0.003	0	189694	53.4	51.5	
95 Bromobenzene	156	10.866	10.869	-0.003	95	164072	50.0	49.6	
96 1,1,2,2-Tetrachloroethane	83	10.872	10.875	-0.003	76	138641	50.0	50.5	
97 1,2,3-Trichloropropane	110	10.915	10.915	0.000	90	36556	50.0	45.4	
98 trans-1,4-Dichloro-2-butene	53	10.932	10.935	-0.002	90	43683	50.0	52.3	
99 N-Propylbenzene	91	10.986	10.986	0.000	98	851243	50.0	50.9	
100 2-Chlorotoluene	91	11.068	11.068	0.000	98	489467	50.0	50.9	
101 1,3,5-Trimethylbenzene	105	11.161	11.161	0.000	92	626308	50.0	50.3	
102 4-Chlorotoluene	91	11.176	11.176	0.000	94	568576	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.476	11.473	0.003	90	561657	50.0	49.8	
106 1,2,4-Trimethylbenzene	105	11.519	11.519	0.000	95	638210	50.0	50.5	
107 sec-Butylbenzene	105	11.677	11.680	-0.003	95	859458	50.0	50.3	
108 1,3-Dichlorobenzene	146	11.777	11.777	0.000	98	358198	50.0	49.8	
109 4-Isopropyltoluene	119	11.811	11.811	0.000	96	744772	50.0	50.2	
* 110 1,4-Dichlorobenzene-d4	152	11.836	11.836	0.000	95	248008	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.859	11.859	0.000	94	366005	50.0	49.7	
114 n-Butylbenzene	91	12.168	12.168	0.000	96	698111	50.0	50.8	
115 1,2-Dichlorobenzene	146	12.182	12.185	-0.003	96	340381	50.0	49.2	
116 1,2-Dibromo-3-Chloropropane	75	12.829	12.829	0.000	56	23192	50.0	48.1	
118 1,2,4-Trichlorobenzene	180	13.470	13.470	0.000	93	218770	50.0	50.7	
119 Hexachlorobutadiene	225	13.591	13.591	0.000	95	133689	50.0	50.2	
120 Naphthalene	128	13.654	13.657	-0.003	99	393874	50.0	47.8	
121 1,2,3-Trichlorobenzene	180	13.838	13.835	0.003	96	167801	50.0	49.2	
S 124 Xylenes, Total	100				0		100.0	99.1	
S 125 1,2-Dichloroethene, Total	96				0		100.0	98.3	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

CPS#16 IS/SS_00117	Amount Added: 5.00	Units: mL
8260 GAS SPK_00191	Amount Added: 5.00	Units: uL
8260 KET SPK_00154	Amount Added: 5.00	Units: uL
8260 MEGA SPK_00155	Amount Added: 5.00	Units: uL
VA/2CEVE SPK_00179	Amount Added: 5.00	Units: uL
8260 ACR SPK_00198	Amount Added: 5.00	Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\ICV 1.D

Injection Date: 19-Jan-2022 09:45:30

Instrument ID: CMS16

Operator ID:

Lims ID: ICV 1

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

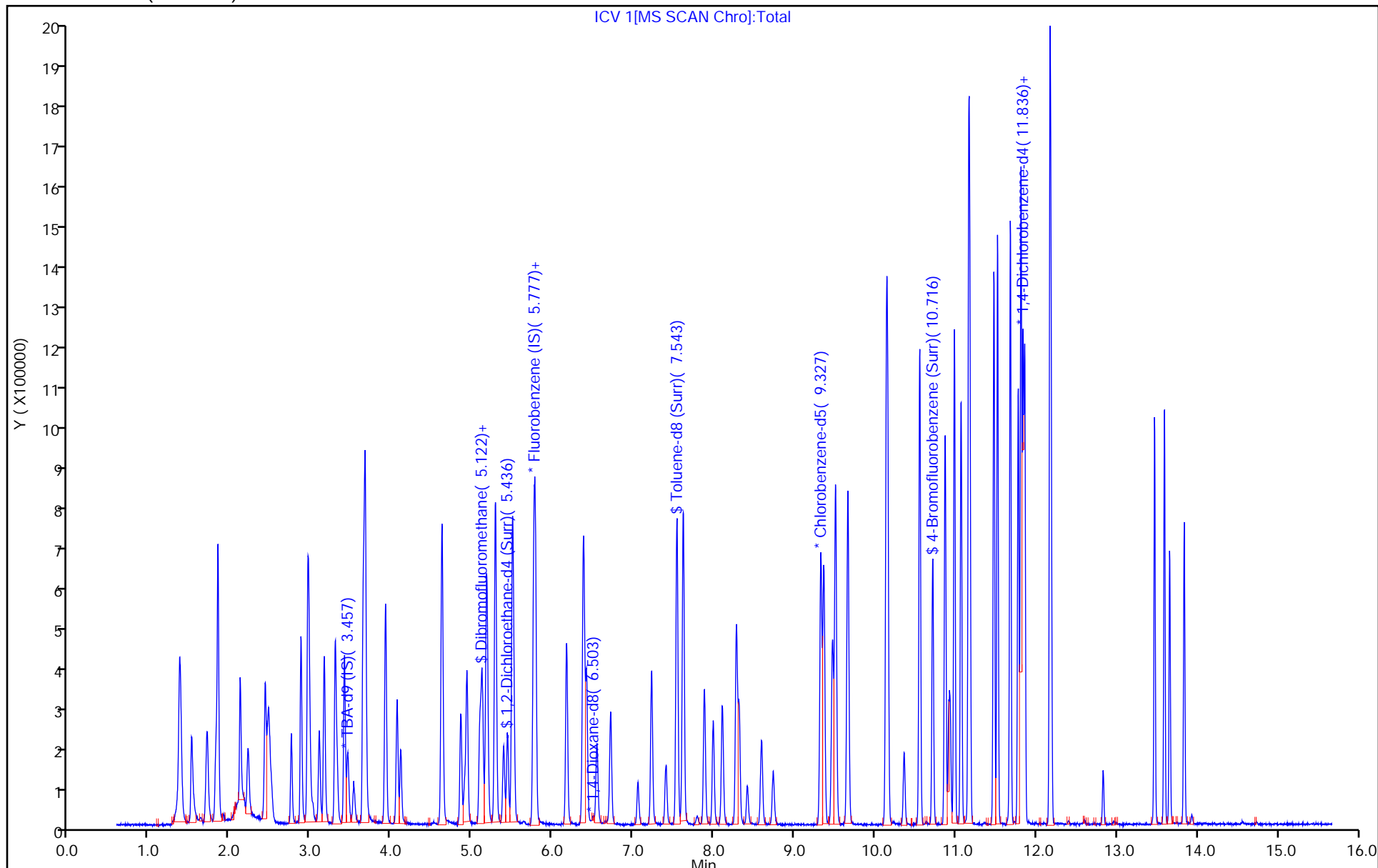
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

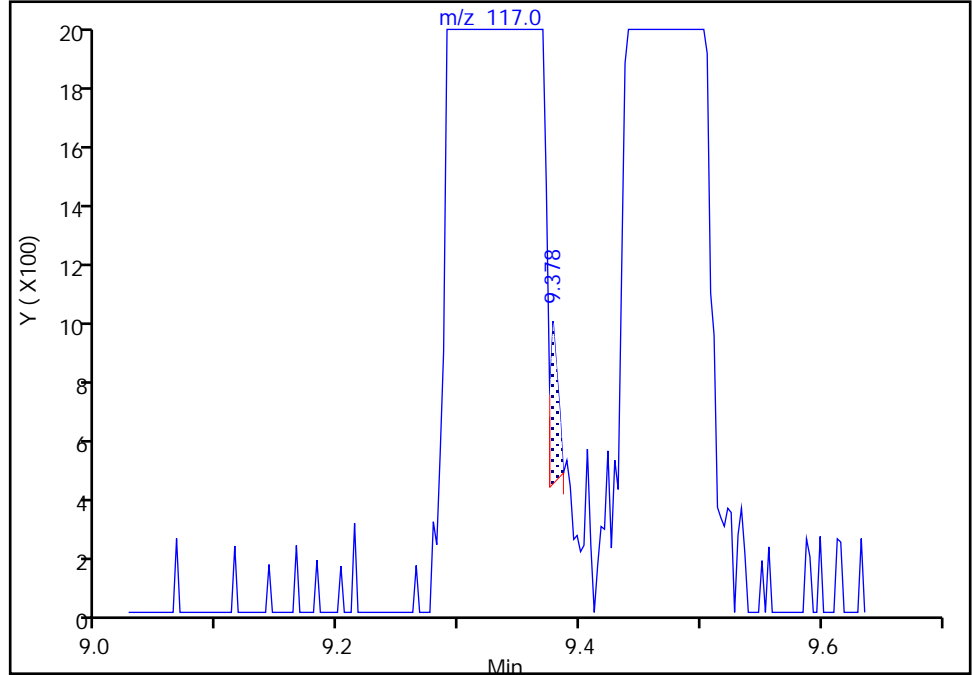
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Injection Date: 19-Jan-2022 09:45:30 Instrument ID: CMS16
Lims ID: ICV 1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

* 82 Chlorobenzene-d5, CAS: 3114-55-4
Signal: 1

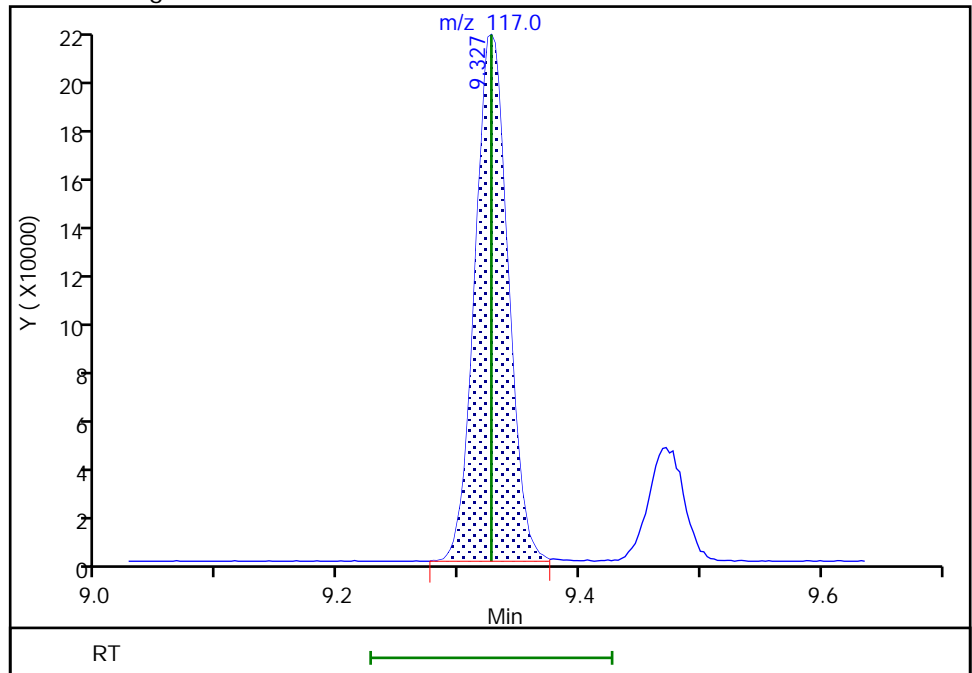
RT: 9.38
Area: 245
Amount: 53.430000
Amount Units: UG/L

Processing Integration Results



RT: 9.33
Area: 404601
Amount: 53.430000
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\ICV 1.D
Injection Date: 19-Jan-2022 09:45:30 Instrument ID: CMS16
Lims ID: ICV 1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

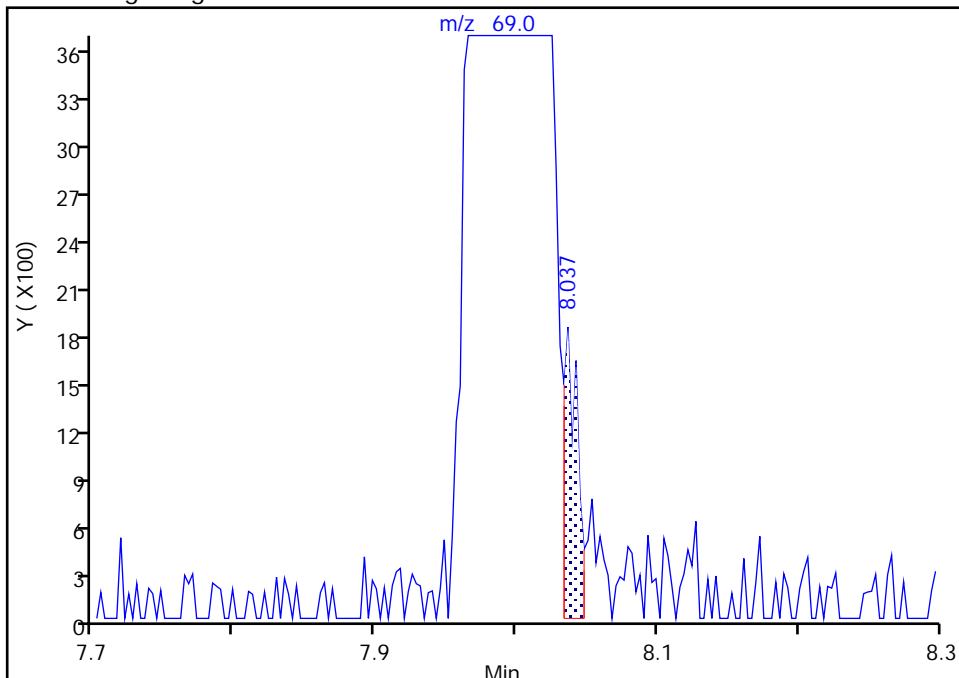
ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

74 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

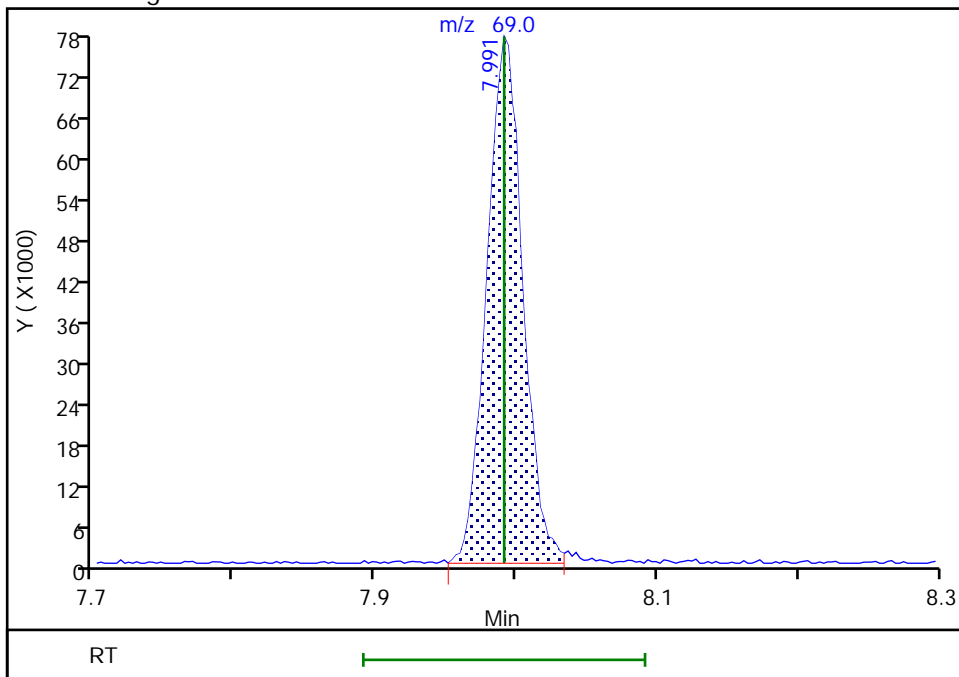
RT: 8.04
Area: 1209
Amount: 0.423485
Amount Units: UG/L

Processing Integration Results



RT: 7.99
Area: 137475
Amount: 48.154339
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 20-Jan-2022 07:44:27
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\ICV 1.D
Injection Date: 19-Jan-2022 09:45:30 Instrument ID: CMS16
Lims ID: ICV 1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

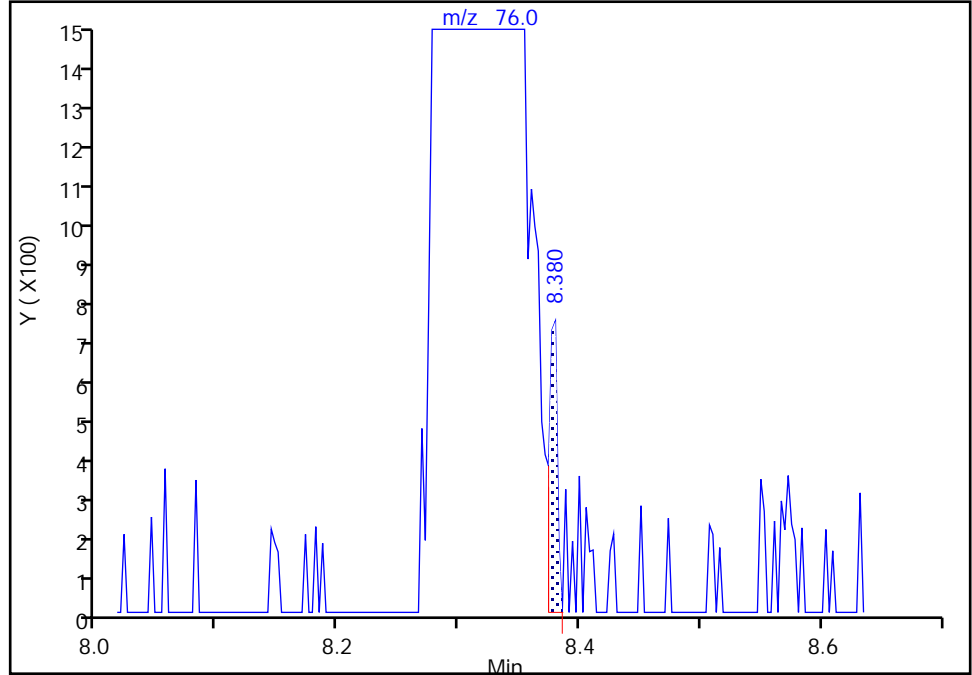
ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

77 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

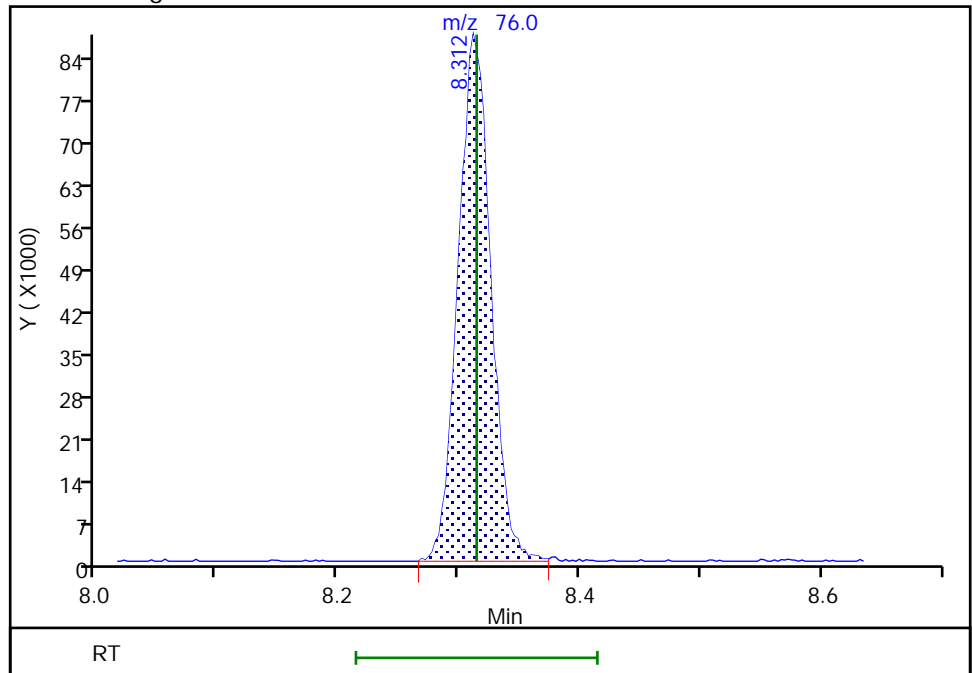
RT: 8.38
Area: 335
Amount: 0.097993
Amount Units: UG/L

Processing Integration Results



RT: 8.31
Area: 164498
Amount: 48.118451
Amount Units: UG/L

Manual Integration Results



Reviewer: ficarello, 20-Jan-2022 07:44:24
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\ICV 1.D
Injection Date: 19-Jan-2022 09:45:30 Instrument ID: CMS16
Lims ID: ICV 1
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

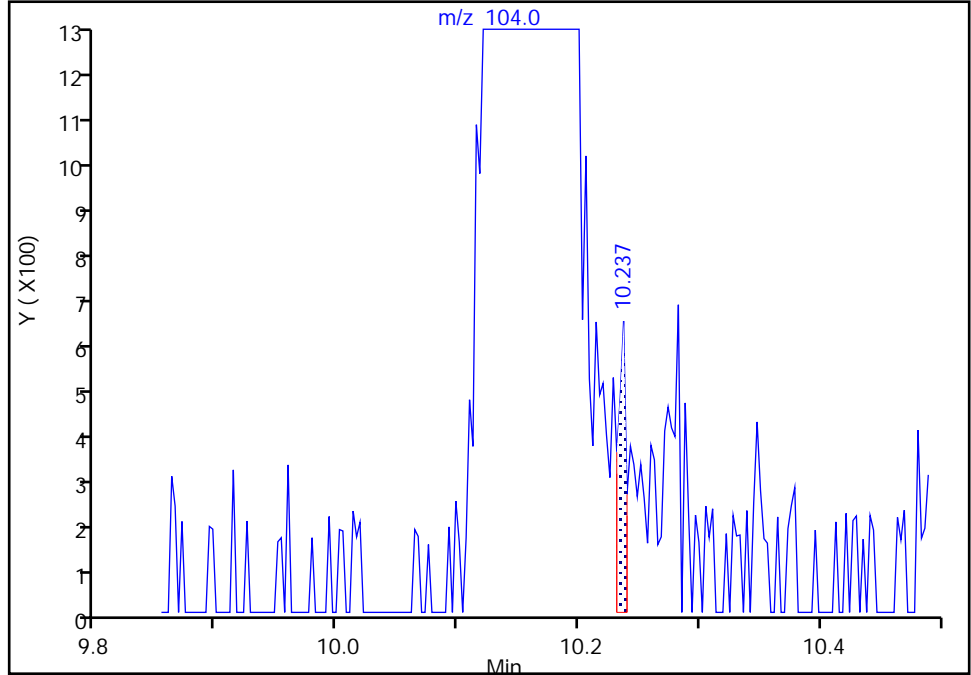
ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

89 Styrene, CAS: 100-42-5

Signal: 1

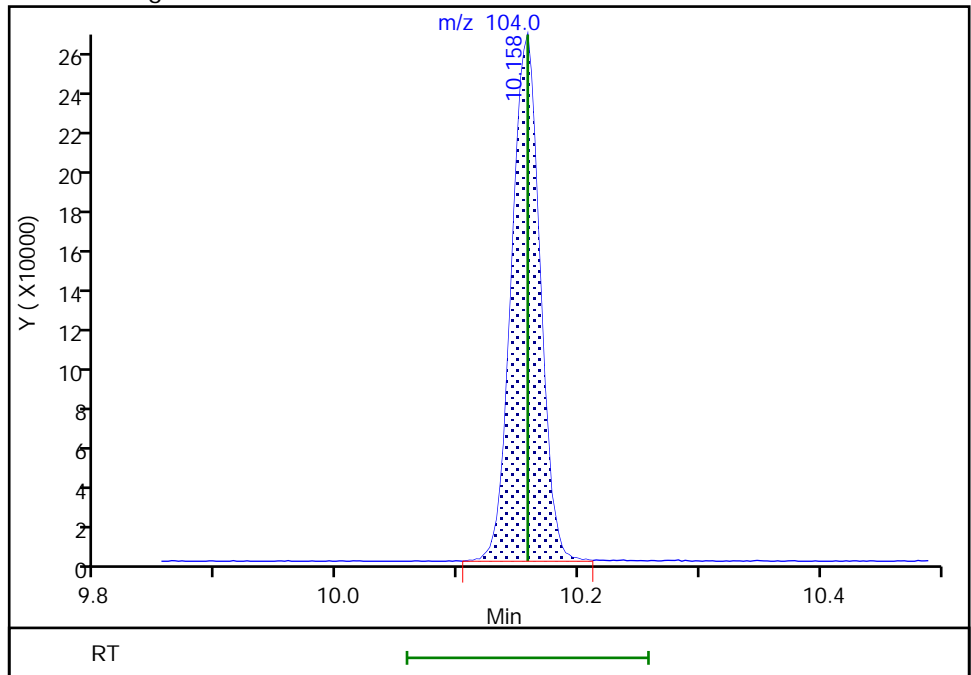
RT: 10.24
Area: 295
Amount: 0.032989
Amount Units: UG/L

Processing Integration Results



RT: 10.16
Area: 428858
Amount: 47.958072
Amount Units: UG/L

Manual Integration Results



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673135/2 Calibration Date: 09/05/2022 11:41
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: 16C0905.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3890	0.3639	0.0100	46.8	50.0	-6.5	50.0
Chloromethane	Lin1		0.3835	0.1000	43.3	50.0	-13.3	50.0
Vinyl chloride	Ave	0.4126	0.3600	0.0100	43.6	50.0	-12.8	20.0
Butadiene	Ave	0.4453	0.3367	0.0100	37.8	50.0	-24.4	50.0
Bromomethane	Ave	0.2925	0.2491	0.0100	42.6	50.0	-14.8	50.0
Chloroethane	Ave	0.2487	0.2118	0.0100	42.6	50.0	-14.8	50.0
Dichlorofluoromethane	Ave	0.5689	0.4743	0.0100	41.7	50.0	-16.6	50.0
Trichlorofluoromethane	Ave	0.5092	0.4752	0.0100	46.7	50.0	-6.7	50.0
Ethyl ether	Ave	0.2060	0.1885	0.0100	45.8	50.0	-8.5	50.0
Acrolein	Lin1		0.0201	0.0010	1660	2000	-17.1	50.0
1,1-Dichloroethene	Ave	0.2778	0.2443	0.0100	44.0	50.0	-12.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3207	0.2877	0.0100	44.9	50.0	-10.3	50.0
Acetone	Ave	0.0676	0.0680	0.0100	50.3	50.0	0.7	50.0
Iodomethane	Ave	0.4598	0.4335	0.0100	47.1	50.0	-5.7	50.0
Carbon disulfide	Ave	0.9798	0.8149	0.0100	41.6	50.0	-16.8	50.0
3-Chloropropene	Ave	0.1686	0.1423	0.0100	42.2	50.0	-15.6	50.0
Methyl acetate	Ave	0.1396	0.1264	0.0100	90.6	100	-9.4	50.0
Methylene Chloride	Ave	0.2912	0.2553	0.0100	43.8	50.0	-12.4	50.0
tert-Butyl alcohol	Ave	1.316	1.121	0.0100	426	500	-14.8	50.0
Acrylonitrile	Ave	0.0739	0.0697	0.0010	471	500	-5.8	50.0
Methyl tert-butyl ether	Ave	0.7176	0.5965	0.0100	41.6	50.0	-16.9	50.0
trans-1,2-Dichloroethene	Ave	0.2992	0.2746	0.0100	45.9	50.0	-8.2	50.0
Hexane	Ave	0.4536	0.4297	0.0100	47.4	50.0	-5.3	50.0
1,1-Dichloroethane	Ave	0.4940	0.4610	0.1000	46.7	50.0	-6.7	50.0
Vinyl acetate	Ave	0.4283	0.3581	0.0100	41.8	50.0	-16.4	50.0
2,2-Dichloropropane	Ave	0.2251	0.2274	0.0100	50.5	50.0	1.0	50.0
cis-1,2-Dichloroethene	Ave	0.3041	0.2746	0.0100	45.1	50.0	-9.7	50.0
2-Butanone (MEK)	Ave	0.0829	0.0885	0.0100	53.4	50.0	6.8	50.0
Bromochloromethane	Ave	0.1332	0.1246	0.0100	46.8	50.0	-6.5	50.0
Tetrahydrofuran	Lin1		0.0472	0.0100	77.7	100	-22.3	50.0
Chloroform	Ave	0.4562	0.4356	0.0100	47.7	50.0	-4.5	20.0
1,1,1-Trichloroethane	Ave	0.4362	0.4128	0.0100	47.3	50.0	-5.4	50.0
Cyclohexane	Ave	0.5786	0.5152	0.0100	44.5	50.0	-11.0	50.0
1,1-Dichloropropene	Ave	0.3673	0.3299	0.0100	44.9	50.0	-10.2	50.0
Carbon tetrachloride	Ave	0.4032	0.3997	0.0100	49.6	50.0	-0.9	50.0
Isobutyl alcohol	Ave	0.5398	0.4693	0.0010	1090	1250	-13.1	50.0
Benzene	Ave	1.100	0.9578	0.0100	43.5	50.0	-12.9	50.0
1,2-Dichloroethane	Ave	0.3102	0.3124	0.0100	50.4	50.0	0.7	50.0
Heptane	Ave	0.4696	0.3991	0.0100	42.5	50.0	-15.0	50.0
Trichloroethene	Ave	0.2795	0.2618	0.0100	46.8	50.0	-6.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673135/2 Calibration Date: 09/05/2022 11:41
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: 16C0905.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5791	0.4832	0.0100	41.7	50.0	-16.6	50.0
1,2-Dichloropropane	Ave	0.2603	0.2345	0.0100	45.0	50.0	-9.9	20.0
Dibromomethane	Ave	0.1359	0.1260	0.0100	46.4	50.0	-7.3	50.0
1,4-Dioxane	Ave	1.449	1.382	0.0010	954	1000	-4.6	50.0
Dichlorobromomethane	Ave	0.3313	0.2997	0.0100	45.2	50.0	-9.5	50.0
2-Chloroethyl vinyl ether	Ave	0.1120	0.0810	0.0100	36.2	50.0	-27.7	50.0
cis-1,3-Dichloropropene	Ave	0.5451	0.4438	0.0100	40.7	50.0	-18.6	50.0
methyl isobutyl ketone	Ave	0.2900	0.2172	0.0100	37.4	50.0	-25.1	50.0
Toluene	Ave	0.9320	0.8376	0.0100	44.9	50.0	-10.1	20.0
trans-1,3-Dichloropropene	Ave	0.4845	0.3854	0.0100	39.8	50.0	-20.5	50.0
Ethyl methacrylate	Ave	0.3770	0.2858	0.0100	37.9	50.0	-24.2	50.0
1,1,2-Trichloroethane	Ave	0.2605	0.2349	0.0100	45.1	50.0	-9.8	50.0
Tetrachloroethene	Ave	0.3896	0.3936	0.0100	50.5	50.0	1.0	50.0
1,3-Dichloropropane	Ave	0.4514	0.3992	0.0100	44.2	50.0	-11.6	50.0
2-Hexanone	Ave	0.1930	0.1536	0.0100	39.8	50.0	-20.4	50.0
Chlorodibromomethane	Ave	0.3229	0.3122	0.0100	48.3	50.0	-3.3	50.0
Ethylene Dibromide	Ave	0.2600	0.2315	0.0100	44.5	50.0	-10.9	50.0
Chlorobenzene	Ave	0.996	0.9614	0.3000	48.3	50.0	-3.4	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3884	0.3488	0.0100	44.9	50.0	-10.2	50.0
Ethylbenzene	Ave	0.5637	0.5226	0.0100	46.4	50.0	-7.3	20.0
m&p-Xylene	Ave	1.377	1.305	0.0100	47.4	50.0	-5.2	50.0
o-Xylene	Ave	1.465	1.354	0.0100	46.2	50.0	-7.6	50.0
Styrene	Ave	1.181	1.119	0.0100	47.4	50.0	-5.2	50.0
Bromoform	Ave	0.2124	0.2123	0.1000	50.0	50.0	-0.0	50.0
Isopropylbenzene	Ave	3.063	2.701	0.0100	44.1	50.0	-11.8	50.0
Bromobenzene	Ave	0.7132	0.6925	0.0100	48.5	50.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5913	0.4990	0.3000	42.2	50.0	-15.6	50.0
1,2,3-Trichloropropane	Ave	0.1734	0.1526	0.0100	44.0	50.0	-12.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1799	0.1710	0.0100	47.5	50.0	-5.0	50.0
N-Propylbenzene	Ave	3.604	3.417	0.0100	47.4	50.0	-5.2	50.0
2-Chlorotoluene	Ave	2.073	1.939	0.0100	46.8	50.0	-6.5	50.0
1,3,5-Trimethylbenzene	Ave	2.681	2.458	0.0100	45.8	50.0	-8.3	50.0
4-Chlorotoluene	Ave	2.471	2.296	0.0100	46.5	50.0	-7.1	50.0
tert-Butylbenzene	Ave	2.431	2.196	0.0100	45.2	50.0	-9.7	50.0
1,2,4-Trimethylbenzene	Ave	2.723	2.536	0.0100	46.6	50.0	-6.9	50.0
sec-Butylbenzene	Ave	3.682	3.362	0.0100	45.6	50.0	-8.7	50.0
1,3-Dichlorobenzene	Ave	1.551	1.483	0.0100	47.8	50.0	-4.4	50.0
p-Isopropyltoluene	Ave	3.196	3.043	0.0100	47.6	50.0	-4.8	50.0
1,4-Dichlorobenzene	Ave	1.587	1.529	0.0100	48.2	50.0	-3.7	50.0
n-Butylbenzene	Ave	2.959	2.726	0.0100	46.1	50.0	-7.9	50.0
1,2-Dichlorobenzene	Ave	1.489	1.439	0.0100	48.3	50.0	-3.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673135/2 Calibration Date: 09/05/2022 11:41
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: 16C0905.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1040	0.0826	0.0100	39.7	50.0	-20.6	50.0
1,2,4-Trichlorobenzene	Ave	0.9302	0.8007	0.0100	43.0	50.0	-13.9	50.0
Hexachlorobutadiene	Ave	0.5734	0.5437	0.0100	47.4	50.0	-5.2	50.0
Naphthalene	Ave	1.775	1.493	0.0100	42.1	50.0	-15.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7354	0.6852	0.0100	46.6	50.0	-6.8	50.0
Dibromofluoromethane	Ave	0.2403	0.2664	0.0100	59.2	53.4	10.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2495	0.2975	0.0100	63.7	53.4	19.2	50.0
Toluene-d8 (Surr)	Ave	1.300	1.228	0.0100	50.5	53.4	-5.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7938	0.7038	0.0100	47.4	53.4	-11.3	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16C0905.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Sep-2022 11:41:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 500-0087999-002
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub1
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQP0

Date: 05-Sep-2022 12:37:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.517	1.517	0.000	98	307820	50.0	46.8	
2 Chloromethane	50	1.716	1.716	0.000	99	324351	50.0	43.3	
3 Vinyl chloride	62	1.829	1.829	0.000	99	304495	50.0	43.6	
4 Butadiene	39	1.849	1.849	0.000	88	284813	50.0	37.8	
5 Bromomethane	94	2.153	2.153	0.000	92	210705	50.0	42.6	a
6 Chloroethane	64	2.240	2.240	0.000	99	179146	50.0	42.6	
7 Dichlorofluoromethane	67	2.442	2.442	0.000	99	401181	50.0	41.7	
8 Trichlorofluoromethane	101	2.476	2.476	0.000	95	401983	50.0	46.7	
11 Ethyl ether	59	2.748	2.748	0.000	95	159484	50.0	45.8	
12 Acrolein	56	2.867	2.867	0.000	98	679548	2000.0	1658.8	
13 1,1-Dichloroethene	96	2.961	2.961	0.000	98	206632	50.0	44.0	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.975	2.975	0.000	94	243372	50.0	44.9	
15 Acetone	43	3.012	3.012	0.000	100	57541	50.0	50.3	
16 Iodomethane	142	3.100	3.100	0.000	98	366688	50.0	47.1	
17 Carbon disulfide	76	3.162	3.162	0.000	99	689305	50.0	41.6	
20 3-Chloro-1-propene	76	3.298	3.298	0.000	95	120336	50.0	42.2	
21 Methyl acetate	43	3.315	3.315	0.000	97	213887	100.0	90.6	
22 Methylene Chloride	84	3.406	3.406	0.000	94	215926	50.0	43.8	
* 23 TBA-d9 (IS)	65	3.434	3.434	0.000	96	300427	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.511	3.511	0.000	96	157582	500.0	426.0	
25 Acrylonitrile	53	3.638	3.638	0.000	98	589382	500.0	471.2	
27 Methyl tert-butyl ether	73	3.664	3.664	0.000	92	504552	50.0	41.6	
26 trans-1,2-Dichloroethene	96	3.664	3.664	0.000	86	232291	50.0	45.9	
28 Hexane	57	3.919	3.919	0.000	93	363491	50.0	47.4	
29 1,1-Dichloroethane	63	4.061	4.061	0.000	97	389968	50.0	46.7	
30 Vinyl acetate	43	4.103	4.103	0.000	99	302878	50.0	41.8	
34 2,2-Dichloropropane	41	4.614	4.614	0.000	65	192357	50.0	50.5	
35 cis-1,2-Dichloroethene	96	4.614	4.614	0.000	96	232236	50.0	45.1	
36 2-Butanone (MEK)	43	4.628	4.628	0.000	50	74875	50.0	53.4	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
39 Chlorobromomethane	128	4.852	4.852	0.000	95	105365	50.0	46.8	
41 Tetrahydrofuran	42	4.892	4.892	0.000	89	79787	100.0	77.7	
42 Chloroform	83	4.926	4.926	0.000	97	368437	50.0	47.7	
\$ 43 Dibromofluoromethane	113	5.085	5.085	0.000	71	240782	53.4	59.2	
44 1,1,1-Trichloroethane	97	5.113	5.113	0.000	98	349203	50.0	47.3	
45 Cyclohexane	56	5.167	5.167	0.000	93	435759	50.0	44.5	
47 1,1-Dichloropropene	75	5.275	5.275	0.000	87	279067	50.0	44.9	
46 Carbon tetrachloride	117	5.277	5.277	0.000	90	338064	50.0	49.6	
49 Isobutyl alcohol	43	5.374	5.374	0.000	93	164925	1250.0	1086.8	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	99	268886	53.4	63.7	
50 Benzene	78	5.487	5.487	0.000	97	810186	50.0	43.5	
51 1,2-Dichloroethane	62	5.507	5.507	0.000	95	264221	50.0	50.4	
54 n-Heptane	43	5.751	5.751	0.000	90	337553	50.0	42.5	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	97	903878	53.4	53.4	
57 Trichloroethene	130	6.159	6.159	0.000	97	221483	50.0	46.8	
59 Methylcyclohexane	83	6.369	6.369	0.000	95	408682	50.0	41.7	
60 1,2-Dichloropropane	63	6.403	6.403	0.000	89	198324	50.0	45.0	
* 62 1,4-Dioxane-d8	96	6.482	6.482	0.000	77	24167	1068.6	1068.6	
63 Dibromomethane	93	6.534	6.534	0.000	89	106544	50.0	46.4	
65 1,4-Dioxane	88	6.545	6.545	0.000	51	31254	1000.0	953.5	
66 Dichlorobromomethane	83	6.701	6.701	0.000	95	253465	50.0	45.2	
68 2-Chloroethyl vinyl ether	63	7.041	7.041	0.000	92	51648	50.0	36.2	
69 cis-1,3-Dichloropropene	75	7.214	7.214	0.000	89	282944	50.0	40.7	
70 4-Methyl-2-pentanone (MIBK)	43	7.387	7.387	0.000	97	138447	50.0	37.4	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	836780	53.4	50.5	
72 Toluene	92	7.603	7.603	0.000	93	533929	50.0	44.9	
73 trans-1,3-Dichloropropene	75	7.866	7.866	0.000	92	245667	50.0	39.8	
74 Ethyl methacrylate	69	7.974	7.974	0.000	88	182194	50.0	37.9	
75 1,1,2-Trichloroethane	97	8.090	8.090	0.000	92	149770	50.0	45.1	
76 Tetrachloroethene	166	8.263	8.263	0.000	94	250942	50.0	50.5	
77 1,3-Dichloropropane	76	8.297	8.297	0.000	94	254497	50.0	44.2	
78 2-Hexanone	43	8.396	8.396	0.000	97	97887	50.0	39.8	
80 Chlorodibromomethane	129	8.569	8.569	0.000	87	199002	50.0	48.3	
81 Ethylene Dibromide	107	8.714	8.714	0.000	99	147596	50.0	44.5	
* 82 Chlorobenzene-d5	117	9.307	9.307	0.000	86	681216	53.4	53.4	
84 Chlorobenzene	112	9.344	9.344	0.000	94	612877	50.0	48.3	
85 1,1,1,2-Tetrachloroethane	131	9.454	9.454	0.000	94	222381	50.0	44.9	
86 Ethylbenzene	106	9.491	9.491	0.000	98	333174	50.0	46.4	
87 m-Xylene & p-Xylene	91	9.647	9.647	0.000	98	831635	50.0	47.4	
88 o-Xylene	91	10.123	10.123	0.000	94	863191	50.0	46.2	
89 Styrene	104	10.140	10.140	0.000	95	713627	50.0	47.4	
90 Bromoform	173	10.345	10.345	0.000	96	135316	50.0	50.0	
91 Isopropylbenzene	105	10.537	10.537	0.000	98	1108578	50.0	44.1	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	308727	53.4	47.4	
95 Bromobenzene	156	10.855	10.855	0.000	89	284245	50.0	48.5	
96 1,1,2,2-Tetrachloroethane	83	10.858	10.858	0.000	80	204839	50.0	42.2	
97 1,2,3-Trichloropropane	110	10.897	10.897	0.000	87	62654	50.0	44.0	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	87	70203	50.0	47.5	
99 N-Propylbenzene	91	10.968	10.968	0.000	98	1402519	50.0	47.4	
100 2-Chlorotoluene	91	11.053	11.053	0.000	98	795792	50.0	46.8	
101 1,3,5-Trimethylbenzene	105	11.147	11.147	0.000	92	1008967	50.0	45.8	
102 4-Chlorotoluene	91	11.158	11.158	0.000	93	942521	50.0	46.5	

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Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
104 tert-Butylbenzene	119	11.459	11.459	0.000	90	901418	50.0	45.2	
106 1,2,4-Trimethylbenzene	105	11.504	11.504	0.000	94	1040989	50.0	46.6	
107 sec-Butylbenzene	105	11.663	11.663	0.000	93	1379908	50.0	45.6	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	99	608765	50.0	47.8	
109 4-Isopropyltoluene	119	11.796	11.796	0.000	96	1248892	50.0	47.6	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	438641	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.842	11.842	0.000	95	627618	50.0	48.2	
114 n-Butylbenzene	91	12.156	12.156	0.000	94	1119166	50.0	46.1	
115 1,2-Dichlorobenzene	146	12.171	12.171	0.000	96	590582	50.0	48.3	
116 1,2-Dibromo-3-Chloropropane	75	12.817	12.817	0.000	65	33897	50.0	39.7	
118 1,2,4-Trichlorobenzene	180	13.455	13.455	0.000	94	328670	50.0	43.0	
119 Hexachlorobutadiene	225	13.574	13.574	0.000	95	223159	50.0	47.4	
120 Naphthalene	128	13.642	13.642	0.000	99	612880	50.0	42.1	
121 1,2,3-Trichlorobenzene	180	13.824	13.824	0.000	97	281258	50.0	46.6	
S 124 Xylenes, Total	100				0		100.0	93.6	
S 125 1,2-Dichloroethene, Total	96				0		100.0	91.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624GASWK_01474	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16C0905.D

Injection Date: 05-Sep-2022 11:41:30

Instrument ID: CMS16

Operator ID:

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

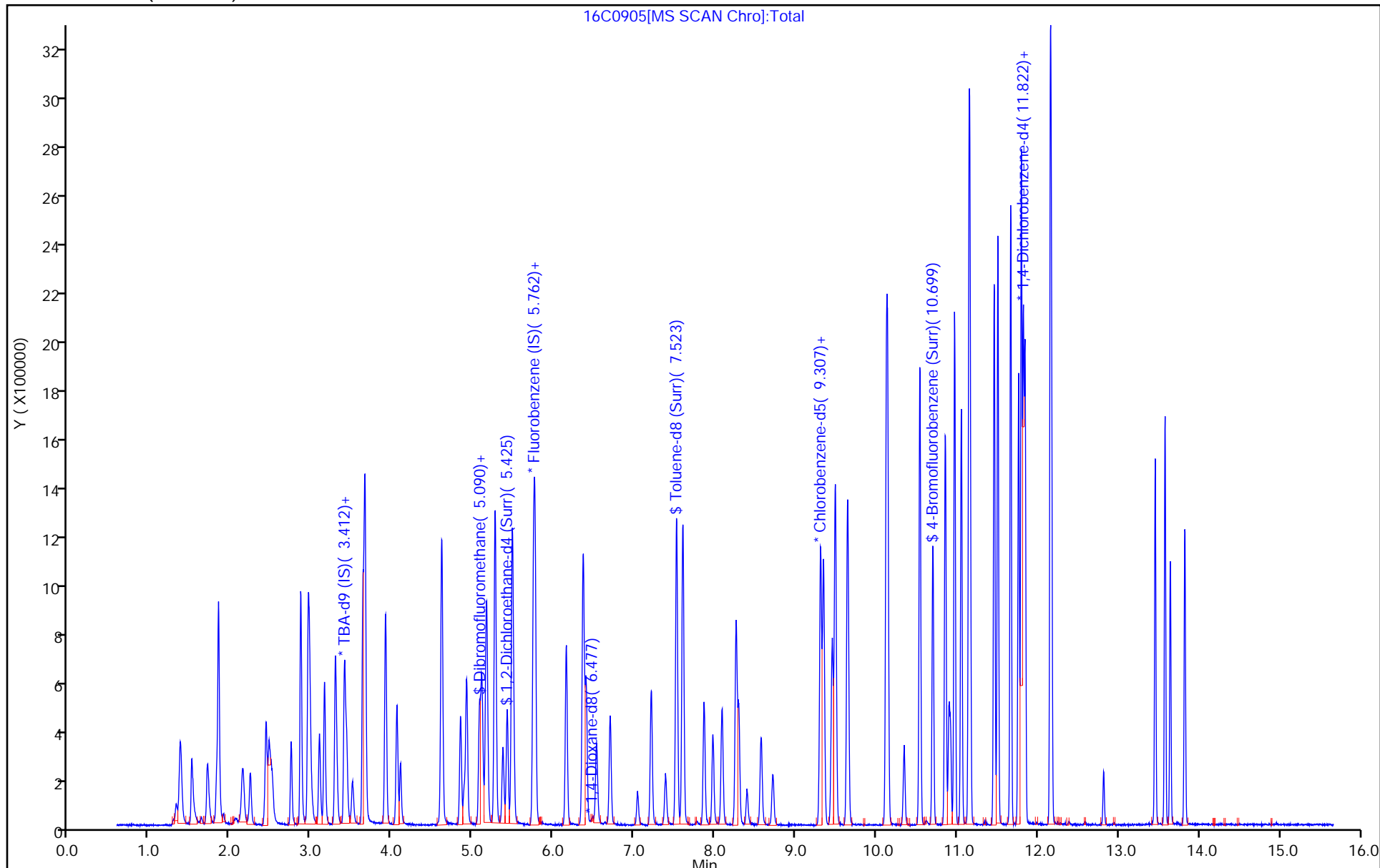
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

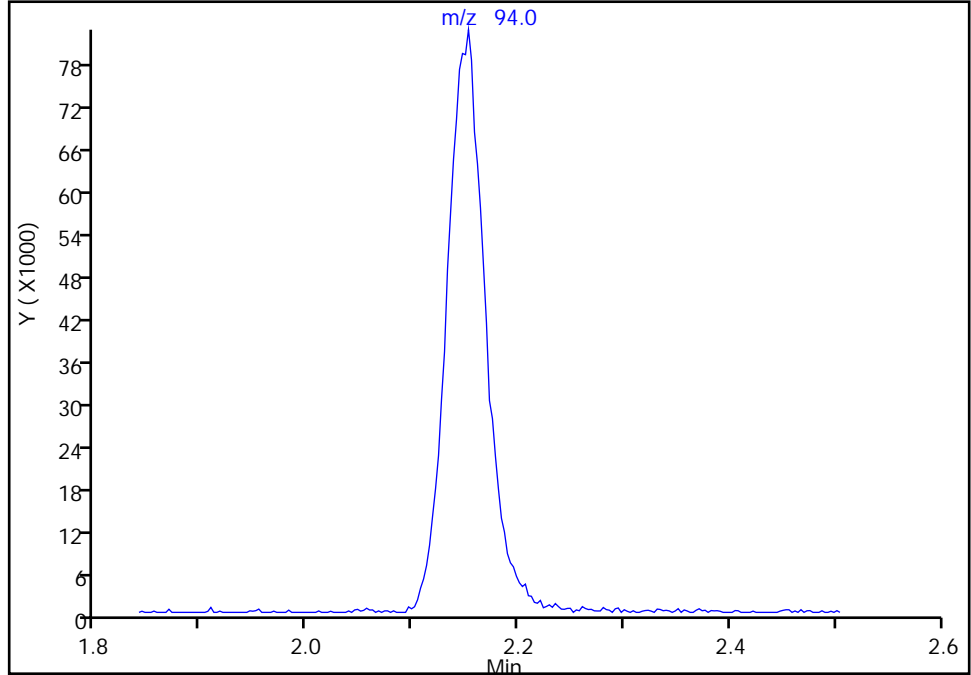
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16C0905.D
Injection Date: 05-Sep-2022 11:41:30 Instrument ID: CMS16
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

Signal: 1

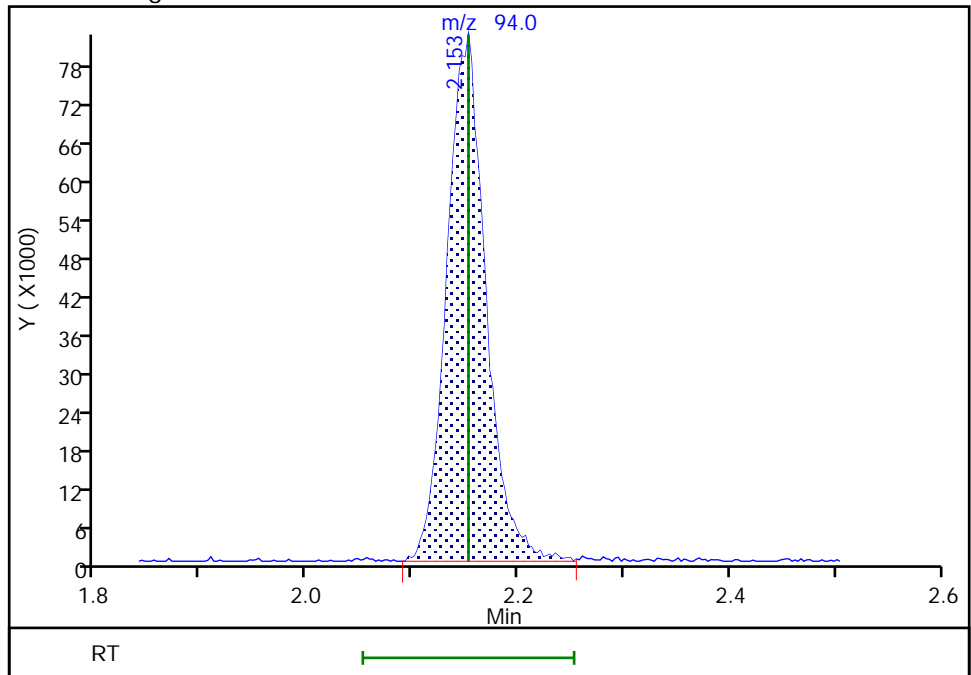
Not Detected
Expected RT: 2.15

Processing Integration Results



Manual Integration Results

RT: 2.15
Area: 210705
Amount: 42.583487
Amount Units: UG/L



Reviewer: BQP0, 05-Sep-2022 12:36:28
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

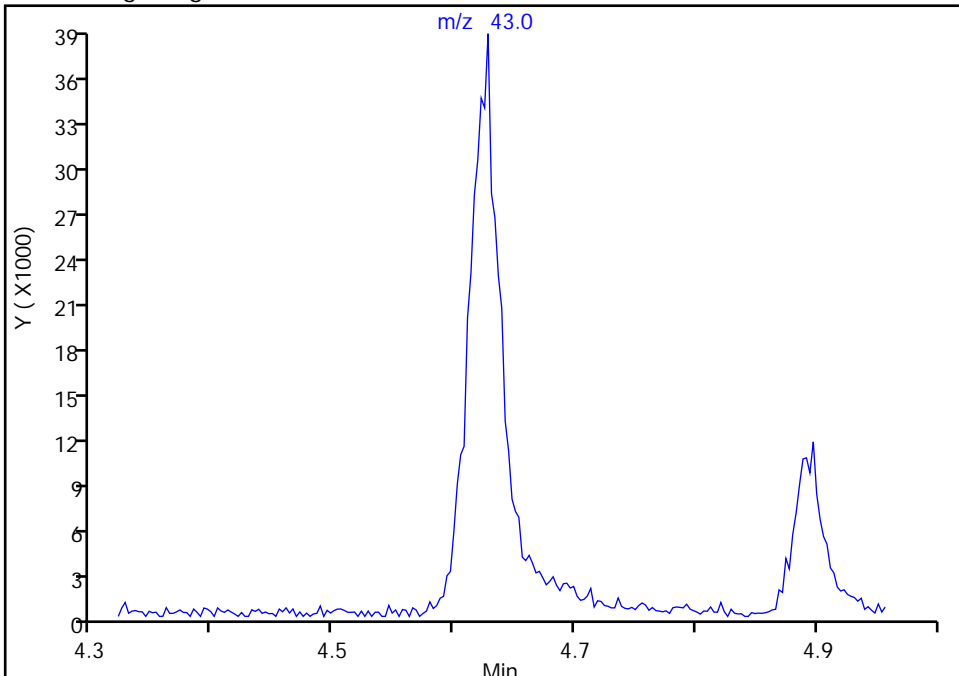
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16C0905.D
Injection Date: 05-Sep-2022 11:41:30 Instrument ID: CMS16
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

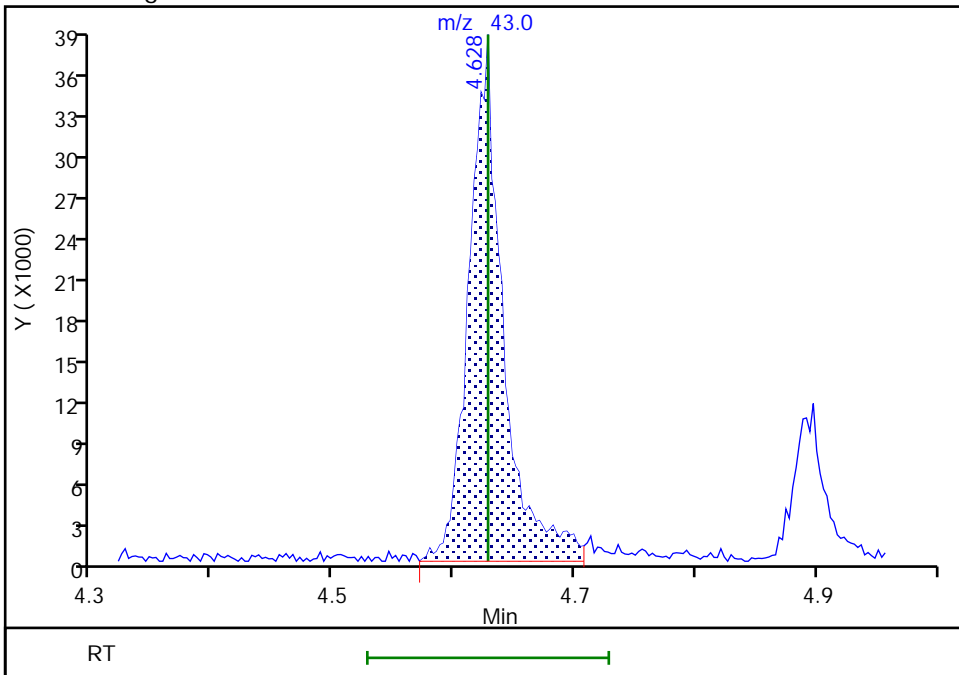
Not Detected
Expected RT: 4.63

Processing Integration Results



RT: 4.63
Area: 74875
Amount: 53.385607
Amount Units: UG/L

Manual Integration Results



Reviewer: BQP0, 05-Sep-2022 12:36:37
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

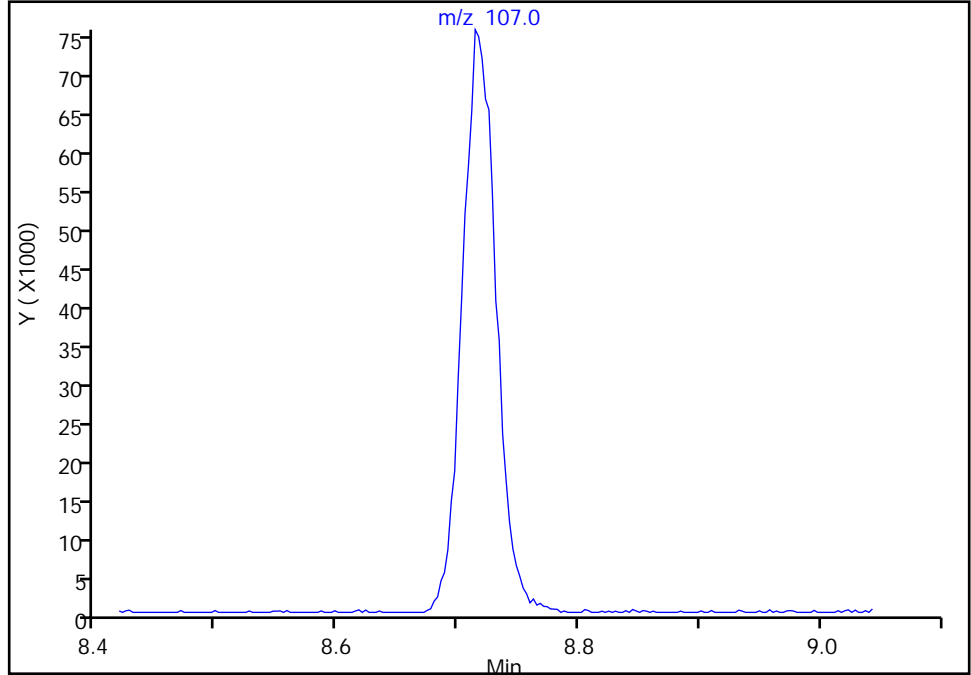
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16C0905.D
Injection Date: 05-Sep-2022 11:41:30 Instrument ID: CMS16
Lims ID: CCV
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

81 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

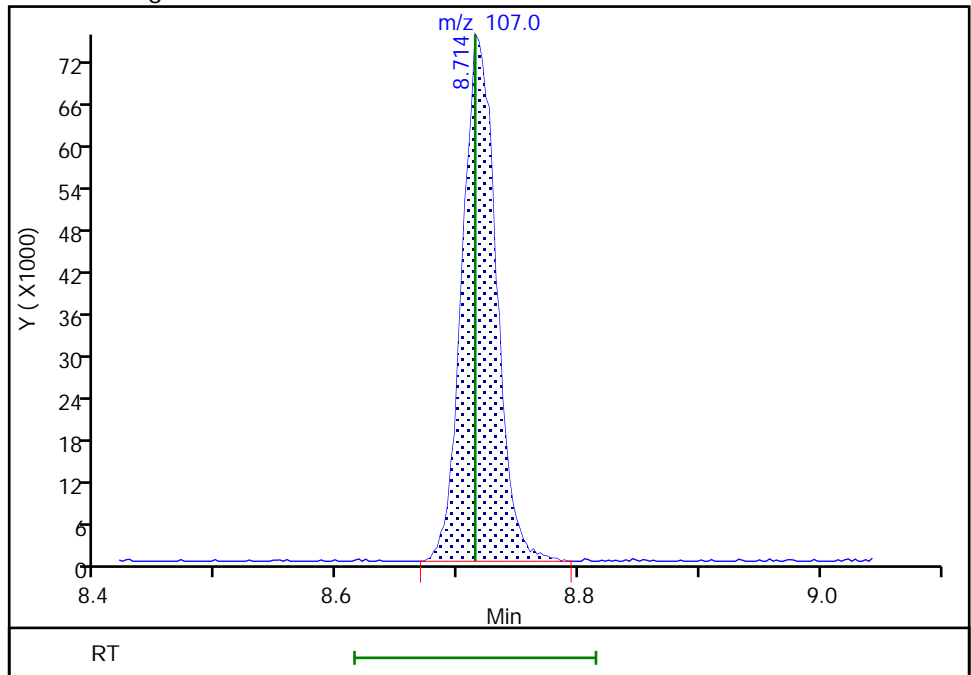
Not Detected
Expected RT: 8.71

Processing Integration Results



Manual Integration Results

RT: 8.71
Area: 147596
Amount: 44.529718
Amount Units: UG/L



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673135/3 Calibration Date: 09/05/2022 12:07
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 11:58
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 14:32
 Lab File ID: 16D0905.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2403	0.2494	0.0100	55.5	53.4	3.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2495	0.2526	0.0100	54.1	53.4	1.3	50.0
Toluene-d8 (Surr)	Ave	1.300	1.180	0.0100	48.5	53.4	-9.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7938	0.8138	0.0100	54.8	53.4	2.5	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Sep-2022 12:07:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIX
 Misc. Info.: 500-0087999-003
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub35
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQP0 Date: 05-Sep-2022 12:38:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.660	2.660	0.000	96	53673	2000.0	2611.6	
18 Isopropyl alcohol	45	3.137	3.139	-0.002	96	72428	500.0	545.7	
19 Acetonitrile	41	3.267	3.273	-0.006	100	161005	500.0	478.4	
* 23 TBA-d9 (IS)	65	3.432	3.434	-0.002	97	177051	1068.6	1068.6	
32 Isopropyl ether	45	4.118	4.123	-0.005	92	662911	50.0	51.3	
31 2-Chloro-1,3-butadiene	53	4.143	4.152	-0.009	97	390142	50.0	63.0	
33 Tert-butyl ethyl ether	59	4.464	4.463	-0.002	95	580011	50.0	49.6	
38 Ethyl acetate	43	4.682	4.682	0.000	99	229874	100.0	89.8	
37 Propionitrile	54	4.682	4.688	-0.006	87	183979	500.0	504.6	
40 Methacrylonitrile	41	4.832	4.841	-0.009	93	832749	500.0	496.5	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	71	181524	53.4	55.5	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	98	183864	53.4	54.1	
52 Isooctane	57	5.564	5.567	-0.003	96	1066096	50.0	58.0	
53 Tert-amyl methyl ether	73	5.595	5.593	-0.003	91	464636	50.0	43.3	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	727876	53.4	53.4	
56 n-Butanol	56	6.066	6.069	-0.003	90	78870	1250.0	1406.7	
58 Ethyl acrylate	55	6.264	6.267	-0.003	98	153874	50.0	47.7	
* 62 1,4-Dioxane-d8	96	6.488	6.482	0.006	75	17662	1068.6	1068.6	
64 Methyl methacrylate	41	6.519	6.525	-0.006	90	231961	100.0	96.2	
67 2-Nitropropane	43	6.965	6.968	-0.002	91	80289	100.0	93.2	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	661865	53.4	48.5	
79 n-Butyl acetate	43	8.558	8.567	-0.009	95	173206	50.0	37.9	a
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	87	560847	53.4	53.4	
83 1-Chlorohexane	55	9.324	9.330	-0.006	95	256806	50.0	63.5	Ma
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	254274	53.4	54.8	
105 Pentachloroethane	167	11.476	11.482	-0.006	96	163289	50.0	66.3	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	312445	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.890	11.896	-0.006	95	964189	50.0	55.0	
113 Benzyl chloride	126	11.967	11.970	-0.002	98	75310	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
117 1,3,5-Trichlorobenzene	180	12.979	12.987	-0.008	97	406320	50.0	55.7	
122 2-Methylnaphthalene	142	14.544	14.547	-0.003	92	135831	50.0	27.9	
123 1-Methylnaphthalene	142	14.714	14.720	-0.006	84	128500	50.0	33.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00296	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D

Injection Date: 05-Sep-2022 12:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

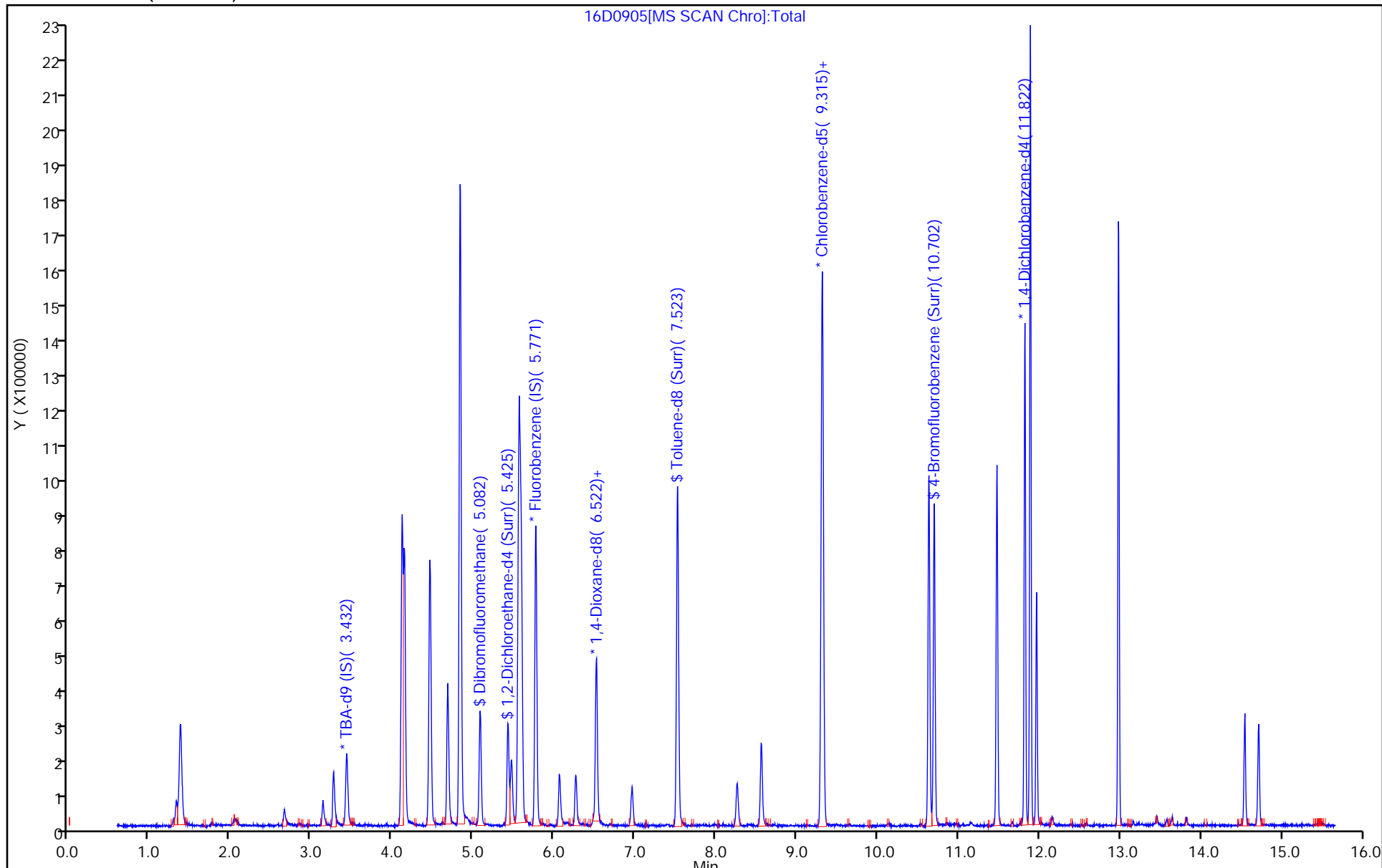
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673135/3 Calibration Date: 09/05/2022 12:07
 Instrument ID: CMS16 Calib Start Date: 01/18/2022 15:24
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 01/18/2022 17:58
 Lab File ID: 16D0905.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.1240	0.1620	0.0010	2610	2000	30.6	50.0
Isopropyl alcohol	Ave	0.8011	0.8743	0.0010	546	500	9.1	50.0
Acetonitrile	Ave	0.0247	0.0236	0.0010	478	500	-4.3	50.0
Isopropyl ether	Ave	0.9487	0.9732	0.0100	51.3	50.0	2.6	50.0
2-Chloro-1,3-butadiene	Ave	0.4548	0.5728	0.0100	63.0	50.0	25.9	50.0
Tert-butyl ethyl ether	Ave	0.8585	0.8515	0.0010	49.6	50.0	-0.8	50.0
Ethyl acetate	Lin1		0.1687	0.0100	89.8	100	-10.2	50.0
Propionitrile	Ave	0.0268	0.0270	0.0010	505	500	0.9	50.0
Methacrylonitrile	Ave	0.1231	0.1223	0.0100	496	500	-0.7	50.0
Isooctane	Ave	1.350	1.565	0.0100	58.0	50.0	15.9	50.0
Tert-amyl methyl ether	Ave	0.7879	0.6821	0.0100	43.3	50.0	-13.4	50.0
n-Butyl alcohol	Ave	0.3384	0.3808	0.0010	1410	1250	12.5	50.0
Ethyl acrylate	Ave	0.2368	0.2259	0.0010	47.7	50.0	-4.6	50.0
Methyl methacrylate	Ave	0.1770	0.1703	0.0100	96.2	100	-3.8	50.0
2-Nitropropane	Ave	0.0821	0.0765	0.0100	93.2	100	-6.8	50.0
n-Butyl acetate	Ave	0.4348	0.3300	0.0010	37.9	50.0	-24.1	50.0
1-Chlorohexane	Lin1		0.4893	0.0100	63.5	50.0	27.0	50.0
Pentachloroethane	Ave	0.4212	0.5585	0.0100	66.3	50.0	32.6	50.0
1,2,3-Trimethylbenzene	Ave	2.998	3.298	0.0010	55.0	50.0	10.0	50.0
Benzyl chloride	Ave	0.2826	0.2576	0.0010	45.6	50.0	-8.9	50.0
1,3,5-Trichlorobenzene	Ave	1.246	1.390	0.0100	55.7	50.0	11.5	50.0
2-Methylnaphthalene	Lin1		0.4646	0.0100	27.9	50.0	-44.1	50.0
1-Methylnaphthalene	Lin1		0.4395	0.0100	33.5	50.0	-32.9	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Sep-2022 12:07:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIX
 Misc. Info.: 500-0087999-003
 Operator ID: Instrument ID: CMS16
 Sublist: chrom-8260s16_test*sub35
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQP0

Date: 05-Sep-2022 12:38:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
10 Ethanol	45	2.660	2.660	0.000	96	53673	2000.0	2611.6	
18 Isopropyl alcohol	45	3.137	3.139	-0.002	96	72428	500.0	545.7	
19 Acetonitrile	41	3.267	3.273	-0.006	100	161005	500.0	478.4	
* 23 TBA-d9 (IS)	65	3.432	3.434	-0.002	97	177051	1068.6	1068.6	
32 Isopropyl ether	45	4.118	4.123	-0.005	92	662911	50.0	51.3	
31 2-Chloro-1,3-butadiene	53	4.143	4.152	-0.009	97	390142	50.0	63.0	
33 Tert-butyl ethyl ether	59	4.464	4.463	-0.002	95	580011	50.0	49.6	
38 Ethyl acetate	43	4.682	4.682	0.000	99	229874	100.0	89.8	
37 Propionitrile	54	4.682	4.688	-0.006	87	183979	500.0	504.6	
40 Methacrylonitrile	41	4.832	4.841	-0.009	93	832749	500.0	496.5	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	71	181524	53.4	55.5	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	98	183864	53.4	54.1	
52 Isooctane	57	5.564	5.567	-0.003	96	1066096	50.0	58.0	
53 Tert-amyl methyl ether	73	5.595	5.593	-0.003	91	464636	50.0	43.3	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	99	727876	53.4	53.4	
56 n-Butanol	56	6.066	6.069	-0.003	90	78870	1250.0	1406.7	
58 Ethyl acrylate	55	6.264	6.267	-0.003	98	153874	50.0	47.7	
* 62 1,4-Dioxane-d8	96	6.488	6.482	0.006	75	17662	1068.6	1068.6	
64 Methyl methacrylate	41	6.519	6.525	-0.006	90	231961	100.0	96.2	
67 2-Nitropropane	43	6.965	6.968	-0.002	91	80289	100.0	93.2	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	85	661865	53.4	48.5	
79 n-Butyl acetate	43	8.558	8.567	-0.009	95	173206	50.0	37.9	a
* 82 Chlorobenzene-d5	117	9.310	9.307	0.003	87	560847	53.4	53.4	
83 1-Chlorohexane	55	9.324	9.330	-0.006	95	256806	50.0	63.5	Ma
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	254274	53.4	54.8	
105 Pentachloroethane	167	11.476	11.482	-0.006	96	163289	50.0	66.3	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	312445	53.4	53.4	
112 1,2,3-Trimethylbenzene	105	11.890	11.896	-0.006	95	964189	50.0	55.0	
113 Benzyl chloride	126	11.967	11.970	-0.002	98	75310	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
117 1,3,5-Trichlorobenzene	180	12.979	12.987	-0.008	97	406320	50.0	55.7	
122 2-Methylnaphthalene	142	14.544	14.547	-0.003	92	135831	50.0	27.9	
123 1-Methylnaphthalene	142	14.714	14.720	-0.006	84	128500	50.0	33.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00296	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D

Injection Date: 05-Sep-2022 12:07:30

Instrument ID: CMS16

Operator ID:

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

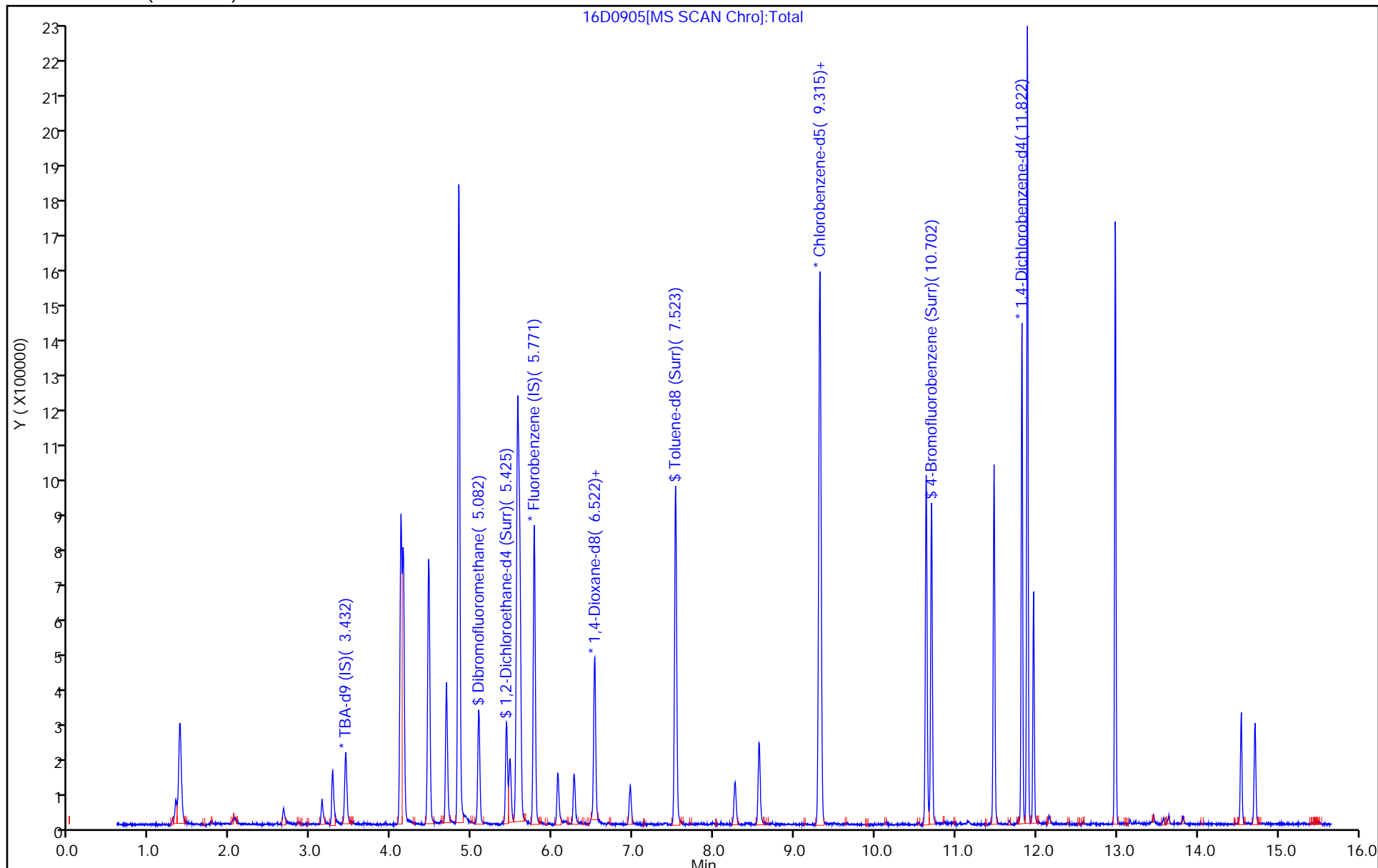
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D
Injection Date: 05-Sep-2022 12:07:30 Instrument ID: CMS16
Lims ID: CCV IX
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

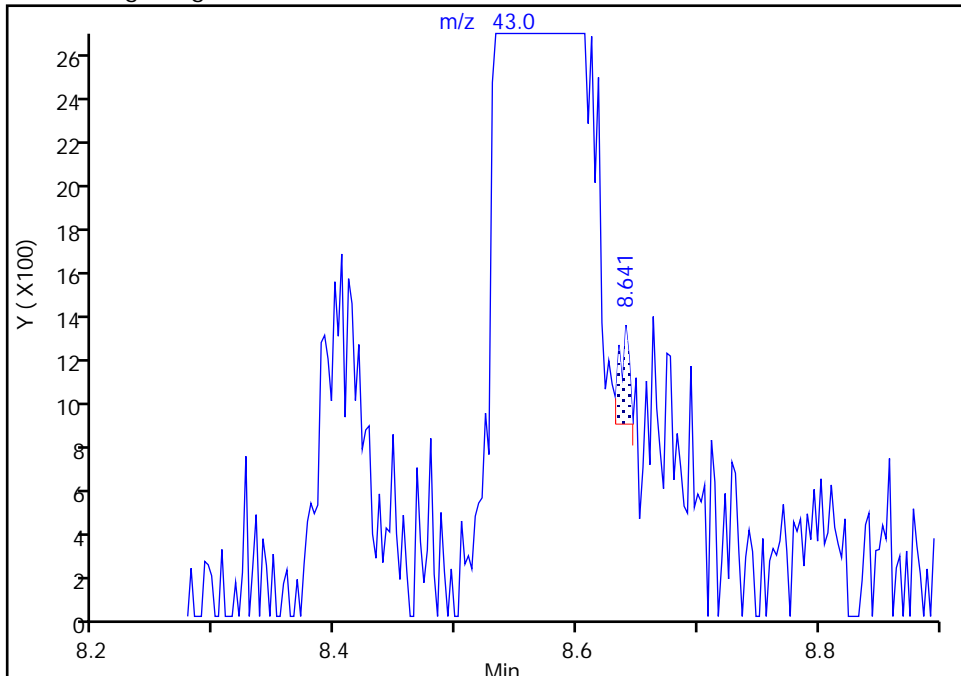
ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector MS SCAN

79 n-Butyl acetate, CAS: 123-86-4

Signal: 1

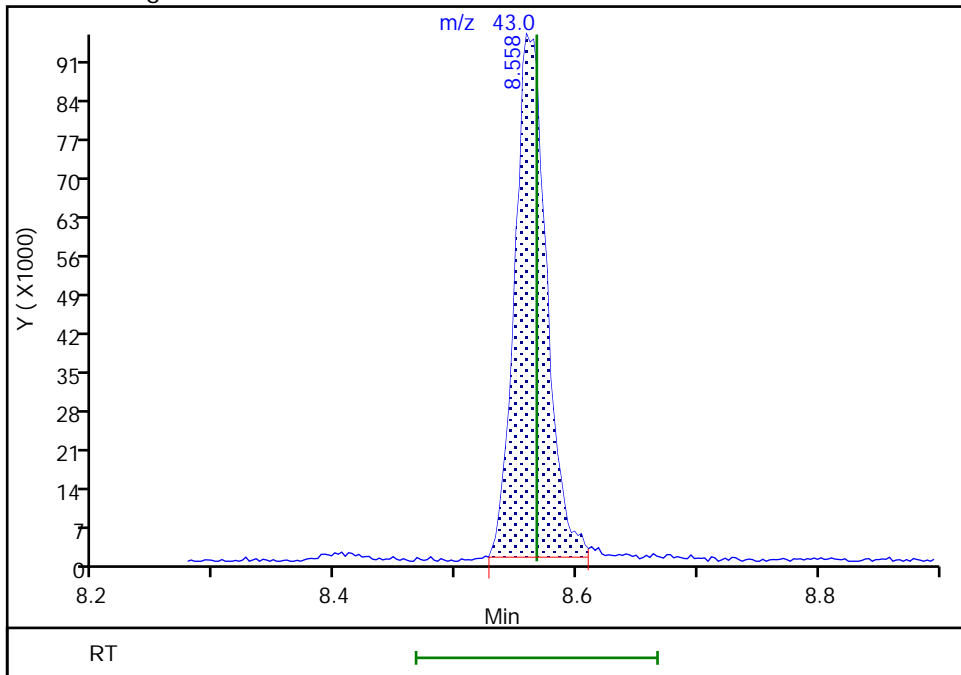
RT: 8.64
Area: 240
Amount: 0.052581
Amount Units: UG/L

Processing Integration Results



RT: 8.56
Area: 173206
Amount: 37.947155
Amount Units: UG/L

Manual Integration Results



Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16D0905.D
Injection Date: 05-Sep-2022 12:07:30 Instrument ID: CMS16
Lims ID: CCV IX
Client ID:
Operator ID:
Purge Vol: 5.000 mL
Method: 8260s16_test
Column: DB624 (0.20 mm)

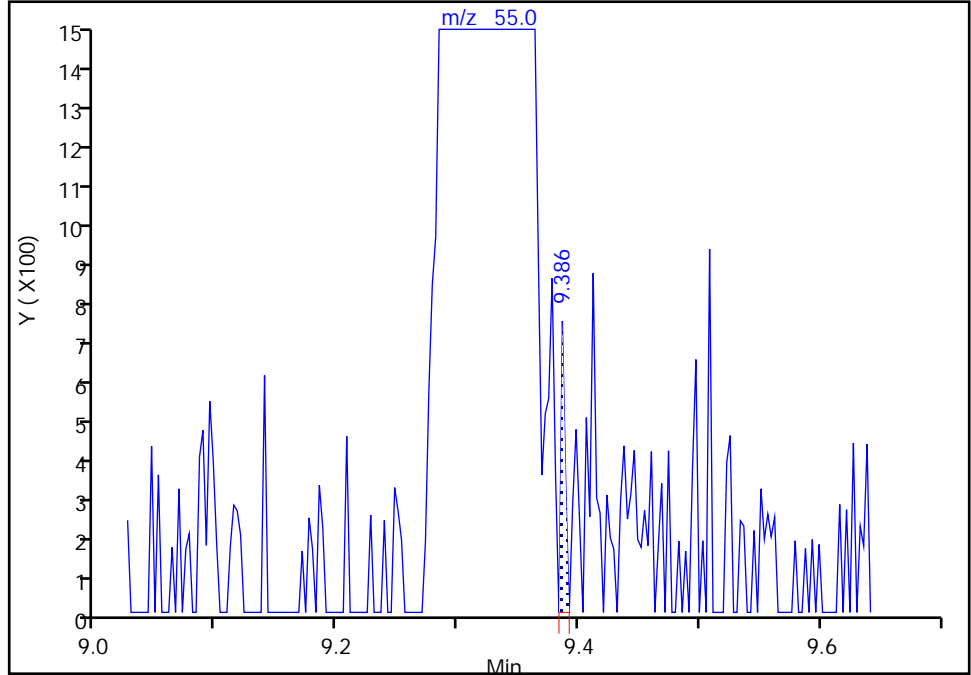
ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Detector: MS SCAN

83 1-Chlorohexane, CAS: 544-10-5

Signal: 1

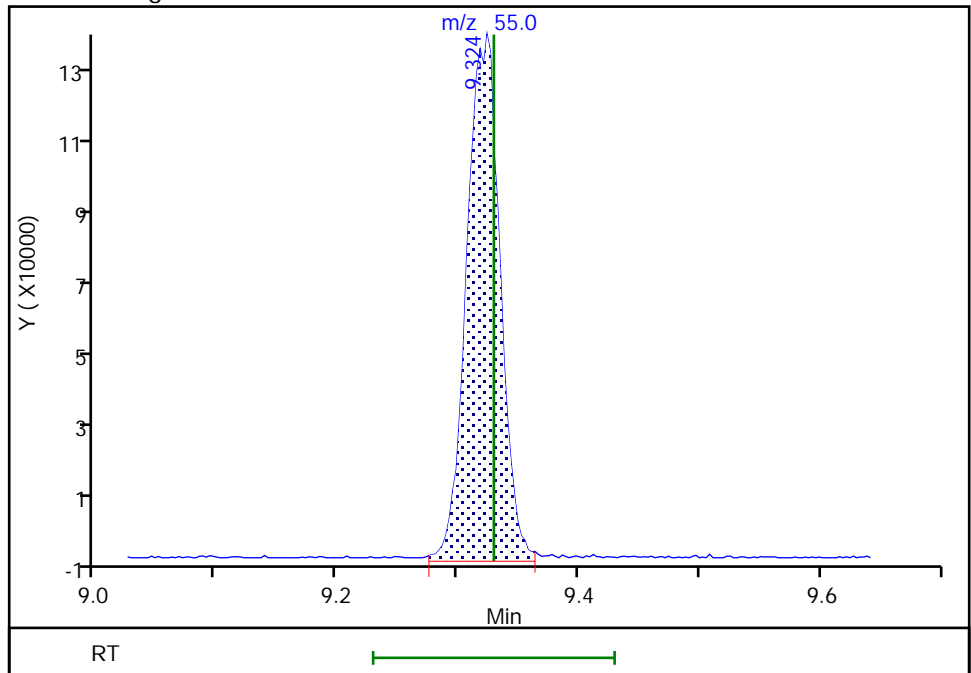
RT: 9.39
Area: 174
Amount: -0.846959
Amount Units: UG/L

Processing Integration Results



RT: 9.32
Area: 256806
Amount: 63.491399
Amount Units: UG/L

Manual Integration Results



Reviewer: BQP0, 05-Sep-2022 12:37:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-667600/23 Calibration Date: 07/29/2022 20:51
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3090	0.3473	0.0100	56.2	50.0	12.4	30.0
Chloromethane	Ave	0.3127	0.3725	0.1000	59.6	50.0	19.2	30.0
Vinyl chloride	Ave	0.3017	0.3362	0.0100	55.7	50.0	11.5	30.0
Butadiene	Ave	0.2923	0.3008	0.0100	51.4	50.0	2.9	30.0
Bromomethane	Ave	0.2030	0.2147	0.0100	52.9	50.0	5.8	30.0
Chloroethane	Ave	0.1895	0.1988	0.0100	52.4	50.0	4.9	30.0
Dichlorofluoromethane	Ave	0.4308	0.4626	0.0100	53.7	50.0	7.4	30.0
Trichlorofluoromethane	Ave	0.4371	0.4700	0.0100	53.8	50.0	7.5	30.0
Ethyl ether	Ave	0.1316	0.1319	0.0100	50.1	50.0	0.3	30.0
Acrolein	Ave	0.0131	0.0047	0.0010	725	2000	-63.8*	30.0
1,1-Dichloroethene	Ave	0.2648	0.2690	0.0100	50.8	50.0	1.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2920	0.2989	0.0100	51.2	50.0	2.4	30.0
Acetone	Ave	0.0254	0.0250	0.0100	49.2	50.0	-1.7	30.0
Iodomethane	Ave	0.4723	0.4682	0.0100	49.6	50.0	-0.9	30.0
Carbon disulfide	Ave	0.9218	0.9339	0.0100	50.7	50.0	1.3	30.0
3-Chloropropene	Ave	0.1731	0.1789	0.0100	51.7	50.0	3.4	30.0
Methyl acetate	Lin1		0.0697	0.0100	107	100	6.6	30.0
Methylene Chloride	Ave	0.2509	0.2508	0.0100	50.0	50.0	-0.0	30.0
tert-Butyl alcohol	Ave	1.182	1.184	0.0100	500	500	0.1	30.0
Acrylonitrile	Ave	0.0372	0.0373	0.0010	502	500	0.3	30.0
Methyl tert-butyl ether	Ave	0.4002	0.4206	0.0100	52.6	50.0	5.1	30.0
trans-1,2-Dichloroethene	Ave	0.2950	0.2970	0.0100	50.3	50.0	0.7	30.0
Hexane	Lin1		0.4938	0.0100	52.7	50.0	5.4	30.0
1,1-Dichloroethane	Ave	0.4698	0.4748	0.1000	50.5	50.0	1.1	30.0
Vinyl acetate	Ave	0.2430	0.2486	0.0100	51.2	50.0	2.3	30.0
2,2-Dichloropropane	Ave	0.3936	0.3754	0.0100	47.7	50.0	-4.6	30.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2892	0.0100	49.6	50.0	-0.9	30.0
2-Butanone (MEK)	Ave	0.0358	0.0390	0.0100	54.6	50.0	9.1	30.0
Bromochloromethane	Ave	0.1168	0.1154	0.0100	49.4	50.0	-1.2	30.0
Tetrahydrofuran	Lin1		0.0262	0.0100	110	100	9.6	30.0
Chloroform	Lin1		0.4384	0.0100	54.0	50.0	8.0	30.0
1,1,1-Trichloroethane	Ave	0.4301	0.4430	0.0100	51.5	50.0	3.0	30.0
Cyclohexane	Ave	0.5323	0.5576	0.0100	52.4	50.0	4.8	30.0
1,1-Dichloropropene	Ave	0.3866	0.3941	0.0100	51.0	50.0	1.9	30.0
Carbon tetrachloride	Ave	0.4108	0.4289	0.0100	52.2	50.0	4.4	30.0
Isobutyl alcohol	Ave	0.5628	0.5442	0.0010	1210	1250	-3.3	30.0
Benzene	Ave	1.092	1.105	0.0100	50.6	50.0	1.2	30.0
1,2-Dichloroethane	Ave	0.2325	0.2401	0.0100	51.6	50.0	3.3	30.0
Heptane	Ave	0.4658	0.4750	0.0100	51.0	50.0	2.0	30.0
Trichloroethene	Ave	0.3198	0.3366	0.0100	52.6	50.0	5.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-667600/23 Calibration Date: 07/29/2022 20:51
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5777	0.5891	0.0100	51.0	50.0	2.0	30.0
1,2-Dichloropropane	Ave	0.2265	0.2320	0.0100	51.2	50.0	2.4	30.0
Dibromomethane	Ave	0.0968	0.0991	0.0100	51.2	50.0	2.4	30.0
1,4-Dioxane	Lin1		1.089	0.0010	1060	1000	6.4	30.0
Dichlorobromomethane	Ave	0.2760	0.2841	0.0100	51.5	50.0	3.0	30.0
2-Chloroethyl vinyl ether	Ave	0.1152	0.1188	0.0100	51.6	50.0	3.1	30.0
cis-1,3-Dichloropropene	Ave	0.4891	0.4880	0.0100	49.9	50.0	-0.2	30.0
methyl isobutyl ketone	Ave	0.1240	0.1330	0.0100	53.6	50.0	7.2	30.0
Toluene	Lin1		1.014	0.0100	51.8	50.0	3.6	30.0
trans-1,3-Dichloropropene	Ave	0.3697	0.3741	0.0100	50.6	50.0	1.2	30.0
Ethyl methacrylate	Lin1		0.2324	0.0100	54.3	50.0	8.6	30.0
1,1,2-Trichloroethane	Lin1		0.1948	0.0100	54.4	50.0	8.8	30.0
Tetrachloroethene	Ave	0.4654	0.4735	0.0100	50.9	50.0	1.7	30.0
1,3-Dichloropropane	Ave	0.3312	0.3352	0.0100	50.6	50.0	1.2	30.0
2-Hexanone	Ave	0.0788	0.0842	0.0100	53.4	50.0	6.8	30.0
Chlorodibromomethane	Ave	0.2654	0.2664	0.0100	50.2	50.0	0.4	30.0
Ethylene Dibromide	Ave	0.1885	0.1876	0.0100	49.8	50.0	-0.5	30.0
Chlorobenzene	Ave	1.056	1.062	0.3000	50.3	50.0	0.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3733	0.3882	0.0100	52.0	50.0	4.0	30.0
Ethylbenzene	Ave	0.6637	0.6328	0.0100	47.7	50.0	-4.7	30.0
m&p-Xylene	Ave	1.522	1.449	0.0100	47.6	50.0	-4.8	30.0
o-Xylene	Ave	1.532	1.486	0.0100	48.5	50.0	-3.0	30.0
Styrene	Ave	1.150	1.131	0.0100	49.2	50.0	-1.7	30.0
Bromoform	Ave	0.1404	0.1417	0.1000	50.5	50.0	1.0	30.0
Isopropylbenzene	Ave	4.020	4.033	0.0100	50.2	50.0	0.3	30.0
1,1,2,2-Tetrachloroethane	Lin1		0.3848	0.3000	55.8	50.0	11.5	30.0
Bromobenzene	Ave	0.8093	0.7967	0.0100	49.2	50.0	-1.6	30.0
1,2,3-Trichloropropane	Ave	0.1146	0.1169	0.0100	51.0	50.0	2.0	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1067	0.0100	52.8	50.0	5.7	30.0
N-Propylbenzene	Ave	4.612	4.513	0.0100	48.9	50.0	-2.2	30.0
2-Chlorotoluene	Ave	2.497	2.457	0.0100	49.2	50.0	-1.6	30.0
1,3,5-Trimethylbenzene	Ave	3.291	3.287	0.0100	49.9	50.0	-0.1	30.0
4-Chlorotoluene	Ave	2.802	2.789	0.0100	49.8	50.0	-0.5	30.0
tert-Butylbenzene	Ave	3.099	3.191	0.0100	51.5	50.0	3.0	30.0
1,2,4-Trimethylbenzene	Ave	3.295	3.276	0.0100	49.7	50.0	-0.6	30.0
sec-Butylbenzene	Ave	4.590	4.685	0.0100	51.0	50.0	2.1	30.0
1,3-Dichlorobenzene	Ave	1.730	1.697	0.0100	49.1	50.0	-1.9	30.0
p-Isopropyltoluene	Ave	3.948	4.046	0.0100	51.2	50.0	2.5	30.0
1,4-Dichlorobenzene	Ave	1.696	1.651	0.0100	48.7	50.0	-2.6	30.0
n-Butylbenzene	Ave	3.456	3.391	0.0100	49.1	50.0	-1.9	30.0
1,2-Dichlorobenzene	Ave	1.488	1.491	0.0100	50.1	50.0	0.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-667600/23 Calibration Date: 07/29/2022 20:51
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0598	0.0601	0.0100	50.3	50.0	0.6	30.0
1,2,4-Trichlorobenzene	Lin1		0.9681	0.0100	55.7	50.0	11.5	30.0
Hexachlorobutadiene	Ave	0.6391	0.6720	0.0100	52.6	50.0	5.1	30.0
Naphthalene	Lin1		1.511	0.0100	55.8	50.0	11.6	30.0
1,2,3-Trichlorobenzene	Lin1		0.7944	0.0100	54.3	50.0	8.5	30.0
Dibromofluoromethane	Ave	0.2247	0.2123	0.0100	47.2	50.0	-5.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1788	0.1715	0.0100	48.0	50.0	-4.1	30.0
Toluene-d8 (Surr)	Ave	1.422	1.334	0.0100	46.9	50.0	-6.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8357	0.7864	0.0100	47.1	50.0	-5.9	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\ICV1.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-Jul-2022 20:51:30 ALS Bottle#: 30 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 500-0087271-023
 Operator ID: EA Instrument ID: CMS19
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 01-Aug-2022 13:10:57 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1615

First Level Reviewer: BQP0

Date: 01-Aug-2022 13:12:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.627	1.622	0.005	88	190739	50.0	56.2	
2 Chloromethane	50	1.830	1.825	0.005	88	204635	50.0	59.6	
3 Vinyl chloride	62	1.948	1.943	0.005	83	184677	50.0	55.7	
4 Butadiene	39	1.964	1.959	0.005	91	165216	50.0	51.4	
5 Bromomethane	94	2.253	2.253	0.000	91	117942	50.0	52.9	
6 Chloroethane	64	2.360	2.355	0.005	94	109195	50.0	52.4	
8 Dichlorofluoromethane	67	2.574	2.569	0.005	83	254089	50.0	53.7	
9 Trichlorofluoromethane	101	2.611	2.611	0.000	81	258174	50.0	53.8	
11 Ethyl ether	59	2.895	2.895	0.000	90	72463	50.0	50.1	
12 Acrolein	56	3.029	3.023	0.006	96	104214	2000.0	724.9	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	90	147761	50.0	50.8	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.120	3.120	0.000	81	164164	50.0	51.2	
15 Acetone	43	3.178	3.178	0.000	95	13715	50.0	49.2	
16 Iodomethane	142	3.259	3.259	0.000	98	257184	50.0	49.6	
17 Carbon disulfide	76	3.318	3.318	0.000	100	512967	50.0	50.7	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	90	98287	50.0	51.7	
21 Methyl acetate	43	3.478	3.478	0.000	97	76577	100.0	106.6	
22 Methylene Chloride	84	3.574	3.574	0.000	92	137775	50.0	50.0	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	76598	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.687	3.687	0.000	98	45328	500.0	500.5	a
25 Acrylonitrile	53	3.815	3.815	0.000	98	204751	500.0	501.6	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	83	231038	50.0	52.6	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	95	163160	50.0	50.3	
28 Hexane	57	4.083	4.083	0.000	92	271220	50.0	52.7	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	260791	50.0	50.5	
30 Vinyl acetate	43	4.280	4.281	-0.001	99	136555	50.0	51.2	
34 2,2-Dichloropropane	77	4.799	4.799	0.000	70	206183	50.0	47.7	
35 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	89	158839	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.821	4.821	0.000	52	21441	50.0	54.6	
39 Chlorobromomethane	128	5.040	5.040	0.000	91	63378	50.0	49.4	
41 Tetrahydrofuran	42	5.088	5.088	0.000	87	28747	100.0	109.6	
42 Chloroform	83	5.115	5.115	0.000	83	240783	50.0	54.0	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	82	116590	50.0	47.2	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	243334	50.0	51.5	
45 Cyclohexane	56	5.350	5.350	0.000	91	306293	50.0	52.4	
46 1,1-Dichloropropene	75	5.463	5.463	0.000	90	216460	50.0	51.0	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	235589	50.0	52.2	
48 Isobutyl alcohol	43	5.575	5.575	0.000	95	52108	1250.0	1208.8	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	98	94214	50.0	48.0	
50 Benzene	78	5.682	5.682	0.000	96	606819	50.0	50.6	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	84	131884	50.0	51.6	
54 n-Heptane	43	5.934	5.934	0.000	92	260916	50.0	51.0	
* 55 Fluorobenzene (IS)	96	5.971	5.966	0.005	99	549283	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	87	184896	50.0	52.6	
59 Methylcyclohexane	83	6.559	6.559	0.000	93	323559	50.0	51.0	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	92	127437	50.0	51.2	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	82	11408	1000.0	1000.0	
63 Dibromomethane	93	6.741	6.741	0.000	90	54448	50.0	51.2	
65 1,4-Dioxane	88	6.757	6.757	0.000	50	12423	1000.0	1063.7	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	156074	50.0	51.5	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	91	44281	50.0	51.6	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	91	181833	50.0	49.9	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	97	49538	50.0	53.6	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	497153	50.0	46.9	
72 Toluene	92	7.811	7.811	0.000	93	377848	50.0	51.8	
73 trans-1,3-Dichloropropene	75	8.079	8.079	0.000	92	139374	50.0	50.6	
74 Ethyl methacrylate	69	8.180	8.180	0.000	90	86590	50.0	54.3	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	83	72573	50.0	54.4	
76 Tetrachloroethene	166	8.469	8.469	0.000	90	176437	50.0	50.9	
77 1,3-Dichloropropane	76	8.517	8.517	0.000	93	124893	50.0	50.6	
78 2-Hexanone	43	8.614	8.614	0.000	97	31366	50.0	53.4	
80 Chlorodibromomethane	129	8.796	8.796	0.000	89	99266	50.0	50.2	
81 Ethylene Dibromide	107	8.940	8.940	0.000	98	69906	50.0	49.8	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	372594	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	94	395758	50.0	50.3	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	89	144645	50.0	52.0	
86 Ethylbenzene	106	9.705	9.705	0.000	99	235769	50.0	47.7	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	539927	50.0	47.6	
88 o-Xylene	91	10.310	10.310	0.000	94	553794	50.0	48.5	
89 Styrene	104	10.331	10.331	0.000	96	421397	50.0	49.2	
90 Bromoform	173	10.534	10.534	0.000	97	52808	50.0	50.5	
91 Isopropylbenzene	105	10.716	10.716	0.000	97	778216	50.0	50.2	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	92	151735	50.0	47.1	
95 Bromobenzene	156	11.032	11.027	0.006	90	153717	50.0	49.2	
96 1,1,2,2-Tetrachloroethane	83	11.032	11.032	0.000	59	74248	50.0	55.8	
97 1,2,3-Trichloropropane	110	11.080	11.075	0.005	86	22556	50.0	51.0	
98 trans-1,4-Dichloro-2-butene	53	11.091	11.091	0.000	84	20595	50.0	52.8	
99 N-Propylbenzene	91	11.133	11.133	0.000	99	870699	50.0	48.9	
100 2-Chlorotoluene	91	11.219	11.219	0.000	96	474041	50.0	49.2	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	634206	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.326	11.326	0.000	95	538066	50.0	49.8	
104 tert-Butylbenzene	119	11.620	11.620	0.000	90	615712	50.0	51.5	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	632053	50.0	49.7	
107 sec-Butylbenzene	105	11.818	11.818	0.000	93	904003	50.0	51.0	
108 1,3-Dichlorobenzene	146	11.920	11.920	0.000	98	327505	50.0	49.1	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	97	780675	50.0	51.2	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	192941	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	94	318573	50.0	48.7	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	654290	50.0	49.1	
114 1,2-Dichlorobenzene	146	12.326	12.326	0.000	98	287740	50.0	50.1	
116 1,2-Dibromo-3-Chloropropane	75	12.974	12.968	0.006	65	11601	50.0	50.3	
118 1,2,4-Trichlorobenzene	180	13.600	13.600	0.000	94	186795	50.0	55.7	
119 Hexachlorobutadiene	225	13.717	13.717	0.000	95	129651	50.0	52.6	
120 Naphthalene	128	13.792	13.792	0.000	99	291529	50.0	55.8	
121 1,2,3-Trichlorobenzene	180	13.974	13.974	0.000	94	153275	50.0	54.3	
S 124 Xylenes, Total	91				0		100.0	96.1	
S 128 1,2-Dichloroethene, Total	96				0		100.0	99.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 GAS SPK_00207	Amount Added: 5.00	Units: uL	
8260 MEGA SPK_00167	Amount Added: 5.00	Units: uL	
8260 KET SPK_00165	Amount Added: 5.00	Units: uL	
8260 ACR SPK_00213	Amount Added: 5.00	Units: uL	
VA/2CEVE SPK_00195	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00310	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\ICV1.d

Injection Date: 29-Jul-2022 20:51:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: ICV

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

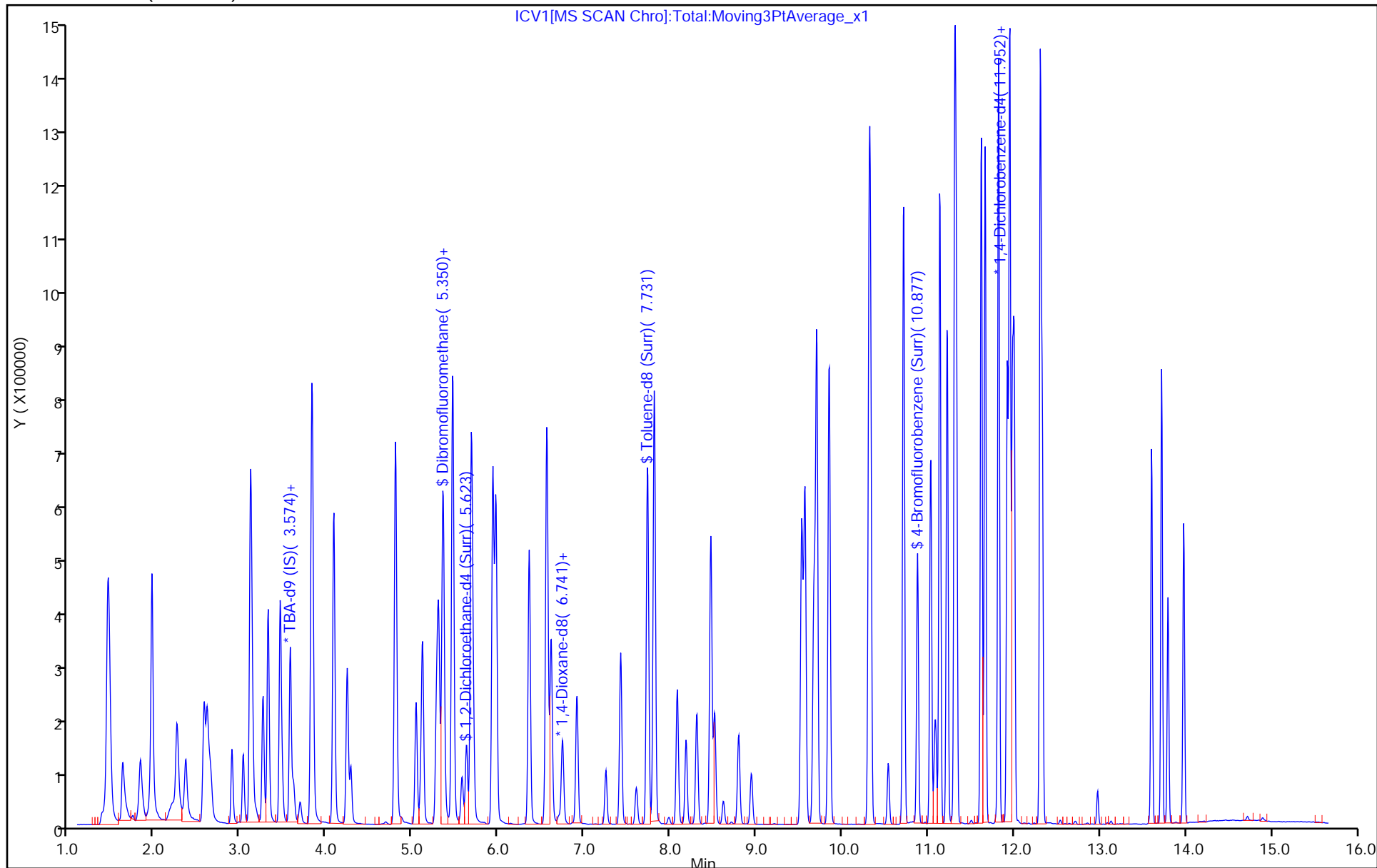
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

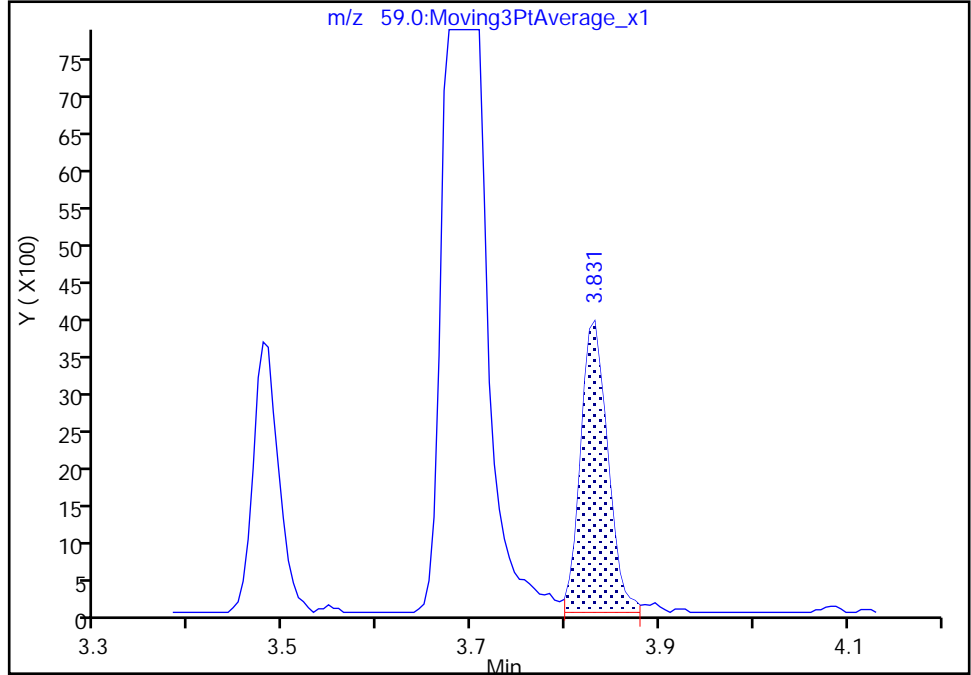
Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\ICV1.d
Injection Date: 29-Jul-2022 20:51:30 Instrument ID: CMS19
Lims ID: ICV
Client ID:
Operator ID: EA ALS Bottle#: 30 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

24 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

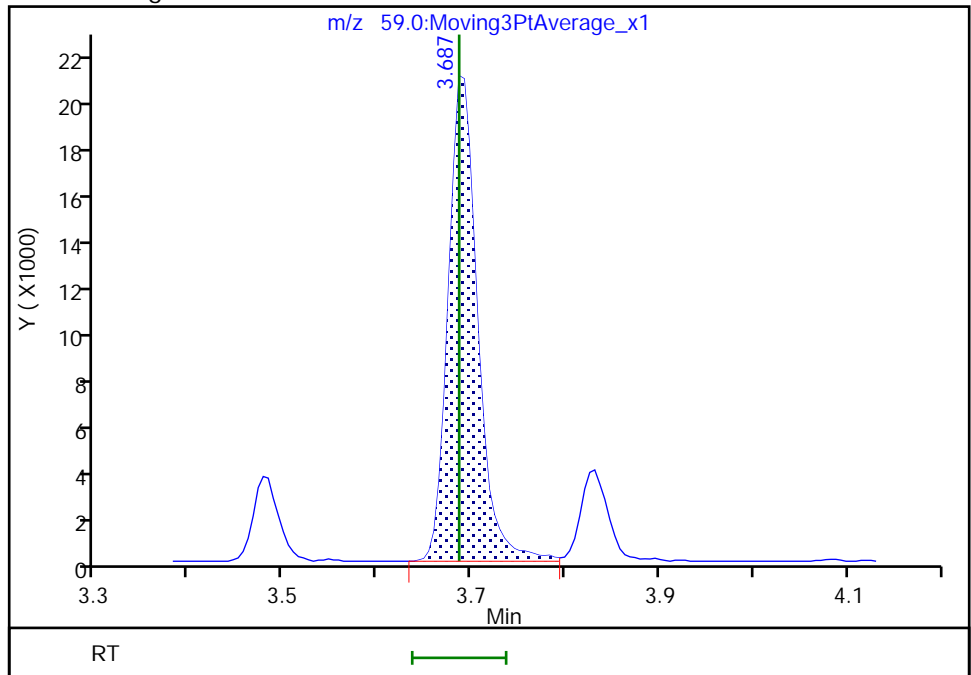
RT: 3.83
Area: 7882
Amount: 87.027733
Amount Units: ug/L

Processing Integration Results



RT: 3.69
Area: 45328
Amount: 500.4812
Amount Units: ug/L

Manual Integration Results



Reviewer: BQP0, 31-Jul-2022 19:16:15
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-667824/4 Calibration Date: 08/01/2022 09:07
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: icv2.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2247	0.2309	0.0100	51.4	50.0	2.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1788	0.1826	0.0100	51.0	50.0	2.1	30.0
Toluene-d8 (Surr)	Ave	1.422	1.404	0.0100	49.4	50.0	-1.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8357	0.8059	0.0100	48.2	50.0	-3.6	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\icv2.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Aug-2022 09:07:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv2
 Misc. Info.: 500-0087307-004
 Operator ID: EA Instrument ID: CMS19
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 02-Aug-2022 10:52:03 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1608

First Level Reviewer: BQP0

Date: 01-Aug-2022 13:30:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	95	25945	2000.0	2098.6	
18 Isopropyl alcohol	45	3.312	3.312	0.000	94	30157	500.0	482.9	
19 Acetonitrile	41	3.441	3.441	0.000	100	62598	500.0	517.8	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	82571	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	358082	50.0	49.9	
31 2-Chloro-1,3-butadiene	53	4.318	4.323	-0.005	93	232560	50.0	47.2	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	96	300297	50.0	50.9	
38 Ethyl acetate	43	4.864	4.864	0.000	99	93667	100.0	96.4	
37 Propionitrile	54	4.885	4.885	0.000	98	67652	500.0	493.6	
40 Methacrylonitrile	41	5.035	5.035	0.000	91	308463	500.0	461.7	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	81	129530	50.0	51.4	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.623	5.623	0.000	98	102438	50.0	51.0	
52 Isooctane	57	5.746	5.746	0.000	97	658596	50.0	48.3	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	97	250424	50.0	51.0	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	561046	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	92	35366	1250.0	1213.3	
58 Ethyl acrylate	55	6.463	6.463	0.000	98	60662	50.0	44.7	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	180382	50.0	51.2	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	64	11862	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	89	87882	100.0	96.8	
67 2-Nitropropane	43	7.185	7.185	0.000	93	28906	100.0	96.0	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	503282	50.0	49.4	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	74328	50.0	44.7	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	82	358488	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	74	189453	50.0	45.0	
92 Cyclohexanone	55	10.823	10.823	0.000	96	160412	5000.0	4953.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	93	148370	50.0	48.2	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	636472	50.0	43.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
105 Pentachloroethane	167	11.642	11.642	0.000	90	79828	50.0	63.2	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	184095	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	514454	50.0	46.2	
113 Benzyl chloride	126	12.123	12.123	0.000	98	37165	50.0	49.8	
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	237712	50.0	51.0	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	92	181774	50.0	51.5	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	141903	50.0	50.3	

QC Flag Legend

Processing Flags

Reagents:

8260 ADDS SPK_00139	Amount Added: 5.00	Units: uL	
2ETTOL SPK_00055	Amount Added: 5.00	Units: uL	
2,3DCLP SPK_00088	Amount Added: 5.00	Units: uL	
STD 2 SPK_00140	Amount Added: 5.00	Units: uL	
POLRADDSSPK_00120	Amount Added: 5.00	Units: uL	
CYCLOHEX SPK_00274	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00311	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\icv2.d

Injection Date: 01-Aug-2022 09:07:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: ICV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

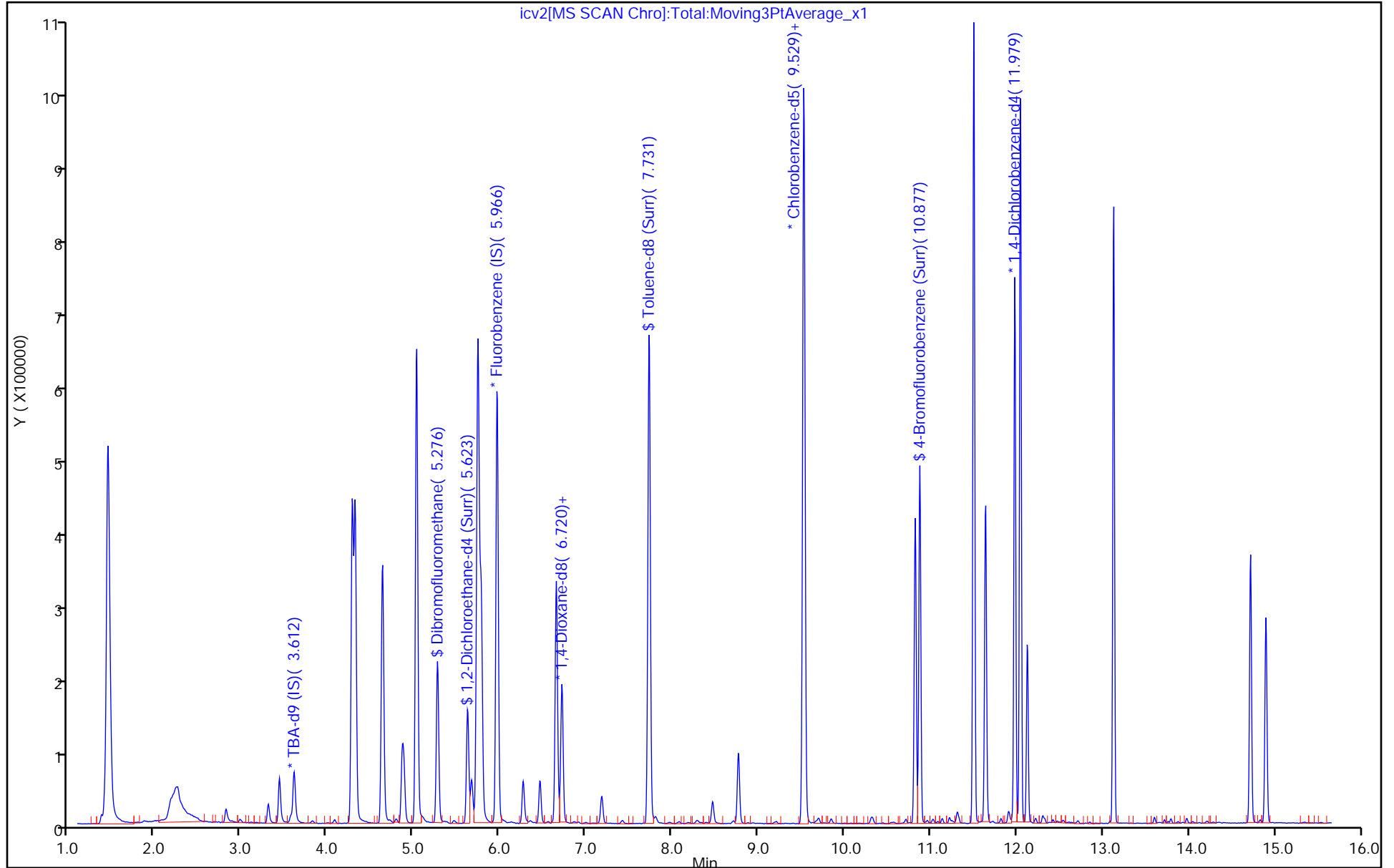
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-667824/4 Calibration Date: 08/01/2022 09:07
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 14:20
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 20:02
 Lab File ID: icv2.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.1497	0.1571	0.0010	2100	2000	4.9	30.0
Isopropyl alcohol	Lin1		0.7305	0.0010	483	500	-3.4	30.0
Acetonitrile	Lin1		0.0112	0.0010	518	500	3.6	30.0
Isopropyl ether	Ave	0.6394	0.6382	0.0100	49.9	50.0	-0.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4389	0.4145	0.0100	47.2	50.0	-5.6	30.0
Tert-butyl ethyl ether	Ave	0.5254	0.5352	0.0010	50.9	50.0	1.9	30.0
Ethyl acetate	Lin1		0.0835	0.0100	96.4	100	-3.6	30.0
Propionitrile	Ave	0.0122	0.0121	0.0010	494	500	-1.3	30.0
Methacrylonitrile	Ave	0.0595	0.0550	0.0100	462	500	-7.7	30.0
Isooctane	Ave	1.216	1.174	0.0100	48.3	50.0	-3.5	30.0
Tert-amyl methyl ether	Ave	0.4376	0.4464	0.0100	51.0	50.0	2.0	30.0
n-Butyl alcohol	Lin1		0.3426	0.0010	1210	1250	-2.9	30.0
Ethyl acrylate	Ave	0.1208	0.1081	0.0010	44.7	50.0	-10.5	30.0
2,3-Dichloro-1-propene	Ave	0.3139	0.3215	0.0010	51.2	50.0	2.4	30.0
Methyl methacrylate	Ave	0.0809	0.0783	0.0100	96.8	100	-3.2	30.0
2-Nitropropane	Lin1		0.0403	0.0100	96.0	100	-4.0	30.0
n-Butyl acetate	Ave	0.2317	0.2073	0.0010	44.7	50.0	-10.5	30.0
1-Chlorohexane	Ave	0.5875	0.5285	0.0100	45.0	50.0	-10.0	30.0
Cyclohexanone	Ave	0.0088	0.0087*	0.0100	4950	5000	-0.9	30.0
2-Ethyltoluene	Ave	3.998	3.457	0.0010	43.2	50.0	-13.5	30.0
Pentachloroethane	Lin1		0.4336	0.0100	63.2	50.0	26.5	30.0
1,2,3-Trimethylbenzene	Ave	3.025	2.795	0.0010	46.2	50.0	-7.6	30.0
Benzyl chloride	Ave	0.2028	0.2019	0.0010	49.8	50.0	-0.5	30.0
1,3,5-Trichlorobenzene	Ave	1.265	1.291	0.0100	51.0	50.0	2.1	30.0
2-Methylnaphthalene	Ave	0.9587	0.9874	0.0100	51.5	50.0	3.0	30.0
1-Methylnaphthalene	Ave	0.7670	0.7708	0.0100	50.3	50.0	0.5	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\icv2.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Aug-2022 09:07:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv2
 Misc. Info.: 500-0087307-004
 Operator ID: EA Instrument ID: CMS19
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 02-Aug-2022 10:52:03 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1608

First Level Reviewer: BQP0

Date: 01-Aug-2022 13:30:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.820	2.815	0.005	95	25945	2000.0	2098.6	
18 Isopropyl alcohol	45	3.312	3.312	0.000	94	30157	500.0	482.9	
19 Acetonitrile	41	3.441	3.441	0.000	100	62598	500.0	517.8	
* 23 TBA-d9 (IS)	65	3.612	3.606	0.006	97	82571	1000.0	1000.0	
32 Isopropyl ether	45	4.286	4.286	0.000	93	358082	50.0	49.9	
31 2-Chloro-1,3-butadiene	53	4.318	4.323	-0.005	93	232560	50.0	47.2	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	96	300297	50.0	50.9	
38 Ethyl acetate	43	4.864	4.864	0.000	99	93667	100.0	96.4	
37 Propionitrile	54	4.885	4.885	0.000	98	67652	500.0	493.6	
40 Methacrylonitrile	41	5.035	5.035	0.000	91	308463	500.0	461.7	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	81	129530	50.0	51.4	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.623	5.623	0.000	98	102438	50.0	51.0	
52 Isooctane	57	5.746	5.746	0.000	97	658596	50.0	48.3	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	97	250424	50.0	51.0	
* 55 Fluorobenzene (IS)	96	5.966	5.966	0.000	99	561046	50.0	50.0	
56 n-Butanol	56	6.271	6.271	0.000	92	35366	1250.0	1213.3	
58 Ethyl acrylate	55	6.463	6.463	0.000	98	60662	50.0	44.7	
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	180382	50.0	51.2	
* 62 1,4-Dioxane-d8	96	6.699	6.699	0.000	64	11862	1000.0	1000.0	
64 Methyl methacrylate	41	6.720	6.720	0.000	89	87882	100.0	96.8	
67 2-Nitropropane	43	7.185	7.185	0.000	93	28906	100.0	96.0	
\$ 71 Toluene-d8 (Surr)	98	7.731	7.731	0.000	93	503282	50.0	49.4	
79 n-Butyl acetate	43	8.769	8.769	0.000	96	74328	50.0	44.7	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	82	358488	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	74	189453	50.0	45.0	
92 Cyclohexanone	55	10.823	10.823	0.000	96	160412	5000.0	4953.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	93	148370	50.0	48.2	
103 2-Ethyltoluene	105	11.503	11.503	0.000	97	636472	50.0	43.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
105 Pentachloroethane	167	11.642	11.642	0.000	90	79828	50.0	63.2	
* 110 1,4-Dichlorobenzene-d4	152	11.979	11.979	0.000	94	184095	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.043	12.043	0.000	94	514454	50.0	46.2	
113 Benzyl chloride	126	12.123	12.123	0.000	98	37165	50.0	49.8	
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	237712	50.0	51.0	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	92	181774	50.0	51.5	
123 1-Methylnaphthalene	142	14.894	14.894	0.000	89	141903	50.0	50.3	

QC Flag Legend

Processing Flags

Reagents:

8260 ADDS SPK_00139	Amount Added: 5.00	Units: uL	
2ETTOL SPK_00055	Amount Added: 5.00	Units: uL	
2,3DCLP SPK_00088	Amount Added: 5.00	Units: uL	
STD 2 SPK_00140	Amount Added: 5.00	Units: uL	
POLRADDSSPK_00120	Amount Added: 5.00	Units: uL	
CYCLOHEX SPK_00274	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00311	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\icv2.d

Injection Date: 01-Aug-2022 09:07:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: ICV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

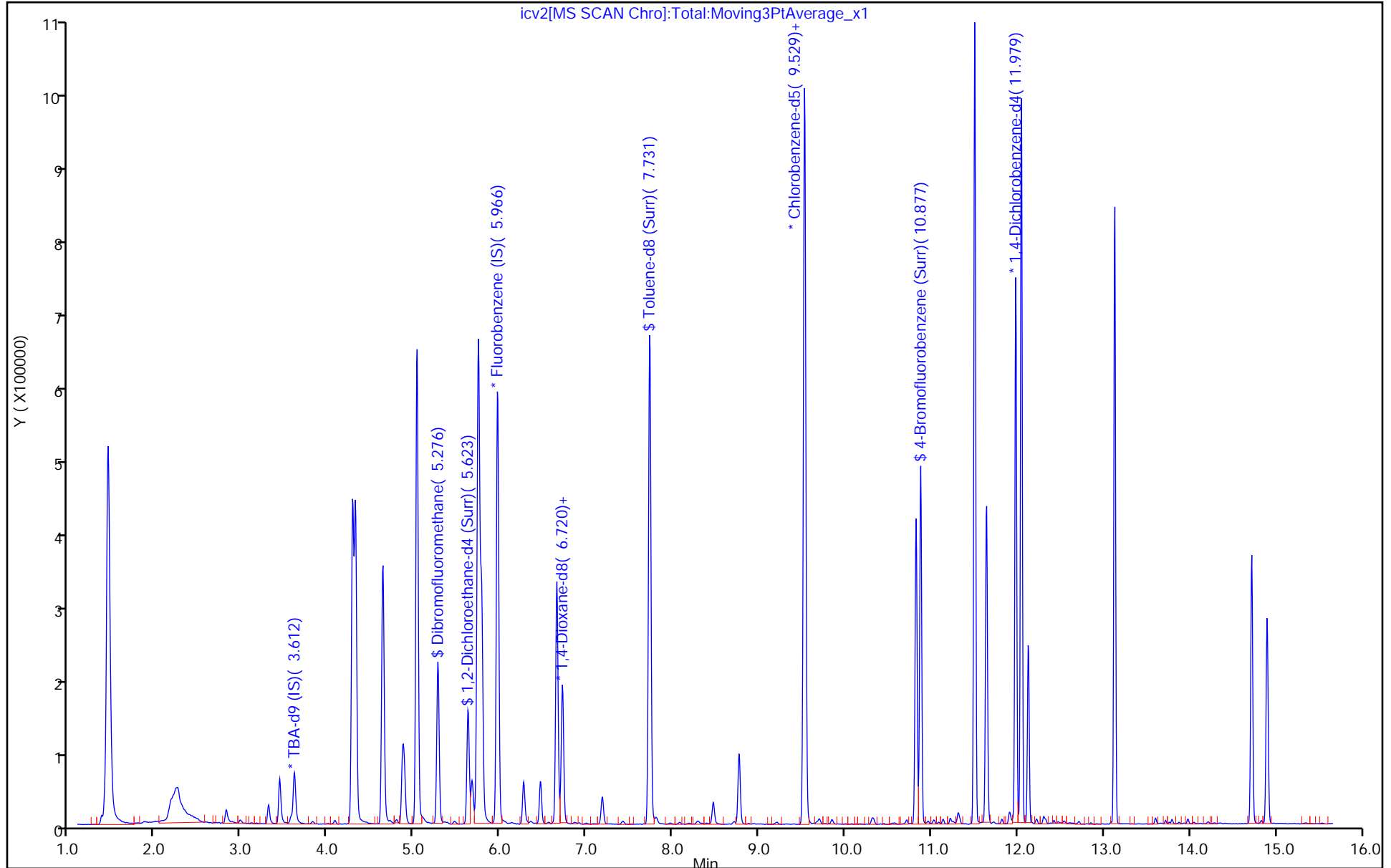
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673843/3 Calibration Date: 09/09/2022 11:17
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: 19x0909.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2247	0.2070	0.0100	46.1	50.0	-7.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1788	0.1832	0.0100	51.2	50.0	2.5	50.0
Toluene-d8 (Surr)	Ave	1.422	1.336	0.0100	47.0	50.0	-6.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8357	0.8552	0.0100	51.2	50.0	2.3	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19x0909.d
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 11:17:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV IX
 Misc. Info.: 500-0088095-003
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub65
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 11:40:31 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8 Date: 09-Sep-2022 11:40:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.825	2.815	0.010	97	23904	2000.0	1736.9	
18 Isopropyl alcohol	45	3.318	3.312	0.006	95	28388	500.0	407.0	
19 Acetonitrile	41	3.446	3.462	-0.016	99	60843	500.0	386.5	
* 23 TBA-d9 (IS)	65	3.617	3.617	0.000	97	91915	1000.0	1000.0	
32 Isopropyl ether	45	4.291	4.286	0.005	93	407940	50.0	43.8	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	94	275429	50.0	43.1	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	98	356997	50.0	46.7	
38 Ethyl acetate	43	4.869	4.864	0.005	99	98128	100.0	75.3	
37 Propionitrile	54	4.890	4.885	0.005	99	74183	500.0	417.2	
40 Methacrylonitrile	41	5.035	5.035	0.000	91	329460	500.0	380.2	
\$ 43 Dibromofluoromethane	113	5.281	5.276	0.005	75	150664	50.0	46.1	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	133348	50.0	51.2	
52 Isooctane	57	5.746	5.746	0.000	96	662509	50.0	37.4	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	97	271382	50.0	42.6	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	727765	50.0	50.0	
56 n-Butanol	56	6.276	6.270	0.005	90	33863	1250.0	1038.5	
58 Ethyl acrylate	55	6.469	6.469	0.054	98	69453	50.0	39.5	a
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	216587	50.0	47.4	
* 62 1,4-Dioxane-d8	96	6.704	6.699	0.005	54	13311	1000.0	1000.0	
64 Methyl methacrylate	41	6.725	6.720	0.005	88	97950	100.0	83.2	
67 2-Nitropropane	43	7.185	7.185	0.000	94	31368	100.0	73.0	
\$ 71 Toluene-d8 (Surr)	98	7.737	7.737	-0.001	92	679409	50.0	47.0	
79 n-Butyl acetate	43	8.774	8.769	0.005	94	83553	50.0	35.5	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	508593	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	65	226758	50.0	37.9	
92 Cyclohexanone	55	10.823	10.823	0.000	94	186350	5000.0	4132.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	90	219224	50.0	51.2	
103 2-Ethyltoluene	105	11.508	11.502	0.005	97	933673	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
105 Pentachloroethane	167	11.642	11.642	0.000	91	89954	50.0	51.2	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	256346	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.048	12.043	0.005	93	622887	50.0	40.2	
113 Benzyl chloride	126	12.129	12.123	0.006	97	33577	50.0	32.3	
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	94	261333	50.0	40.3	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	90	198965	50.0	40.5	
123 1-Methylnaphthalene	142	14.900	14.894	0.006	90	160085	50.0	40.7	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260CYCHXWK_00332	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00297	Amount Added: 2.50	Units: uL	
2ETTOL WK STD_00181	Amount Added: 2.50	Units: uL	
8260 23DCP WK_00241	Amount Added: 2.50	Units: uL	
8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19x0909.d

Injection Date: 09-Sep-2022 11:17:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

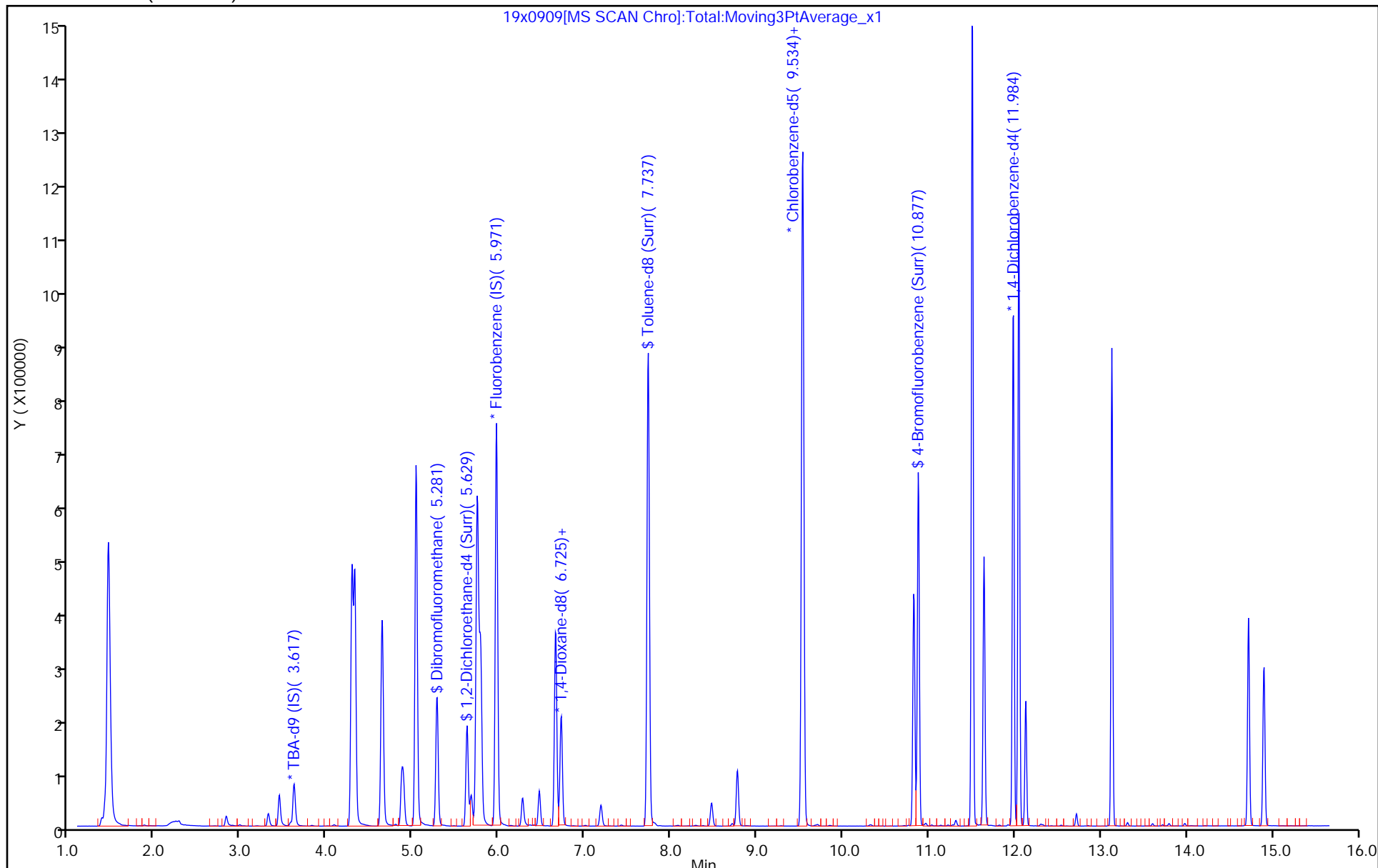
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673843/3 Calibration Date: 09/09/2022 11:17
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 14:20
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 20:02
 Lab File ID: 19x0909.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.1497	0.1300	0.0010	1740	2000	-13.2	50.0
Isopropyl alcohol	Lin1		0.6177	0.0010	407	500	-18.6	50.0
Acetonitrile	Lin1		0.0084	0.0010	387	500	-22.7	50.0
Isopropyl ether	Ave	0.6394	0.5605	0.0100	43.8	50.0	-12.3	50.0
2-Chloro-1,3-butadiene	Ave	0.4389	0.3785	0.0100	43.1	50.0	-13.8	50.0
Tert-butyl ethyl ether	Ave	0.5254	0.4905	0.0010	46.7	50.0	-6.6	50.0
Ethyl acetate	Lin1		0.0674	0.0100	75.3	100	-24.7	50.0
Propionitrile	Ave	0.0122	0.0102	0.0010	417	500	-16.6	50.0
Methacrylonitrile	Ave	0.0595	0.0453	0.0100	380	500	-24.0	50.0
Isooctane	Ave	1.216	0.9103	0.0100	37.4	50.0	-25.1	50.0
Tert-amyl methyl ether	Ave	0.4376	0.3729	0.0100	42.6	50.0	-14.8	50.0
n-Butyl alcohol	Lin1		0.2947	0.0010	1040	1250	-16.9	50.0
Ethyl acrylate	Ave	0.1208	0.0954	0.0010	39.5	50.0	-21.0	50.0
2,3-Dichloro-1-propene	Ave	0.3139	0.2976	0.0010	47.4	50.0	-5.2	50.0
Methyl methacrylate	Ave	0.0809	0.0673	0.0100	83.2	100	-16.8	50.0
2-Nitropropane	Lin1		0.0308	0.0100	73.0	100	-27.0	50.0
n-Butyl acetate	Ave	0.2317	0.1643	0.0010	35.5	50.0	-29.1	50.0
1-Chlorohexane	Ave	0.5875	0.4459	0.0100	37.9	50.0	-24.1	50.0
Cyclohexanone	Ave	0.0088	0.0073*	0.0100	4130	5000	-17.3	50.0
2-Ethyltoluene	Ave	3.998	3.642	0.0010	45.6	50.0	-8.9	50.0
Pentachloroethane	Lin1		0.3509	0.0100	51.2	50.0	2.5	50.0
1,2,3-Trimethylbenzene	Ave	3.025	2.430	0.0010	40.2	50.0	-19.7	50.0
Benzyl chloride	Ave	0.2028	0.1310	0.0010	32.3	50.0	-35.4	50.0
1,3,5-Trichlorobenzene	Ave	1.265	1.019	0.0100	40.3	50.0	-19.4	50.0
2-Methylnaphthalene	Ave	0.9587	0.7762	0.0100	40.5	50.0	-19.0	50.0
1-Methylnaphthalene	Ave	0.7670	0.6245	0.0100	40.7	50.0	-18.6	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19x0909.d
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 11:17:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV IX
 Misc. Info.: 500-0088095-003
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub65
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 11:40:31 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8 Date: 09-Sep-2022 11:40:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
10 Ethanol	45	2.825	2.815	0.010	97	23904	2000.0	1736.9	
18 Isopropyl alcohol	45	3.318	3.312	0.006	95	28388	500.0	407.0	
19 Acetonitrile	41	3.446	3.462	-0.016	99	60843	500.0	386.5	
* 23 TBA-d9 (IS)	65	3.617	3.617	0.000	97	91915	1000.0	1000.0	
32 Isopropyl ether	45	4.291	4.286	0.005	93	407940	50.0	43.8	
31 2-Chloro-1,3-butadiene	53	4.323	4.323	0.000	94	275429	50.0	43.1	
33 Tert-butyl ethyl ether	59	4.639	4.639	0.000	98	356997	50.0	46.7	
38 Ethyl acetate	43	4.869	4.864	0.005	99	98128	100.0	75.3	
37 Propionitrile	54	4.890	4.885	0.005	99	74183	500.0	417.2	
40 Methacrylonitrile	41	5.035	5.035	0.000	91	329460	500.0	380.2	
\$ 43 Dibromofluoromethane	113	5.281	5.276	0.005	75	150664	50.0	46.1	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	133348	50.0	51.2	
52 Isooctane	57	5.746	5.746	0.000	96	662509	50.0	37.4	
53 Tert-amyl methyl ether	73	5.784	5.784	0.000	97	271382	50.0	42.6	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	727765	50.0	50.0	
56 n-Butanol	56	6.276	6.270	0.005	90	33863	1250.0	1038.5	
58 Ethyl acrylate	55	6.469	6.469	0.054	98	69453	50.0	39.5	a
61 2,3-Dichloro-1-propene	75	6.656	6.656	0.000	91	216587	50.0	47.4	
* 62 1,4-Dioxane-d8	96	6.704	6.699	0.005	54	13311	1000.0	1000.0	
64 Methyl methacrylate	41	6.725	6.720	0.005	88	97950	100.0	83.2	
67 2-Nitropropane	43	7.185	7.185	0.000	94	31368	100.0	73.0	
\$ 71 Toluene-d8 (Surr)	98	7.737	7.737	-0.001	92	679409	50.0	47.0	
79 n-Butyl acetate	43	8.774	8.769	0.005	94	83553	50.0	35.5	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	508593	50.0	50.0	
83 1-Chlorohexane	91	9.534	9.534	0.000	65	226758	50.0	37.9	
92 Cyclohexanone	55	10.823	10.823	0.000	94	186350	5000.0	4132.9	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	90	219224	50.0	51.2	
103 2-Ethyltoluene	105	11.508	11.502	0.005	97	933673	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
105 Pentachloroethane	167	11.642	11.642	0.000	91	89954	50.0	51.2	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	256346	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	12.048	12.043	0.005	93	622887	50.0	40.2	
113 Benzyl chloride	126	12.129	12.123	0.006	97	33577	50.0	32.3	
117 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	94	261333	50.0	40.3	
122 2-Methylnaphthalene	142	14.718	14.718	0.000	90	198965	50.0	40.5	
123 1-Methylnaphthalene	142	14.900	14.894	0.006	90	160085	50.0	40.7	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260CYCHXWK_00332	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00297	Amount Added: 2.50	Units: uL	
2ETTOL WK STD_00181	Amount Added: 2.50	Units: uL	
8260 23DCP WK_00241	Amount Added: 2.50	Units: uL	
8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19x0909.d

Injection Date: 09-Sep-2022 11:17:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

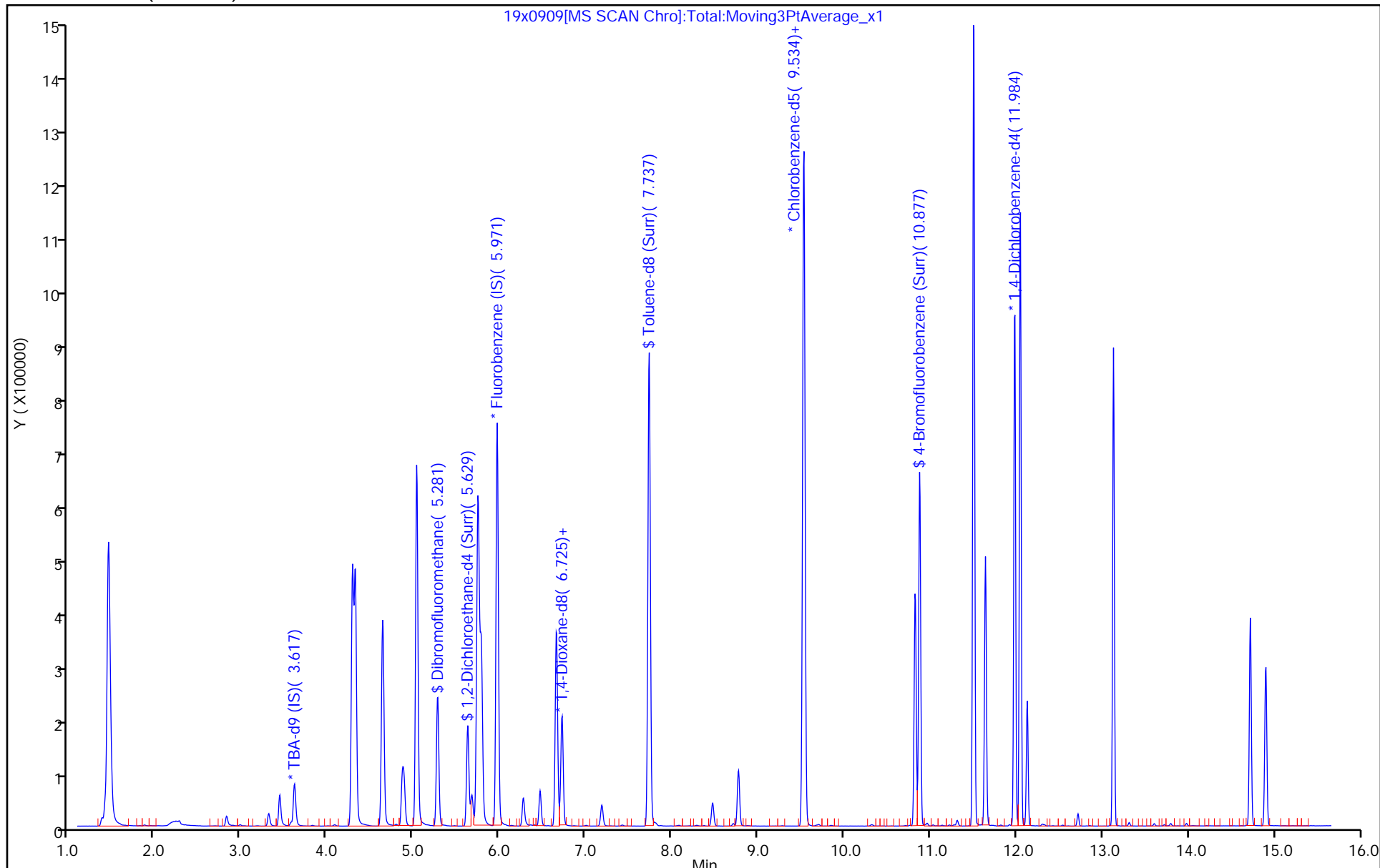
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago

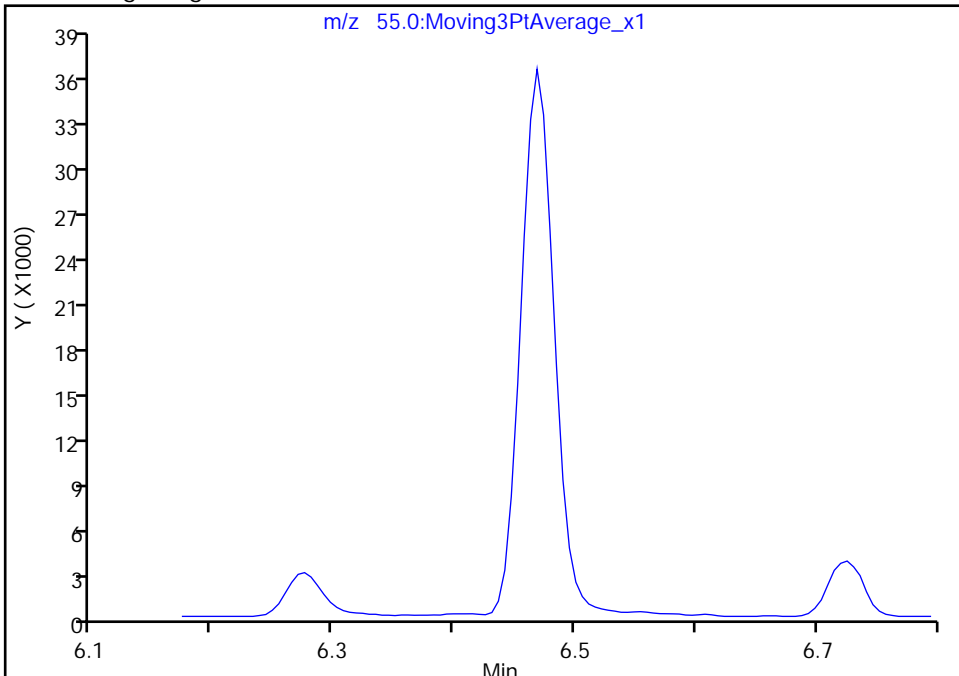
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Injection Date: 09-Sep-2022 11:17:30 Instrument ID: CMS19
Lims ID: CCV IX
Client ID:
Operator ID: EA ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
Column: DB624 (0.20 mm) Detector: MS SCAN

58 Ethyl acrylate, CAS: 140-88-5

Signal: 1

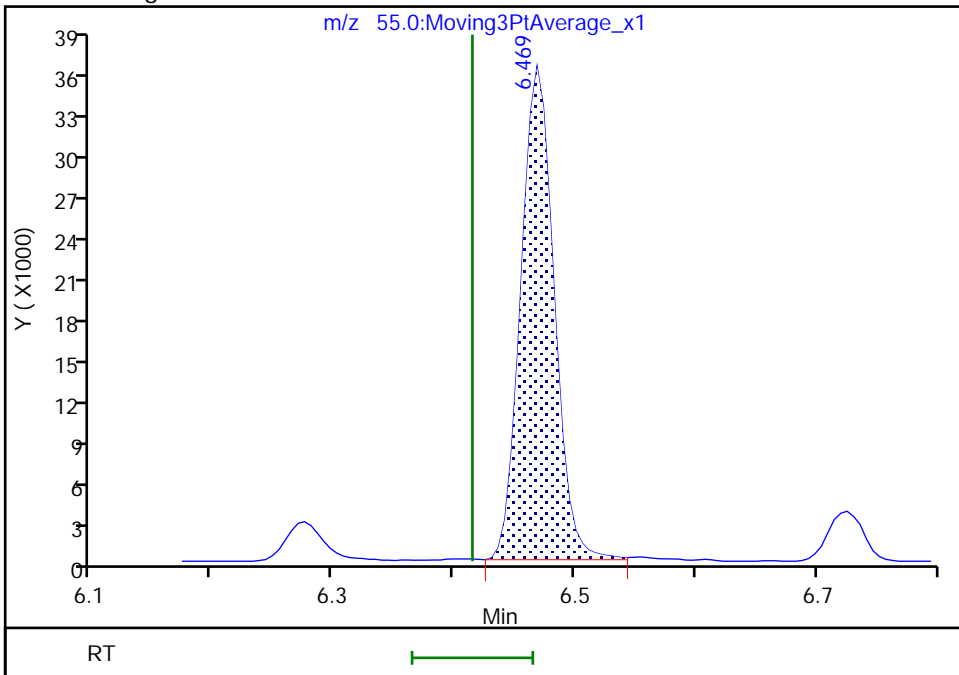
Not Detected
Expected RT: 6.42

Processing Integration Results



RT: 6.47
Area: 69453
Amount: 39.484286
Amount Units: ug/L

Manual Integration Results



Reviewer: QRE8, 09-Sep-2022 11:40:17
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673843/7 Calibration Date: 09/09/2022 12:06
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: 19b0909a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3090	0.3325	0.0100	53.8	50.0	7.6	50.0
Chloromethane	Ave	0.3127	0.2931	0.1000	46.9	50.0	-6.2	50.0
Vinyl chloride	Ave	0.3017	0.2818	0.0100	46.7	50.0	-6.6	20.0
Butadiene	Ave	0.2923	0.2532	0.0100	43.3	50.0	-13.4	50.0
Bromomethane	Ave	0.2030	0.1336	0.0100	32.9	50.0	-34.2	50.0
Chloroethane	Ave	0.1895	0.1869	0.0100	49.3	50.0	-1.4	50.0
Dichlorofluoromethane	Ave	0.4308	0.4168	0.0100	48.4	50.0	-3.2	50.0
Trichlorofluoromethane	Ave	0.4371	0.4427	0.0100	50.6	50.0	1.3	50.0
Ethyl ether	Ave	0.1316	0.1244	0.0100	47.3	50.0	-5.5	50.0
Acrolein	Ave	0.0131	0.0068	0.0010	1040	2000	-48.2	50.0
1,1-Dichloroethene	Ave	0.2648	0.2408	0.0100	45.5	50.0	-9.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2920	0.2857	0.0100	48.9	50.0	-2.1	50.0
Acetone	Ave	0.0254	0.0252	0.0100	49.7	50.0	-0.6	50.0
Iodomethane	Ave	0.4723	0.4456	0.0100	47.2	50.0	-5.6	50.0
Carbon disulfide	Ave	0.9218	0.7955	0.0100	43.2	50.0	-13.7	50.0
3-Chloropropene	Ave	0.1731	0.1510	0.0100	43.6	50.0	-12.8	50.0
Methyl acetate	Lin1		0.0624	0.0100	95.2	100	-4.8	50.0
Methylene Chloride	Ave	0.2509	0.2167	0.0100	43.2	50.0	-13.7	50.0
tert-Butyl alcohol	Ave	1.182	1.145	0.0100	484	500	-3.2	50.0
Acrylonitrile	Ave	0.0372	0.0333	0.0010	449	500	-10.3	50.0
Methyl tert-butyl ether	Ave	0.4002	0.3870	0.0100	48.4	50.0	-3.3	50.0
trans-1,2-Dichloroethene	Ave	0.2950	0.2744	0.0100	46.5	50.0	-7.0	50.0
Hexane	Lin1		0.4729	0.0100	50.5	50.0	0.9	50.0
1,1-Dichloroethane	Ave	0.4698	0.4673	0.1000	49.7	50.0	-0.5	50.0
Vinyl acetate	Ave	0.2430	0.1674	0.0100	34.5	50.0	-31.1	50.0
2,2-Dichloropropane	Ave	0.3936	0.3945	0.0100	50.1	50.0	0.2	50.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2691	0.0100	46.1	50.0	-7.7	50.0
2-Butanone (MEK)	Ave	0.0358	0.0351	0.0100	49.1	50.0	-1.8	50.0
Bromochloromethane	Ave	0.1168	0.1074	0.0100	46.0	50.0	-8.1	50.0
Tetrahydrofuran	Lin1		0.0223	0.0100	92.7	100	-7.3	50.0
Chloroform	Lin1		0.4102	0.0100	50.5	50.0	0.9	20.0
1,1,1-Trichloroethane	Ave	0.4301	0.4205	0.0100	48.9	50.0	-2.2	50.0
Cyclohexane	Ave	0.5323	0.5402	0.0100	50.7	50.0	1.5	50.0
1,1-Dichloropropene	Ave	0.3866	0.3752	0.0100	48.5	50.0	-3.0	50.0
Carbon tetrachloride	Ave	0.4108	0.4113	0.0100	50.1	50.0	0.1	50.0
Isobutyl alcohol	Ave	0.5628	0.4809	0.0010	1070	1250	-14.6	50.0
Benzene	Ave	1.092	1.013	0.0100	46.4	50.0	-7.2	50.0
1,2-Dichloroethane	Ave	0.2325	0.2428	0.0100	52.2	50.0	4.4	50.0
Heptane	Ave	0.4658	0.4381	0.0100	47.0	50.0	-5.9	50.0
Trichloroethene	Ave	0.3198	0.3145	0.0100	49.2	50.0	-1.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673843/7 Calibration Date: 09/09/2022 12:06
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: 19b0909a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5777	0.5477	0.0100	47.4	50.0	-5.2	50.0
1,2-Dichloropropane	Ave	0.2265	0.2297	0.0100	50.7	50.0	1.4	20.0
Dibromomethane	Ave	0.0968	0.0867	0.0100	44.8	50.0	-10.5	50.0
1,4-Dioxane	Lin1		1.068	0.0010	1040	1000	4.2	50.0
Dichlorobromomethane	Ave	0.2760	0.2551	0.0100	46.2	50.0	-7.6	50.0
2-Chloroethyl vinyl ether	Ave	0.1152	0.0840	0.0100	36.5	50.0	-27.1	50.0
cis-1,3-Dichloropropene	Ave	0.4891	0.4464	0.0100	45.6	50.0	-8.7	50.0
methyl isobutyl ketone	Ave	0.1240	0.1090	0.0100	43.9	50.0	-12.1	50.0
Toluene	Lin1		0.9387	0.0100	47.9	50.0	-4.1	20.0
trans-1,3-Dichloropropene	Ave	0.3697	0.3317	0.0100	44.9	50.0	-10.3	50.0
Ethyl methacrylate	Lin1		0.2021	0.0100	47.1	50.0	-5.8	50.0
1,1,2-Trichloroethane	Lin1		0.1680	0.0100	46.8	50.0	-6.3	50.0
Tetrachloroethene	Ave	0.4654	0.4381	0.0100	47.1	50.0	-5.9	50.0
1,3-Dichloropropane	Ave	0.3312	0.3051	0.0100	46.1	50.0	-7.9	50.0
2-Hexanone	Ave	0.0788	0.0716	0.0100	45.4	50.0	-9.2	50.0
Chlorodibromomethane	Ave	0.2654	0.2210	0.0100	41.6	50.0	-16.7	50.0
Ethylene Dibromide	Ave	0.1885	0.1662	0.0100	44.1	50.0	-11.9	50.0
Chlorobenzene	Ave	1.056	0.9943	0.3000	47.1	50.0	-5.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3733	0.3368	0.0100	45.1	50.0	-9.8	50.0
Ethylbenzene	Ave	0.6637	0.6040	0.0100	45.5	50.0	-9.0	20.0
m&p-Xylene	Ave	1.522	1.388	0.0100	45.6	50.0	-8.8	50.0
o-Xylene	Ave	1.532	1.406	0.0100	45.9	50.0	-8.2	50.0
Styrene	Ave	1.150	1.048	0.0100	45.5	50.0	-8.9	50.0
Bromoform	Ave	0.1404	0.1101	0.1000	39.2	50.0	-21.6	50.0
Isopropylbenzene	Ave	4.020	3.894	0.0100	48.4	50.0	-3.1	50.0
Bromobenzene	Ave	0.8093	0.7662	0.0100	47.3	50.0	-5.3	50.0
1,1,2,2-Tetrachloroethane	Lin1		0.3204	0.3000	46.3	50.0	-7.4	50.0
1,2,3-Trichloropropane	Ave	0.1146	0.1024	0.0100	44.6	50.0	-10.7	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.0980	0.0100	48.4	50.0	-3.1	50.0
N-Propylbenzene	Ave	4.612	4.376	0.0100	47.4	50.0	-5.1	50.0
2-Chlorotoluene	Ave	2.497	2.398	0.0100	48.0	50.0	-4.0	50.0
1,3,5-Trimethylbenzene	Ave	3.291	3.211	0.0100	48.8	50.0	-2.4	50.0
4-Chlorotoluene	Ave	2.802	2.732	0.0100	48.8	50.0	-2.5	50.0
tert-Butylbenzene	Ave	3.099	3.058	0.0100	49.3	50.0	-1.3	50.0
1,2,4-Trimethylbenzene	Ave	3.295	3.171	0.0100	48.1	50.0	-3.8	50.0
sec-Butylbenzene	Ave	4.590	4.420	0.0100	48.1	50.0	-3.7	50.0
1,3-Dichlorobenzene	Ave	1.730	1.600	0.0100	46.2	50.0	-7.5	50.0
p-Isopropyltoluene	Ave	3.948	3.929	0.0100	49.8	50.0	-0.5	50.0
1,4-Dichlorobenzene	Ave	1.696	1.534	0.0100	45.2	50.0	-9.5	50.0
n-Butylbenzene	Ave	3.456	3.283	0.0100	47.5	50.0	-5.0	50.0
1,2-Dichlorobenzene	Ave	1.488	1.334	0.0100	44.8	50.0	-10.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673843/7 Calibration Date: 09/09/2022 12:06
 Instrument ID: CMS19 Calib Start Date: 07/29/2022 12:19
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 07/29/2022 17:10
 Lab File ID: 19b0909a.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0598	0.0504	0.0100	42.2	50.0	-15.7	50.0
1,2,4-Trichlorobenzene	Lin1		0.9698	0.0100	55.8	50.0	11.7	50.0
Hexachlorobutadiene	Ave	0.6391	0.6923	0.0100	54.2	50.0	8.3	50.0
Naphthalene	Lin1		1.345	0.0100	49.6	50.0	-0.8	50.0
1,2,3-Trichlorobenzene	Lin1		0.7637	0.0100	52.2	50.0	4.3	50.0
Dibromofluoromethane	Ave	0.2247	0.2115	0.0100	47.1	50.0	-5.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1788	0.1831	0.0100	51.2	50.0	2.4	50.0
Toluene-d8 (Surr)	Ave	1.422	1.311	0.0100	46.1	50.0	-7.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8357	0.8660	0.0100	51.8	50.0	3.6	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19b0909a.d
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-Sep-2022 12:06:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 500-0088095-002
 Operator ID: EA Instrument ID: CMS19
 Sublist: chrom-8260W19cps*sub2
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 15:03:08 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8

Date:

09-Sep-2022 15:03:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	88	238898	50.0	53.8	
2 Chloromethane	50	1.825	1.825	0.000	89	210636	50.0	46.9	
3 Vinyl chloride	62	1.948	1.948	0.000	83	202502	50.0	46.7	
4 Butadiene	39	1.970	1.970	0.000	88	181910	50.0	43.3	
5 Bromomethane	94	2.258	2.258	0.000	90	96013	50.0	32.9	
6 Chloroethane	64	2.360	2.360	0.000	95	134286	50.0	49.3	
8 Dichlorofluoromethane	67	2.574	2.574	0.000	83	299519	50.0	48.4	
9 Trichlorofluoromethane	101	2.606	2.606	0.000	80	318089	50.0	50.6	
11 Ethyl ether	59	2.900	2.900	0.000	90	89376	50.0	47.3	
12 Acrolein	56	3.029	3.029	0.000	96	194689	2000.0	1035.3	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	89	172999	50.0	45.5	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.125	3.125	0.000	84	205317	50.0	48.9	
15 Acetone	43	3.184	3.184	0.000	96	18142	50.0	49.7	
16 Iodomethane	142	3.259	3.259	0.000	98	320189	50.0	47.2	
17 Carbon disulfide	76	3.318	3.318	0.000	100	571621	50.0	43.2	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	108525	50.0	43.6	
21 Methyl acetate	43	3.484	3.484	0.000	96	89647	100.0	95.2	
22 Methylene Chloride	84	3.574	3.574	0.000	92	155693	50.0	43.2	
* 23 TBA-d9 (IS)	65	3.617	3.617	0.000	96	96706	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.698	3.698	0.000	99	55341	500.0	484.0	
25 Acrylonitrile	53	3.821	3.821	0.000	98	239553	500.0	448.6	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	79	278078	50.0	48.4	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	94	197182	50.0	46.5	
28 Hexane	57	4.083	4.083	0.000	91	339795	50.0	50.5	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	335766	50.0	49.7	
30 Vinyl acetate	43	4.281	4.281	0.000	99	120306	50.0	34.5	
34 2,2-Dichloropropane	77	4.800	4.800	0.000	71	283489	50.0	50.1	
35 cis-1,2-Dichloroethene	96	4.800	4.800	0.000	87	193375	50.0	46.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 2-Butanone (MEK)	43	4.821	4.821	0.000	41	25247	50.0	49.1	
39 Chlorobromomethane	128	5.040	5.040	0.000	91	77150	50.0	46.0	
41 Tetrahydrofuran	42	5.094	5.094	0.000	80	31997	100.0	92.7	
42 Chloroform	83	5.115	5.115	0.000	82	294758	50.0	50.5	
\$ 43 Dibromofluoromethane	113	5.281	5.281	0.000	72	151958	50.0	47.1	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	302174	50.0	48.9	
45 Cyclohexane	56	5.356	5.356	0.000	90	388159	50.0	50.7	
46 1,1-Dichloropropene	75	5.468	5.468	0.000	91	269564	50.0	48.5	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	295530	50.0	50.1	
48 Isobutyl alcohol	43	5.575	5.575	0.000	95	58128	1250.0	1068.1	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	131578	50.0	51.2	
50 Benzene	78	5.682	5.682	0.000	96	727985	50.0	46.4	
51 1,2-Dichloroethane	62	5.709	5.709	0.000	88	174465	50.0	52.2	
54 n-Heptane	43	5.934	5.934	0.000	90	314762	50.0	47.0	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	718540	50.0	50.0	
57 Trichloroethene	130	6.362	6.362	0.000	88	225967	50.0	49.2	
59 Methylcyclohexane	83	6.565	6.565	0.000	93	393549	50.0	47.4	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	92	165054	50.0	50.7	
* 62 1,4-Dioxane-d8	96	6.704	6.704	0.000	86	13996	1000.0	1000.0	
63 Dibromomethane	93	6.741	6.741	0.000	89	62298	50.0	44.8	
65 1,4-Dioxane	88	6.763	6.763	0.000	56	14943	1000.0	1042.3	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	183332	50.0	46.2	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	92	43114	50.0	36.5	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	90	229088	50.0	45.6	
70 4-Methyl-2-pentanone (MIBK)	43	7.608	7.608	0.000	95	55933	50.0	43.9	
\$ 71 Toluene-d8 (Surr)	98	7.737	7.737	0.000	92	672662	50.0	46.1	
72 Toluene	92	7.817	7.817	0.000	93	481671	50.0	47.9	
73 trans-1,3-Dichloropropene	75	8.084	8.084	0.000	91	170210	50.0	44.9	
74 Ethyl methacrylate	69	8.186	8.186	0.000	91	103708	50.0	47.1	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	88	86185	50.0	46.8	
76 Tetrachloroethene	166	8.475	8.475	0.000	90	224823	50.0	47.1	
77 1,3-Dichloropropane	76	8.518	8.518	0.000	92	156571	50.0	46.1	
78 2-Hexanone	43	8.619	8.619	0.000	93	36728	50.0	45.4	
80 Chlorodibromomethane	129	8.796	8.796	0.000	88	113395	50.0	41.6	
81 Ethylene Dibromide	107	8.946	8.946	0.000	100	85274	50.0	44.1	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	513145	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	95	510228	50.0	47.1	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	89	172841	50.0	45.1	
86 Ethylbenzene	106	9.705	9.705	0.000	99	309933	50.0	45.5	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	712174	50.0	45.6	
88 o-Xylene	91	10.315	10.315	0.000	93	721730	50.0	45.9	
89 Styrene	104	10.331	10.331	0.000	95	537615	50.0	45.5	
90 Bromoform	173	10.540	10.540	0.000	99	56502	50.0	39.2	
91 Isopropylbenzene	105	10.716	10.716	0.000	98	997231	50.0	48.4	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	90	221787	50.0	51.8	
95 Bromobenzene	156	11.032	11.032	0.000	92	196211	50.0	47.3	
96 1,1,2,2-Tetrachloroethane	83	11.037	11.037	0.000	61	82047	50.0	46.3	
97 1,2,3-Trichloropropane	110	11.080	11.080	0.000	86	26215	50.0	44.6	
98 trans-1,4-Dichloro-2-butene	53	11.096	11.096	0.000	89	25109	50.0	48.4	
99 N-Propylbenzene	91	11.139	11.139	0.000	98	1120697	50.0	47.4	
100 2-Chlorotoluene	91	11.225	11.225	0.000	96	614035	50.0	48.0	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	822198	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
102 4-Chlorotoluene	91	11.332	11.332	0.000	95	699680	50.0	48.8	
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	783200	50.0	49.3	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	95	812043	50.0	48.1	
107 sec-Butylbenzene	105	11.824	11.824	0.000	93	1131935	50.0	48.1	
108 1,3-Dichlorobenzene	146	11.925	11.925	0.000	97	409793	50.0	46.2	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	97	1006250	50.0	49.8	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	256095	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.000	12.000	0.000	94	392926	50.0	45.2	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	840653	50.0	47.5	
114 1,2-Dichlorobenzene	146	12.327	12.327	0.000	97	341730	50.0	44.8	
116 1,2-Dibromo-3-Chloropropane	75	12.974	12.974	0.000	58	12913	50.0	42.2	
118 1,2,4-Trichlorobenzene	180	13.605	13.605	0.000	93	248366	50.0	55.8	
119 Hexachlorobutadiene	225	13.723	13.723	0.000	93	177284	50.0	54.2	
120 Naphthalene	128	13.792	13.792	0.000	99	344568	50.0	49.6	
121 1,2,3-Trichlorobenzene	180	13.980	13.980	0.000	93	195590	50.0	52.2	
S 124 Xylenes, Total	91				0		100.0	91.5	
S 128 1,2-Dichloroethene, Total	96				0		100.0	92.6	

QC Flag Legend

Processing Flags

Reagents:

8260/624GASWK_01476	Amount Added: 2.50	Units: uL	
8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01415	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00611	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19b0909a.d

Injection Date: 09-Sep-2022 12:06:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: CCVIS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

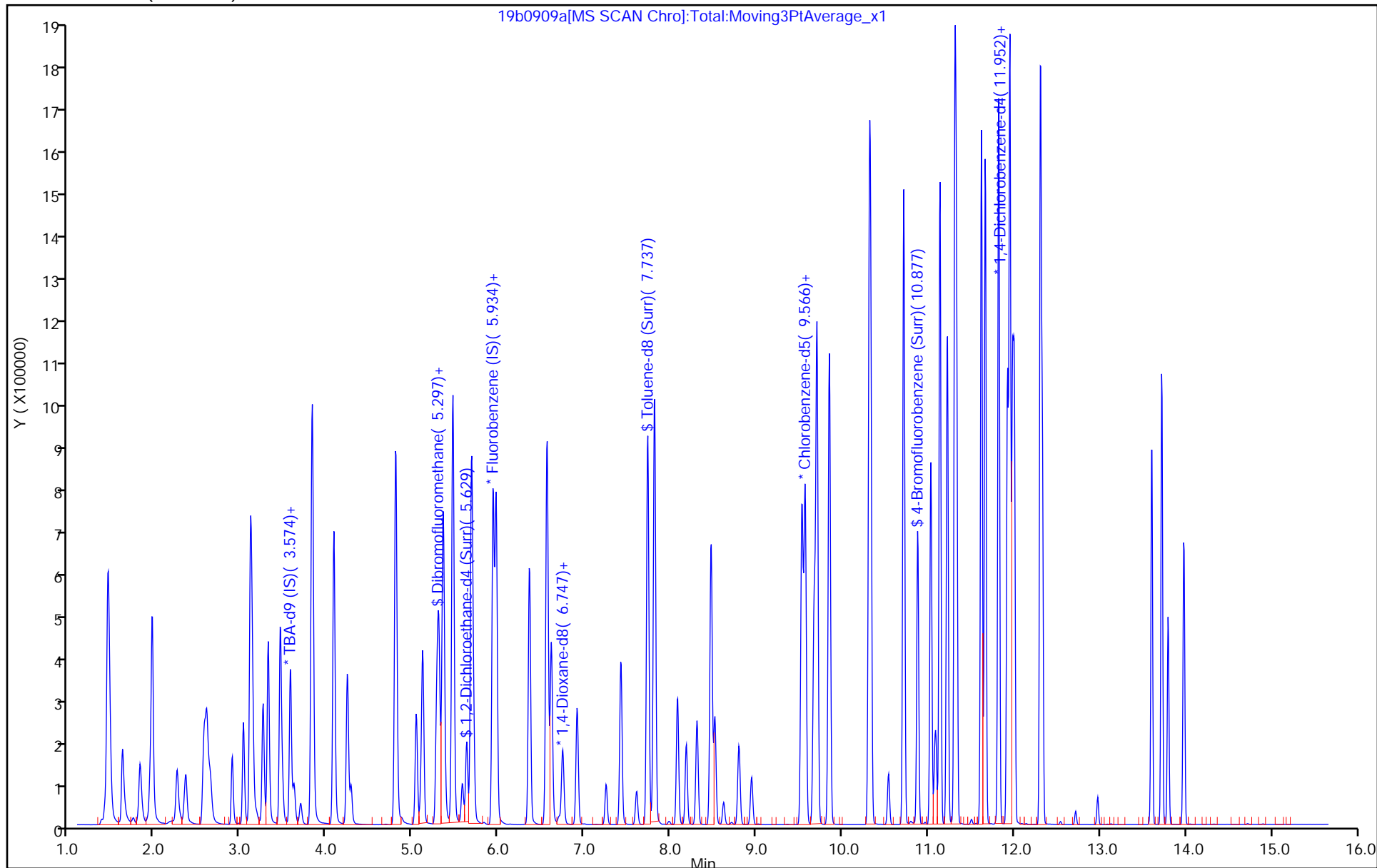
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-656798/7 Calibration Date: 05/16/2022 11:28
 Instrument ID: CMS29 Calib Start Date: 05/14/2022 09:34
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 05/14/2022 13:06
 Lab File ID: icv20516.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2836	0.2975	0.0100	52.5	50.0	4.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2314	0.2320	0.0100	50.1	50.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.321	1.189	0.0100	45.0	50.0	-10.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5896	0.6369	0.0100	54.0	50.0	8.0	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-May-2022 11:28:02 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv2
 Misc. Info.: 500-0085734-007
 Operator ID: EA Instrument ID: CMS29
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:36 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop Date: 17-May-2022 10:09:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.737	2.732	0.005	95	31316	2000.0	1951.0	
18 Isopropyl alcohol	45	3.197	3.195	0.002	96	55168	500.0	503.4	
19 Acetonitrile	41	3.308	3.308	0.000	98	78759	500.0	539.3	
* 23 TBA-d9 (IS)	65	3.487	3.482	0.005	0	184008	1000.0	1000.0	
31 Isopropyl ether	45	4.138	4.139	-0.001	91	311481	50.0	49.6	
32 2-Chloro-1,3-butadiene	53	4.165	4.165	0.000	90	163196	50.0	55.0	
33 Tert-butyl ethyl ether	59	4.480	4.481	-0.001	95	300382	50.0	49.9	
38 Ethyl acetate	43	4.697	4.698	-0.001	99	160588	100.0	106.0	
37 Propionitrile	54	4.706	4.706	0.000	90	106060	500.0	503.3	
39 Methacrylonitrile	41	4.854	4.854	0.000	90	464201	500.0	536.1	
\$ 43 Dibromofluoromethane	113	5.094	5.097	-0.003	67	120707	50.0	52.5	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.439	-0.003	46	94118	50.0	50.1	
52 Isooctane	57	5.572	5.572	0.000	96	431793	50.0	54.9	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	96	290146	50.0	48.8	
* 55 Fluorobenzene (IS)	96	5.777	5.778	-0.001	99	405675	50.0	50.0	
56 n-Butanol	56	6.078	6.076	0.002	89	69398	1250.0	1255.7	
58 Ethyl acrylate	55	6.269	6.270	-0.001	97	100888	50.0	49.5	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	89	165269	50.0	54.7	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	15124	1000.0	1000.0	M
64 Methyl methacrylate	41	6.524	6.525	-0.001	82	123745	100.0	95.7	
67 2-Nitropropane	43	6.964	6.965	-0.001	95	45387	100.0	106.5	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.523	0.000	92	380769	50.0	45.0	
80 n-Butyl acetate	43	8.560	8.560	0.000	95	121078	50.0	48.9	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	320280	50.0	50.0	
83 1-Chlorohexane	91	9.315	9.313	0.002	87	162308	50.0	50.8	
92 Cyclohexanone	55	10.633	10.633	0.000	96	292194	5000.0	5213.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.696	10.697	-0.001	94	116654	50.0	54.0	
103 2-Ethyltoluene	105	11.339	11.340	-0.001	95	531588	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Pentachloroethane	167	11.475	11.476	-0.001	91	98836	50.0	66.5	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	91	183173	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.889	11.890	-0.001	94	473551	50.0	50.5	
113 Benzyl chloride	126	11.968	11.968	0.000	96	56393	50.0	57.5	
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	242970	50.0	56.6	
122 2-Methylnaphthalene	142	14.547	14.548	-0.001	92	245694	50.0	42.8	
123 1-Methylnaphthalene	142	14.721	14.718	0.003	92	196564	50.0	41.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

2ETTOL SPK_00053	Amount Added: 5.00	Units: uL	
8260 ADDS SPK_00137	Amount Added: 5.00	Units: uL	
POLRADDSSPK_00118	Amount Added: 5.00	Units: uL	
STD 2 SPK_00138	Amount Added: 5.00	Units: uL	
CYCLOHEX SPK_00272	Amount Added: 5.00	Units: uL	
2,3DCLP SPK_00086	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00304	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D

Injection Date: 16-May-2022 11:28:02

Instrument ID: CMS29

Operator ID: EA

Lims ID: ICV

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

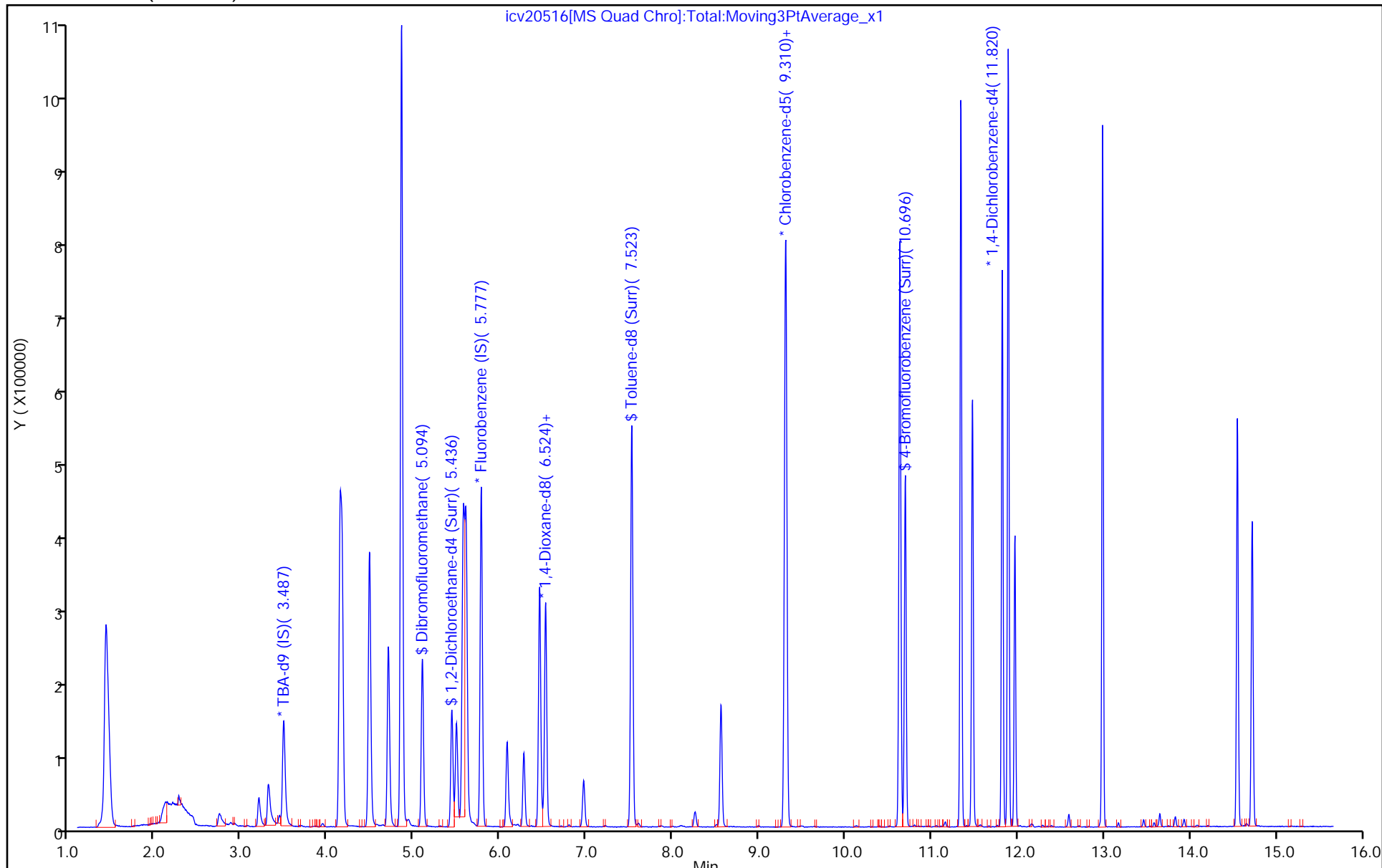
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



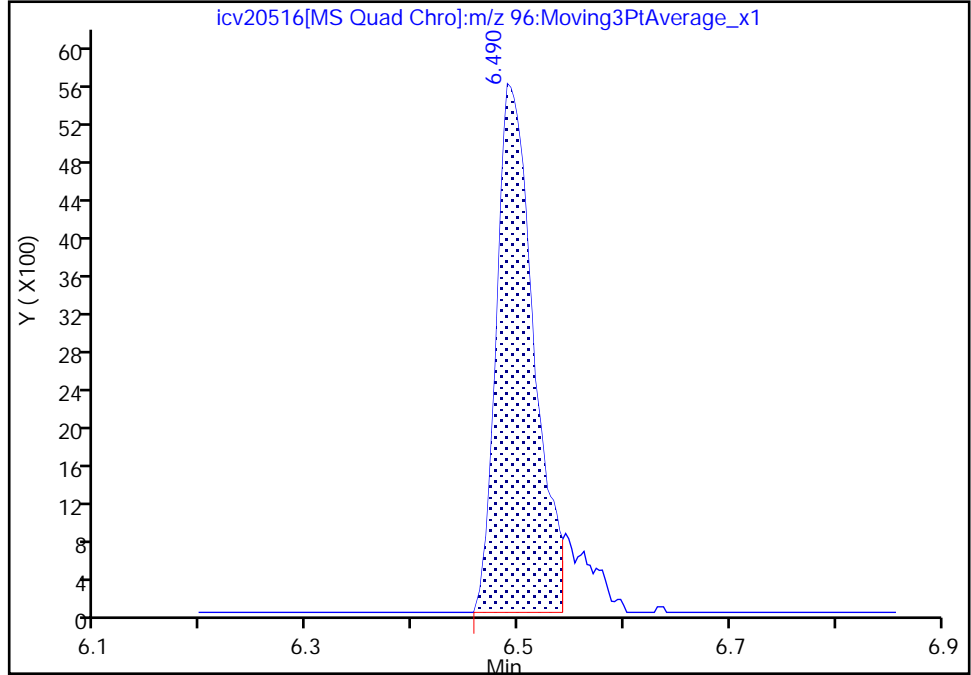
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D
Injection Date: 16-May-2022 11:28:02 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

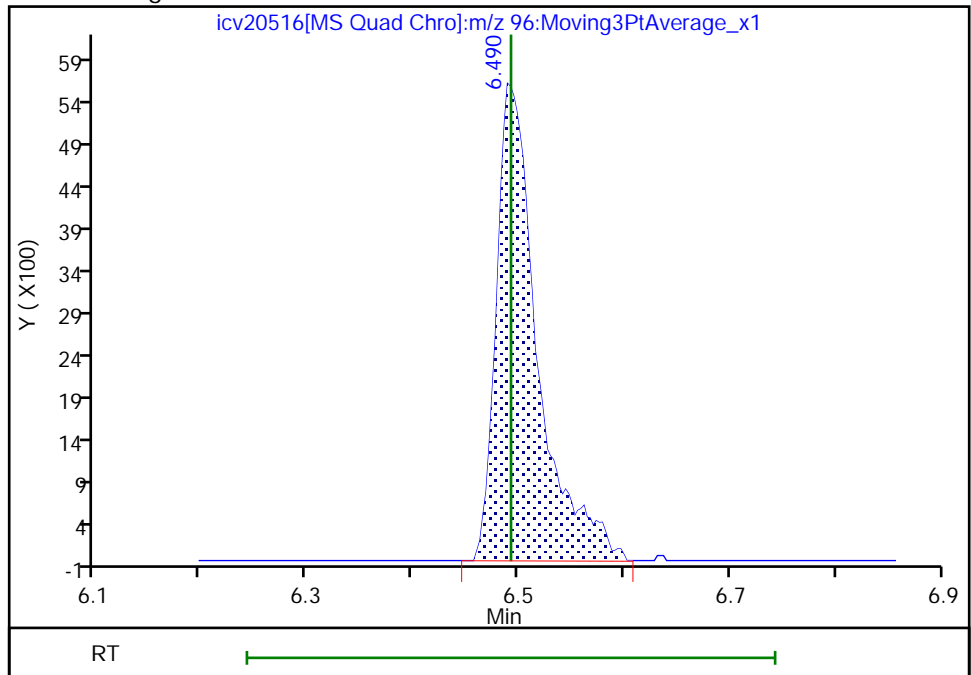
RT: 6.49
Area: 13585
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 15124
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 18:30:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-656798/7 Calibration Date: 05/16/2022 11:28
 Instrument ID: CMS29 Calib Start Date: 05/14/2022 13:53
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 05/14/2022 16:38
 Lab File ID: icv20516.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0851	0.0010	1950	2000	-2.4	30.0
Isopropyl alcohol	Ave	0.5956	0.5996	0.0010	503	500	0.7	30.0
Acetonitrile	Ave	0.0180	0.0194	0.0010	539	500	7.9	30.0
Isopropyl ether	Ave	0.7743	0.7678	0.0100	49.6	50.0	-0.8	30.0
2-Chloro-1,3-butadiene	Ave	0.3657	0.4023	0.0100	55.0	50.0	10.0	30.0
Tert-butyl ethyl ether	Ave	0.7426	0.7404	0.0010	49.9	50.0	-0.3	30.0
Ethyl acetate	Lin1		0.1979	0.0100	106	100	6.0	30.0
Propionitrile	Ave	0.0260	0.0261	0.0010	503	500	0.7	30.0
Methacrylonitrile	Ave	0.1067	0.1144	0.0100	536	500	7.2	30.0
Isooctane	Ave	0.9686	1.064	0.0100	54.9	50.0	9.9	30.0
Tert-amyl methyl ether	Ave	0.7323	0.7152	0.0100	48.8	50.0	-2.3	30.0
n-Butyl alcohol	Lin1		0.3017	0.0010	1260	1250	0.5	30.0
Ethyl acrylate	Ave	0.2512	0.2487	0.0010	49.5	50.0	-1.0	30.0
2,3-Dichloro-1-propene	Ave	0.3727	0.4074	0.0010	54.7	50.0	9.3	30.0
Methyl methacrylate	Ave	0.1594	0.1525	0.0100	95.7	100	-4.3	30.0
2-Nitropropane	Lin1		0.0709	0.0100	106	100	6.5	30.0
n-Butyl acetate	Ave	0.3862	0.3780	0.0010	48.9	50.0	-2.1	30.0
1-Chlorohexane	Ave	0.4992	0.5068	0.0100	50.8	50.0	1.5	30.0
Cyclohexanone	Ave	0.0153	0.0160	0.0100	5210	5000	4.3	30.0
2-Ethyltoluene	Ave	2.934	2.902	0.0010	49.5	50.0	-1.1	30.0
Pentachloroethane	Ave	0.4059	0.5396	0.0100	66.5	50.0	32.9*	30.0
1,2,3-Trimethylbenzene	Ave	2.562	2.585	0.0010	50.5	50.0	0.9	30.0
Benzyl chloride	Ave	0.2676	0.3079	0.0010	57.5	50.0	15.0	30.0
1,3,5-Trichlorobenzene	Ave	1.171	1.326	0.0100	56.6	50.0	13.2	30.0
2-Methylnaphthalene	Lin1		1.341	0.0100	42.8	50.0	-14.4	30.0
1-Methylnaphthalene	Lin1		1.073	0.0100	41.5	50.0	-16.9	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-May-2022 11:28:02 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv2
 Misc. Info.: 500-0085734-007
 Operator ID: EA Instrument ID: CMS29
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:34:36 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarello

Date: 17-May-2022 10:09:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.737	2.732	0.005	95	31316	2000.0	1951.0	
18 Isopropyl alcohol	45	3.197	3.195	0.002	96	55168	500.0	503.4	
19 Acetonitrile	41	3.308	3.308	0.000	98	78759	500.0	539.3	
* 23 TBA-d9 (IS)	65	3.487	3.482	0.005	0	184008	1000.0	1000.0	
31 Isopropyl ether	45	4.138	4.139	-0.001	91	311481	50.0	49.6	
32 2-Chloro-1,3-butadiene	53	4.165	4.165	0.000	90	163196	50.0	55.0	
33 Tert-butyl ethyl ether	59	4.480	4.481	-0.001	95	300382	50.0	49.9	
38 Ethyl acetate	43	4.697	4.698	-0.001	99	160588	100.0	106.0	
37 Propionitrile	54	4.706	4.706	0.000	90	106060	500.0	503.3	
39 Methacrylonitrile	41	4.854	4.854	0.000	90	464201	500.0	536.1	
\$ 43 Dibromofluoromethane	113	5.094	5.097	-0.003	67	120707	50.0	52.5	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.439	-0.003	46	94118	50.0	50.1	
52 Isooctane	57	5.572	5.572	0.000	96	431793	50.0	54.9	
53 Tert-amyl methyl ether	73	5.601	5.601	0.000	96	290146	50.0	48.8	
* 55 Fluorobenzene (IS)	96	5.777	5.778	-0.001	99	405675	50.0	50.0	
56 n-Butanol	56	6.078	6.076	0.002	89	69398	1250.0	1255.7	
58 Ethyl acrylate	55	6.269	6.270	-0.001	97	100888	50.0	49.5	
61 2,3-Dichloro-1-propene	75	6.455	6.455	0.000	89	165269	50.0	54.7	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	15124	1000.0	1000.0	M
64 Methyl methacrylate	41	6.524	6.525	-0.001	82	123745	100.0	95.7	
67 2-Nitropropane	43	6.964	6.965	-0.001	95	45387	100.0	106.5	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.523	0.000	92	380769	50.0	45.0	
80 n-Butyl acetate	43	8.560	8.560	0.000	95	121078	50.0	48.9	
* 82 Chlorobenzene-d5	117	9.304	9.304	0.000	81	320280	50.0	50.0	
83 1-Chlorohexane	91	9.315	9.313	0.002	87	162308	50.0	50.8	
92 Cyclohexanone	55	10.633	10.633	0.000	96	292194	5000.0	5213.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.696	10.697	-0.001	94	116654	50.0	54.0	
103 2-Ethyltoluene	105	11.339	11.340	-0.001	95	531588	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Pentachloroethane	167	11.475	11.476	-0.001	91	98836	50.0	66.5	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	91	183173	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.889	11.890	-0.001	94	473551	50.0	50.5	
113 Benzyl chloride	126	11.968	11.968	0.000	96	56393	50.0	57.5	
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	97	242970	50.0	56.6	
122 2-Methylnaphthalene	142	14.547	14.548	-0.001	92	245694	50.0	42.8	
123 1-Methylnaphthalene	142	14.721	14.718	0.003	92	196564	50.0	41.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

2ETTOL SPK_00053	Amount Added: 5.00	Units: uL	
8260 ADDS SPK_00137	Amount Added: 5.00	Units: uL	
POLRADDSSPK_00118	Amount Added: 5.00	Units: uL	
STD 2 SPK_00138	Amount Added: 5.00	Units: uL	
CYCLOHEX SPK_00272	Amount Added: 5.00	Units: uL	
2,3DCLP SPK_00086	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00304	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D

Injection Date: 16-May-2022 11:28:02

Instrument ID: CMS29

Operator ID: EA

Lims ID: ICV

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

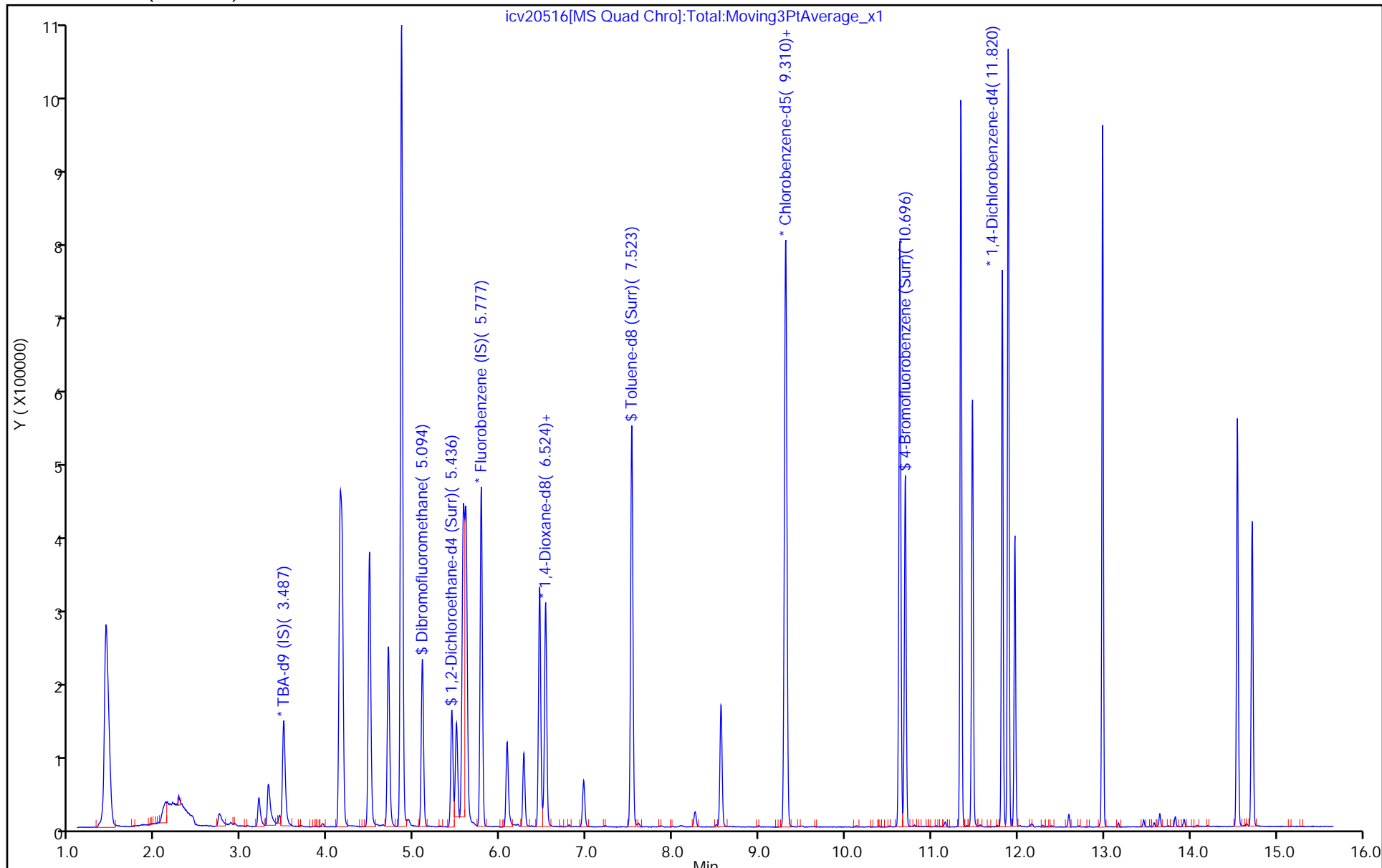
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



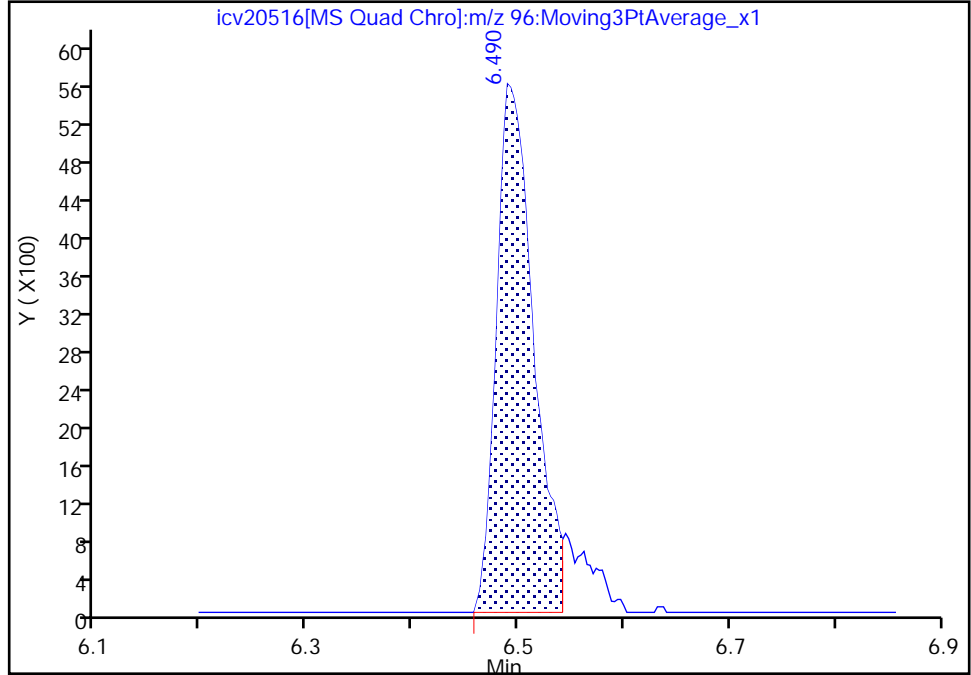
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\icv20516.D
Injection Date: 16-May-2022 11:28:02 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

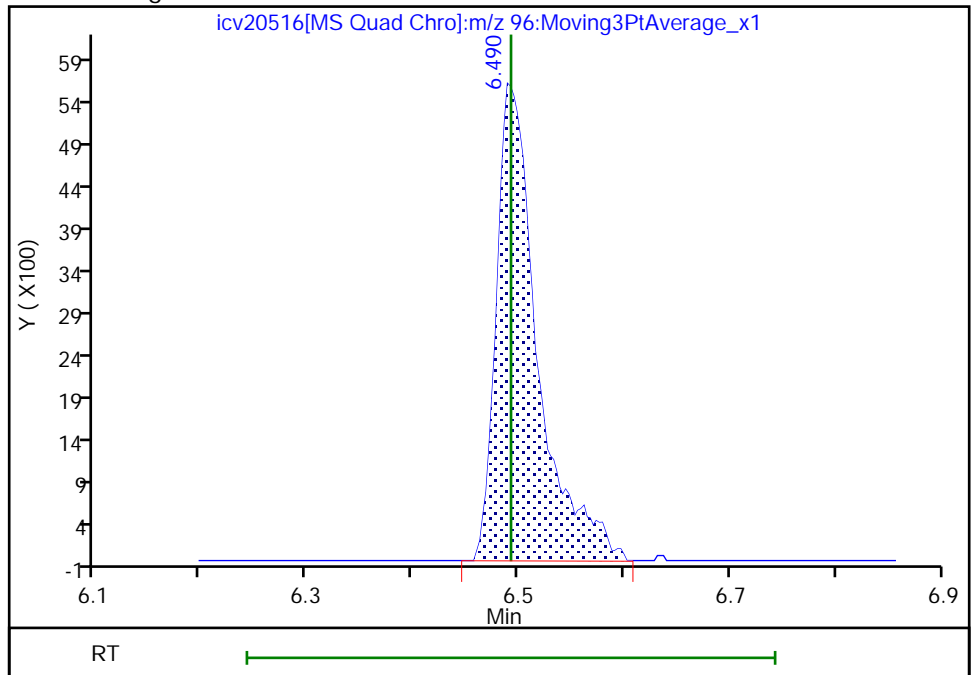
RT: 6.49
Area: 13585
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 15124
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: thaneeratw, 17-May-2022 18:30:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-663160/14 Calibration Date: 06/28/2022 14:10
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: icv10628A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3287	0.3909	0.0100	59.5	50.0	18.9	30.0
Chloromethane	Ave	0.2255	0.2667	0.1000	59.1	50.0	18.2	30.0
Vinyl chloride	Ave	0.2627	0.2900	0.0100	55.2	50.0	10.4	30.0
Butadiene	Ave	0.2216	0.2386	0.0100	53.8	50.0	7.7	30.0
Bromomethane	Lin1		0.3601	0.0100	55.7	50.0	11.4	30.0
Chloroethane	Ave	0.3037	0.3002	0.0100	49.4	50.0	-1.2	30.0
Dichlorofluoromethane	Ave	0.5768	0.5863	0.0100	50.8	50.0	1.6	30.0
Trichlorofluoromethane	Ave	0.6164	0.6432	0.0100	52.2	50.0	4.4	30.0
Ethyl ether	Ave	0.1752	0.1643	0.0100	46.9	50.0	-6.2	30.0
Acrolein	Ave	0.0186	0.0077	0.0010	833	2000	-58.3*	30.0
1,1-Dichloroethene	Ave	0.2979	0.3099	0.0100	52.0	50.0	4.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3624	0.3639	0.0100	50.2	50.0	0.4	30.0
Acetone	Lin1		0.0393	0.0100	43.4	50.0	-13.3	30.0
Iodomethane	Ave	0.5600	0.5624	0.0100	50.2	50.0	0.4	30.0
Carbon disulfide	Ave	0.9767	1.062	0.0100	54.4	50.0	8.8	30.0
3-Chloropropene	Ave	0.1705	0.1828	0.0100	53.6	50.0	7.2	30.0
Methyl acetate	Ave	0.1050	0.0958	0.0100	91.2	100	-8.8	30.0
Methylene Chloride	Ave	0.3017	0.3076	0.0100	51.0	50.0	1.9	30.0
tert-Butyl alcohol	Ave	1.077	1.055	0.0100	490	500	-2.0	30.0
Acrylonitrile	Ave	0.0562	0.0494	0.0010	439	500	-12.1	30.0
Methyl tert-butyl ether	Ave	0.7221	0.6934	0.0100	48.0	50.0	-4.0	30.0
trans-1,2-Dichloroethene	Ave	0.3300	0.3402	0.0100	51.6	50.0	3.1	30.0
Hexane	Lin1		0.3988	0.0100	59.5	50.0	18.9	30.0
1,1-Dichloroethane	Ave	0.4864	0.4839	0.1000	49.7	50.0	-0.5	30.0
Vinyl acetate	Ave	0.3106	0.2700	0.0100	43.5	50.0	-13.1	30.0
2,2-Dichloropropane	Ave	0.4071	0.4044	0.0100	49.7	50.0	-0.7	30.0
cis-1,2-Dichloroethene	Ave	0.3222	0.3154	0.0100	48.9	50.0	-2.1	30.0
2-Butanone (MEK)	Ave	0.0532	0.0514	0.0100	48.3	50.0	-3.4	30.0
Bromochloromethane	Ave	0.1493	0.1441	0.0100	48.3	50.0	-3.5	30.0
Tetrahydrofuran	Ave	0.0391	0.0334	0.0100	85.5	100	-14.5	30.0
Chloroform	Ave	0.5642	0.5460	0.0100	48.4	50.0	-3.2	30.0
1,1,1-Trichloroethane	Ave	0.5072	0.5317	0.0100	52.4	50.0	4.8	30.0
Cyclohexane	Ave	0.3839	0.4480	0.0100	58.4	50.0	16.7	30.0
1,1-Dichloropropene	Ave	0.3795	0.4075	0.0100	53.7	50.0	7.4	30.0
Carbon tetrachloride	Ave	0.4815	0.5120	0.0100	53.2	50.0	6.3	30.0
Isobutyl alcohol	Ave	0.3675	0.3758	0.0010	1280	1250	2.2	30.0
Benzene	Ave	1.002	1.046	0.0100	52.2	50.0	4.3	30.0
1,2-Dichloroethane	Ave	0.3281	0.3236	0.0100	49.3	50.0	-1.4	30.0
Heptane	Ave	0.2644	0.3263	0.0100	61.7	50.0	23.4	30.0
Trichloroethene	Ave	0.2989	0.3075	0.0100	51.4	50.0	2.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-663160/14 Calibration Date: 06/28/2022 14:10
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: icv10628A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4728	0.5379	0.0100	56.9	50.0	13.8	30.0
1,2-Dichloropropane	Ave	0.2110	0.2227	0.0100	52.8	50.0	5.5	30.0
Dibromomethane	Ave	0.1588	0.1533	0.0100	48.3	50.0	-3.5	30.0
1,4-Dioxane	Ave	1.184	1.234	0.0010	1040	1000	4.3	30.0
Bromodichloromethane	Ave	0.3702	0.3640	0.0100	49.2	50.0	-1.7	30.0
2-Chloroethyl vinyl ether	Ave	0.1159	0.1211	0.0100	52.2	50.0	4.5	30.0
cis-1,3-Dichloropropene	Ave	0.4947	0.5259	0.0100	53.2	50.0	6.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1767	0.1756	0.0100	49.7	50.0	-0.6	30.0
Toluene	Ave	0.8418	0.9421	0.0100	56.0	50.0	11.9	30.0
trans-1,3-Dichloropropene	Ave	0.4419	0.4664	0.0100	52.8	50.0	5.6	30.0
Ethyl methacrylate	Ave	0.2982	0.3073	0.0100	51.5	50.0	3.1	30.0
1,1,2-Trichloroethane	Ave	0.2609	0.2579	0.0100	49.4	50.0	-1.1	30.0
Tetrachloroethene	Ave	0.3877	0.4387	0.0100	56.6	50.0	13.2	30.0
1,3-Dichloropropane	Ave	0.4264	0.4233	0.0100	49.6	50.0	-0.7	30.0
2-Hexanone	Ave	0.1229	0.1197	0.0100	48.7	50.0	-2.6	30.0
Dibromochloromethane	Ave	0.3718	0.3687	0.0100	49.6	50.0	-0.8	30.0
1,2-Dibromoethane	Ave	0.2687	0.2600	0.0100	48.4	50.0	-3.2	30.0
Chlorobenzene	Ave	1.002	1.036	0.3000	51.7	50.0	3.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3932	0.4105	0.0100	52.2	50.0	4.4	30.0
Ethylbenzene	Ave	1.622	1.823	0.0100	56.2	50.0	12.4	30.0
m&p-Xylene	Ave	1.233	1.459	0.0100	59.1	50.0	18.3	30.0
o-Xylene	Ave	1.317	1.498	0.0100	56.9	50.0	13.7	30.0
Styrene	Ave	1.047	1.140	0.0100	54.4	50.0	8.8	30.0
Bromoform	Ave	0.2357	0.2269	0.1000	48.1	50.0	-3.8	30.0
Isopropylbenzene	Ave	2.813	3.265	0.0100	58.0	50.0	16.0	30.0
Bromobenzene	Ave	0.6878	0.7132	0.0100	51.8	50.0	3.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6007	0.5723	0.3000	47.6	50.0	-4.7	30.0
1,2,3-Trichloropropane	Ave	0.1725	0.1693	0.0100	49.1	50.0	-1.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1368	0.1309	0.0100	47.9	50.0	-4.3	30.0
N-Propylbenzene	Ave	3.376	3.951	0.0100	58.5	50.0	17.0	30.0
2-Chlorotoluene	Ave	1.971	2.215	0.0100	56.2	50.0	12.3	30.0
1,3,5-Trimethylbenzene	Ave	2.491	2.922	0.0100	58.7	50.0	17.3	30.0
4-Chlorotoluene	Ave	2.384	2.755	0.0100	57.8	50.0	15.5	30.0
tert-Butylbenzene	Ave	2.180	2.513	0.0100	57.6	50.0	15.3	30.0
1,2,4-Trimethylbenzene	Ave	2.555	2.962	0.0100	58.0	50.0	16.0	30.0
sec-Butylbenzene	Ave	3.399	3.951	0.0100	58.1	50.0	16.2	30.0
1,3-Dichlorobenzene	Ave	1.458	1.553	0.0100	53.3	50.0	6.6	30.0
p-Isopropyltoluene	Ave	2.893	3.407	0.0100	58.9	50.0	17.8	30.0
1,4-Dichlorobenzene	Ave	1.511	1.581	0.0100	52.3	50.0	4.6	30.0
n-Butylbenzene	Ave	2.719	3.160	0.0100	58.1	50.0	16.2	30.0
1,2-Dichlorobenzene	Ave	1.395	1.443	0.0100	51.7	50.0	3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 500-663160/14 Calibration Date: 06/28/2022 14:10
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: icv10628A.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1136	0.0991	0.0100	43.6	50.0	-12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.8622	0.8560	0.0100	49.6	50.0	-0.7	30.0
Hexachlorobutadiene	Ave	0.5355	0.5485	0.0100	51.2	50.0	2.4	30.0
Naphthalene	Ave	1.530	1.469	0.0100	48.0	50.0	-4.0	30.0
1,2,3-Trichlorobenzene	Ave	0.7581	0.7195	0.0100	47.5	50.0	-5.1	30.0
Dibromofluoromethane	Ave	0.2992	0.2902	0.0100	48.5	50.0	-3.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2779	0.2647	0.0100	47.6	50.0	-4.7	30.0
Toluene-d8 (Surr)	Ave	1.254	1.347	0.0100	53.7	50.0	7.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7648	0.7962	0.0100	52.1	50.0	4.1	30.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\icv10628A.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 28-Jun-2022 14:10:40 ALS Bottle#: 0 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 500-0086672-014
 Operator ID: PF Instrument ID: CMS29
 Sublist:
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:57:20 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQP0

Date: 28-Jun-2022 19:57:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.591	1.588	0.003	88	308607	50.0	59.5	
2 Chloromethane	50	1.796	1.796	0.000	88	210497	50.0	59.1	M
3 Vinyl chloride	62	1.903	1.907	-0.003	60	228920	50.0	55.2	
4 Butadiene	39	1.909	1.915	-0.006	89	188312	50.0	53.8	
6 Bromomethane	94	2.190	2.196	-0.006	92	284277	50.0	55.7	
7 Chloroethane	64	2.271	2.268	0.003	94	236962	50.0	49.4	
8 Dichlorofluoromethane	67	2.485	2.494	-0.009	82	462810	50.0	50.8	
9 Trichlorofluoromethane	101	2.497	2.497	0.000	75	507759	50.0	52.2	M
11 Ethyl ether	59	2.784	2.790	-0.006	88	129688	50.0	46.9	
12 Acrolein	56	2.902	2.908	-0.006	95	244474	2000.0	833.1	
13 1,1-Dichloroethene	96	2.986	2.989	-0.003	90	244596	50.0	52.0	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.012	3.013	-0.001	87	287271	50.0	50.2	
15 Acetone	43	3.047	3.050	-0.003	79	31044	50.0	43.4	
16 Iodomethane	142	3.125	3.128	-0.003	98	443956	50.0	50.2	
17 Carbon disulfide	76	3.186	3.189	-0.003	100	838485	50.0	54.4	
20 3-Chloro-1-propene	76	3.319	3.322	-0.003	87	144333	50.0	53.6	
21 Methyl acetate	43	3.342	3.345	-0.003	95	151224	100.0	91.2	
22 Methylene Chloride	84	3.432	3.435	-0.003	80	242789	50.0	51.0	
* 23 TBA-d9 (IS)	65	3.473	3.482	-0.009	0	239710	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.545	3.557	-0.012	98	126489	500.0	489.8	
25 Acrylonitrile	53	3.661	3.664	-0.003	97	389807	500.0	439.3	
26 trans-1,2-Dichloroethene	96	3.684	3.687	-0.003	78	268590	50.0	51.6	
27 Methyl tert-butyl ether	73	3.684	3.690	-0.006	88	547376	50.0	48.0	
28 Hexane	57	3.930	3.933	-0.003	92	314841	50.0	59.5	
29 1,1-Dichloroethane	63	4.075	4.078	-0.003	85	381991	50.0	49.7	
30 Vinyl acetate	43	4.118	4.121	-0.003	98	213112	50.0	43.5	
35 cis-1,2-Dichloroethene	96	4.625	4.628	-0.003	89	248951	50.0	48.9	
34 2,2-Dichloropropane	77	4.625	4.628	-0.003	69	319245	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.640	4.640	0.000	39	40582	50.0	48.3	
40 Chlorobromomethane	128	4.857	4.860	-0.003	80	113774	50.0	48.3	
41 Tetrahydrofuran	42	4.909	4.909	0.000	78	52764	100.0	85.5	
42 Chloroform	83	4.932	4.935	-0.003	82	430998	50.0	48.4	
\$ 43 Dibromofluoromethane	113	5.091	5.094	-0.003	80	229061	50.0	48.5	
44 1,1,1-Trichloroethane	97	5.117	5.123	-0.006	92	419724	50.0	52.4	
45 Cyclohexane	56	5.175	5.178	-0.003	87	353668	50.0	58.4	
47 1,1-Dichloropropene	75	5.279	5.282	-0.003	91	321668	50.0	53.7	
46 Carbon tetrachloride	117	5.282	5.285	-0.003	82	404164	50.0	53.2	
48 Isobutyl alcohol	43	5.387	5.390	-0.004	93	112591	1250.0	1278.0	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.433	0.000	68	208983	50.0	47.6	
50 Benzene	78	5.494	5.494	0.000	95	825362	50.0	52.2	
51 1,2-Dichloroethane	62	5.508	5.511	-0.003	70	255416	50.0	49.3	
54 n-Heptane	43	5.751	5.754	-0.003	81	257559	50.0	61.7	
* 55 Fluorobenzene (IS)	96	5.774	5.775	-0.001	98	789398	50.0	50.0	
57 Trichloroethene	130	6.160	6.160	0.000	92	242720	50.0	51.4	
59 Methylcyclohexane	83	6.368	6.368	0.000	88	424591	50.0	56.9	
60 1,2-Dichloropropane	63	6.403	6.406	-0.003	89	175821	50.0	52.8	
* 62 1,4-Dioxane-d8	96	6.493	6.496	-0.003	0	19797	1000.0	1000.0	a
63 Dibromomethane	93	6.533	6.533	0.000	91	120980	50.0	48.3	
65 1,4-Dioxane	88	6.550	6.551	-0.001	47	24431	1000.0	1042.7	a
66 Dichlorobromomethane	83	6.701	6.704	-0.003	91	287350	50.0	49.2	
68 2-Chloroethyl vinyl ether	63	7.040	7.043	-0.003	93	66161	50.0	52.2	
69 cis-1,3-Dichloropropene	75	7.208	7.211	-0.003	90	287310	50.0	53.2	
70 4-Methyl-2-pentanone (MIBK)	43	7.387	7.390	-0.003	96	95945	50.0	49.7	
\$ 71 Toluene-d8 (Surr)	98	7.520	7.521	-0.001	93	735942	50.0	53.7	
72 Toluene	92	7.599	7.602	-0.003	93	514691	50.0	56.0	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	89	254828	50.0	52.8	
74 Ethyl methacrylate	69	7.972	7.972	0.000	93	167888	50.0	51.5	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	87	140888	50.0	49.4	
76 Tetrachloroethene	166	8.256	8.259	-0.003	87	239681	50.0	56.6	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	88	231285	50.0	49.6	
78 2-Hexanone	43	8.398	8.398	0.000	93	65378	50.0	48.7	
79 Chlorodibromomethane	129	8.569	8.569	-0.001	86	201432	50.0	49.6	
81 Ethylene Dibromide	107	8.713	8.713	0.000	98	142061	50.0	48.4	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	85	546351	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	94	566066	50.0	51.7	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	88	224283	50.0	52.2	
86 Ethylbenzene	91	9.483	9.487	-0.004	99	996213	50.0	56.2	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	99	796940	50.0	59.1	
88 o-Xylene	91	10.118	10.118	0.000	94	818428	50.0	56.9	
89 Styrene	104	10.132	10.135	-0.003	92	622818	50.0	54.4	
90 Bromoform	173	10.338	10.341	-0.003	93	123955	50.0	48.1	
91 Isopropylbenzene	105	10.534	10.535	-0.001	98	1080360	50.0	58.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	88	263476	50.0	52.1	
95 Bromobenzene	156	10.847	10.850	-0.003	92	236007	50.0	51.8	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.853	0.003	78	189385	50.0	47.6	
97 1,2,3-Trichloropropane	110	10.896	10.899	-0.003	87	56026	50.0	49.1	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	89	43333	50.0	47.9	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	1307406	50.0	58.5	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	732842	50.0	56.2	
101 1,3,5-Trimethylbenzene	105	11.145	11.146	-0.001	91	966872	50.0	58.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	93	911609	50.0	57.8	
104 tert-Butylbenzene	119	11.458	11.461	-0.003	91	831563	50.0	57.6	
106 1,2,4-Trimethylbenzene	105	11.504	11.505	-0.001	94	980257	50.0	58.0	
107 sec-Butylbenzene	105	11.664	11.664	0.000	95	1307368	50.0	58.1	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	96	513955	50.0	53.3	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	94	1127483	50.0	58.9	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	96	330922	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	94	523110	50.0	52.3	
115 n-Butylbenzene	91	12.159	12.159	0.000	98	1045774	50.0	58.1	
114 1,2-Dichlorobenzene	146	12.170	12.171	0.000	96	477433	50.0	51.7	
116 1,2-Dibromo-3-Chloropropane	75	12.819	12.822	-0.003	58	32805	50.0	43.6	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	91	283275	50.0	49.6	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	92	181496	50.0	51.2	
120 Naphthalene	128	13.650	13.647	0.003	99	486144	50.0	48.0	
121 1,2,3-Trichlorobenzene	180	13.829	13.827	0.002	92	238103	50.0	47.5	
S 124 Xylenes, Total	1				0		100.0	116.0	
S 126 1,2-Dichloroethene, Total	1				0		100.0	100.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 ACR SPK_00210	Amount Added: 5.00	Units: uL	
8260 GAS SPK_00204	Amount Added: 5.00	Units: uL	
VA/2CEVE SPK_00192	Amount Added: 5.00	Units: uL	
8260 KET SPK_00163	Amount Added: 5.00	Units: uL	
8260 MEGA SPK_00166	Amount Added: 5.00	Units: uL	
8260LOW IS/SS_00308	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\icv10628A.D

Injection Date: 28-Jun-2022 14:10:40

Instrument ID: CMS29

Operator ID: PF

Lims ID: ICV

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

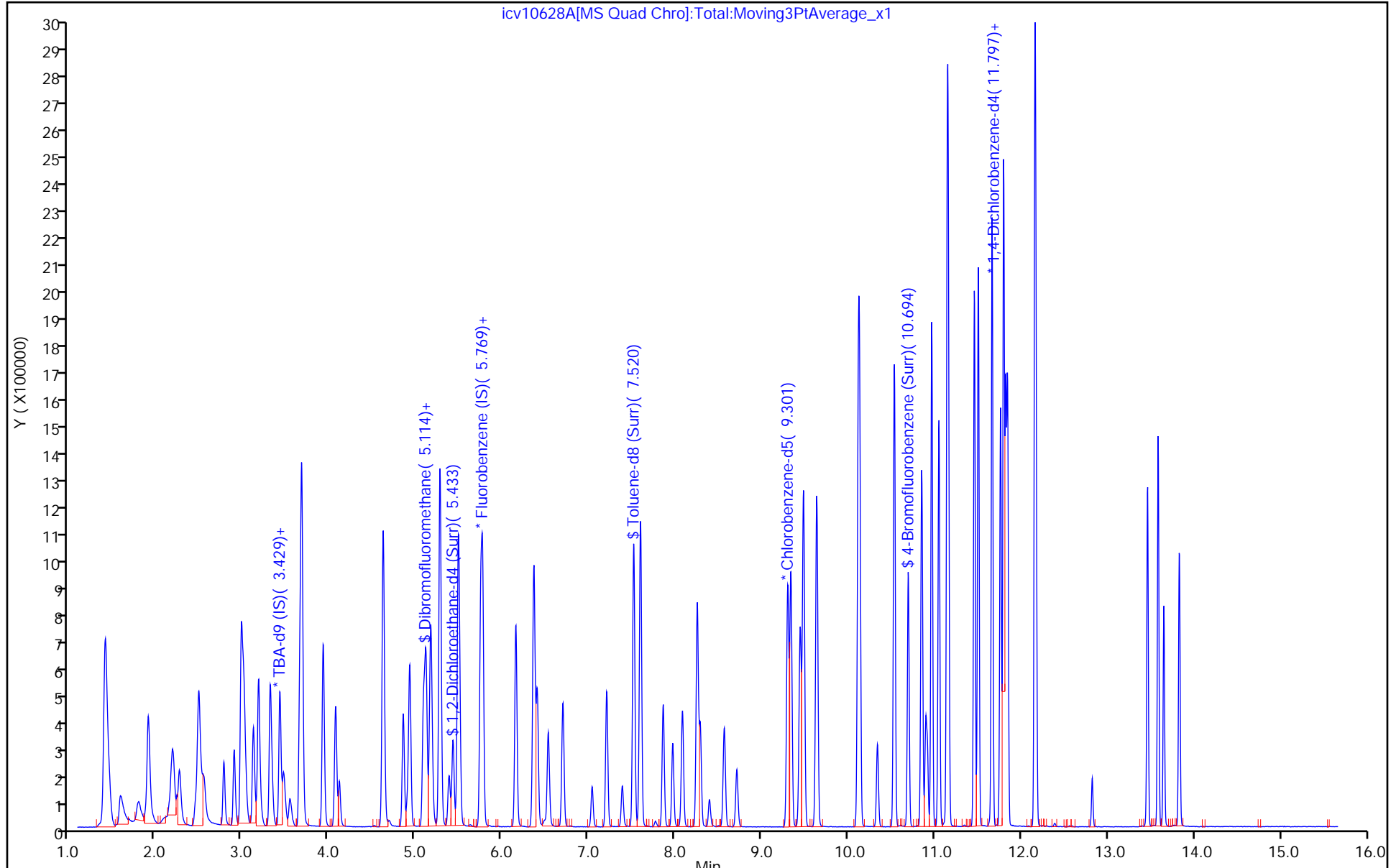
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



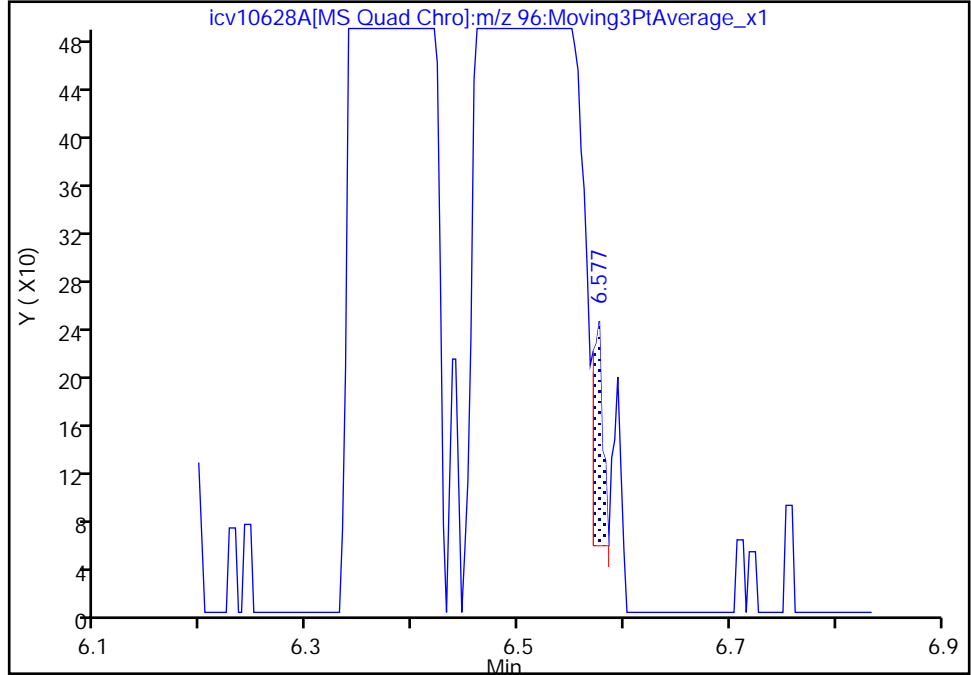
Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\icv10628A.D
Injection Date: 28-Jun-2022 14:10:40 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

* 62 1,4-Dioxane-d8, CAS: 17647-74-4
Signal: 1

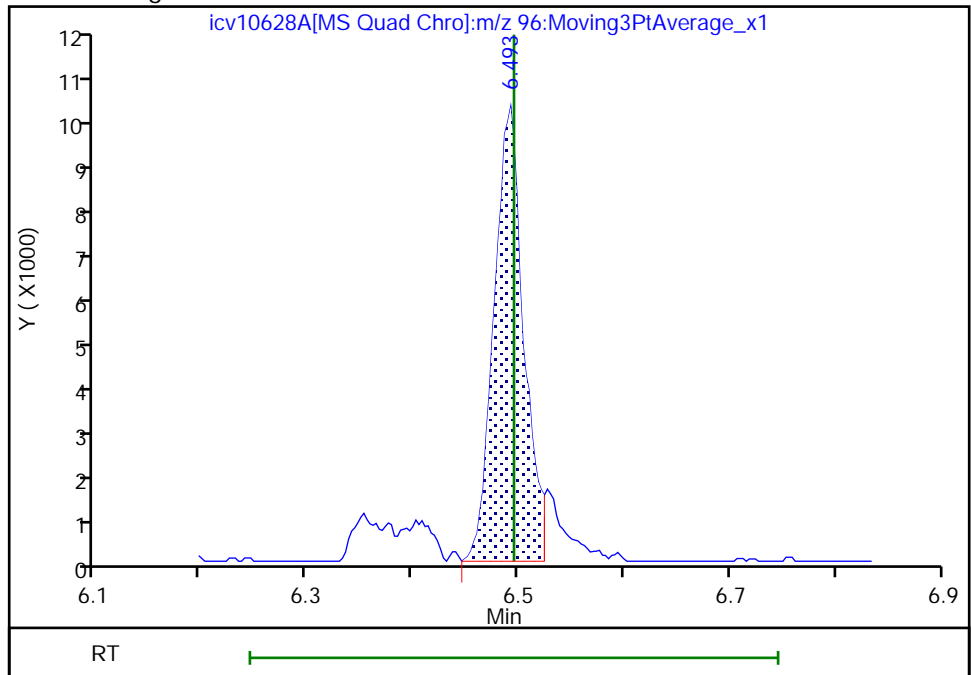
RT: 6.58
Area: 117
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.49
Area: 19797
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Eurofins Chicago

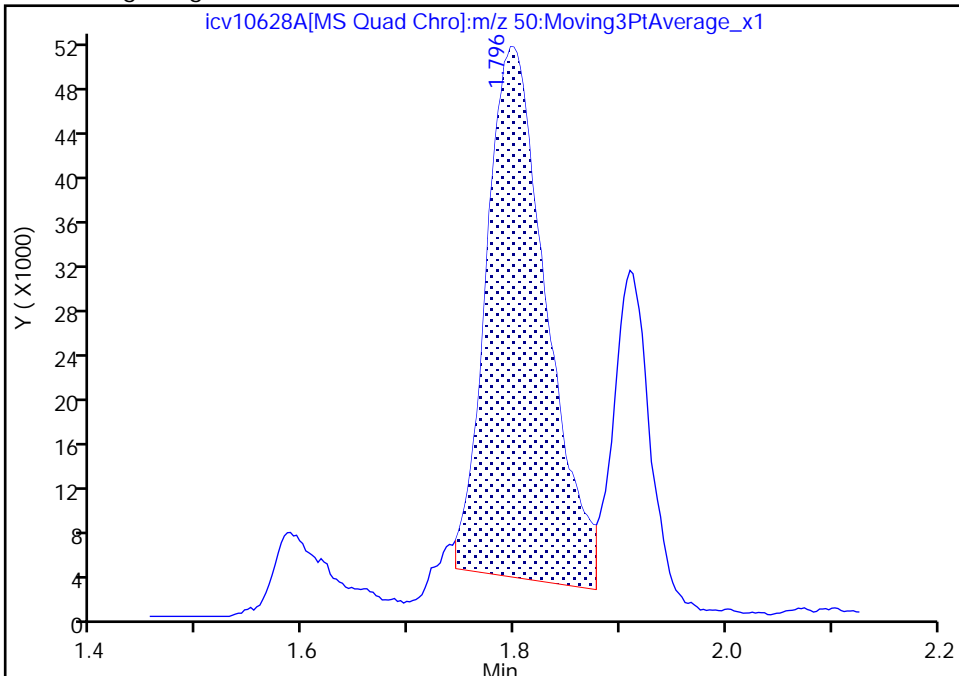
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Injection Date: 28-Jun-2022 14:10:40 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

2 Chloromethane, CAS: 74-87-3

Signal: 1

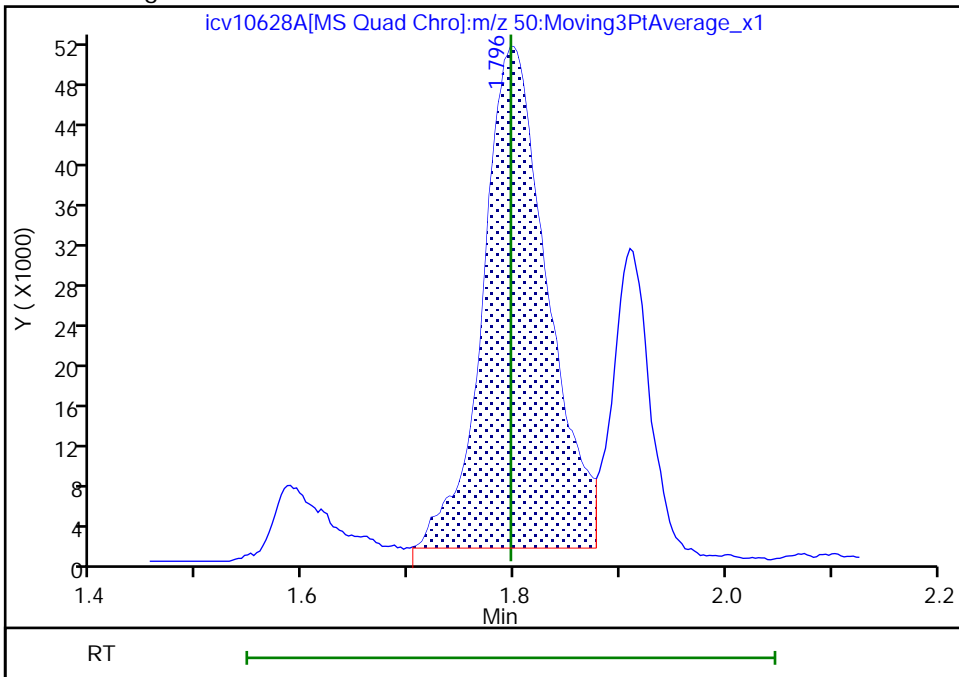
RT: 1.80
Area: 187513
Amount: 52.667712
Amount Units: ug/l

Processing Integration Results



RT: 1.80
Area: 210497
Amount: 59.123342
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 19:42:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

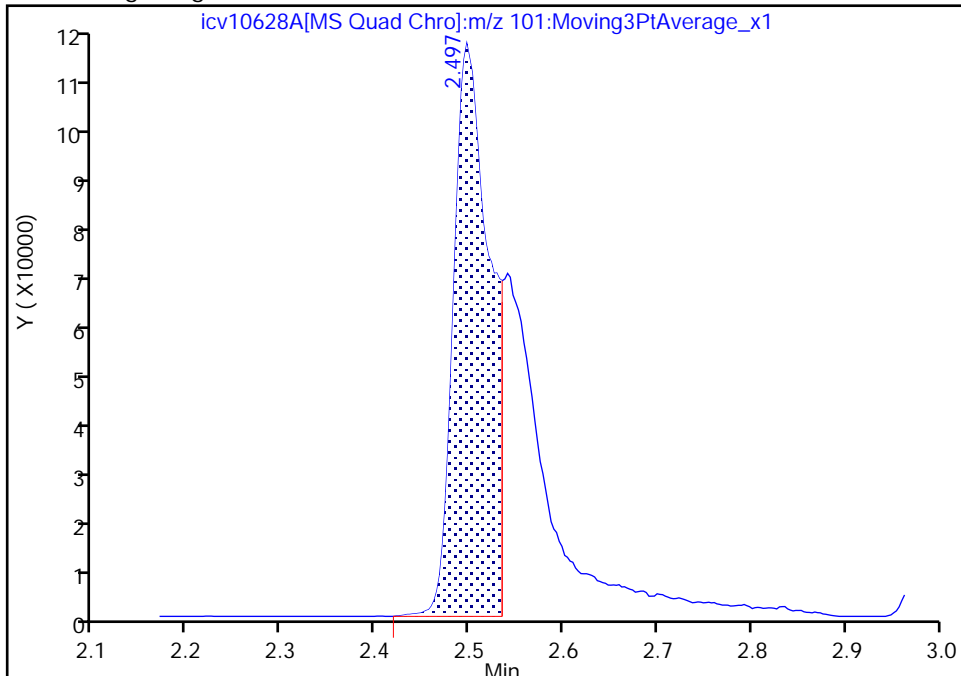
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Injection Date: 28-Jun-2022 14:10:40 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

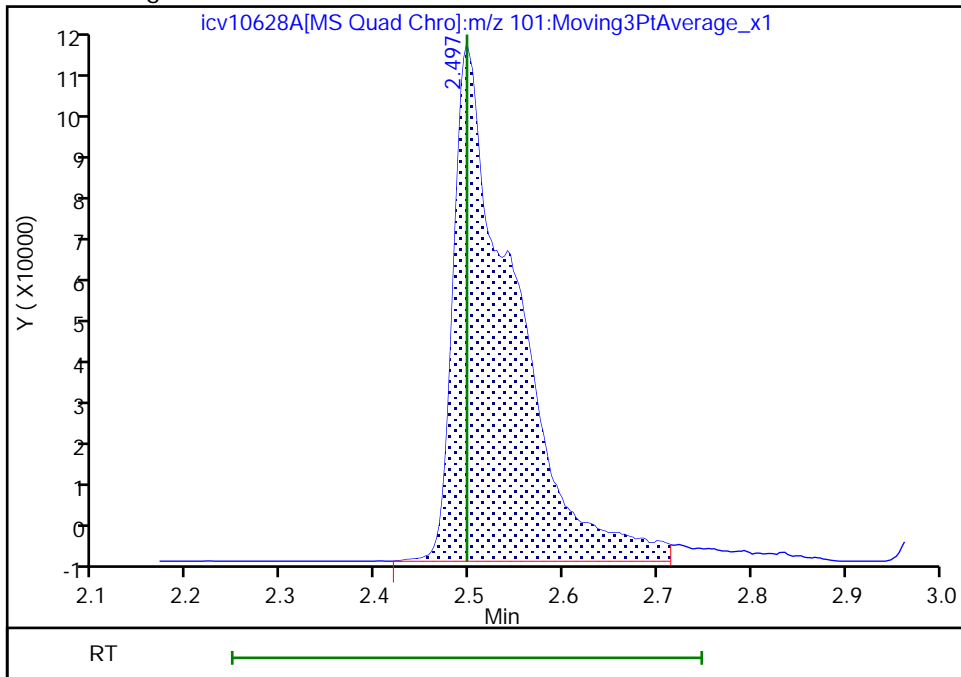
RT: 2.50
Area: 305343
Amount: 31.378420
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 507759
Amount: 52.179599
Amount Units: ug/l

Manual Integration Results



Reviewer: BQP0, 28-Jun-2022 14:48:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Chicago

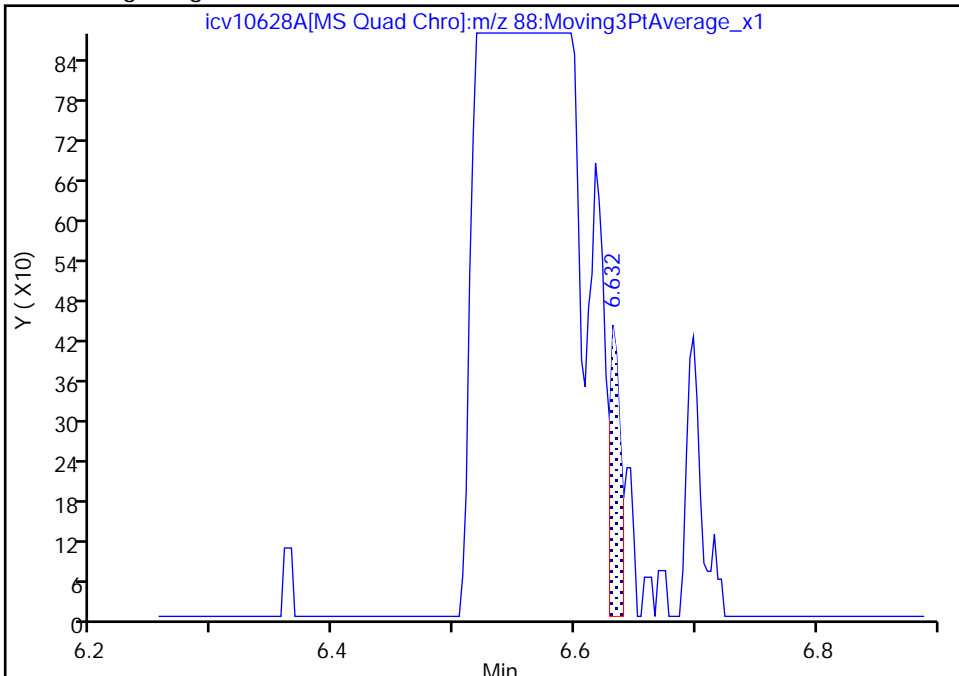
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Injection Date: 28-Jun-2022 14:10:40 Instrument ID: CMS29
Lims ID: ICV
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

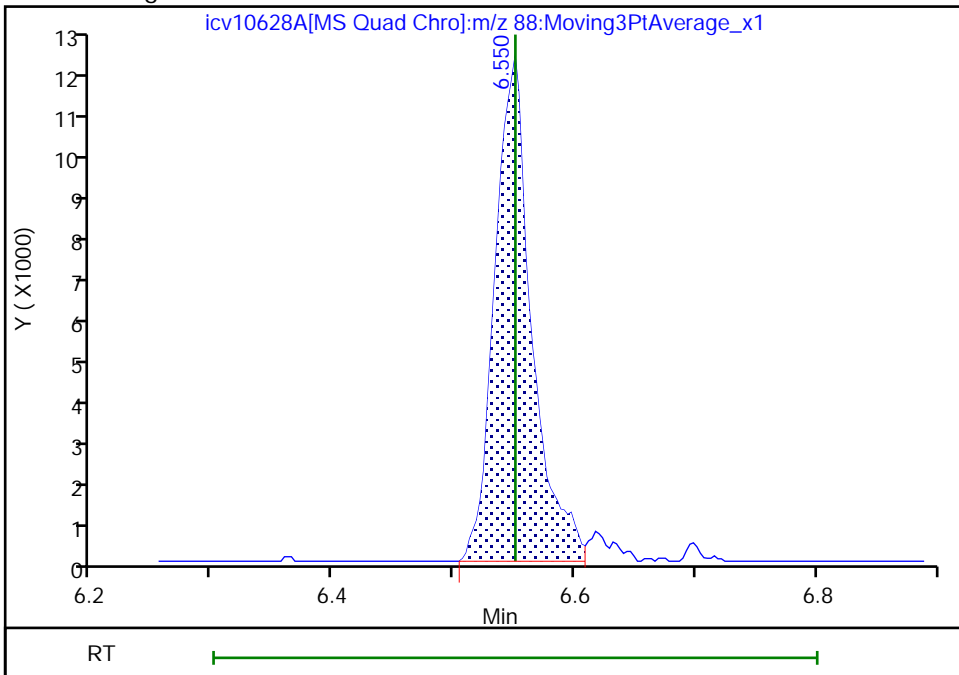
RT: 6.63
Area: 276
Amount: 30.670018
Amount Units: ug/l

Processing Integration Results



RT: 6.55
Area: 24431
Amount: 1042.7096
Amount Units: ug/l

Manual Integration Results



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673569/2 Calibration Date: 09/08/2022 08:29
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: 29C0908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3287	0.3849	0.0100	58.5	50.0	17.1	50.0
Chloromethane	Ave	0.2255	0.2430	0.1000	53.9	50.0	7.7	50.0
Vinyl chloride	Ave	0.2627	0.2598	0.0100	49.4	50.0	-1.1	20.0
Butadiene	Ave	0.2216	0.2409	0.0100	54.4	50.0	8.7	50.0
Bromomethane	Lin1		0.2352	0.0100	35.9	50.0	-28.1	50.0
Chloroethane	Ave	0.3037	0.1555	0.0100	25.6	50.0	-48.8	50.0
Dichlorofluoromethane	Ave	0.5768	0.4462	0.0100	38.7	50.0	-22.6	50.0
Trichlorofluoromethane	Ave	0.6164	0.5282	0.0100	42.8	50.0	-14.3	50.0
Ethyl ether	Ave	0.1752	0.1437	0.0100	41.0	50.0	-18.0	50.0
Acrolein	Ave	0.0186	0.0107	0.0010	1150	2000	-42.4	50.0
1,1-Dichloroethene	Ave	0.2979	0.2520	0.0100	42.3	50.0	-15.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3624	0.3055	0.0100	42.1	50.0	-15.7	50.0
Acetone	Lin1		0.0446	0.0100	49.5	50.0	-1.0	50.0
Iodomethane	Ave	0.5600	0.5208	0.0100	46.5	50.0	-7.0	50.0
Carbon disulfide	Ave	0.9767	0.8075	0.0100	41.3	50.0	-17.3	50.0
3-Chloropropene	Ave	0.1705	0.1383	0.0100	40.6	50.0	-18.9	50.0
Methyl acetate	Ave	0.1050	0.0846	0.0100	80.5	100	-19.5	50.0
Methylene Chloride	Ave	0.3017	0.2472	0.0100	41.0	50.0	-18.1	50.0
tert-Butyl alcohol	Ave	1.077	0.9847	0.0100	457	500	-8.6	50.0
Acrylonitrile	Ave	0.0562	0.0421	0.0010	374	500	-25.1	50.0
Methyl tert-butyl ether	Ave	0.7221	0.5559	0.0100	38.5	50.0	-23.0	50.0
trans-1,2-Dichloroethene	Ave	0.3300	0.2829	0.0100	42.9	50.0	-14.3	50.0
Hexane	Lin1		0.3331	0.0100	49.6	50.0	-0.9	50.0
1,1-Dichloroethane	Ave	0.4864	0.4207	0.1000	43.2	50.0	-13.5	50.0
Vinyl acetate	Ave	0.3106	0.2422	0.0100	39.0	50.0	-22.0	50.0
2,2-Dichloropropane	Ave	0.4071	0.3491	0.0100	42.9	50.0	-14.2	50.0
cis-1,2-Dichloroethene	Ave	0.3222	0.2828	0.0100	43.9	50.0	-12.2	50.0
2-Butanone (MEK)	Ave	0.0532	0.0538	0.0100	50.5	50.0	1.1	50.0
Bromochloromethane	Ave	0.1493	0.1413	0.0100	47.3	50.0	-5.4	50.0
Tetrahydrofuran	Ave	0.0391	0.0311	0.0100	79.5	100	-20.5	50.0
Chloroform	Ave	0.5642	0.4851	0.0100	43.0	50.0	-14.0	20.0
1,1,1-Trichloroethane	Ave	0.5072	0.4735	0.0100	46.7	50.0	-6.6	50.0
Cyclohexane	Ave	0.3839	0.3744	0.0100	48.8	50.0	-2.5	50.0
1,1-Dichloropropene	Ave	0.3795	0.3720	0.0100	49.0	50.0	-2.0	50.0
Carbon tetrachloride	Ave	0.4815	0.4806	0.0100	49.9	50.0	-0.2	50.0
Isobutyl alcohol	Ave	0.3675	0.3421	0.0010	1160	1250	-6.9	50.0
Benzene	Ave	1.002	0.9337	0.0100	46.6	50.0	-6.8	50.0
1,2-Dichloroethane	Ave	0.3281	0.2961	0.0100	45.1	50.0	-9.7	50.0
Heptane	Ave	0.2644	0.2984	0.0100	56.4	50.0	12.9	50.0
Trichloroethene	Ave	0.2989	0.3225	0.0100	54.0	50.0	7.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673569/2 Calibration Date: 09/08/2022 08:29
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: 29C0908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4728	0.4649	0.0100	49.2	50.0	-1.7	50.0
1,2-Dichloropropane	Ave	0.2110	0.2115	0.0100	50.1	50.0	0.2	20.0
Dibromomethane	Ave	0.1588	0.1407	0.0100	44.3	50.0	-11.4	50.0
1,4-Dioxane	Ave	1.184	1.102	0.0010	931	1000	-6.9	50.0
Bromodichloromethane	Ave	0.3702	0.3464	0.0100	46.8	50.0	-6.4	50.0
2-Chloroethyl vinyl ether	Ave	0.1159	0.1143	0.0100	49.3	50.0	-1.4	50.0
cis-1,3-Dichloropropene	Ave	0.4947	0.4620	0.0100	46.7	50.0	-6.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1767	0.1521	0.0100	43.0	50.0	-14.0	50.0
Toluene	Ave	0.8418	0.8105	0.0100	48.1	50.0	-3.7	20.0
trans-1,3-Dichloropropene	Ave	0.4419	0.4084	0.0100	46.2	50.0	-7.6	50.0
Ethyl methacrylate	Ave	0.2982	0.2745	0.0100	46.0	50.0	-7.9	50.0
1,1,2-Trichloroethane	Ave	0.2609	0.2332	0.0100	44.7	50.0	-10.6	50.0
Tetrachloroethene	Ave	0.3877	0.4450	0.0100	57.4	50.0	14.8	50.0
1,3-Dichloropropane	Ave	0.4264	0.3805	0.0100	44.6	50.0	-10.8	50.0
2-Hexanone	Ave	0.1229	0.1022	0.0100	41.6	50.0	-16.8	50.0
Dibromochloromethane	Ave	0.3718	0.3501	0.0100	47.1	50.0	-5.8	50.0
1,2-Dibromoethane	Ave	0.2687	0.2406	0.0100	44.8	50.0	-10.5	50.0
Chlorobenzene	Ave	1.002	0.9525	0.3000	47.6	50.0	-4.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3932	0.3753	0.0100	47.7	50.0	-4.6	50.0
Ethylbenzene	Ave	1.622	1.581	0.0100	48.7	50.0	-2.5	20.0
m&p-Xylene	Ave	1.233	1.248	0.0100	50.6	50.0	1.2	50.0
o-Xylene	Ave	1.317	1.265	0.0100	48.0	50.0	-3.9	50.0
Styrene	Ave	1.047	1.003	0.0100	47.9	50.0	-4.3	50.0
Bromoform	Ave	0.2357	0.2167	0.1000	46.0	50.0	-8.1	50.0
Isopropylbenzene	Ave	2.813	2.949	0.0100	52.4	50.0	4.8	50.0
Bromobenzene	Ave	0.6878	0.7661	0.0100	55.7	50.0	11.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.6007	0.4788	0.3000	39.9	50.0	-20.3	50.0
1,2,3-Trichloropropane	Ave	0.1725	0.1607	0.0100	46.6	50.0	-6.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1368	0.1089	0.0100	39.8	50.0	-20.4	50.0
N-Propylbenzene	Ave	3.376	3.446	0.0100	51.0	50.0	2.1	50.0
2-Chlorotoluene	Ave	1.971	1.932	0.0100	49.0	50.0	-2.0	50.0
1,3,5-Trimethylbenzene	Ave	2.491	2.468	0.0100	49.5	50.0	-0.9	50.0
4-Chlorotoluene	Ave	2.384	2.307	0.0100	48.4	50.0	-3.3	50.0
tert-Butylbenzene	Ave	2.180	2.207	0.0100	50.6	50.0	1.2	50.0
1,2,4-Trimethylbenzene	Ave	2.555	2.483	0.0100	48.6	50.0	-2.8	50.0
sec-Butylbenzene	Ave	3.399	3.215	0.0100	47.3	50.0	-5.4	50.0
1,3-Dichlorobenzene	Ave	1.458	1.410	0.0100	48.4	50.0	-3.3	50.0
p-Isopropyltoluene	Ave	2.893	2.806	0.0100	48.5	50.0	-3.0	50.0
1,4-Dichlorobenzene	Ave	1.511	1.406	0.0100	46.5	50.0	-7.0	50.0
n-Butylbenzene	Ave	2.719	2.391	0.0100	44.0	50.0	-12.1	50.0
1,2-Dichlorobenzene	Ave	1.395	1.250	0.0100	44.8	50.0	-10.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 500-673569/2 Calibration Date: 09/08/2022 08:29
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: 29C0908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1136	0.0698	0.0100	30.7	50.0	-38.6	50.0
1,2,4-Trichlorobenzene	Ave	0.8622	0.6989	0.0100	40.5	50.0	-18.9	50.0
Hexachlorobutadiene	Ave	0.5355	0.4972	0.0100	46.4	50.0	-7.2	50.0
Naphthalene	Ave	1.530	1.039	0.0100	33.9	50.0	-32.1	50.0
1,2,3-Trichlorobenzene	Ave	0.7581	0.5155	0.0100	34.0	50.0	-32.0	50.0
Dibromofluoromethane	Ave	0.2992	0.2811	0.0100	47.0	50.0	-6.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2779	0.2558	0.0100	46.0	50.0	-7.9	50.0
Toluene-d8 (Surr)	Ave	1.254	1.260	0.0100	50.2	50.0	0.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7648	0.8264	0.0100	54.0	50.0	8.1	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29C0908.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-Sep-2022 08:29:15 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 500-0088058-002
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub1
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:14:42 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8

Date: 08-Sep-2022 14:14:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.594	1.594	0.000	87	323269	50.0	58.5	
2 Chloromethane	50	1.802	1.802	0.000	89	204094	50.0	53.9	
3 Vinyl chloride	62	1.915	1.915	0.000	68	218185	50.0	49.4	
4 Butadiene	39	1.924	1.924	0.000	88	202370	50.0	54.4	
6 Bromomethane	94	2.231	2.231	0.000	91	197602	50.0	35.9	
7 Chloroethane	64	2.318	2.318	0.000	95	130628	50.0	25.6	
8 Dichlorofluoromethane	67	2.506	2.506	0.000	82	374772	50.0	38.7	
9 Trichlorofluoromethane	101	2.520	2.520	0.000	81	443671	50.0	42.8	M
11 Ethyl ether	59	2.787	2.787	0.000	87	120744	50.0	41.0	
12 Acrolein	56	2.905	2.905	0.000	96	359529	2000.0	1151.3	
13 1,1-Dichloroethene	96	2.998	2.998	0.000	89	211707	50.0	42.3	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.033	3.033	0.000	84	256607	50.0	42.1	
15 Acetone	43	3.047	3.047	0.000	45	37469	50.0	49.5	
16 Iodomethane	142	3.134	3.134	0.000	98	437458	50.0	46.5	
17 Carbon disulfide	76	3.198	3.198	0.000	100	678243	50.0	41.3	
20 3-Chloro-1-propene	76	3.328	3.328	0.000	88	116186	50.0	40.6	
21 Methyl acetate	43	3.346	3.346	0.000	94	142042	100.0	80.5	
22 Methylene Chloride	84	3.438	3.438	0.000	83	207675	50.0	41.0	
* 23 TBA-d9 (IS)	65	3.461	3.461	0.000	0	224553	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.537	3.537	0.000	98	110557	500.0	457.0	
25 Acrylonitrile	53	3.664	3.664	0.000	97	353605	500.0	374.5	
27 Methyl tert-butyl ether	73	3.687	3.687	0.000	88	466905	50.0	38.5	
26 trans-1,2-Dichloroethene	96	3.690	3.690	0.000	83	237591	50.0	42.9	
28 Hexane	57	3.939	3.939	0.000	92	279780	50.0	49.6	
29 1,1-Dichloroethane	63	4.081	4.081	0.000	85	353401	50.0	43.2	
30 Vinyl acetate	43	4.121	4.121	0.000	99	203421	50.0	39.0	
35 cis-1,2-Dichloroethene	96	4.631	4.631	0.000	87	237520	50.0	43.9	
34 2,2-Dichloropropane	77	4.631	4.631	0.000	71	293264	50.0	42.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	4.643	4.643	0.000	41	45196	50.0	50.5	
40 Chlorobromomethane	128	4.863	4.863	0.000	79	118660	50.0	47.3	
41 Tetrahydrofuran	42	4.906	4.906	0.000	84	52209	100.0	79.5	
42 Chloroform	83	4.935	4.935	0.000	82	407490	50.0	43.0	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	61	236132	50.0	47.0	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	91	397749	50.0	46.7	
45 Cyclohexane	56	5.181	5.181	0.000	85	314459	50.0	48.8	
47 1,1-Dichloropropene	75	5.285	5.285	0.000	92	312487	50.0	49.0	
46 Carbon tetrachloride	117	5.288	5.288	0.000	84	403659	50.0	49.9	
48 Isobutyl alcohol	43	5.381	5.381	0.000	91	96021	1250.0	1163.5	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.436	0.000	71	214893	50.0	46.0	
50 Benzene	78	5.497	5.497	0.000	95	784317	50.0	46.6	
51 1,2-Dichloroethane	62	5.514	5.514	0.000	82	248713	50.0	45.1	
54 n-Heptane	43	5.754	5.754	0.000	81	250675	50.0	56.4	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	98	839975	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	88	270909	50.0	54.0	
59 Methylcyclohexane	83	6.371	6.371	0.000	89	390480	50.0	49.2	
60 1,2-Dichloropropane	63	6.409	6.409	0.000	88	177688	50.0	50.1	
* 62 1,4-Dioxane-d8	96	6.493	6.493	0.000	0	23525	1000.0	1000.0	
63 Dibromomethane	93	6.533	6.533	0.000	87	118210	50.0	44.3	
65 1,4-Dioxane	88	6.548	6.548	0.000	40	25931	1000.0	931.3	
66 Dichlorobromomethane	83	6.704	6.704	0.000	93	290997	50.0	46.8	
68 2-Chloroethyl vinyl ether	63	7.043	7.043	0.000	92	75008	50.0	49.3	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	92	303301	50.0	46.7	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	97	99827	50.0	43.0	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.524	0.000	93	826959	50.0	50.2	
72 Toluene	92	7.602	7.602	0.000	92	532024	50.0	48.1	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	89	268060	50.0	46.2	
74 Ethyl methacrylate	69	7.972	7.972	0.000	93	180212	50.0	46.0	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	87	153050	50.0	44.7	
76 Tetrachloroethene	166	8.256	8.256	0.000	96	292120	50.0	57.4	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	88	249766	50.0	44.6	
78 2-Hexanone	43	8.398	8.398	0.000	93	67076	50.0	41.6	
79 Chlorodibromomethane	129	8.569	8.569	0.000	87	229787	50.0	47.1	
81 Ethylene Dibromide	107	8.714	8.714	0.000	98	157925	50.0	44.8	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	656429	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	94	625258	50.0	47.6	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	89	246330	50.0	47.7	
86 Ethylbenzene	91	9.484	9.484	0.000	99	1037719	50.0	48.7	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	99	819286	50.0	50.6	
88 o-Xylene	91	10.118	10.118	0.000	93	830663	50.0	48.0	
89 Styrene	104	10.135	10.135	0.000	94	658081	50.0	47.9	
90 Bromoform	173	10.338	10.338	0.000	99	142230	50.0	46.0	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	1076433	50.0	52.4	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	94	301658	50.0	54.0	
95 Bromobenzene	156	10.850	10.850	0.000	86	279639	50.0	55.7	
96 1,1,2,2-Tetrachloroethane	83	10.856	10.856	0.000	77	174760	50.0	39.9	
97 1,2,3-Trichloropropane	110	10.897	10.897	0.000	87	58669	50.0	46.6	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	93	39737	50.0	39.8	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	1257846	50.0	51.0	
100 2-Chlorotoluene	91	11.050	11.050	0.000	96	705298	50.0	49.0	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	91	900674	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 4-Chlorotoluene	91	11.157	11.157	0.000	94	841921	50.0	48.4	
104 tert-Butylbenzene	119	11.458	11.458	0.000	91	805454	50.0	50.6	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	94	906293	50.0	48.6	
107 sec-Butylbenzene	105	11.664	11.664	0.000	94	1173410	50.0	47.3	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	98	514661	50.0	48.4	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	1024127	50.0	48.5	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	365005	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	94	513175	50.0	46.5	
115 n-Butylbenzene	91	12.159	12.159	0.000	97	872736	50.0	44.0	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.000	97	456311	50.0	44.8	
116 1,2-Dibromo-3-Chloropropane	75	12.819	12.819	0.000	59	25463	50.0	30.7	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	90	255111	50.0	40.5	
119 Hexachlorobutadiene	225	13.583	13.583	0.000	94	181465	50.0	46.4	
120 Naphthalene	128	13.650	13.650	0.000	99	379063	50.0	33.9	
121 1,2,3-Trichlorobenzene	180	13.830	13.830	0.000	95	188147	50.0	34.0	
S 124 Xylenes, Total	1				0		100.0	98.6	
S 126 1,2-Dichloroethene, Total	1				0		100.0	86.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260/624GASWK_01475	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29C0908.D

Injection Date: 08-Sep-2022 08:29:15

Instrument ID: CMS29

Operator ID: PF

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

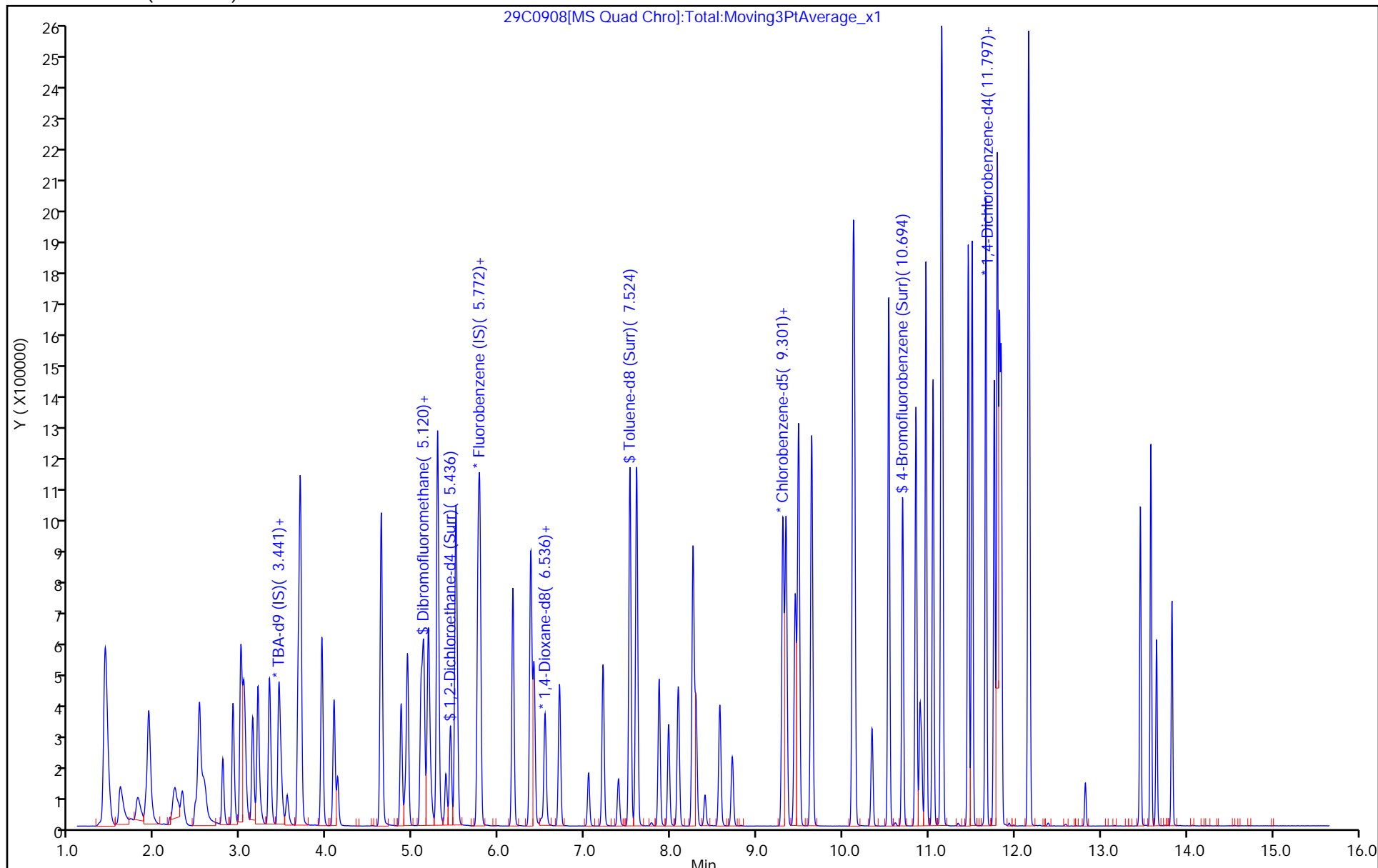
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago

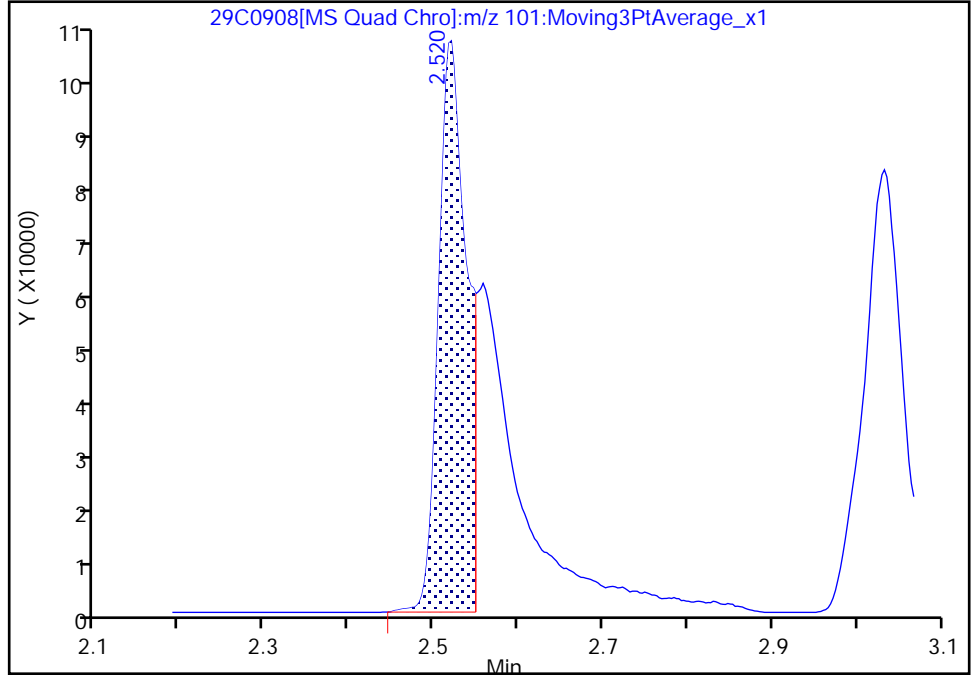
Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29C0908.D
Injection Date: 08-Sep-2022 08:29:15 Instrument ID: CMS29
Lims ID: CCVIS
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

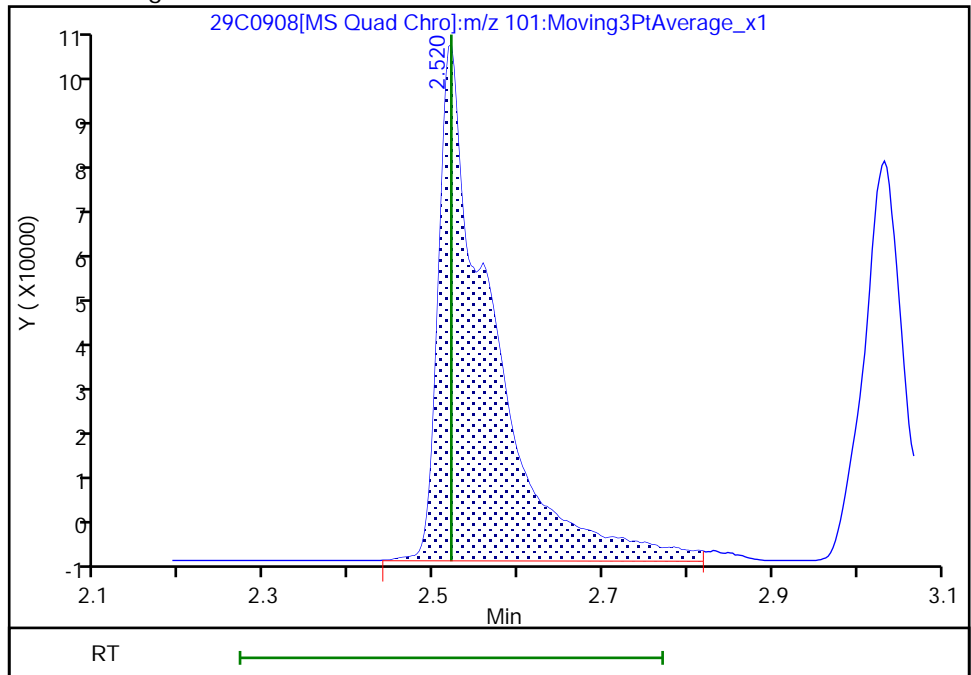
RT: 2.52
Area: 235369
Amount: 22.731183
Amount Units: ug/l

Processing Integration Results



RT: 2.52
Area: 443671
Amount: 42.848321
Amount Units: ug/l

Manual Integration Results



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673569/3 Calibration Date: 09/08/2022 08:52
 Instrument ID: CMS29 Calib Start Date: 05/14/2022 13:53
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 05/14/2022 16:38
 Lab File ID: 29D0908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0750	0.0010	1720	2000	-14.2	50.0
Isopropyl alcohol	Ave	0.5956	0.4978	0.0010	418	500	-16.4	50.0
Acetonitrile	Ave	0.0180	0.0138	0.0010	383	500	-23.5	50.0
Isopropyl ether	Ave	0.7743	0.5598	0.0100	36.2	50.0	-27.7	50.0
2-Chloro-1,3-butadiene	Ave	0.3657	0.3771	0.0100	51.6	50.0	3.1	50.0
Tert-butyl ethyl ether	Ave	0.7426	0.5909	0.0010	39.8	50.0	-20.4	50.0
Ethyl acetate	Lin1		0.1177	0.0100	62.1	100	-37.9	50.0
Propionitrile	Ave	0.0260	0.0180	0.0010	346	500	-30.8	50.0
Methacrylonitrile	Ave	0.1067	0.0775	0.0100	363	500	-27.4	50.0
Isooctane	Ave	0.9686	0.9479	0.0100	48.9	50.0	-2.1	50.0
Tert-amyl methyl ether	Ave	0.7323	0.5778	0.0100	39.4	50.0	-21.1	50.0
n-Butyl alcohol	Lin1		0.2387	0.0010	991	1250	-20.7	50.0
Ethyl acrylate	Ave	0.2512	0.1746	0.0010	34.8	50.0	-30.5	50.0
Methyl methacrylate	Ave	0.1594	0.1188	0.0100	74.6	100	-25.4	50.0
2-Nitropropane	Lin1		0.0564	0.0100	84.5	100	-15.5	50.0
n-Butyl acetate	Ave	0.3862	0.2527	0.0010	32.7	50.0	-34.6	50.0
1-Chlorohexane	Ave	0.4992	0.4875	0.0100	48.8	50.0	-2.3	50.0
Cyclohexanone	Ave	0.0153	0.0114	0.0100	3740	5000	-25.3	50.0
Pentachloroethane	Ave	0.4059	0.4725	0.0100	58.2	50.0	16.4	50.0
2-Ethyltoluene	Ave	2.934	0.0125	0.0010	<1.00	50.0	-99.6*	50.0
1,2,3-Trimethylbenzene	Ave	2.562	2.536	0.0010	49.5	50.0	-1.0	50.0
Benzyl chloride	Ave	0.2676	0.2385	0.0010	44.6	50.0	-10.9	50.0
1,3,5-Trichlorobenzene	Ave	1.171	1.094	0.0100	46.7	50.0	-6.6	50.0
2-Methylnaphthalene	Lin1		0.1054	0.0100	<5.00	50.0	-91.9*	50.0
1-Methylnaphthalene	Lin1		0.0461	0.0100	<5.00	50.0	-95.1*	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29D0908.D
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 08-Sep-2022 08:52:40 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIX
 Misc. Info.: 500-0088058-003
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub37
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:15:09 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8

Date:

08-Sep-2022 14:15:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.697	2.694	0.003	93	39069	2000.0	1715.4	
18 Isopropyl alcohol	45	3.166	3.169	-0.003	94	64863	500.0	417.9	
19 Acetonitrile	41	3.296	3.301	-0.003	98	110196	500.0	382.7	
* 23 TBA-d9 (IS)	65	3.456	3.461	-0.005	0	260604	1000.0	1000.0	
31 Isopropyl ether	45	4.133	4.135	0.000	88	447839	50.0	36.2	
32 2-Chloro-1,3-butadiene	53	4.162	4.167	-0.003	90	301667	50.0	51.6	
33 Tert-butyl ethyl ether	59	4.475	4.475	0.000	95	472719	50.0	39.8	
38 Ethyl acetate	43	4.692	4.694	0.000	98	188338	100.0	62.1	
37 Propionitrile	54	4.698	4.703	-0.003	92	143757	500.0	345.9	
39 Methacrylonitrile	41	4.848	4.851	0.000	88	619836	500.0	363.0	
\$ 43 Dibromofluoromethane	113	5.091	5.094	-0.003	66	235665	50.0	49.2	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.436	-0.003	46	216021	50.0	48.6	
52 Isooctane	57	5.569	5.572	0.000	97	758254	50.0	48.9	
53 Tert-amyl methyl ether	73	5.598	5.601	0.000	96	462210	50.0	39.4	
* 55 Fluorobenzene (IS)	96	5.775	5.778	-0.003	99	799946	50.0	50.0	
56 n-Butanol	56	6.067	6.073	-0.003	89	77748	1250.0	991.3	
58 Ethyl acrylate	55	6.267	6.273	-0.003	98	139698	50.0	34.8	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	25093	1000.0	1000.0	
64 Methyl methacrylate	41	6.522	6.525	0.000	79	190126	100.0	74.6	
67 2-Nitropropane	43	6.962	6.967	-0.003	88	73095	100.0	84.5	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.524	0.000	93	777841	50.0	47.8	
80 n-Butyl acetate	43	8.557	8.560	0.000	94	163779	50.0	32.7	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	648210	50.0	50.0	
83 1-Chlorohexane	91	9.313	9.316	0.000	79	316006	50.0	48.8	
92 Cyclohexanone	55	10.633	10.633	0.000	96	388373	5000.0	3737.4	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	94	305734	50.0	58.9	
105 Pentachloroethane	167	11.476	11.476	0.000	89	160474	50.0	58.2	
103 2-Ethyltoluene	105	11.505	11.505	0.000	45	4243	50.0	0.2130	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	339596	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	94	861166	50.0	49.5	
113 Benzyl chloride	126	11.968	11.968	0.000	97	81006	50.0	44.6	
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	93	371610	50.0	46.7	
122 2-Methylnaphthalene	142	14.548	14.551	-0.003	82	35789	50.0	4.04	
123 1-Methylnaphthalene	142	14.718	14.721	-0.003	74	15648	50.0	2.43	

QC Flag Legend

Processing Flags

Reagents:

8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00297	Amount Added: 2.50	Units: uL	
8260CYCHXWK_00332	Amount Added: 2.50	Units: uL	
2ETTOL WK STD_00181	Amount Added: 2.50	Units: uL	
8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29D0908.D

Injection Date: 08-Sep-2022 08:52:40

Instrument ID: CMS29

Operator ID: PF

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

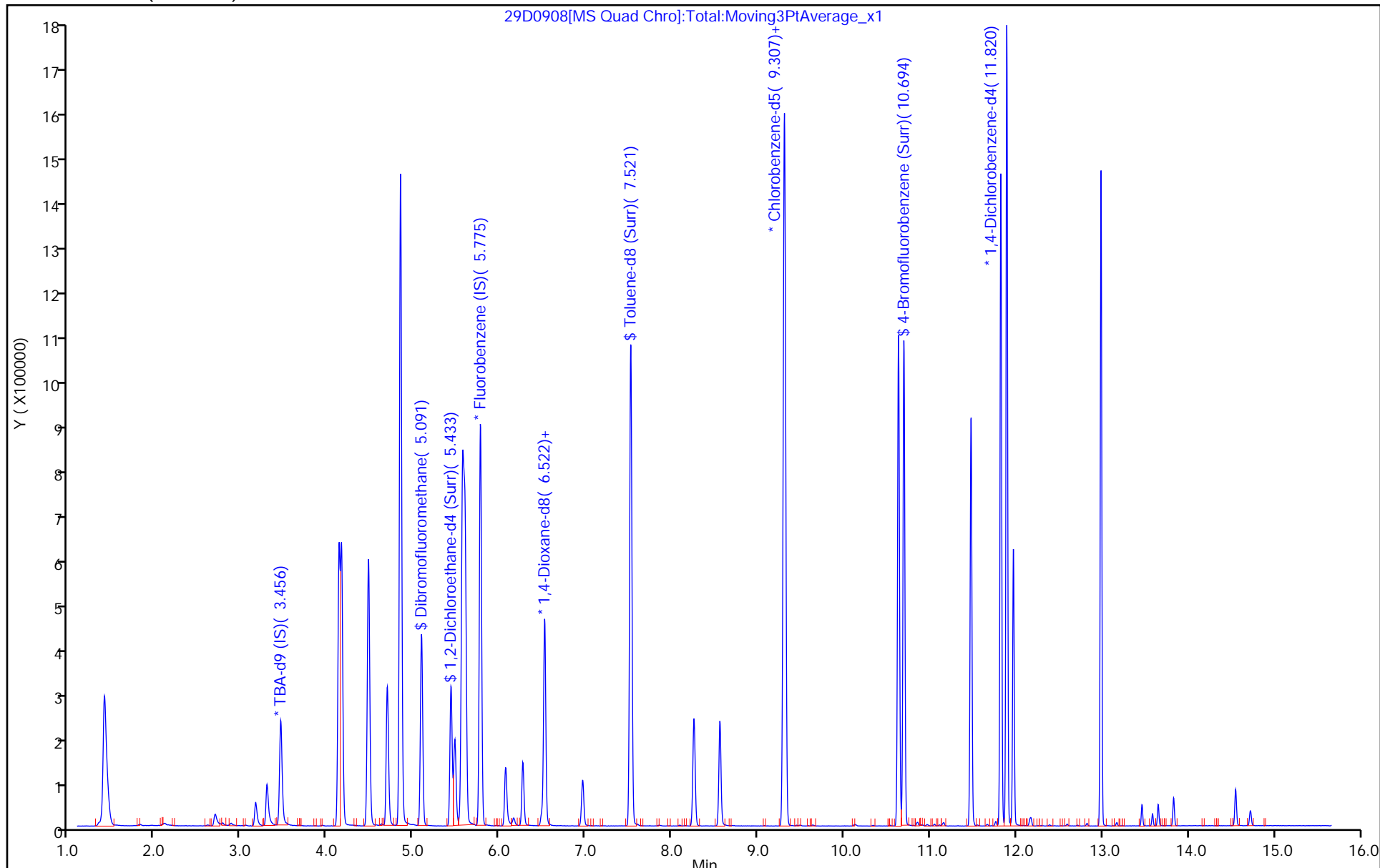
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 500-673569/3 Calibration Date: 09/08/2022 08:52
 Instrument ID: CMS29 Calib Start Date: 06/28/2022 08:45
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/28/2022 12:17
 Lab File ID: 29D0908.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2992	0.2946	0.0100	49.2	50.0	-1.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2779	0.2700	0.0100	48.6	50.0	-2.8	50.0
Toluene-d8 (Surr)	Ave	1.254	1.200	0.0100	47.8	50.0	-4.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7648	0.9003	0.0100	58.9	50.0	17.7	50.0

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29D0908.D
 Lims ID: CCV IX
 Client ID:
 Sample Type: CCV
 Inject. Date: 08-Sep-2022 08:52:40 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIX
 Misc. Info.: 500-0088058-003
 Operator ID: PF Instrument ID: CMS29
 Sublist: chrom-8260W29cps*sub37
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:15:09 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8

Date:

08-Sep-2022 14:15:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethanol	45	2.697	2.694	0.003	93	39069	2000.0	1715.4	
18 Isopropyl alcohol	45	3.166	3.169	-0.003	94	64863	500.0	417.9	
19 Acetonitrile	41	3.296	3.301	-0.003	98	110196	500.0	382.7	
* 23 TBA-d9 (IS)	65	3.456	3.461	-0.005	0	260604	1000.0	1000.0	
31 Isopropyl ether	45	4.133	4.135	0.000	88	447839	50.0	36.2	
32 2-Chloro-1,3-butadiene	53	4.162	4.167	-0.003	90	301667	50.0	51.6	
33 Tert-butyl ethyl ether	59	4.475	4.475	0.000	95	472719	50.0	39.8	
38 Ethyl acetate	43	4.692	4.694	0.000	98	188338	100.0	62.1	
37 Propionitrile	54	4.698	4.703	-0.003	92	143757	500.0	345.9	
39 Methacrylonitrile	41	4.848	4.851	0.000	88	619836	500.0	363.0	
\$ 43 Dibromofluoromethane	113	5.091	5.094	-0.003	66	235665	50.0	49.2	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.436	-0.003	46	216021	50.0	48.6	
52 Isooctane	57	5.569	5.572	0.000	97	758254	50.0	48.9	
53 Tert-amyl methyl ether	73	5.598	5.601	0.000	96	462210	50.0	39.4	
* 55 Fluorobenzene (IS)	96	5.775	5.778	-0.003	99	799946	50.0	50.0	
56 n-Butanol	56	6.067	6.073	-0.003	89	77748	1250.0	991.3	
58 Ethyl acrylate	55	6.267	6.273	-0.003	98	139698	50.0	34.8	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	25093	1000.0	1000.0	
64 Methyl methacrylate	41	6.522	6.525	0.000	79	190126	100.0	74.6	
67 2-Nitropropane	43	6.962	6.967	-0.003	88	73095	100.0	84.5	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.524	0.000	93	777841	50.0	47.8	
80 n-Butyl acetate	43	8.557	8.560	0.000	94	163779	50.0	32.7	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	648210	50.0	50.0	
83 1-Chlorohexane	91	9.313	9.316	0.000	79	316006	50.0	48.8	
92 Cyclohexanone	55	10.633	10.633	0.000	96	388373	5000.0	3737.4	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.694	10.694	0.000	94	305734	50.0	58.9	
105 Pentachloroethane	167	11.476	11.476	0.000	89	160474	50.0	58.2	
103 2-Ethyltoluene	105	11.505	11.505	0.000	45	4243	50.0	0.2130	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	339596	50.0	50.0	
112 1,2,3-Trimethylbenzene	105	11.890	11.890	0.000	94	861166	50.0	49.5	
113 Benzyl chloride	126	11.968	11.968	0.000	97	81006	50.0	44.6	
117 1,3,5-Trichlorobenzene	180	12.984	12.984	0.000	93	371610	50.0	46.7	
122 2-Methylnaphthalene	142	14.548	14.551	-0.003	82	35789	50.0	4.04	
123 1-Methylnaphthalene	142	14.718	14.721	-0.003	74	15648	50.0	2.43	

QC Flag Legend

Processing Flags

Reagents:

8260ADDS 2016_00223	Amount Added: 2.50	Units: uL	
8260POLR ADDS_00297	Amount Added: 2.50	Units: uL	
8260CYCHXWK_00332	Amount Added: 2.50	Units: uL	
2ETTOL WK STD_00181	Amount Added: 2.50	Units: uL	
8260/624STD2_00338	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29D0908.D

Injection Date: 08-Sep-2022 08:52:40

Instrument ID: CMS29

Operator ID: PF

Lims ID: CCV IX

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

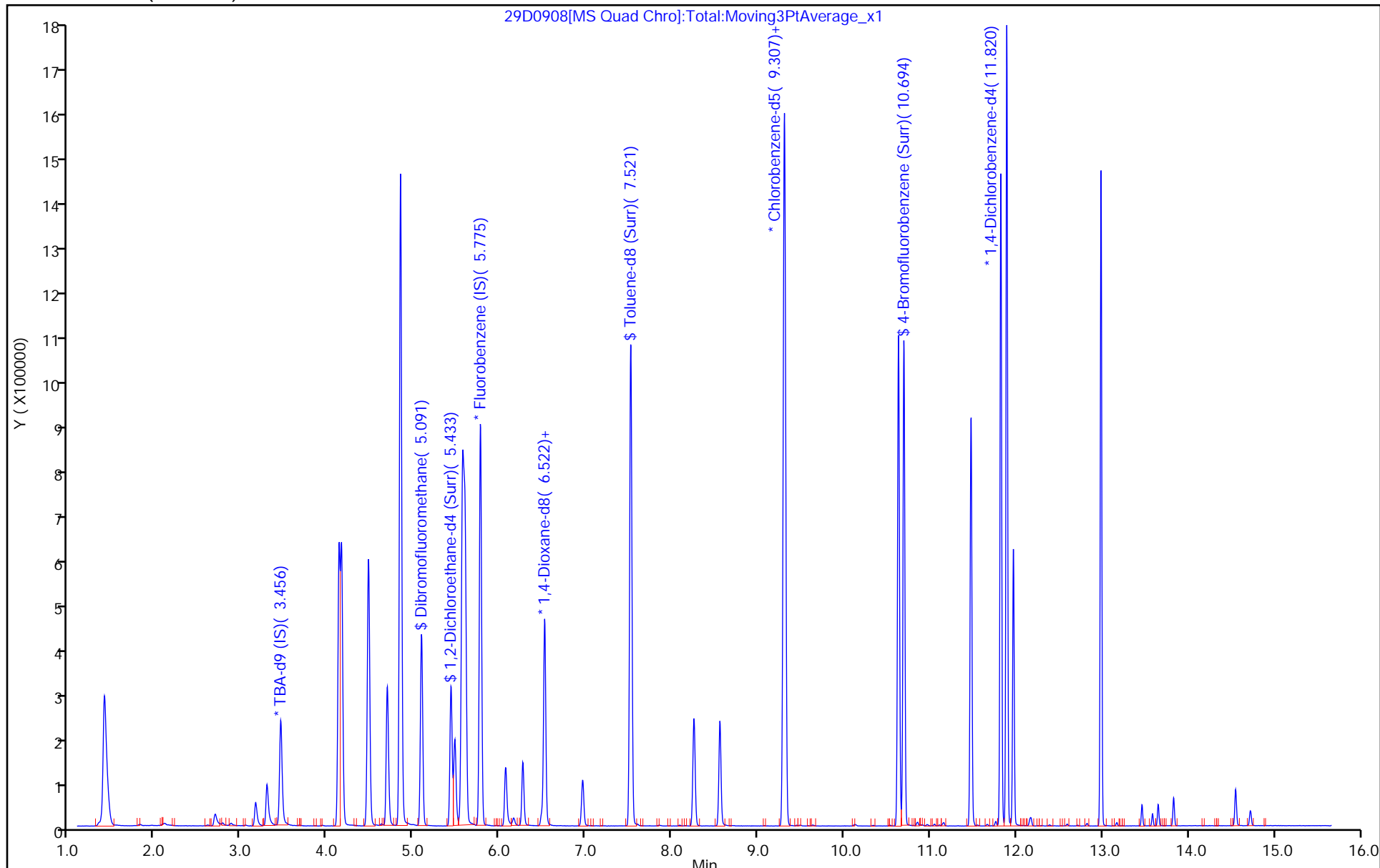
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 18-Jan-2022 11:12:30 ALS Bottle#: 1 Worklist Smp#: 2
 Injection Vol: 5.0 g Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 500-0083302-002
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:46:31 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: dillmanj Date: 18-Jan-2022 11:35:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
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\$ 94 BFB	95	10.716	10.716	0.000	87	47511	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

BFB STD WK_00293 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118.D

Injection Date: 18-Jan-2022 11:12:30

Instrument ID: CMS16

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 2

Injection Vol: 5.0 g

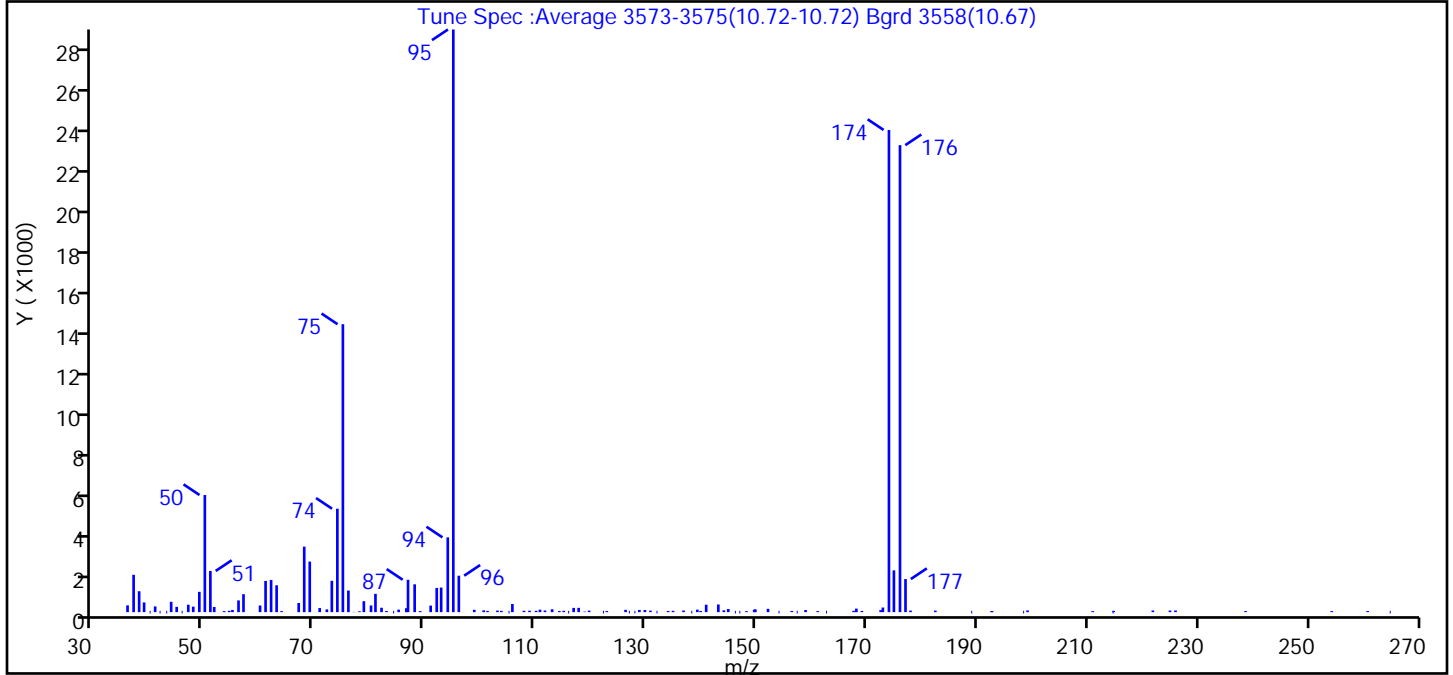
Dil. Factor: 1.0000

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Tune Method: BFB Method 8260

\$ 94 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	1.1 (1.4)
174	50 to 120% of m/z 95	82.8
175	5 to 9% of m/z 174	7.2 (8.7)
176	Greater than 95% but less than 101% of m/z 174	80.1 (96.9)
177	5 to 9% of m/z 176	5.7 (7.1)

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118.D\8260s16_test.rslt\spectra.d
Injection Date: 18-Jan-2022 11:12:30
Spectrum: Tune Spec :Average 3573-3575(10.72-10.72) Bgrd 3558(10.67)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	336	74.00	5123	112.00	81	154.00	0
37.00	1849	75.00	14260	113.00	143	156.00	58
38.00	1035	76.00	1071	114.00	54	157.00	0
39.00	481	77.00	11	115.00	66	159.00	105
40.00	0	78.00	43	116.00	0	161.00	51
41.00	284	79.00	543	117.00	210	163.00	0
42.00	0	80.00	332	118.00	213	168.00	64
43.00	0	81.00	907	119.00	26	168.00	175
44.00	513	82.00	218	120.00	75	169.00	59
45.00	263	83.00	59	122.00	0	172.00	100
46.00	0	84.00	0	123.00	55	173.00	228
47.00	368	85.00	124	126.00	115	174.00	23880
48.00	272	87.00	195	127.00	0	175.00	2069
49.00	1006	87.00	1604	128.00	0	176.00	23128
50.00	5801	88.00	1378	129.00	109	177.00	1639
51.00	2040	89.00	53	130.00	105	178.00	77
52.00	255	91.00	324	131.00	74	182.00	75
54.00	51	92.00	1199	132.00	0	189.00	0
54.00	66	93.00	1218	134.00	58	193.00	54
55.00	109	94.00	3703	135.00	66	193.00	50
56.00	581	95.00	28856	137.00	81	198.00	0
57.00	890	96.00	1805	138.00	0	199.00	84
60.00	328	97.00	3	139.00	125	211.00	51
61.00	1546	99.00	116	140.00	57	214.00	0
62.00	1594	101.00	89	141.00	367	215.00	61
63.00	1331	101.00	60	143.00	380	222.00	82
64.00	51	103.00	78	144.00	92	225.00	79
67.00	453	104.00	65	145.00	155	226.00	83
68.00	3245	105.00	0	146.00	0	239.00	53
69.00	2504	106.00	403	147.00	0	254.00	53
70.00	3	108.00	69	148.00	50	261.00	54
71.00	203	109.00	73	150.00	118	265.00	0
72.00	137	110.00	66	150.00	141		

Report Date: 20-Jan-2022 09:46:32

Chrom Revision: 2.3 03-Jan-2022 17:03:12

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118.D\8260s16_test.rslt\spectra.d

Injection Date: 18-Jan-2022 11:12:30

Spectrum: Tune Spec :Average 3573-3575(10.72-10.72) Bgrd 3558(10.67)

Base Peak: 95.10

Minimum % Base Peak: 0

Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1551	111.00	123	152.00	165		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\16b0118.D

Injection Date: 18-Jan-2022 11:12:30

Instrument ID: CMS16

Operator ID:

Lims ID: BFB

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 g

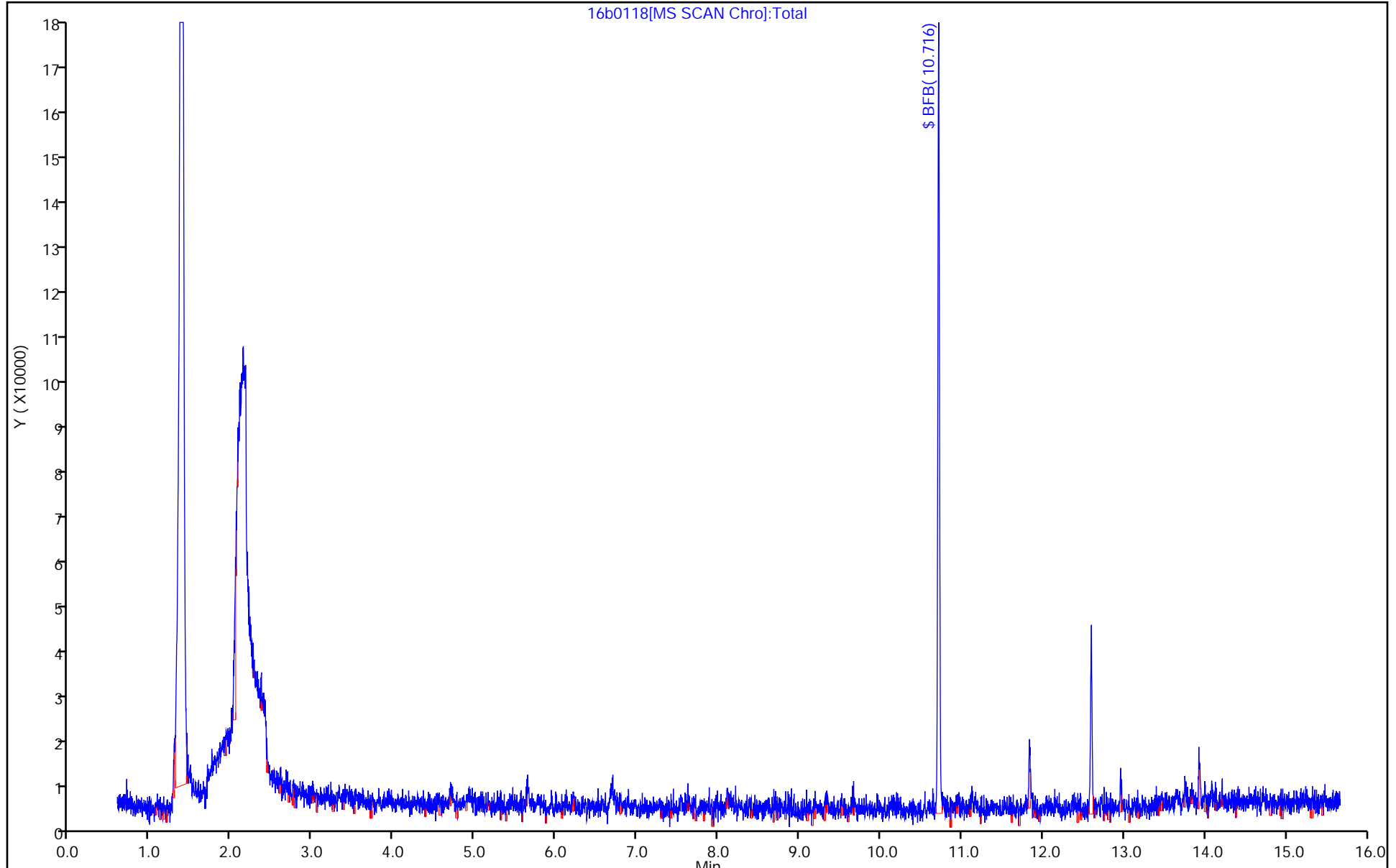
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\16b0119.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Jan-2022 08:31:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 g Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 500-0083323-001
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 20-Jan-2022 09:59:14 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1645

First Level Reviewer: ficarellop Date: 20-Jan-2022 09:59:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
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\$ 94 BFB	95	10.710	10.710	0.000	83	16384	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

BFB STD WK_00293 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\16b0119.D

Injection Date: 19-Jan-2022 08:31:30

Instrument ID: CMS16

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 g

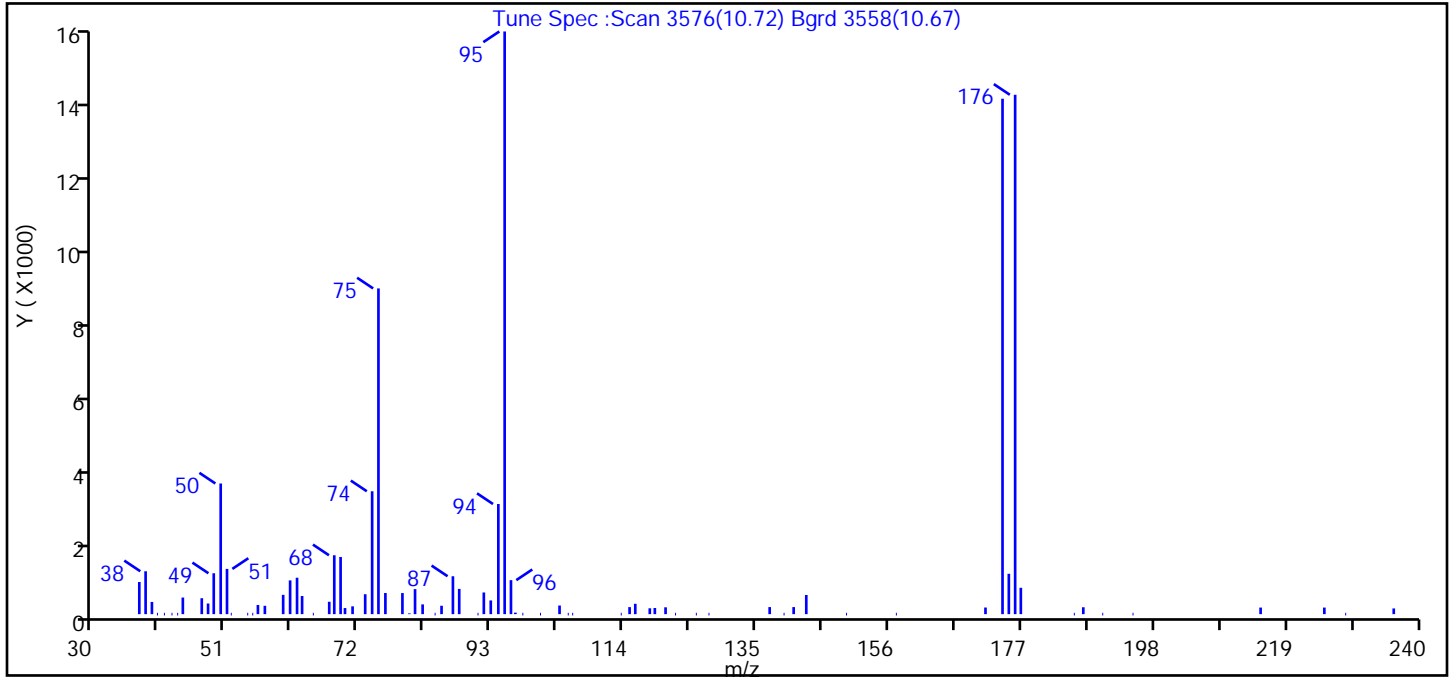
Dil. Factor: 1.0000

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Tune Method: BFB Method 8260

\$ 94 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	55.9
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	88.5
175	5 to 9% of m/z 174	6.9 (7.8)
176	Greater than 95% but less than 101% of m/z 174	89.1 (100.8)
177	5 to 9% of m/z 176	4.5 (5.1)

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\16b0119.D\8260s16_test.rslt\spectra.d
 Injection Date: 19-Jan-2022 08:31:30
 Spectrum: Tune Spec :Scan 3576(10.72) Bgrd 3558(10.67)
 Base Peak: 95.10
 Minimum % Base Peak: 0
 Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	869	62.00	985	91.00	0	127.00	0
38.00	1160	63.00	491	92.00	586	137.00	191
39.00	330	65.00	0	93.00	371	139.00	0
40.00	0	67.00	335	94.00	2979	141.00	191
41.00	0	68.00	1593	95.00	15761	143.00	518
42.00	0	69.00	1546	96.00	920	149.00	0
43.00	0	70.00	165	97.00	41	157.00	0
44.00	449	71.00	211	98.00	0	171.00	179
47.00	431	73.00	539	101.00	0	174.00	13942
48.00	288	74.00	3324	104.00	233	175.00	1092
49.00	1106	75.00	8811	105.00	0	176.00	14049
50.00	3534	76.00	572	106.00	0	177.00	713
51.00	1224	79.00	571	114.00	0	185.00	0
52.00	0	80.00	20	115.00	190	187.00	186
54.00	0	81.00	677	116.00	280	190.00	0
55.00	0	82.00	264	118.00	158	195.00	0
56.00	248	84.00	0	119.00	166	215.00	178
57.00	226	85.00	227	121.00	185	225.00	178
60.00	522	87.00	1025	122.00	0	228.00	0
61.00	913	88.00	682	125.00	0	236.00	154

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220119-83323.b\16b0119.D

Injection Date: 19-Jan-2022 08:31:30

Instrument ID: CMS16

Operator ID:

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 g

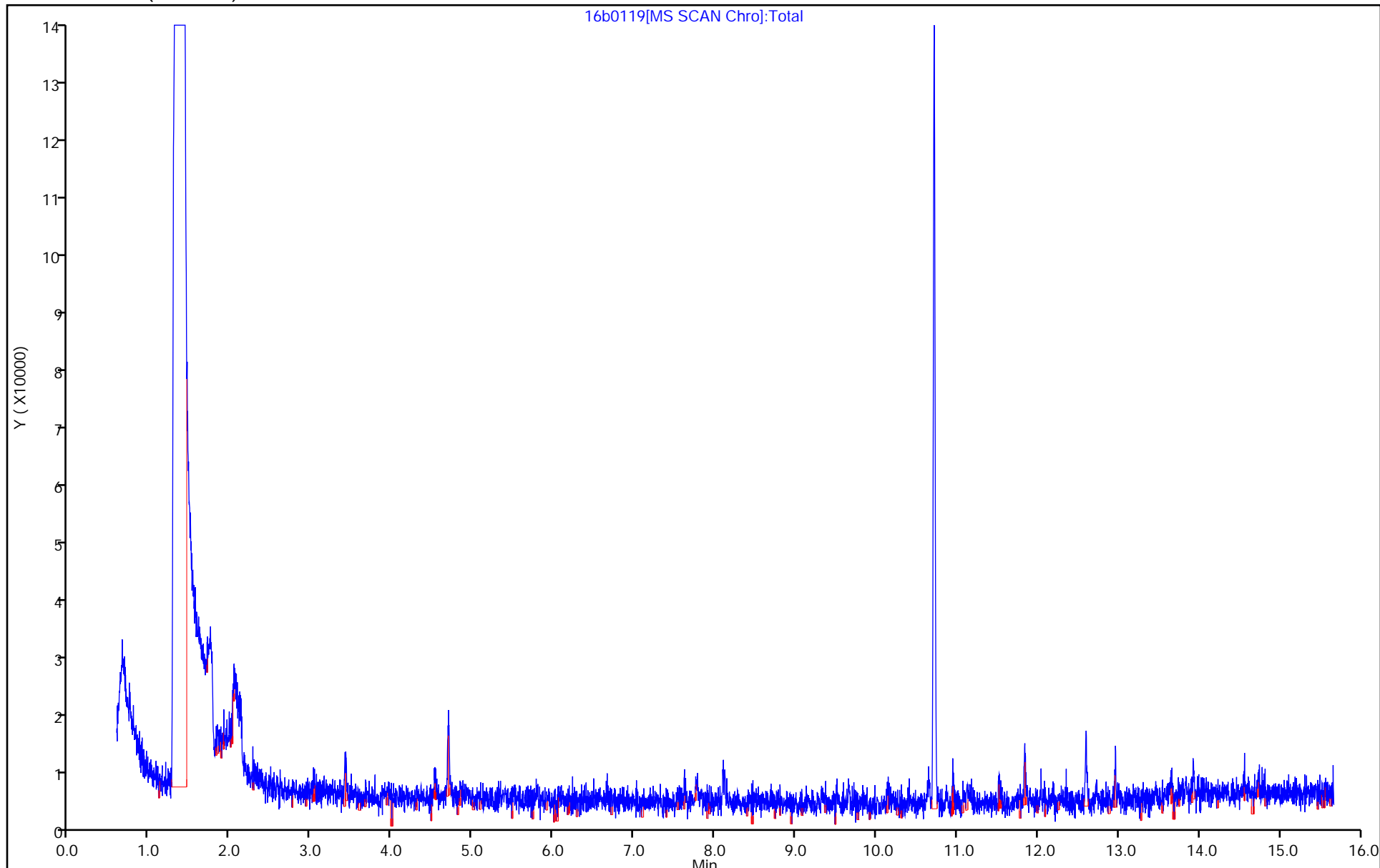
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16B0905.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 05-Sep-2022 11:01:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 g Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 500-0087999-001
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:57:15 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQP0 Date: 05-Sep-2022 11:21:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
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\$ 94 BFB	95	10.699	10.699	0.000	86	33214	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

BFB STD WK_00320 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16B0905.D

Injection Date: 05-Sep-2022 11:01:30

Instrument ID: CMS16

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

1

Worklist Smp#:

1

Injection Vol: 5.0 g

Dil. Factor:

1.0000

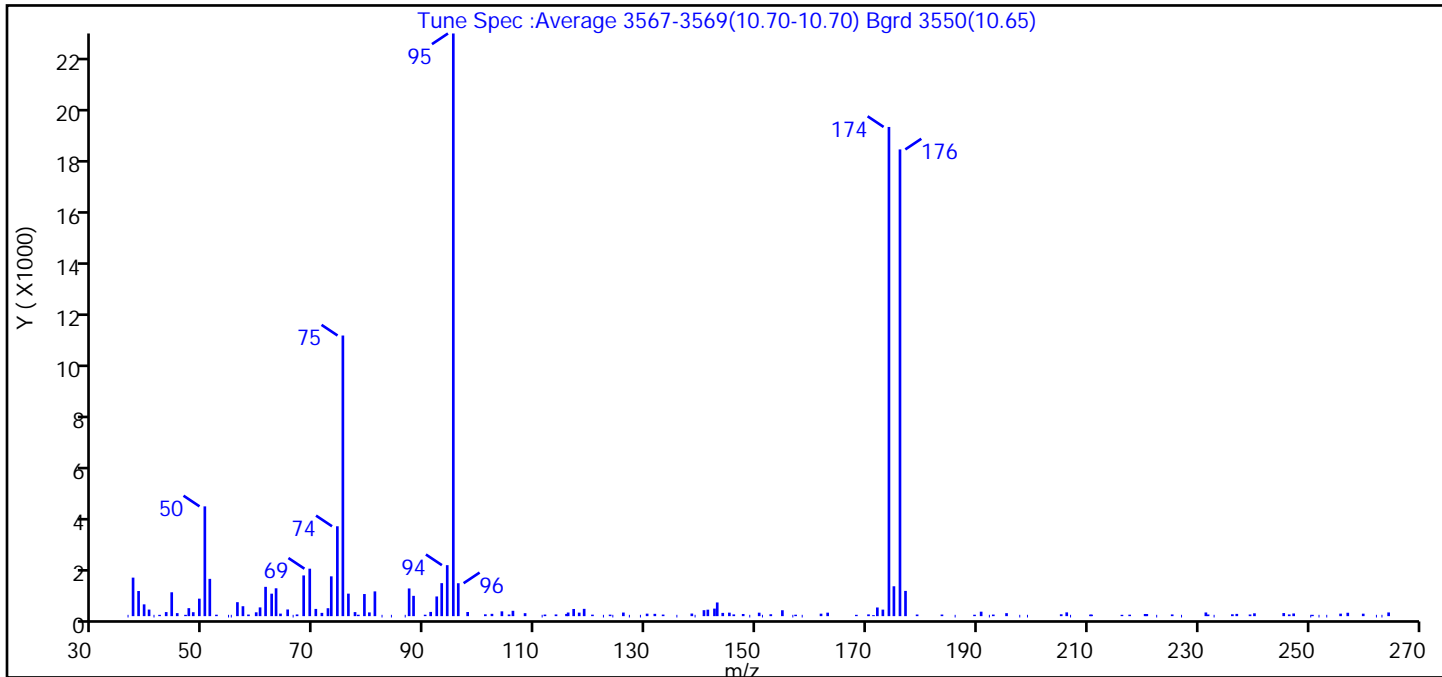
Method: 8260s16_test

Limit Group:

MSVOA_8260_ICAL_SOIL_LOW

Tune Method: BFB Method 8260

\$ 94 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	5.7
173	Less than 2% of m/z 174	1.1 (1.3)
174	50 to 120% of m/z 95	84.0
175	5 to 9% of m/z 174	5.1 (6.1)
176	Greater than 95% but less than 101% of m/z 174	80.1 (95.4)
177	5 to 9% of m/z 176	4.3 (5.4)

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16B0905.D\8260s16_test.rsl\spectra.d
Injection Date: 05-Sep-2022 11:01:30
Spectrum: Tune Spec :Average 3567-3569(10.70-10.70) Bgrd 3550(10.65)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	0	76.00	857	129.00	0	192.00	0
37.00	1467	77.00	154	130.00	95	193.00	60
38.00	957	78.00	54	132.00	88	195.00	114
39.00	449	79.00	842	133.00	60	198.00	0
40.00	250	80.00	142	136.00	0	199.00	0
41.00	0	81.00	943	138.00	99	205.00	71
42.00	50	82.00	0	139.00	0	206.00	144
43.00	155	84.00	0	140.00	227	207.00	0
44.00	909	86.00	0	141.00	246	210.00	59
45.00	115	87.00	1055	142.00	287	211.00	57
47.00	50	88.00	773	143.00	521	216.00	51
47.00	304	90.00	55	144.00	124	218.00	56
48.00	150	91.00	161	145.00	133	220.00	82
49.00	666	92.00	750	146.00	66	221.00	80
50.00	4181	93.00	1257	148.00	82	222.00	0
51.00	1420	94.00	1942	149.00	0	225.00	65
52.00	55	95.00	22192	150.00	132	227.00	0
54.00	0	96.00	1254	151.00	0	231.00	140
55.00	0	98.00	158	153.00	72	232.00	63
56.00	532	101.00	69	155.00	225	233.00	0
57.00	378	102.00	88	156.00	0	236.00	71
58.00	61	104.00	183	157.00	55	237.00	86
59.00	146	105.00	63	158.00	0	239.00	63
60.00	333	106.00	204	162.00	94	240.00	108
61.00	1116	108.00	113	163.00	133	246.00	117
62.00	856	111.00	0	168.00	51	246.00	65
63.00	1061	112.00	61	170.00	67	247.00	102
64.00	96	114.00	65	171.00	38	250.00	0
65.00	254	116.00	84	172.00	330	251.00	51
66.00	0	116.00	138	173.00	248	252.00	0
67.00	65	117.00	273	174.00	18632	253.00	0
68.00	1551	118.00	134	175.00	1138	256.00	95
69.00	1807	119.00	278	176.00	17776	257.00	129

Report Date: 06-Sep-2022 11:57:15

Chrom Revision: 2.3 30-Aug-2022 19:06:20

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16B0905.D\8260s16_test.rslt\spectra.d

Injection Date: 05-Sep-2022 11:01:30

Spectrum: Tune Spec :Average 3567-3569(10.70-10.70) Bgrd 3550(10.65)

Base Peak: 95.10

Minimum % Base Peak: 0

Number of Points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	275	120.00	57	177.00	962	260.00	94
71.00	125	122.00	0	179.00	62	262.00	0
72.00	302	124.00	58	184.00	61	263.00	0
73.00	1516	124.00	0	186.00	0	264.00	141
74.00	3423	126.00	137	190.00	54		
75.00	10688	127.00	0	191.00	170		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16B0905.D

Injection Date: 05-Sep-2022 11:01:30

Instrument ID: CMS16

Operator ID:

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 g

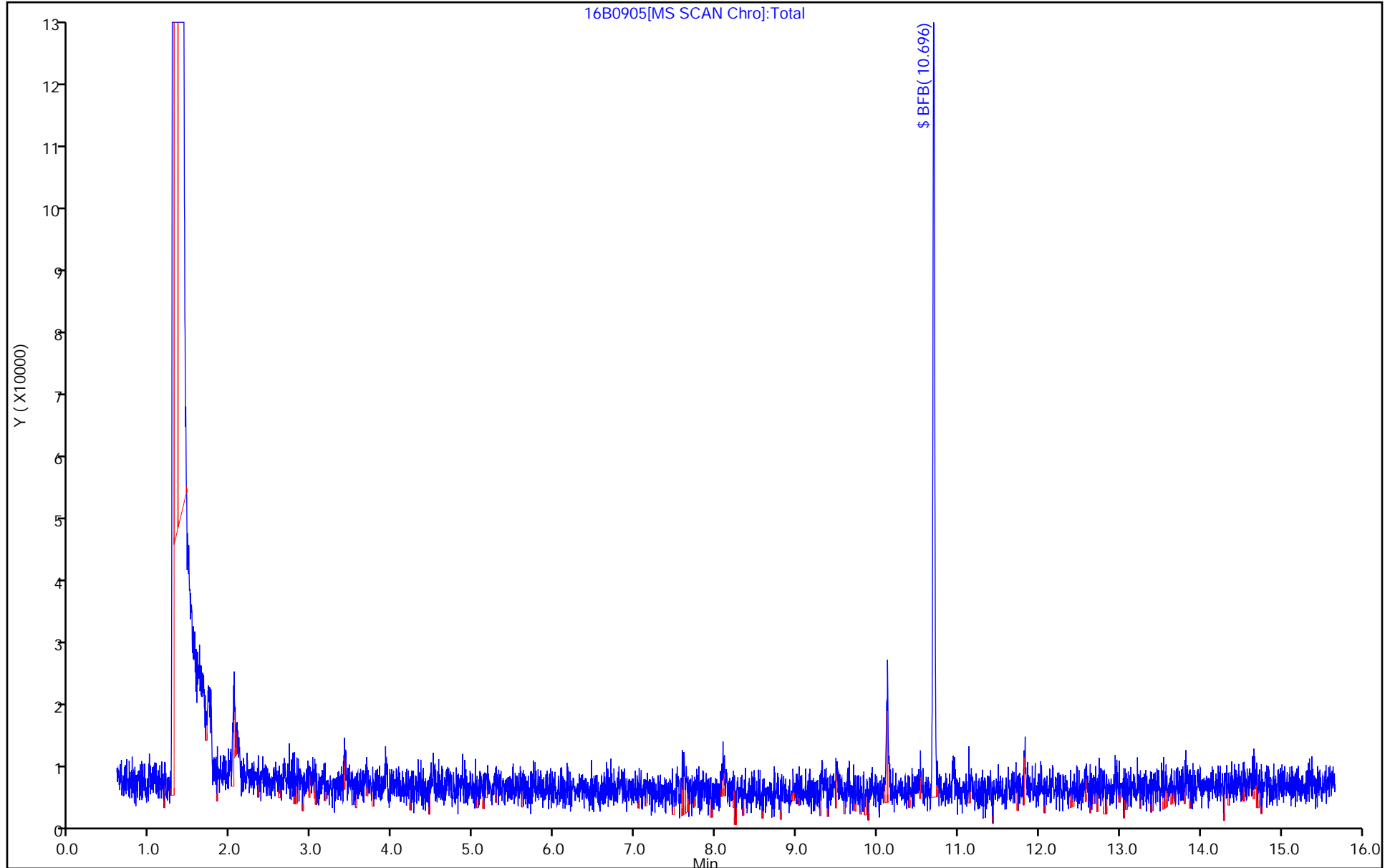
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\19b0729.d
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 29-Jul-2022 09:10:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 500-0087271-002
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 01-Aug-2022 13:10:57 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1615

First Level Reviewer: BQP0 Date: 01-Aug-2022 13:10:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 93 BFB	95	10.877	10.877	0.000	91	28280	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

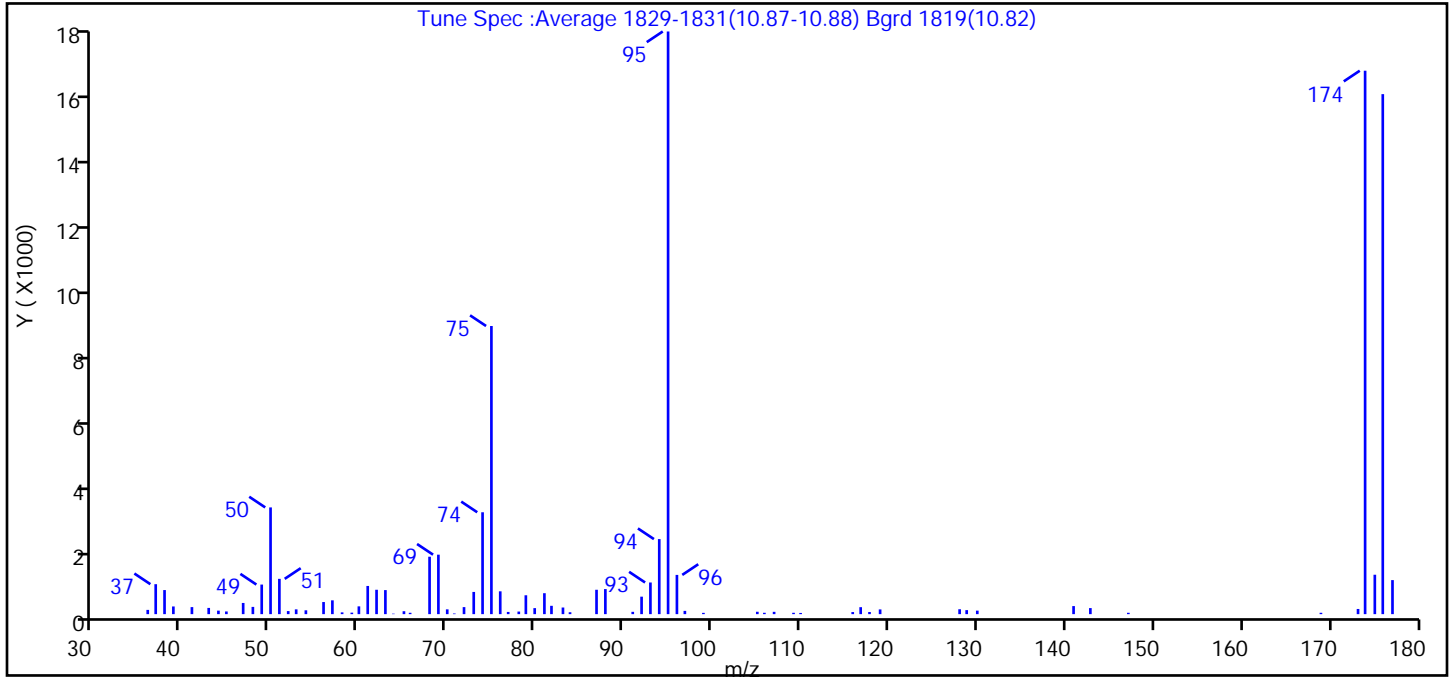
Reagents:

BFB STD WK_00317 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\19b0729.d
 Injection Date: 29-Jul-2022 09:10:30 Instrument ID: CMS19
 Lims ID: BFB
 Client ID:
 Operator ID: EA ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.3
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	93.3
175	5 to 9% of m/z 174	6.8 (7.3)
176	Greater than 95% but less than 101% of m/z 174	89.2 (95.7)
177	5 to 9% of m/z 176	5.8 (6.5)

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\19b0729.d\8260W19cps.rsl\spectra.d
 Injection Date: 29-Jul-2022 09:10:30
 Spectrum: Tune Spec :Average 1829-1831(10.87-10.88) Bgrd 1819(10.82)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	125	59.00	44	79.00	555	109.00	40
37.00	881	60.00	229	80.00	177	110.00	35
38.00	708	61.00	829	81.00	616	116.00	61
39.00	226	62.00	717	82.00	245	117.00	205
41.00	207	63.00	707	83.00	195	118.00	63
43.00	183	64.00	14	84.00	56	119.00	139
44.00	103	65.00	86	87.00	717	128.00	144
45.00	79	66.00	40	88.00	737	129.00	118
47.00	329	68.00	1689	91.00	68	130.00	103
48.00	213	69.00	1749	92.00	514	141.00	237
49.00	870	70.00	141	93.00	931	143.00	178
50.00	3139	71.00	19	94.00	2207	147.00	40
51.00	1038	72.00	207	95.00	17136	169.00	40
52.00	90	73.00	653	96.00	1154	173.00	152
53.00	141	74.00	2996	97.00	96	174.00	15982
54.00	113	75.00	8474	99.00	38	175.00	1159
56.00	356	76.00	671	105.00	70	176.00	15293
57.00	406	77.00	65	106.00	40	177.00	1001
58.00	52	78.00	76	107.00	68		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\19b0729.d

Injection Date: 29-Jul-2022 09:10:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: BFB

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 mL

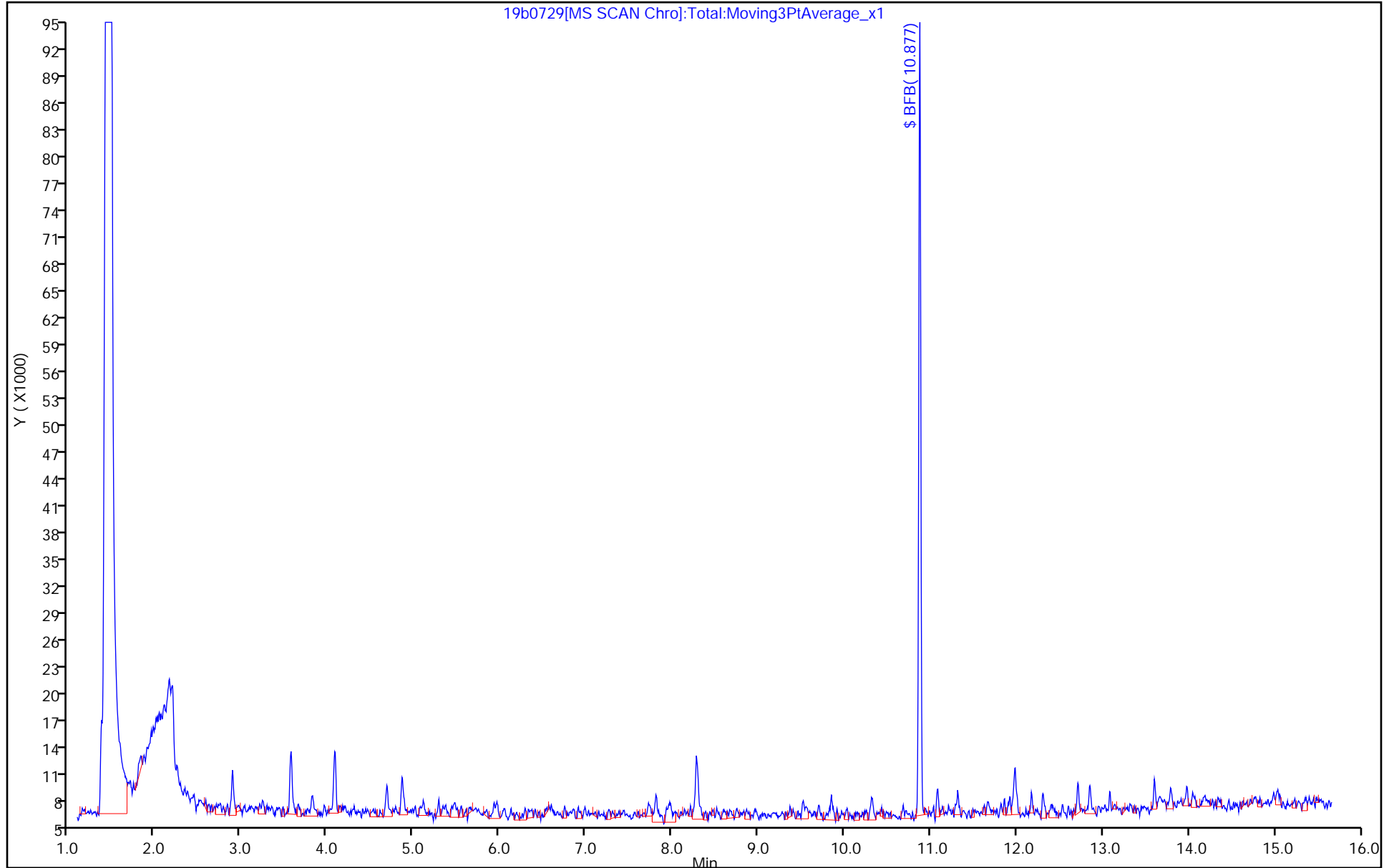
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\19c0801.d
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Aug-2022 07:38:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 500-0087307-001
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 02-Aug-2022 10:50:47 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1608

First Level Reviewer: BQP0 Date: 01-Aug-2022 13:18:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 93 BFB	95	10.877	10.877	0.000	95	27707	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

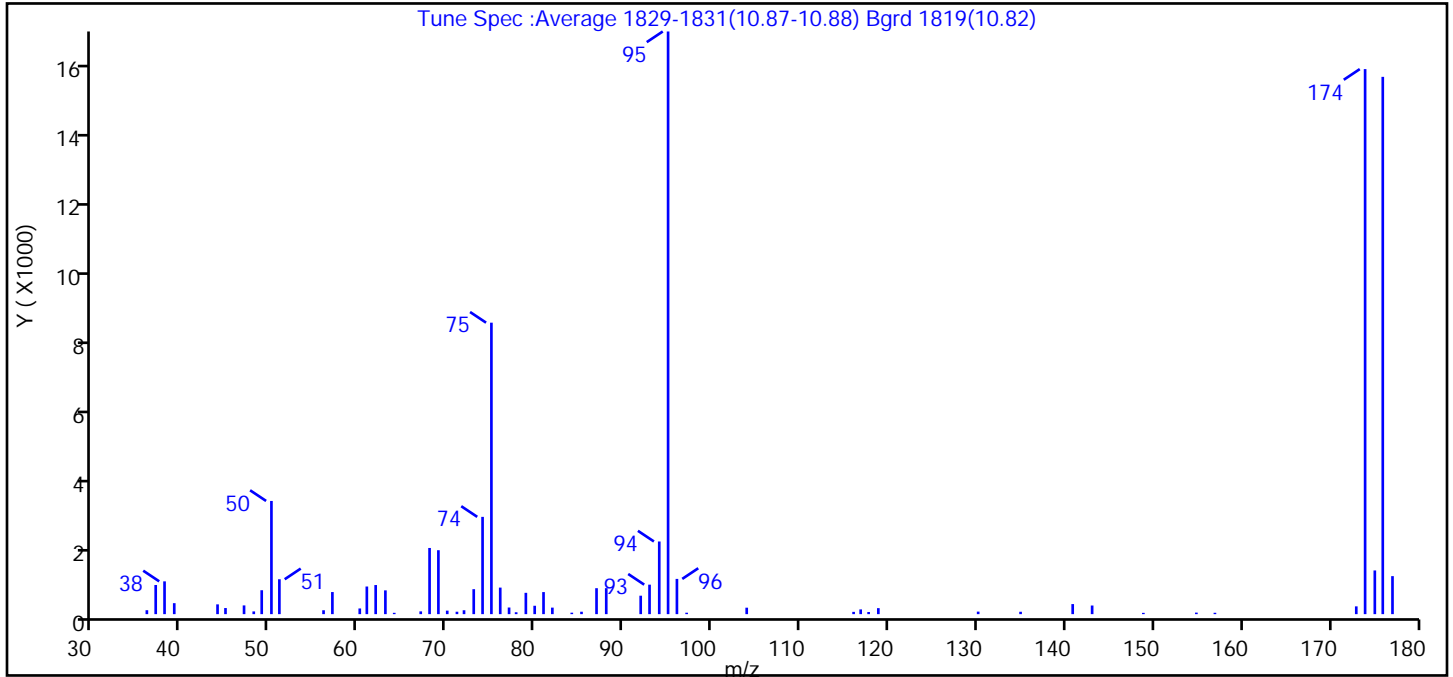
Reagents:

BFB STD WK_00317 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\19c0801.d
 Injection Date: 01-Aug-2022 07:38:30 Instrument ID: CMS19
 Lims ID: BFB
 Client ID:
 Operator ID: EA ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W19cps Limit Group: MSVOA_8260_ICAL_WATER
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	1.3 (1.4)
174	50 to 120% of m/z 95	93.5
175	5 to 9% of m/z 174	7.5 (8.0)
176	Greater than 95% but less than 101% of m/z 174	92.2 (98.6)
177	5 to 9% of m/z 176	6.5 (7.1)

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\19c0801.d\8260W19cps.rsl\spectra.d
 Injection Date: 01-Aug-2022 07:38:30
 Spectrum: Tune Spec :Average 1829-1831(10.87-10.88) Bgrd 1819(10.82)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	112	63.00	678	81.00	629	119.00	171
37.00	831	64.00	38	82.00	186	130.00	72
38.00	935	67.00	79	84.00	42	135.00	68
39.00	313	68.00	1887	85.00	69	141.00	287
44.00	279	69.00	1823	87.00	740	143.00	246
45.00	174	70.00	100	88.00	741	149.00	37
47.00	249	71.00	69	92.00	526	155.00	44
48.00	78	72.00	111	93.00	841	157.00	39
49.00	682	73.00	712	94.00	2072	173.00	222
50.00	3228	74.00	2774	95.00	16616	174.00	15543
51.00	995	75.00	8312	96.00	1005	175.00	1246
56.00	111	76.00	757	97.00	41	176.00	15322
57.00	630	77.00	189	104.00	184	177.00	1084
60.00	162	78.00	54	116.00	65		
61.00	788	79.00	608	117.00	135		
62.00	830	80.00	239	118.00	61		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220801-87307.b\19c0801.d

Injection Date: 01-Aug-2022 07:38:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

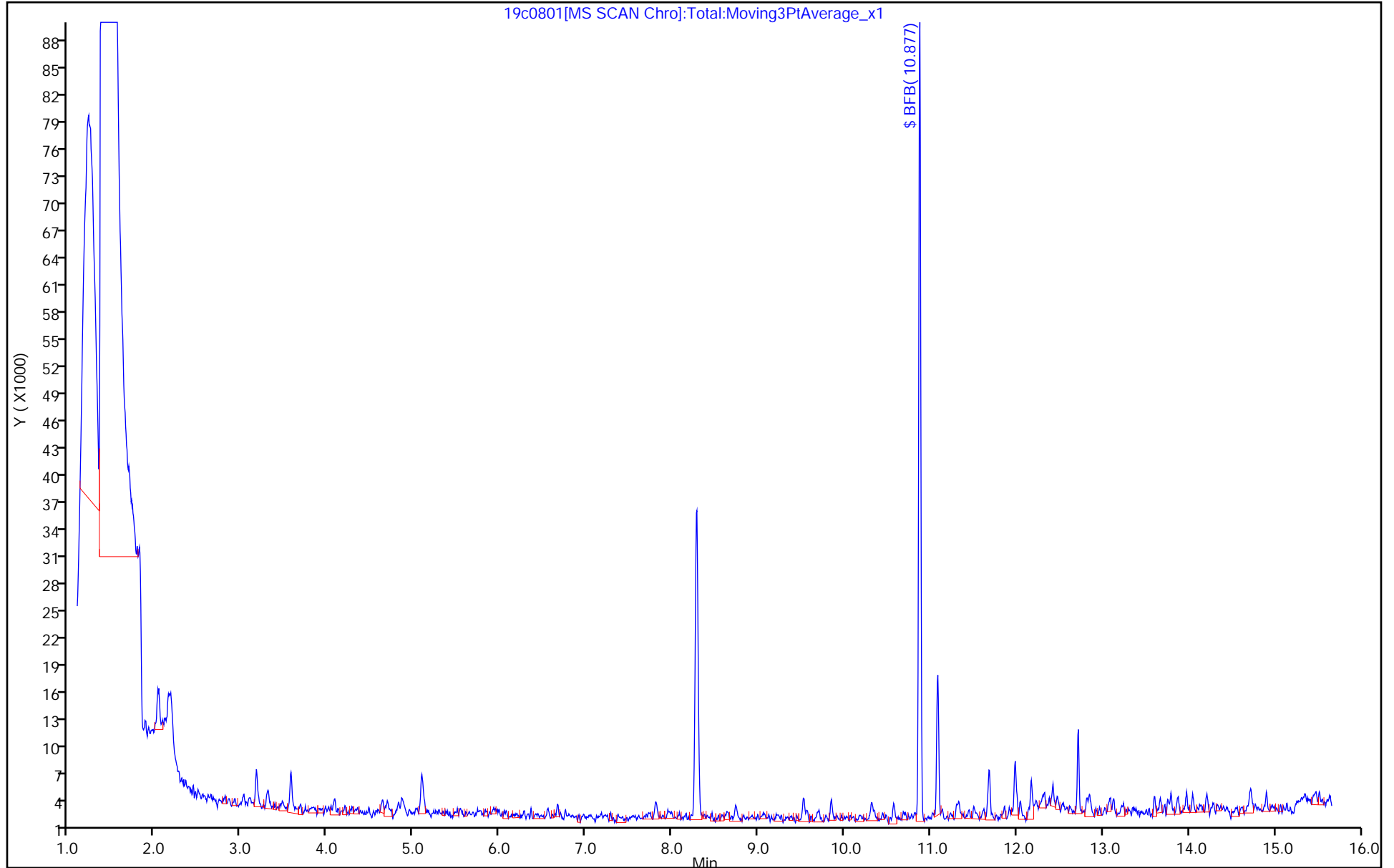
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19C0909.d
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-Sep-2022 10:15:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 500-0088095-001
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 10:38:46 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1667

First Level Reviewer: QRE8 Date: 09-Sep-2022 10:38:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 93 BFB	95	10.877	10.877	0.000	89	38080	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB STD WK_00321 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19C0909.d

Injection Date: 09-Sep-2022 10:15:30

Instrument ID: CMS19

Lims ID: BFB

Client ID:

Operator ID: EA

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

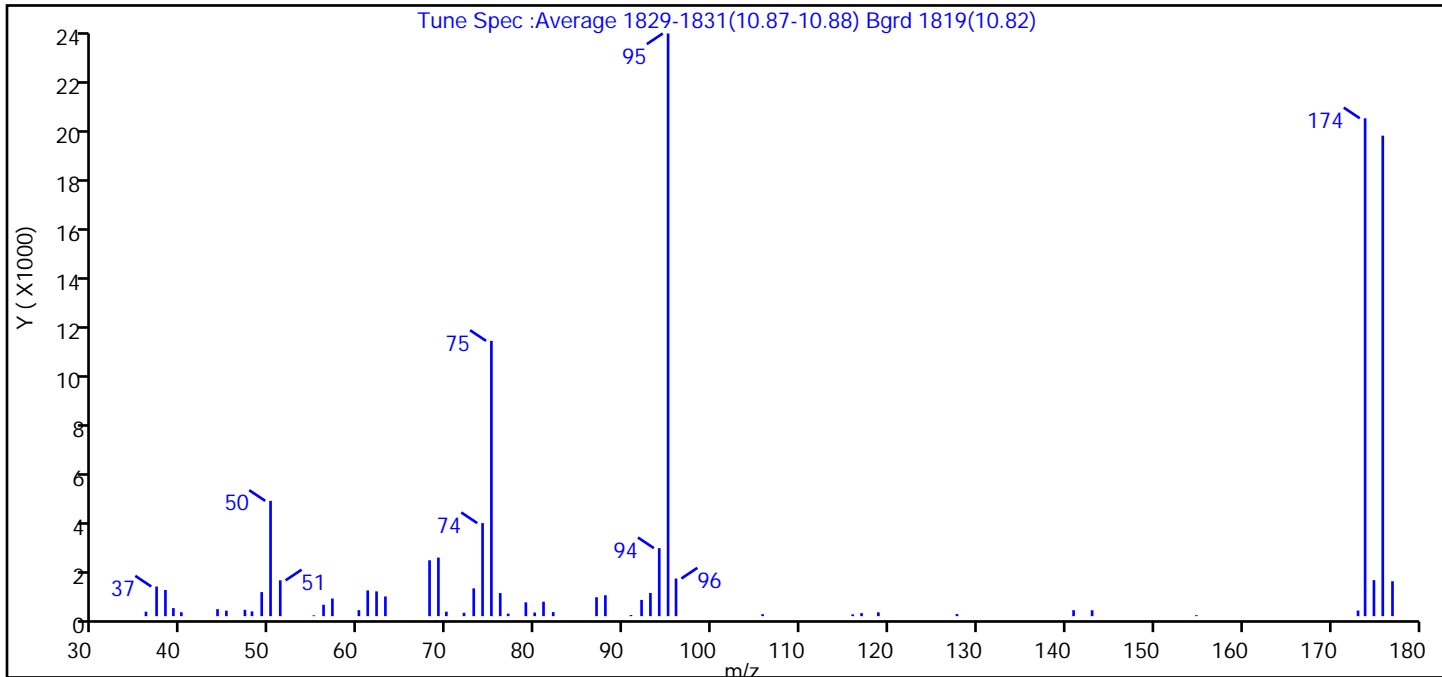
Method: 8260W19cps

Limit Group:

MSVOA_8260_ICAL_WATER

Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.8
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.0 (1.1)
174	50 to 120% of m/z 95	85.4
175	5 to 9% of m/z 174	6.2 (7.2)
176	Greater than 95% but less than 101% of m/z 174	82.5 (96.5)
177	5 to 9% of m/z 176	6.0 (7.3)

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19C0909.d\8260W19cps.rsl\spectra.d
Injection Date: 09-Sep-2022 10:15:30
Spectrum: Tune Spec :Average 1829-1831(10.87-10.88) Bgrd 1819(10.82)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	182	57.00	714	79.00	561	117.00	121
37.00	1202	60.00	244	80.00	145	119.00	155
38.00	1060	61.00	1043	81.00	585	128.00	83
39.00	325	62.00	1005	82.00	163	141.00	242
40.00	159	63.00	798	87.00	767	143.00	239
44.00	284	68.00	2266	88.00	847	155.00	39
45.00	222	69.00	2374	91.00	45	173.00	228
47.00	257	70.00	181	92.00	659	174.00	20192
48.00	193	72.00	136	93.00	939	175.00	1460
49.00	975	73.00	1126	94.00	2757	176.00	19488
50.00	4676	74.00	3773	95.00	23632	177.00	1416
51.00	1452	75.00	11164	96.00	1525		
55.00	33	76.00	935	106.00	79		
56.00	463	77.00	103	116.00	73		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19C0909.d

Injection Date: 09-Sep-2022 10:15:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

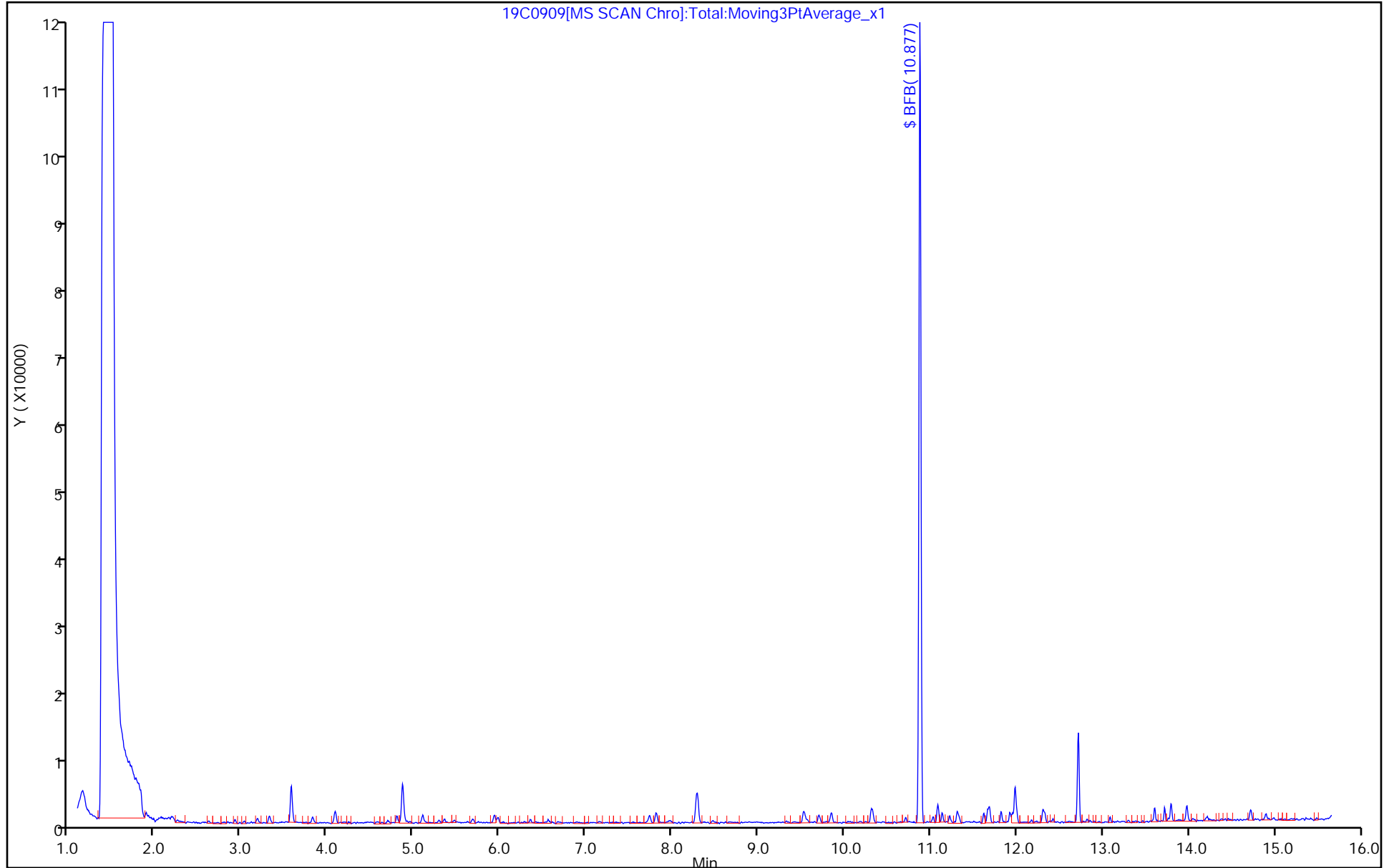
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\29B0514.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 14-May-2022 08:53:24 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 500-0085710-002
 Operator ID: EA Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 09:25:38 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: ficarellop Date: 17-May-2022 09:25:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 93 BFB	95	10.694	10.694	0.000	93	29885	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

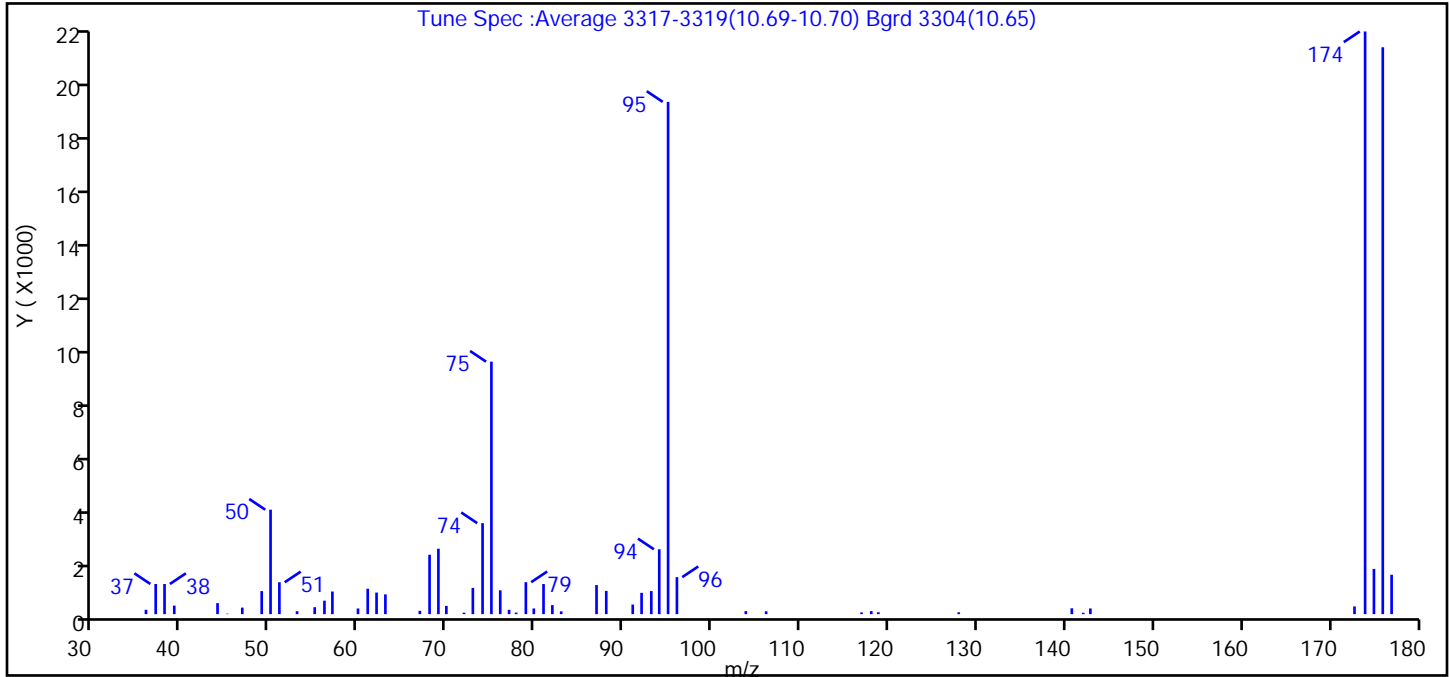
Reagents:

BFB STD WK_00307 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\29B0514.D
 Injection Date: 14-May-2022 08:53:24 Instrument ID: CMS29
 Lims ID: BFB
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.4
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.5 (1.3)
174	50 to 120% of m/z 95	113.7
175	5 to 9% of m/z 174	8.8 (7.8)
176	Greater than 95% but less than 101% of m/z 174	110.7 (97.3)
177	5 to 9% of m/z 176	7.7 (6.9)

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\29B0514.D\8260W29cps.rslt\spectra.d
Injection Date: 14-May-2022 08:53:24
Spectrum: Tune Spec :Average 3317-3319(10.69-10.70) Bgrd 3304(10.65)
Base Peak: 173.90
Minimum % Base Peak: 0
Number of Points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	164	60.00	212	78.00	58	104.00	112
37.00	1131	61.00	954	79.00	1199	106.00	108
38.00	1130	62.00	809	80.00	212	117.00	64
39.00	320	63.00	741	81.00	1130	118.00	114
44.00	414	67.00	125	82.00	338	119.00	72
45.00	17	68.00	2227	83.00	106	128.00	68
47.00	245	69.00	2453	87.00	1091	141.00	219
49.00	864	70.00	309	88.00	871	142.00	52
50.00	3918	72.00	56	91.00	359	143.00	213
51.00	1195	73.00	983	92.00	799	173.00	289
53.00	110	74.00	3412	93.00	866	174.00	21848
55.00	260	75.00	9468	94.00	2432	175.00	1697
56.00	505	76.00	894	95.00	19208	176.00	21256
57.00	849	77.00	163	96.00	1388	177.00	1477

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\29B0514.D

Injection Date: 14-May-2022 08:53:24

Instrument ID: CMS29

Operator ID: EA

Lims ID: BFB

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 mL

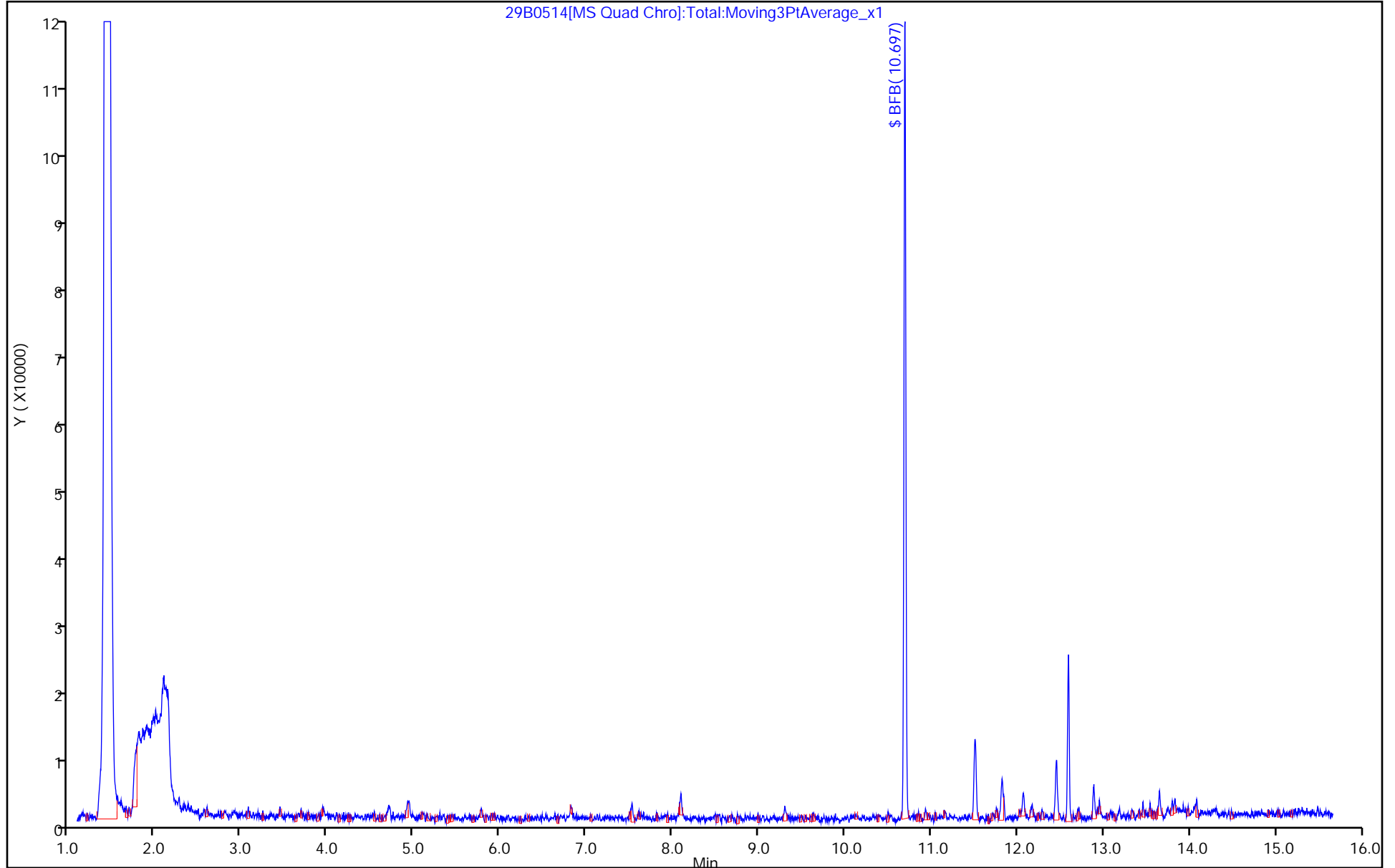
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\29B0516.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 16-May-2022 08:47:17 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 500-0085734-001
 Operator ID: EA Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 17-May-2022 10:45:52 Calib Date: 14-May-2022 16:38:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220514-85710.b\STD010AP0514.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1672

First Level Reviewer: perezp Date: 17-May-2022 10:45:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 93 BFB	95	10.697	10.697	0.000	89	25541	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

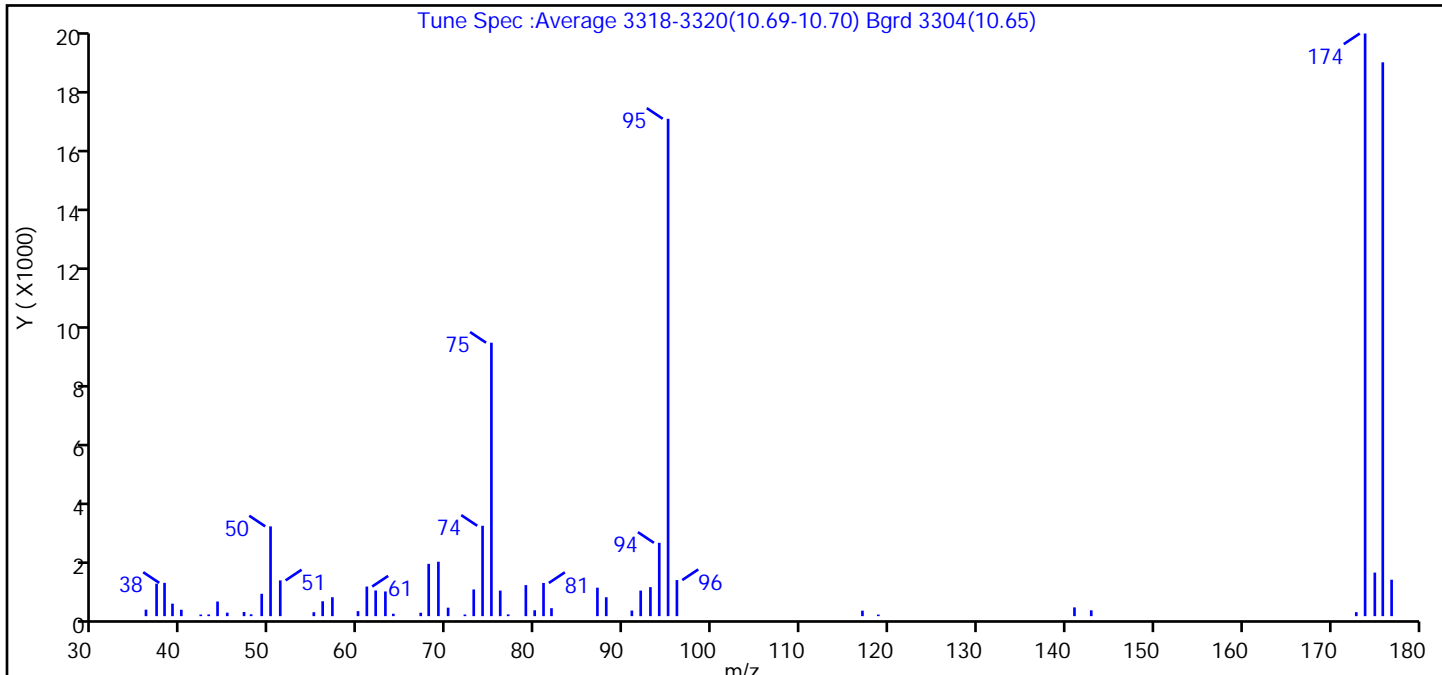
Reagents:

BFB STD WK_00307 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\29B0516.D
 Injection Date: 16-May-2022 08:47:17 Instrument ID: CMS29
 Lims ID: BFB
 Client ID:
 Operator ID: EA ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	55.0
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.8 (0.7)
174	50 to 120% of m/z 95	117.1
175	5 to 9% of m/z 174	8.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	111.4 (95.1)
177	5 to 9% of m/z 176	7.3 (6.6)

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\29B0516.D\8260W29cps.rslt\spectra.d
 Injection Date: 16-May-2022 08:47:17
 Spectrum: Tune Spec :Average 3318-3320(10.69-10.70) Bgrd 3304(10.65)
 Base Peak: 173.90
 Minimum % Base Peak: 0
 Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	216	55.00	132	74.00	3009	95.00	16560
37.00	1081	56.00	496	75.00	9104	96.00	1201
38.00	1108	57.00	630	76.00	851	117.00	182
39.00	416	60.00	167	77.00	58	119.00	52
40.00	213	61.00	985	79.00	1033	141.00	291
42.00	53	62.00	855	80.00	196	143.00	194
43.00	57	63.00	822	81.00	1104	173.00	133
44.00	487	64.00	80	82.00	265	174.00	19400
45.00	116	67.00	113	87.00	948	175.00	1450
47.00	139	68.00	1741	88.00	630	176.00	18440
48.00	61	69.00	1812	91.00	186	177.00	1213
49.00	744	70.00	282	92.00	851		
50.00	2989	72.00	55	93.00	966		
51.00	1190	73.00	889	94.00	2441		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220516-85734.b\29B0516.D

Injection Date: 16-May-2022 08:47:17

Instrument ID: CMS29

Operator ID: EA

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

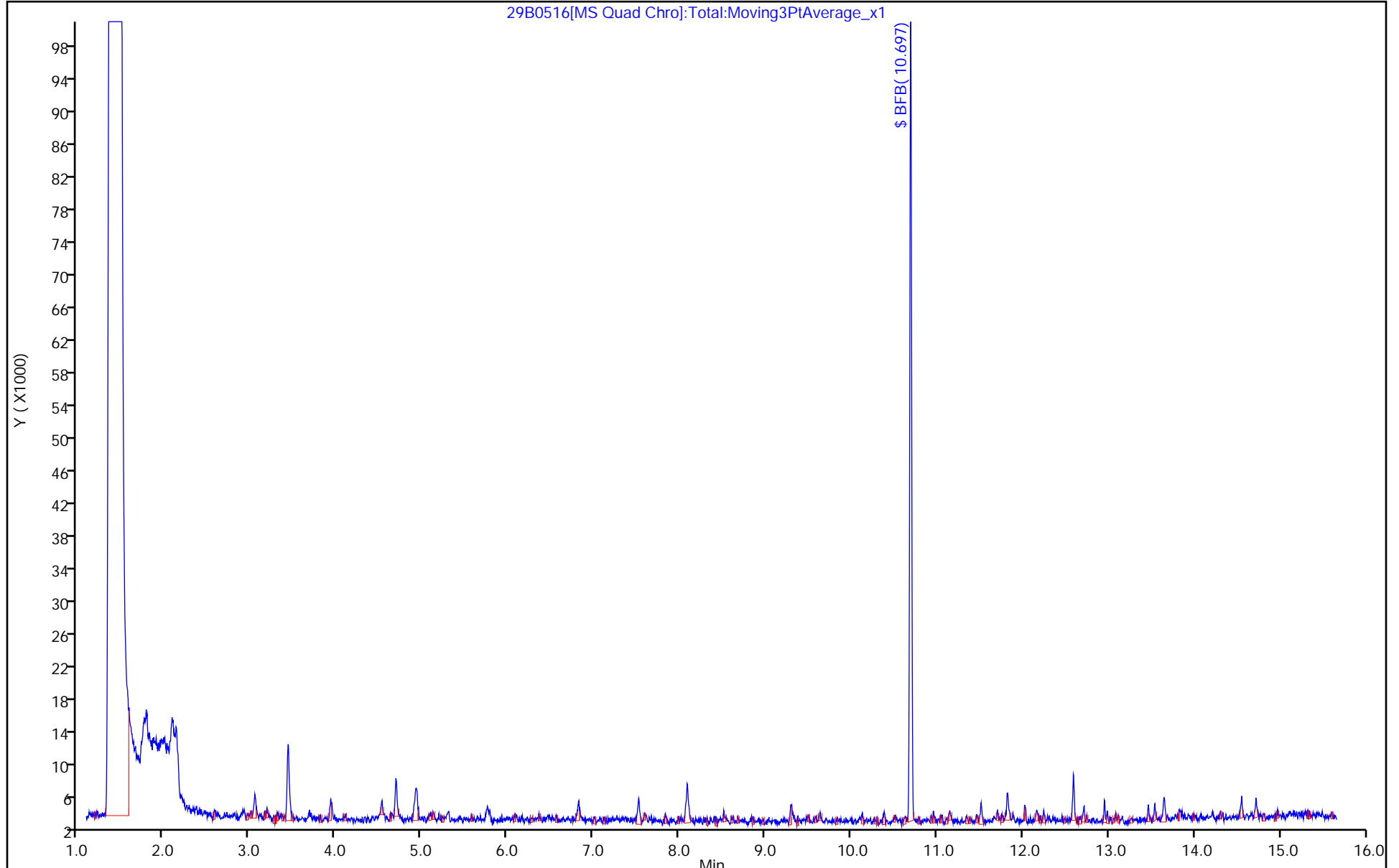
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\29B0628A.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Jun-2022 08:10:20 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 28-Jun-2022 19:57:20 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1649

First Level Reviewer: BQPO Date: 28-Jun-2022 19:57:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 93 BFB	95	10.697	10.697	0.000	90	30356	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

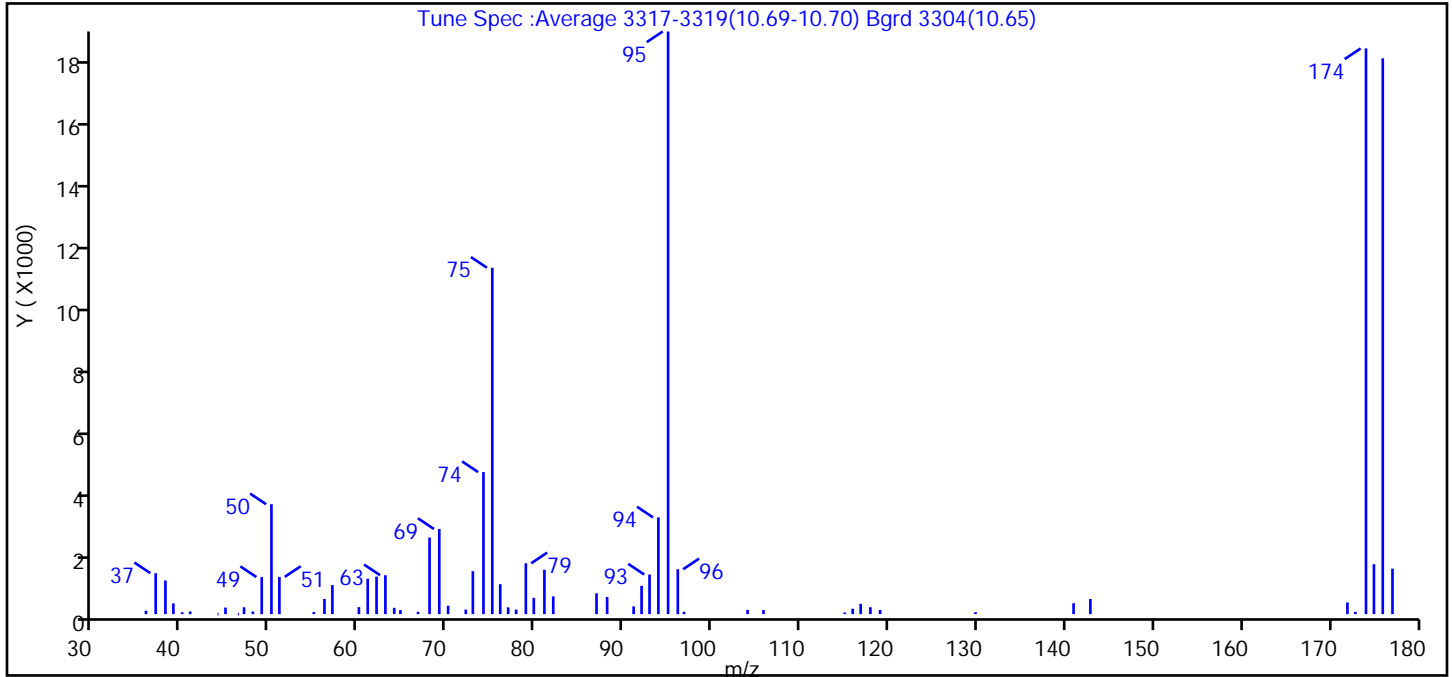
Reagents:

BFB STD WK_00314 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\29B0628A.D
 Injection Date: 28-Jun-2022 08:10:20 Instrument ID: CMS29
 Lims ID: BFB
 Client ID:
 Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.9
75	30 to 60% of m/z 95	59.5
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	97.1
175	5 to 9% of m/z 174	8.6 (8.8)
176	Greater than 95% but less than 101% of m/z 174	95.4 (98.3)
177	5 to 9% of m/z 176	7.8 (8.2)

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\29B0628A.D\8260W29cps.rslt\spectra.d
 Injection Date: 28-Jun-2022 08:10:20
 Spectrum: Tune Spec :Average 3317-3319(10.69-10.70) Bgrd 3304(10.65)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	107	57.00	918	77.00	214	106.00	130
37.00	1294	60.00	221	78.00	145	115.00	52
38.00	1063	61.00	1120	79.00	1607	116.00	171
39.00	339	62.00	1187	80.00	516	117.00	326
40.00	59	63.00	1230	81.00	1403	118.00	219
41.00	85	64.00	200	82.00	560	119.00	132
44.00	0	65.00	129	87.00	659	130.00	63
45.00	208	67.00	76	88.00	541	141.00	344
46.00	0	68.00	2421	91.00	245	143.00	479
47.00	217	69.00	2690	92.00	894	172.00	368
48.00	84	70.00	265	93.00	1252	173.00	71
49.00	1172	72.00	144	94.00	3056	174.00	17872
50.00	3472	73.00	1357	95.00	18408	175.00	1577
51.00	1177	74.00	4488	96.00	1419	176.00	17560
55.00	67	75.00	10944	97.00	76	177.00	1437
56.00	480	76.00	947	104.00	136		

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\29B0628A.D

Injection Date: 28-Jun-2022 08:10:20

Instrument ID: CMS29

Operator ID: PF

Lims ID: BFB

Worklist Smp#: 15

Client ID:

Injection Vol: 5.0 mL

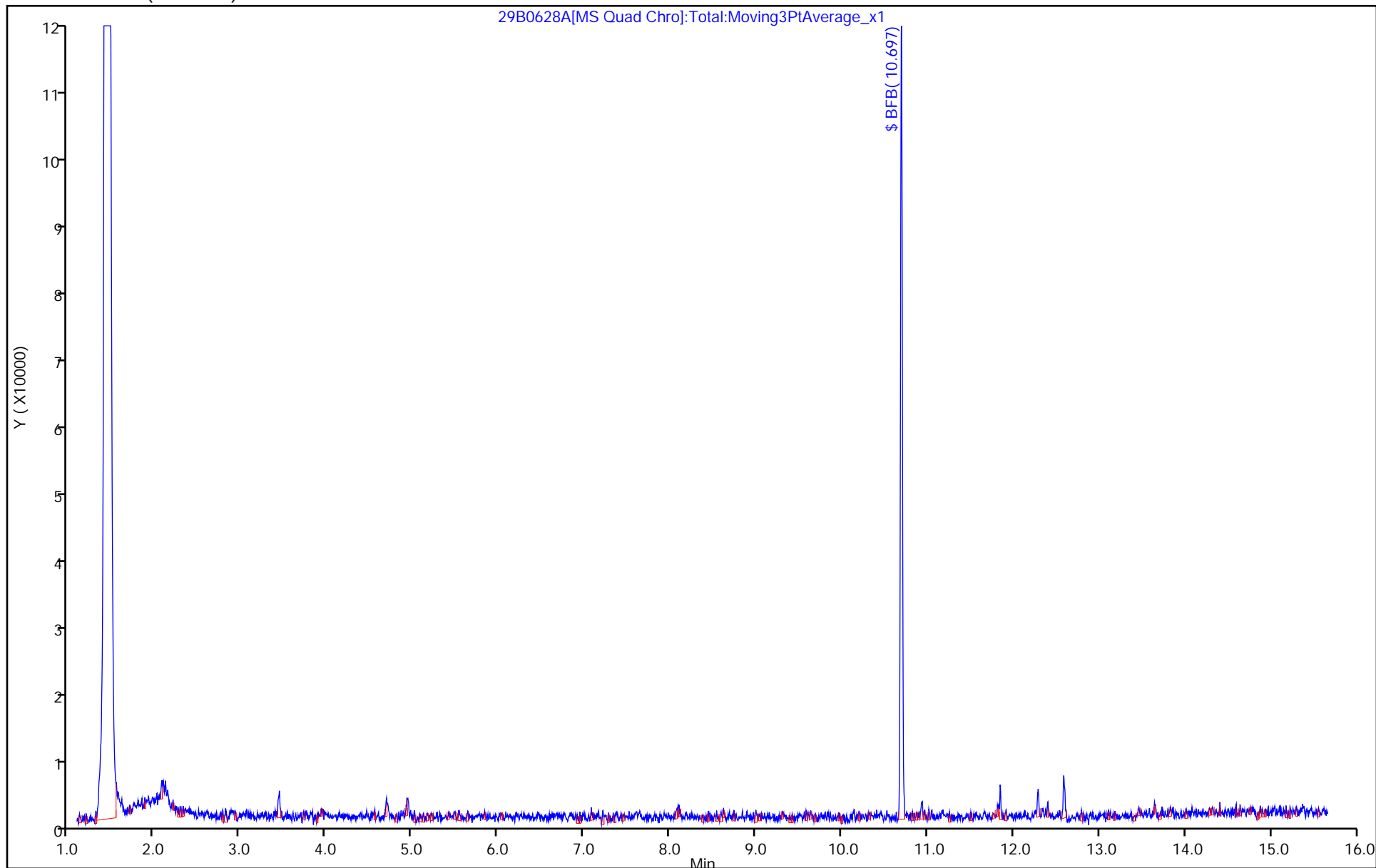
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29B0908.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 08-Sep-2022 07:50:39 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 500-0088058-001
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 08:09:11 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1663

First Level Reviewer: BQP0 Date: 08-Sep-2022 08:09:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 93 BFB 95 10.694 10.694 0.000 93 44028 NR NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

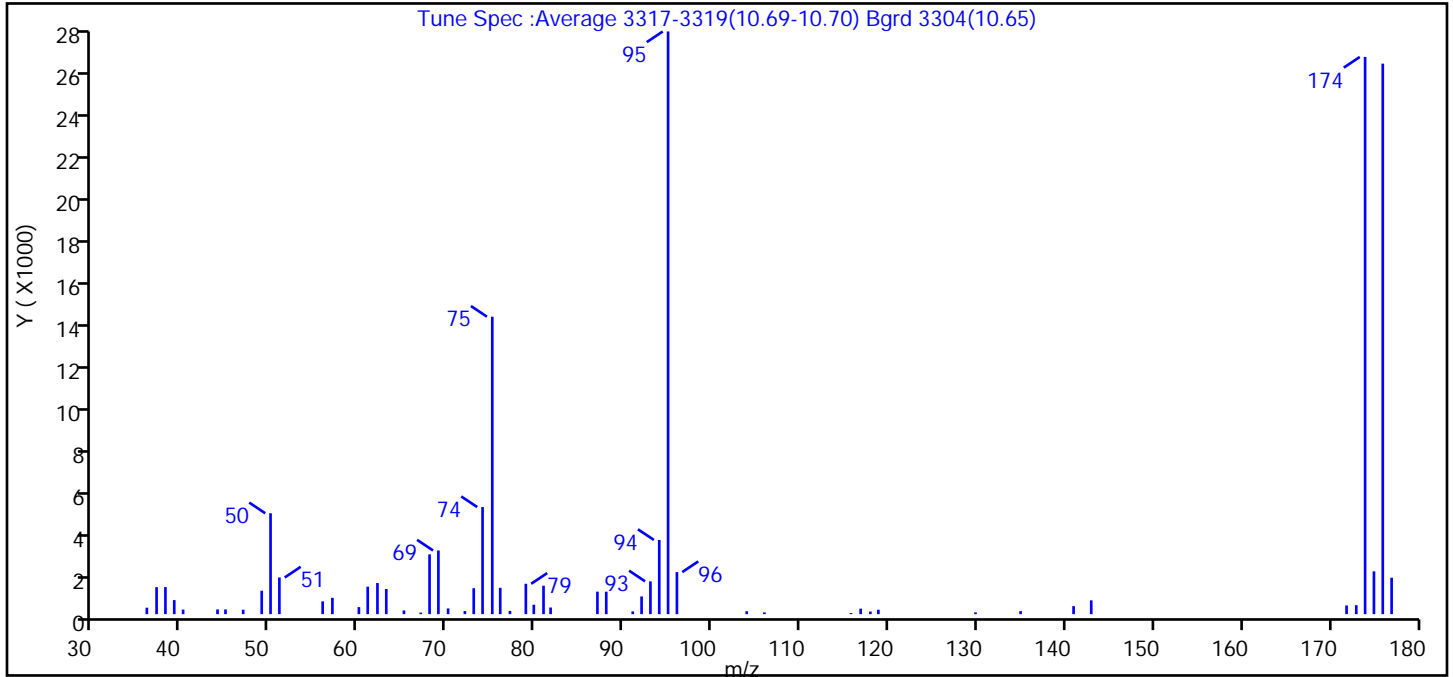
Reagents:

BFB STD WK_00321 Amount Added: 2.00 Units: uL

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29B0908.D
 Injection Date: 08-Sep-2022 07:50:39 Instrument ID: CMS29
 Lims ID: BFB
 Client ID:
 Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Tune Method: BFB Method 8260

\$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	51.0
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.5 (1.6)
174	50 to 120% of m/z 95	95.6
175	5 to 9% of m/z 174	7.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	94.5 (98.8)
177	5 to 9% of m/z 176	6.3 (6.6)

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29B0908.D\8260W29cps.rslt\spectra.d
Injection Date: 08-Sep-2022 07:50:39
Spectrum: Tune Spec :Average 3317-3319(10.69-10.70) Bgrd 3304(10.65)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	309	61.00	1318	79.00	1458	116.00	53
37.00	1296	62.00	1492	80.00	452	117.00	264
38.00	1298	63.00	1207	81.00	1366	118.00	125
39.00	674	65.00	179	82.00	318	119.00	212
40.00	219	67.00	73	87.00	1079	130.00	84
44.00	226	68.00	2869	88.00	1078	135.00	145
45.00	226	69.00	3055	91.00	133	141.00	385
47.00	214	70.00	274	92.00	849	143.00	661
49.00	1123	72.00	150	93.00	1575	172.00	416
50.00	4843	73.00	1245	94.00	3561	173.00	430
51.00	1760	74.00	5139	95.00	27968	174.00	26744
56.00	615	75.00	14277	96.00	2019	175.00	2054
57.00	784	76.00	1263	104.00	139	176.00	26424
60.00	337	77.00	156	106.00	83	177.00	1749

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29B0908.D

Injection Date: 08-Sep-2022 07:50:39

Instrument ID: CMS29

Operator ID: PF

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

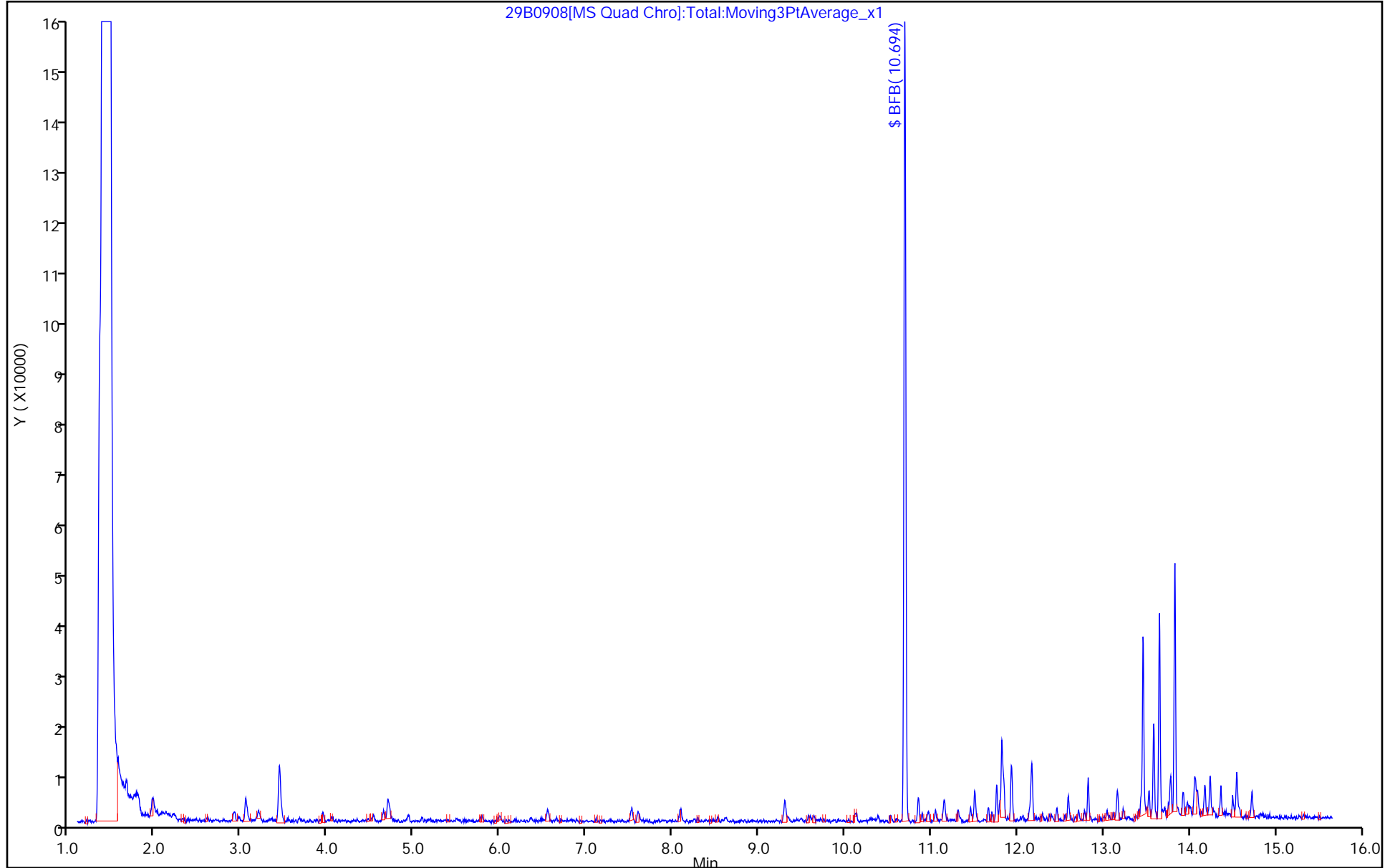
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673135/6
 Matrix: Solid Lab File ID: 16M0905.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 09/05/2022 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	<0.020		0.020	
71-43-2	Benzene	<0.0020		0.0020	
75-25-2	Bromoform	<0.0020		0.0020	
74-83-9	Bromomethane	<0.0050		0.0050	
78-93-3	2-Butanone (MEK)	<0.0050		0.0050	
75-15-0	Carbon disulfide	<0.0050		0.0050	
56-23-5	Carbon tetrachloride	<0.0020		0.0020	
108-90-7	Chlorobenzene	<0.0020		0.0020	
124-48-1	Chlorodibromomethane	<0.0020		0.0020	
75-00-3	Chloroethane	<0.0050		0.0050	
67-66-3	Chloroform	<0.0020		0.0020	
74-87-3	Chloromethane	<0.0050		0.0050	
156-59-2	cis-1,2-Dichloroethene	<0.0020		0.0020	
10061-01-5	cis-1,3-Dichloropropene	<0.0020		0.0020	
110-82-7	Cyclohexane	<0.0020		0.0020	
75-27-4	Dichlorobromomethane	<0.0020		0.0020	
75-34-3	1,1-Dichloroethane	<0.0020		0.0020	
107-06-2	1,2-Dichloroethane	<0.0050		0.0050	
75-35-4	1,1-Dichloroethene	<0.0020		0.0020	
78-87-5	1,2-Dichloropropane	<0.0020		0.0020	
123-91-1	1,4-Dioxane	<0.10		0.10	
100-41-4	Ethylbenzene	<0.0020		0.0020	
106-93-4	Ethylene Dibromide	<0.0020		0.0020	
591-78-6	2-Hexanone	<0.0050		0.0050	
98-82-8	Isopropylbenzene	<0.0020		0.0020	
79-20-9	Methyl acetate	<0.025		0.025	
108-87-2	Methylcyclohexane	<0.0020		0.0020	
75-09-2	Methylene Chloride	<0.0050		0.0050	
108-10-1	methyl isobutyl ketone	<0.0050		0.0050	
91-57-6	2-Methylnaphthalene	<0.0050		0.0050	
1634-04-4	Methyl tert-butyl ether	<0.0020		0.0020	
91-20-3	Naphthalene	<0.0050		0.0050	
100-42-5	Styrene	<0.0020		0.0020	
127-18-4	Tetrachloroethene	<0.0020		0.0020	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673135/6
 Matrix: Solid Lab File ID: 16M0905.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 09/05/2022 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.0020		0.0020	
156-60-5	trans-1,2-Dichloroethene	<0.0020		0.0020	
10061-02-6	trans-1,3-Dichloropropene	<0.0020		0.0020	
71-55-6	1,1,1-Trichloroethane	<0.0020		0.0020	
79-00-5	1,1,2-Trichloroethane	<0.0020		0.0020	
79-01-6	Trichloroethene	<0.0020		0.0020	
75-69-4	Trichlorofluoromethane	<0.0050		0.0050	
95-63-6	1,2,4-Trimethylbenzene	<0.0020		0.0020	
108-67-8	1,3,5-Trimethylbenzene	<0.0020		0.0020	
108-05-4	Vinyl acetate	<0.0050		0.0050	
75-01-4	Vinyl chloride	<0.0020		0.0020	
1330-20-7	Xylenes, Total	<0.0040		0.0040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		75-131
1868-53-7	Dibromofluoromethane	110		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-134
2037-26-5	Toluene-d8 (Surr)	96		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16M0905.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2022 13:24:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0087999-006
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:01:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
9 1-Chloro-1-fluoroethane TIC	47	3.023	3.040	-0.017	7	87		NC	
* 23 TBA-d9 (IS)	65	3.429	3.434	-0.005	94	230729	1068.6	1068.6	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	72	179336	53.4	58.8	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.425	-0.003	98	183255	53.4	57.8	
* 55 Fluorobenzene (IS)	96	5.774	5.771	0.003	99	678524	53.4	53.4	
* 62 1,4-Dioxane-d8	96	6.485	6.482	0.003	77	18771	1068.6	1068.6	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.526	-0.003	85	678401	53.4	51.2	
* 82 Chlorobenzene-d5	117	9.307	9.307	0.000	85	544383	53.4	53.4	
\$ 94 BFB	95	10.699	10.699	0.000	91	231865		NC	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	233319	53.4	50.9	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	95	308365	53.4	53.4	
103 2-Ethyltoluene	105	12.916	12.866	0.050	1	87		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

CPS#16 IS/SS_00132

Amount Added: 5.00

Units: mL

Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16M0905.D

Injection Date: 05-Sep-2022 13:24:30

Instrument ID: CMS16

Operator ID:

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

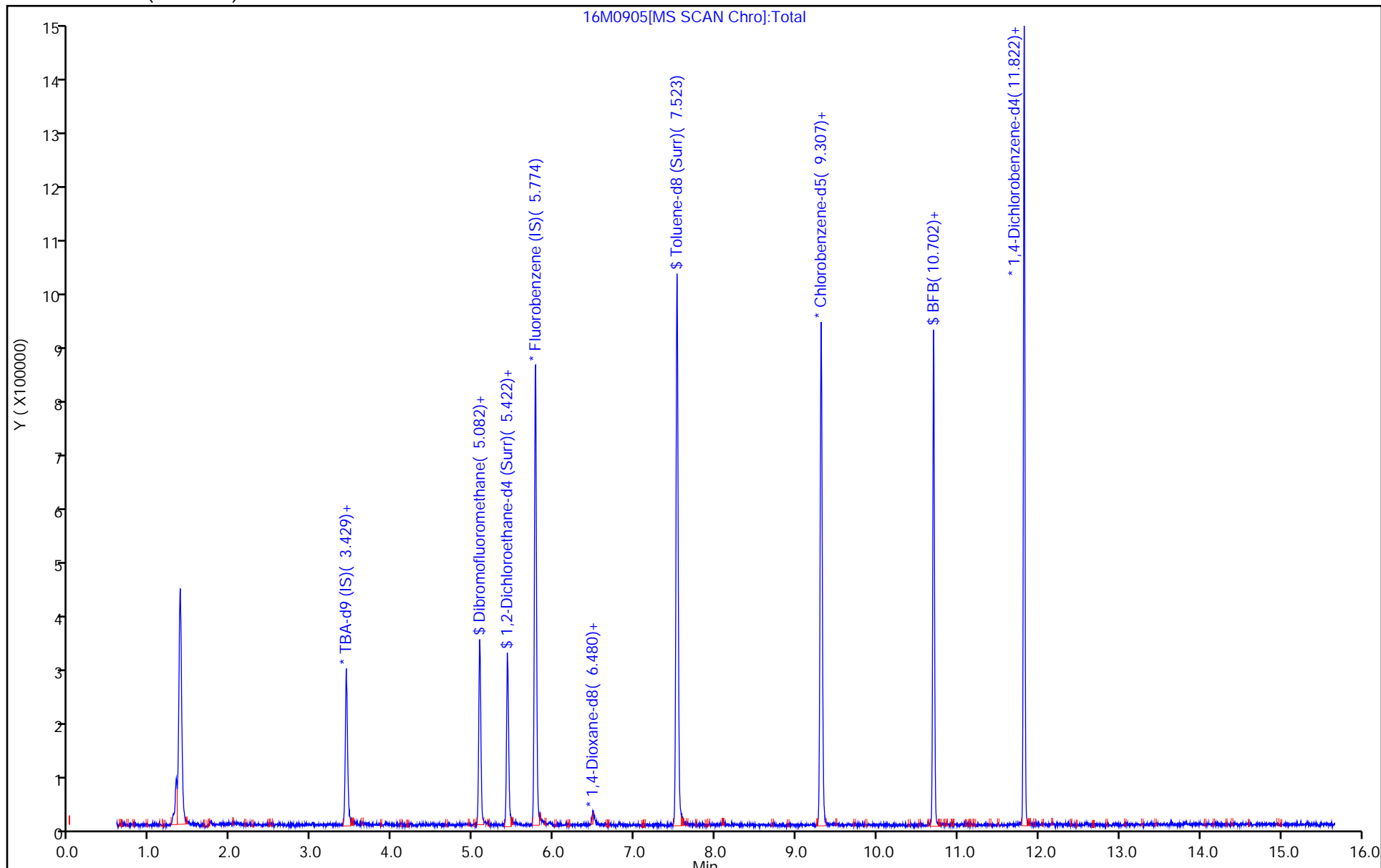
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16M0905.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2022 13:24:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0087999-006
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:01:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	58.8	109.99
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	57.8	108.26
\$ 71 Toluene-d8 (Surr)	53.4	51.2	95.85
\$ 93 4-Bromofluorobenzene (Surr)	53.4	50.9	95.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673569/7
 Matrix: Solid Lab File ID: 29M0908.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/08/2022 10:26
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: 5(mL) GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Medium
 Analysis Batch No.: 673569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	<0.010		0.010	
71-43-2	Benzene	<0.00025		0.00025	
75-25-2	Bromoform	<0.0010		0.0010	
74-83-9	Bromomethane	<0.0030		0.0030	
78-93-3	2-Butanone (MEK)	<0.0050		0.0050	
75-15-0	Carbon disulfide	<0.0020		0.0020	
56-23-5	Carbon tetrachloride	<0.0010		0.0010	
108-90-7	Chlorobenzene	<0.0010		0.0010	
124-48-1	Chlorodibromomethane	<0.0010		0.0010	
75-00-3	Chloroethane	<0.0010		0.0010	
67-66-3	Chloroform	<0.0020		0.0020	
74-87-3	Chloromethane	<0.0010		0.0010	
156-59-2	cis-1,2-Dichloroethene	<0.0010		0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010		0.0010	
110-82-7	Cyclohexane	<0.0010		0.0010	
75-27-4	Dichlorobromomethane	<0.0010		0.0010	
75-34-3	1,1-Dichloroethane	<0.0010		0.0010	
107-06-2	1,2-Dichloroethane	<0.0010		0.0010	
75-35-4	1,1-Dichloroethene	<0.0010		0.0010	
78-87-5	1,2-Dichloropropane	<0.0010		0.0010	
123-91-1	1,4-Dioxane	<0.10		0.10	
100-41-4	Ethylbenzene	<0.00025		0.00025	
106-93-4	Ethylene Dibromide	<0.0010		0.0010	
591-78-6	2-Hexanone	<0.0050		0.0050	
98-82-8	Isopropylbenzene	<0.0010		0.0010	
79-20-9	Methyl acetate	<0.0050		0.0050	
108-87-2	Methylcyclohexane	<0.0010		0.0010	
75-09-2	Methylene Chloride	<0.0050		0.0050	
108-10-1	methyl isobutyl ketone	<0.0050		0.0050	
91-57-6	2-Methylnaphthalene	<0.0050		0.0050	
1634-04-4	Methyl tert-butyl ether	<0.0010		0.0010	
91-20-3	Naphthalene	<0.0010		0.0010	
100-42-5	Styrene	<0.0010		0.0010	
127-18-4	Tetrachloroethene	<0.0010		0.0010	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673569/7
 Matrix: Solid Lab File ID: 29M0908.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/08/2022 10:26
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: 5(mL) GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Medium
 Analysis Batch No.: 673569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.00025		0.00025	
156-60-5	trans-1,2-Dichloroethene	<0.0010		0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010		0.0010	
71-55-6	1,1,1-Trichloroethane	<0.0010		0.0010	
79-00-5	1,1,2-Trichloroethane	<0.0010		0.0010	
79-01-6	Trichloroethene	<0.00050		0.00050	
75-69-4	Trichlorofluoromethane	<0.0010		0.0010	
95-63-6	1,2,4-Trimethylbenzene	<0.0010		0.0010	
108-67-8	1,3,5-Trimethylbenzene	<0.0010		0.0010	
108-05-4	Vinyl acetate	<0.0020		0.0020	
75-01-4	Vinyl chloride	<0.0010		0.0010	
1330-20-7	Xylenes, Total	<0.00050		0.00050	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		72-124
1868-53-7	Dibromofluoromethane	100		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-126
2037-26-5	Toluene-d8 (Surr)	97		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29M0908.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Sep-2022 10:26:39 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0088058-007
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:20:31 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8 Date: 08-Sep-2022 14:20:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 23 TBA-d9 (IS)	65	3.458	3.461	-0.003	0	238233	1000.0	1000.0	
\$ 43 Dibromofluoromethane	113	5.094	5.094	0.000	58	199112	50.0	50.0	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.436	5.436	0.000	38	184855	50.0	50.0	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	665786	50.0	50.0	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	20449	1000.0	1000.0	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.524	-0.001	93	661074	50.0	48.5	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	542946	50.0	50.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	94	233046	50.0	54.5	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	279791	50.0	50.0	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	27	2245		0.4653	
120 Naphthalene	128	13.650	13.650	0.000	79	5600		0.6543	
121 1,2,3-Trichlorobenzene	180	13.827	13.830	-0.003	43	3017		0.7111	

QC Flag Legend

Processing Flags

Reagents:

8260LOW IS/SS_00313 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29M0908.D

Injection Date: 08-Sep-2022 10:26:39

Instrument ID: CMS29

Operator ID: PF

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

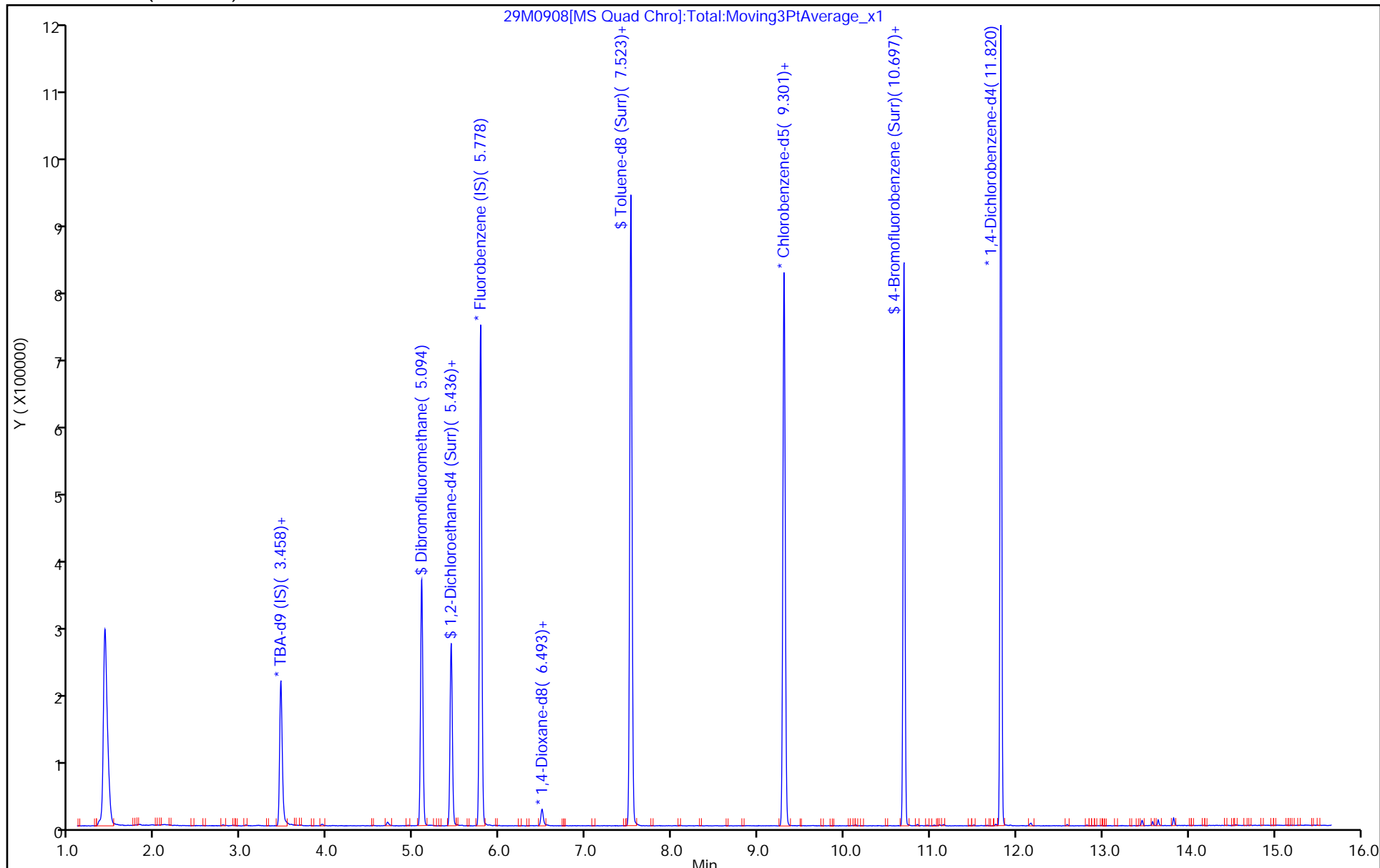
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29M0908.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Sep-2022 10:26:39 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0088058-007
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:20:31 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8 Date: 08-Sep-2022 14:20:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	50.0	99.95
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	99.91
\$ 71 Toluene-d8 (Surr)	50.0	48.5	97.09
\$ 94 4-Bromofluorobenzene (Surr)	50.0	54.5	108.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673843/6
 Matrix: Water Lab File ID: 19m0909.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 13:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	<10		10
71-43-2	Benzene	<0.50		0.50
75-25-2	Bromoform	<1.0		1.0
74-83-9	Bromomethane	<3.0		3.0
78-93-3	2-Butanone (MEK)	<5.0		5.0
75-15-0	Carbon disulfide	<2.0		2.0
56-23-5	Carbon tetrachloride	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
67-66-3	Chloroform	<2.0		2.0
74-87-3	Chloromethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
110-82-7	Cyclohexane	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
75-35-4	1,1-Dichloroethene	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
123-91-1	1,4-Dioxane	<100		100
100-41-4	Ethylbenzene	<0.50		0.50
106-93-4	Ethylene Dibromide	<1.0		1.0
591-78-6	2-Hexanone	<5.0		5.0
98-82-8	Isopropylbenzene	<1.0		1.0
79-20-9	Methyl acetate	<5.0		5.0
108-87-2	Methylcyclohexane	<1.0		1.0
75-09-2	Methylene Chloride	<5.0		5.0
108-10-1	methyl isobutyl ketone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
1634-04-4	Methyl tert-butyl ether	<1.0		1.0
91-20-3	Naphthalene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
127-18-4	Tetrachloroethene	<1.0		1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-673843/6
 Matrix: Water Lab File ID: 19m0909.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 13:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	<0.50		0.50	
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	
79-01-6	Trichloroethene	<0.50		0.50	
75-69-4	Trichlorofluoromethane	<1.0		1.0	
95-63-6	1,2,4-Trimethylbenzene	<1.0		1.0	
108-67-8	1,3,5-Trimethylbenzene	<1.0		1.0	
108-05-4	Vinyl acetate	<2.0		2.0	
75-01-4	Vinyl chloride	<1.0		1.0	
1330-20-7	Xylenes, Total	<1.0		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		72-124
1868-53-7	Dibromofluoromethane	92		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-126
2037-26-5	Toluene-d8 (Surr)	91		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19m0909.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Sep-2022 13:19:30 ALS Bottle#: 8 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0088095-006
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 14:59:57 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8 Date: 09-Sep-2022 15:00:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
15 Acetone	43	3.189	3.179	0.010	58	724		1.98	
* 23 TBA-d9 (IS)	65	3.623	3.617	0.006	96	111918	1000.0	1000.0	
\$ 43 Dibromofluoromethane	113	5.281	5.276	0.005	59	148644	50.0	45.9	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	134864	50.0	52.3	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	721264	50.0	50.0	
* 62 1,4-Dioxane-d8	96	6.704	6.704	0.000	73	16507	1000.0	1000.0	
\$ 71 Toluene-d8 (Surr)	98	7.736	7.737	-0.001	92	681443	50.0	45.7	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	523910	50.0	50.0	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	89	226537	50.0	51.0	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	266000	50.0	50.0	

QC Flag Legend

Processing Flags

Reagents:

8260LOW IS/SS_00313 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19m0909.d

Injection Date: 09-Sep-2022 13:19:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

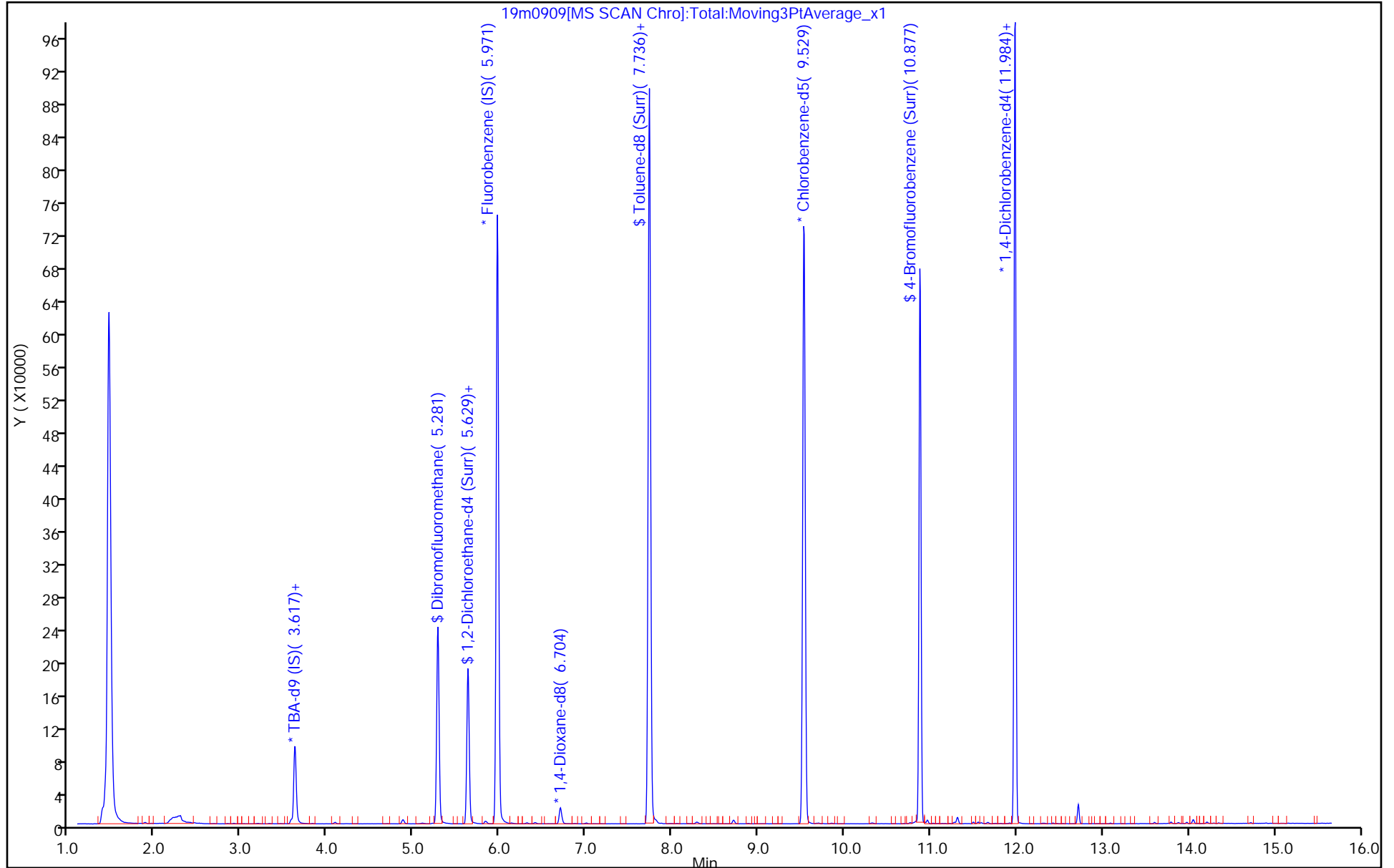
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19m0909.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Sep-2022 13:19:30 ALS Bottle#: 8 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 500-0088095-006
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 14:59:57 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8

Date: 09-Sep-2022 15:00:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	45.9	91.70
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	52.3	104.55
\$ 71 Toluene-d8 (Surr)	50.0	45.7	91.45
\$ 94 4-Bromofluorobenzene (Surr)	50.0	51.0	101.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673135/4
 Matrix: Solid Lab File ID: 16S0905.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 09/05/2022 12:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	0.0517		0.020	
71-43-2	Benzene	0.0500		0.0020	
75-25-2	Bromoform	0.0541		0.0020	
74-83-9	Bromomethane	0.0474		0.0050	
78-93-3	2-Butanone (MEK)	0.0508		0.0050	
75-15-0	Carbon disulfide	0.0479		0.0050	
56-23-5	Carbon tetrachloride	0.0562		0.0020	
108-90-7	Chlorobenzene	0.0548		0.0020	
124-48-1	Chlorodibromomethane	0.0532		0.0020	
75-00-3	Chloroethane	0.0509		0.0050	
67-66-3	Chloroform	0.0532		0.0020	
74-87-3	Chloromethane	0.0503		0.0050	
156-59-2	cis-1,2-Dichloroethene	0.0517		0.0020	
10061-01-5	cis-1,3-Dichloropropene	0.0461		0.0020	
110-82-7	Cyclohexane	0.0514		0.0020	
75-27-4	Dichlorobromomethane	0.0513		0.0020	
75-34-3	1,1-Dichloroethane	0.0527		0.0020	
107-06-2	1,2-Dichloroethane	0.0552		0.0050	
75-35-4	1,1-Dichloroethene	0.0499		0.0020	
78-87-5	1,2-Dichloropropane	0.0508		0.0020	
123-91-1	1,4-Dioxane	0.851		0.10	
100-41-4	Ethylbenzene	0.0533		0.0020	
106-93-4	Ethylene Dibromide	0.0501		0.0020	
591-78-6	2-Hexanone	0.0405		0.0050	
98-82-8	Isopropylbenzene	0.0496		0.0020	
79-20-9	Methyl acetate	0.0981		0.025	
108-87-2	Methylcyclohexane	0.0485		0.0020	
75-09-2	Methylene Chloride	0.0484		0.0050	
108-10-1	methyl isobutyl ketone	0.0392		0.0050	
1634-04-4	Methyl tert-butyl ether	0.0454		0.0020	
91-20-3	Naphthalene	0.0433		0.0050	
100-42-5	Styrene	0.0522		0.0020	
127-18-4	Tetrachloroethene	0.0566		0.0020	
108-88-3	Toluene	0.0514		0.0020	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673135/4
 Matrix: Solid Lab File ID: 16S0905.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 09/05/2022 12:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
156-60-5	trans-1,2-Dichloroethene	0.0525		0.0020	
10061-02-6	trans-1,3-Dichloropropene	0.0457		0.0020	
71-55-6	1,1,1-Trichloroethane	0.0547		0.0020	
79-00-5	1,1,2-Trichloroethane	0.0498		0.0020	
79-01-6	Trichloroethene	0.0537		0.0020	
75-69-4	Trichlorofluoromethane	0.0535		0.0050	
95-63-6	1,2,4-Trimethylbenzene	0.0513		0.0020	
108-67-8	1,3,5-Trimethylbenzene	0.0507		0.0020	
108-05-4	Vinyl acetate	0.0460		0.0050	
75-01-4	Vinyl chloride	0.0507		0.0020	
1330-20-7	Xylenes, Total	0.106		0.0040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		75-131
1868-53-7	Dibromofluoromethane	101		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-134
2037-26-5	Toluene-d8 (Surr)	95		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16S0905.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2022 12:33:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0087999-004
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQPO

Date: 05-Sep-2022 12:56:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
1 Dichlorodifluoromethane	85	1.517	1.517	0.000	96	313432	50.0	54.9	
2 Chloromethane	50	1.710	1.716	-0.006	100	326767	50.0	50.3	
3 Vinyl chloride	62	1.826	1.829	-0.003	99	307208	50.0	50.7	
4 Butadiene	39	1.849	1.849	0.000	90	294305	50.0	45.0	
5 Bromomethane	94	2.147	2.153	-0.006	91	203561	50.0	47.4	
6 Chloroethane	64	2.249	2.240	0.009	99	185793	50.0	50.9	
7 Dichlorofluoromethane	67	2.439	2.442	-0.003	99	395718	50.0	47.4	
8 Trichlorofluoromethane	101	2.479	2.476	0.003	95	399798	50.0	53.5	
11 Ethyl ether	59	2.748	2.748	0.000	93	150729	50.0	49.8	
12 Acrolein	56	2.867	2.867	0.000	94	610721	2000.0	1718.6	
13 1,1-Dichloroethene	96	2.961	2.961	0.000	98	203346	50.0	49.9	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.981	2.975	0.006	94	240861	50.0	51.2	
15 Acetone	43	3.012	3.012	0.000	99	51287	50.0	51.7	
16 Iodomethane	142	3.100	3.100	0.000	99	370184	50.0	54.8	
17 Carbon disulfide	76	3.162	3.162	0.000	100	688449	50.0	47.9	
20 3-Chloro-1-propene	76	3.295	3.298	-0.003	96	115380	50.0	46.6	
21 Methyl acetate	43	3.312	3.315	-0.003	96	200996	100.0	98.1	
22 Methylene Chloride	84	3.409	3.406	0.003	95	207065	50.0	48.4	
* 23 TBA-d9 (IS)	65	3.429	3.434	-0.005	94	203716	1068.6	1068.6	
24 2-Methyl-2-propanol	59	3.508	3.511	-0.003	94	129820	500.0	517.6	
25 Acrylonitrile	53	3.636	3.638	-0.002	99	536110	500.0	493.9	
27 Methyl tert-butyl ether	73	3.661	3.664	-0.003	98	478122	50.0	45.4	
26 trans-1,2-Dichloroethene	96	3.661	3.664	-0.003	83	230589	50.0	52.5	
28 Hexane	57	3.919	3.919	0.000	93	355184	50.0	53.3	
29 1,1-Dichloroethane	63	4.058	4.061	-0.003	98	382015	50.0	52.7	
30 Vinyl acetate	43	4.103	4.103	0.000	99	289158	50.0	46.0	
34 2,2-Dichloropropane	41	4.614	4.614	0.000	67	192984	50.0	58.4	
35 cis-1,2-Dichloroethene	96	4.617	4.614	0.003	95	231010	50.0	51.7	
36 2-Butanone (MEK)	43	4.625	4.628	-0.003	40	61874	50.0	50.8	a
39 Chlorobromomethane	128	4.846	4.852	-0.006	97	101335	50.0	51.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
41 Tetrahydrofuran	42	4.892	4.892	0.000	85	75831	100.0	85.3	
42 Chloroform	83	4.923	4.926	-0.003	97	356099	50.0	53.2	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	80	189620	53.4	53.8	
44 1,1,1-Trichloroethane	97	5.110	5.113	-0.003	98	350266	50.0	54.7	
45 Cyclohexane	56	5.170	5.167	0.003	94	436789	50.0	51.4	
47 1,1-Dichloropropene	75	5.275	5.275	-0.001	89	282868	50.0	52.5	
46 Carbon tetrachloride	117	5.280	5.277	0.003	88	332801	50.0	56.2	
49 Isobutyl alcohol	43	5.374	5.374	0.000	93	141621	1250.0	1376.2	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	97	191266	53.4	52.2	
50 Benzene	78	5.490	5.487	0.003	97	807870	50.0	50.0	
51 1,2-Dichloroethane	62	5.504	5.507	-0.003	84	251168	50.0	55.2	a
54 n-Heptane	43	5.751	5.751	0.000	90	334189	50.0	48.5	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	97	784422	53.4	53.4	
57 Trichloroethene	130	6.156	6.159	-0.003	96	220171	50.0	53.7	
59 Methylcyclohexane	83	6.369	6.369	0.000	94	412598	50.0	48.5	
60 1,2-Dichloropropane	63	6.406	6.403	0.003	91	194206	50.0	50.8	
* 62 1,4-Dioxane-d8	96	6.488	6.482	0.006	82	21481	1068.6	1068.6	
63 Dibromomethane	93	6.534	6.534	0.000	90	100220	50.0	50.2	
65 1,4-Dioxane	88	6.545	6.545	0.000	44	24801	1000.0	851.2	
66 Dichlorobromomethane	83	6.704	6.701	0.003	94	249259	50.0	51.3	
68 2-Chloroethyl vinyl ether	63	7.041	7.041	0.000	93	50840	50.0	40.9	
69 cis-1,3-Dichloropropene	75	7.211	7.214	-0.003	88	278734	50.0	46.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.387	7.387	0.000	97	126096	50.0	39.2	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.526	-0.003	84	731016	53.4	50.7	
72 Toluene	92	7.603	7.603	0.000	88	531575	50.0	51.4	
73 trans-1,3-Dichloropropene	75	7.863	7.866	-0.003	97	245583	50.0	45.7	
74 Ethyl methacrylate	69	7.974	7.974	0.000	92	170239	50.0	40.7	
75 1,1,2-Trichloroethane	97	8.085	8.090	-0.005	91	143791	50.0	49.8	
76 Tetrachloroethene	166	8.263	8.263	0.000	97	244775	50.0	56.6	
77 1,3-Dichloropropane	76	8.294	8.297	-0.003	93	246246	50.0	49.2	
78 2-Hexanone	43	8.399	8.396	0.003	94	86632	50.0	40.5	
80 Chlorodibromomethane	129	8.575	8.569	0.006	87	190544	50.0	53.2	
81 Ethylene Dibromide	107	8.717	8.714	0.003	99	144452	50.0	50.1	
* 82 Chlorobenzene-d5	117	9.307	9.307	0.000	86	592897	53.4	53.4	
84 Chlorobenzene	112	9.346	9.344	0.002	96	604986	50.0	54.8	
85 1,1,1,2-Tetrachloroethane	131	9.448	9.454	-0.006	91	220803	50.0	51.2	
86 Ethylbenzene	106	9.491	9.491	0.000	99	333142	50.0	53.3	
87 m-Xylene & p-Xylene	91	9.644	9.647	-0.003	99	813703	50.0	53.3	
88 o-Xylene	91	10.123	10.123	0.000	93	857219	50.0	52.7	
89 Styrene	104	10.140	10.140	0.000	95	684592	50.0	52.2	
90 Bromoform	173	10.345	10.345	0.000	98	127593	50.0	54.1	
91 Isopropylbenzene	105	10.537	10.537	0.000	95	1095500	50.0	49.6	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.702	10.702	0.000	0	282999	53.4	49.4	
95 Bromobenzene	156	10.852	10.855	-0.003	93	277073	50.0	53.8	
96 1,1,2,2-Tetrachloroethane	83	10.855	10.858	-0.003	72	188007	50.0	44.1	
97 1,2,3-Trichloropropane	110	10.897	10.897	0.000	88	58827	50.0	47.0	
98 trans-1,4-Dichloro-2-butene	53	10.920	10.917	0.003	84	62858	50.0	48.4	
99 N-Propylbenzene	91	10.968	10.968	0.000	98	1382821	50.0	53.2	
100 2-Chlorotoluene	91	11.053	11.053	0.000	97	763081	50.0	51.0	
101 1,3,5-Trimethylbenzene	105	11.147	11.147	0.000	92	980317	50.0	50.7	
102 4-Chlorotoluene	91	11.161	11.158	0.003	94	919266	50.0	51.6	
104 tert-Butylbenzene	119	11.462	11.459	0.003	89	886907	50.0	50.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
106 1,2,4-Trimethylbenzene	105	11.507	11.504	0.003	94	1008132	50.0	51.3	
107 sec-Butylbenzene	105	11.663	11.663	0.000	94	1347651	50.0	50.7	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	99	585117	50.0	52.3	
109 4-Isopropyltoluene	119	11.796	11.796	0.000	94	1224879	50.0	53.1	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	385474	53.4	53.4	
111 1,4-Dichlorobenzene	146	11.842	11.842	0.000	94	605428	50.0	52.9	
114 n-Butylbenzene	91	12.156	12.156	0.000	95	1093632	50.0	51.2	
115 1,2-Dichlorobenzene	146	12.171	12.171	0.000	97	553825	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	75	12.814	12.817	-0.003	64	31156	50.0	41.5	
118 1,2,4-Trichlorobenzene	180	13.455	13.455	0.000	92	311493	50.0	46.4	
119 Hexachlorobutadiene	225	13.577	13.574	0.003	95	212358	50.0	51.3	
120 Naphthalene	128	13.642	13.642	0.000	99	554477	50.0	43.3	
121 1,2,3-Trichlorobenzene	180	13.821	13.824	-0.003	94	254225	50.0	47.9	
S 124 Xylenes, Total	100				0		100.0	106.0	
S 125 1,2-Dichloroethene, Total	96				0		100.0	104.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260/624GASWK_01474	Amount Added: 2.50	Units: uL	
8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16S0905.D

Injection Date: 05-Sep-2022 12:33:30

Instrument ID: CMS16

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

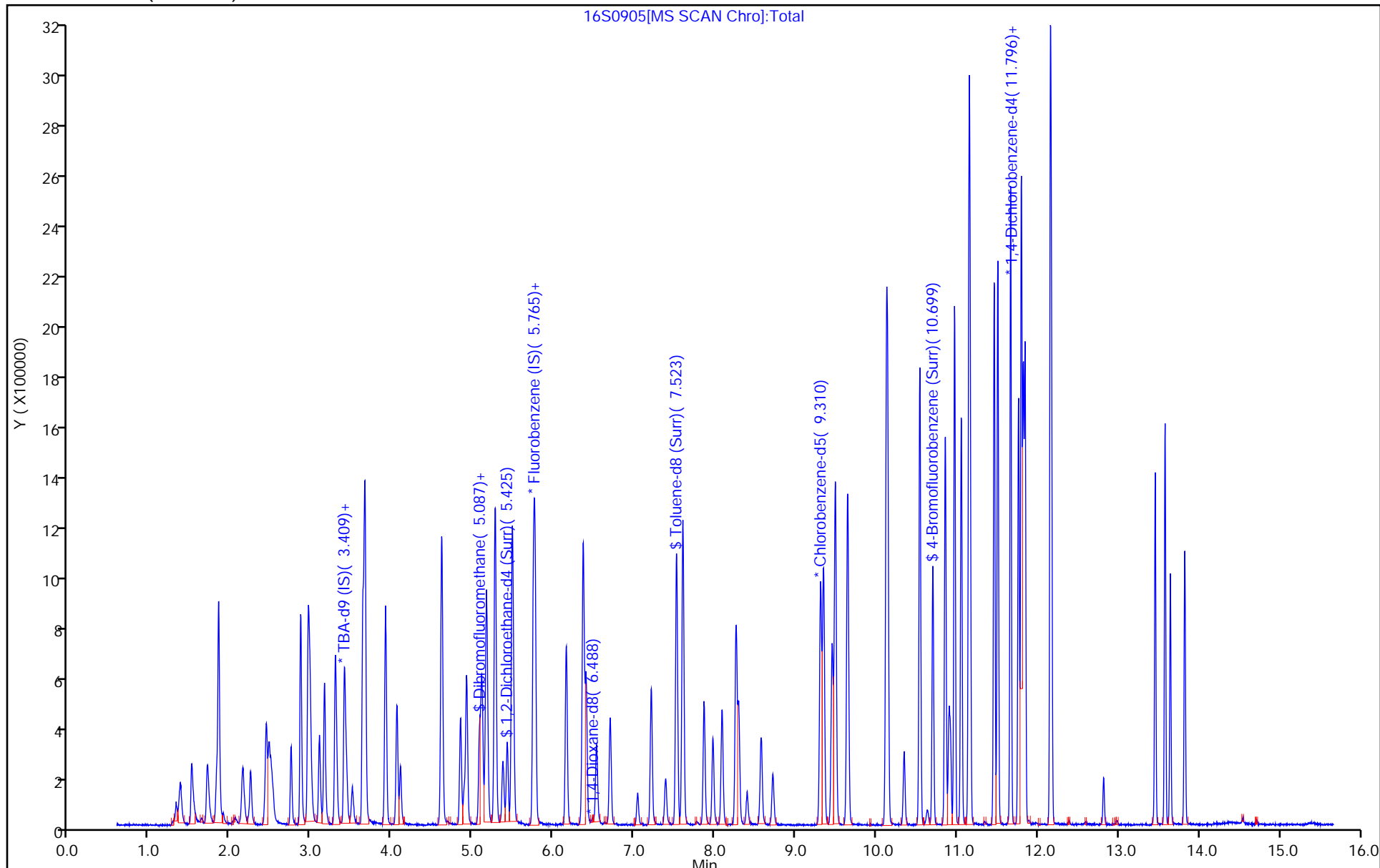
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16S0905.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2022 12:33:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0087999-004
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 11:58:56 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1651

First Level Reviewer: BQPO Date: 05-Sep-2022 12:56:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	53.8	100.60
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	52.2	97.74
\$ 71 Toluene-d8 (Surr)	53.4	50.7	94.83
\$ 93 4-Bromofluorobenzene (Surr)	53.4	49.4	92.48

Eurofins Chicago

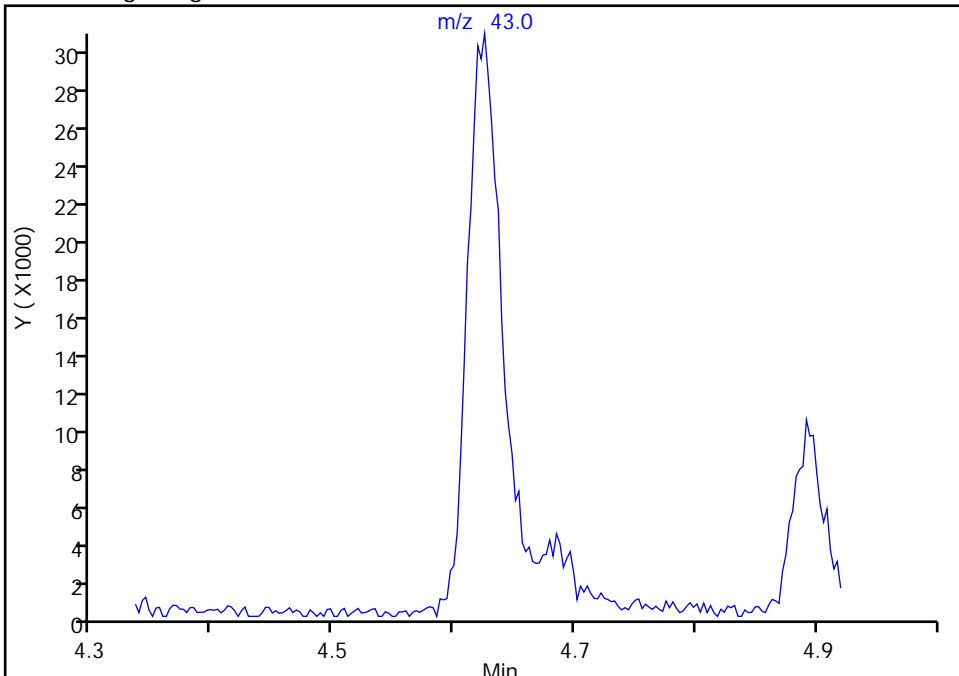
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16S0905.D
Injection Date: 05-Sep-2022 12:33:30 Instrument ID: CMS16
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

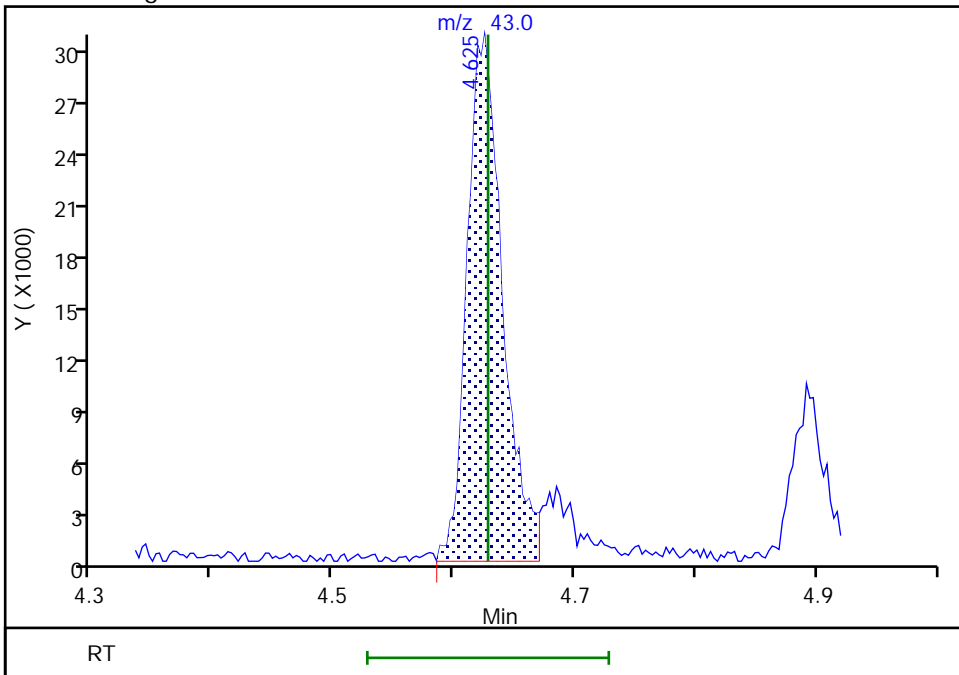
Not Detected
Expected RT: 4.63

Processing Integration Results



RT: 4.63
Area: 61874
Amount: 50.834153
Amount Units: UG/L

Manual Integration Results



Reviewer: BQP0, 05-Sep-2022 12:54:53
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

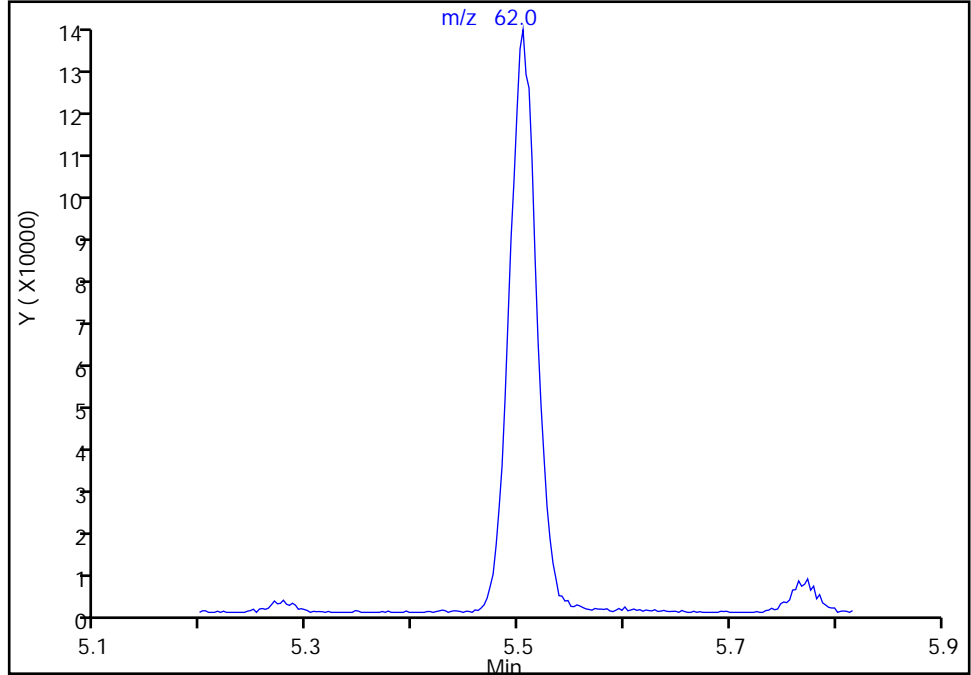
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\16S0905.D
Injection Date: 05-Sep-2022 12:33:30 Instrument ID: CMS16
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

51 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

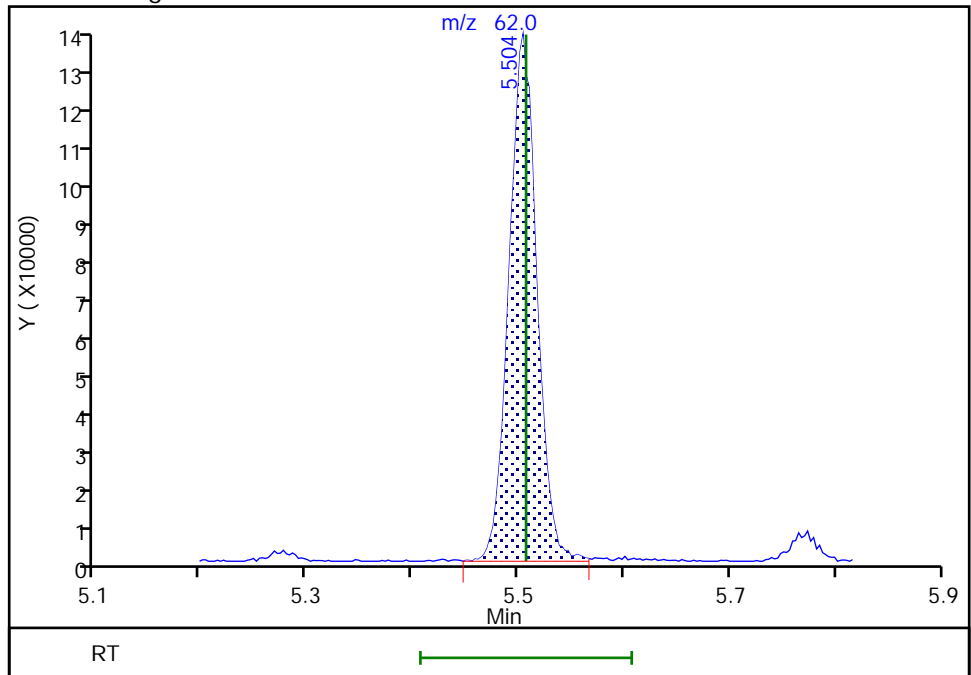
Not Detected
Expected RT: 5.51

Processing Integration Results



Manual Integration Results

RT: 5.50
Area: 251168
Amount: 55.158806
Amount Units: UG/L



Reviewer: BQP0, 05-Sep-2022 12:54:59
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673569/5
 Matrix: Solid Lab File ID: 29S0908.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/08/2022 09:39
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: 5(mL) GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Medium
 Analysis Batch No.: 673569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	0.0568		0.010	
71-43-2	Benzene	0.0453		0.00025	
75-25-2	Bromoform	0.0499		0.0010	
74-83-9	Bromomethane	0.0404		0.0030	
78-93-3	2-Butanone (MEK)	0.0551		0.0050	
75-15-0	Carbon disulfide	0.0413		0.0020	
56-23-5	Carbon tetrachloride	0.0489		0.0010	
108-90-7	Chlorobenzene	0.0467		0.0010	
124-48-1	Chlorodibromomethane	0.0483		0.0010	
75-00-3	Chloroethane	0.0313		0.0010	
67-66-3	Chloroform	0.0422		0.0020	
74-87-3	Chloromethane	0.0606		0.0010	
156-59-2	cis-1,2-Dichloroethene	0.0440		0.0010	
10061-01-5	cis-1,3-Dichloropropene	0.0462		0.0010	
110-82-7	Cyclohexane	0.0480		0.0010	
75-27-4	Dichlorobromomethane	0.0468		0.0010	
75-34-3	1,1-Dichloroethane	0.0423		0.0010	
107-06-2	1,2-Dichloroethane	0.0457		0.0010	
75-35-4	1,1-Dichloroethene	0.0413		0.0010	
78-87-5	1,2-Dichloropropane	0.0485		0.0010	
123-91-1	1,4-Dioxane	0.902		0.10	
100-41-4	Ethylbenzene	0.0471		0.00025	
106-93-4	Ethylene Dibromide	0.0466		0.0010	
591-78-6	2-Hexanone	0.0476		0.0050	
98-82-8	Isopropylbenzene	0.0483		0.0010	
79-20-9	Methyl acetate	0.0891		0.0050	
108-87-2	Methylcyclohexane	0.0483		0.0010	
75-09-2	Methylene Chloride	0.0412		0.0050	
108-10-1	methyl isobutyl ketone	0.0472		0.0050	
1634-04-4	Methyl tert-butyl ether	0.0411		0.0010	
91-20-3	Naphthalene	0.0378		0.0010	
100-42-5	Styrene	0.0475		0.0010	
127-18-4	Tetrachloroethene	0.0545		0.0010	
108-88-3	Toluene	0.0454		0.00025	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673569/5
 Matrix: Solid Lab File ID: 29S0908.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/08/2022 09:39
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: 5(mL) GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Medium
 Analysis Batch No.: 673569 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
156-60-5	trans-1,2-Dichloroethene	0.0422		0.0010	
10061-02-6	trans-1,3-Dichloropropene	0.0463		0.0010	
71-55-6	1,1,1-Trichloroethane	0.0462		0.0010	
79-00-5	1,1,2-Trichloroethane	0.0450		0.0010	
79-01-6	Trichloroethene	0.0521		0.00050	
75-69-4	Trichlorofluoromethane	0.0475		0.0010	
95-63-6	1,2,4-Trimethylbenzene	0.0461		0.0010	
108-67-8	1,3,5-Trimethylbenzene	0.0467		0.0010	
108-05-4	Vinyl acetate	0.0393		0.0020	
75-01-4	Vinyl chloride	0.0578		0.0010	
1330-20-7	Xylenes, Total	0.0961		0.00050	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		72-124
1868-53-7	Dibromofluoromethane	96		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-126
2037-26-5	Toluene-d8 (Surr)	98		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29S0908.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Sep-2022 09:39:43 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0088058-005
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:18:46 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8

Date: 08-Sep-2022 14:18:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.585	1.593	-0.009	87	330162	50.0	62.3	
2 Chloromethane	50	1.788	1.802	-0.014	89	220295	50.0	60.6	
3 Vinyl chloride	62	1.898	1.915	-0.017	82	244613	50.0	57.8	
4 Butadiene	39	1.912	1.924	-0.012	88	207324	50.0	58.1	
6 Bromomethane	94	2.216	2.231	-0.015	93	212282	50.0	40.4	
7 Chloroethane	64	2.295	2.318	-0.023	94	153068	50.0	31.3	
8 Dichlorofluoromethane	67	2.494	2.506	-0.012	83	389706	50.0	41.9	
9 Trichlorofluoromethane	101	2.517	2.517	-0.003	80	471375	50.0	47.5	M
11 Ethyl ether	59	2.784	2.787	-0.003	87	119997	50.0	42.5	
12 Acrolein	56	2.903	2.905	-0.002	96	388996	2000.0	1299.0	
13 1,1-Dichloroethene	96	2.995	2.998	-0.003	90	198309	50.0	41.3	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.015	3.033	-0.018	84	244916	50.0	41.9	
15 Acetone	43	3.042	3.047	-0.005	62	40987	50.0	56.8	
16 Iodomethane	142	3.131	3.134	-0.003	98	420785	50.0	46.6	
17 Carbon disulfide	76	3.195	3.198	-0.003	100	649174	50.0	41.3	
20 3-Chloro-1-propene	76	3.325	3.328	-0.003	87	111293	50.0	40.5	
21 Methyl acetate	43	3.343	3.346	-0.003	94	150766	100.0	89.1	
22 Methylene Chloride	84	3.435	3.438	-0.003	82	200337	50.0	41.2	
* 23 TBA-d9 (IS)	65	3.458	3.461	-0.003	0	274735	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.534	3.537	-0.003	98	134116	500.0	453.1	
25 Acrylonitrile	53	3.661	3.664	-0.003	97	376797	500.0	416.1	
27 Methyl tert-butyl ether	73	3.684	3.687	-0.003	89	478060	50.0	41.1	
26 trans-1,2-Dichloroethene	96	3.687	3.690	-0.003	75	224410	50.0	42.2	
28 Hexane	57	3.939	3.939	0.000	92	260083	50.0	48.0	
29 1,1-Dichloroethane	63	4.078	4.081	-0.003	85	331573	50.0	42.3	
30 Vinyl acetate	43	4.122	4.121	0.001	98	196613	50.0	39.3	
35 cis-1,2-Dichloroethene	96	4.628	4.631	-0.003	87	228321	50.0	44.0	
34 2,2-Dichloropropane	77	4.628	4.631	-0.003	71	288669	50.0	44.0	
36 2-Butanone (MEK)	43	4.640	4.643	-0.003	40	47240	50.0	55.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Chlorobromomethane	128	4.860	4.863	-0.003	80	116487	50.0	48.4	
41 Tetrahydrofuran	42	4.906	4.906	0.000	74	56266	100.0	89.3	
42 Chloroform	83	4.932	4.935	-0.003	81	383968	50.0	42.2	
\$ 43 Dibromofluoromethane	113	5.091	5.094	-0.003	60	231552	50.0	48.0	
44 1,1,1-Trichloroethane	97	5.123	5.123	0.000	91	377239	50.0	46.2	
45 Cyclohexane	56	5.178	5.181	-0.003	87	296625	50.0	48.0	
47 1,1-Dichloropropene	75	5.285	5.285	0.000	90	287588	50.0	47.0	
46 Carbon tetrachloride	117	5.285	5.288	-0.003	81	379177	50.0	48.9	
48 Isobutyl alcohol	43	5.384	5.381	0.003	91	114967	1250.0	1138.6	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.433	5.436	-0.003	73	212723	50.0	47.5	
50 Benzene	78	5.497	5.497	0.000	95	731844	50.0	45.3	
51 1,2-Dichloroethane	62	5.511	5.514	-0.003	75	241456	50.0	45.7	
54 n-Heptane	43	5.754	5.754	0.000	81	224902	50.0	52.8	
* 55 Fluorobenzene (IS)	96	5.778	5.778	0.000	99	805531	50.0	50.0	
57 Trichloroethene	130	6.163	6.163	0.000	88	251010	50.0	52.1	
59 Methylcyclohexane	83	6.368	6.371	-0.003	89	368203	50.0	48.3	
60 1,2-Dichloropropane	63	6.406	6.409	-0.003	88	164891	50.0	48.5	
* 62 1,4-Dioxane-d8	96	6.490	6.493	-0.003	0	25591	1000.0	1000.0	
63 Dibromomethane	93	6.533	6.533	0.000	89	116679	50.0	45.6	
65 1,4-Dioxane	88	6.548	6.548	0.000	43	27313	1000.0	901.8	
66 Dichlorobromomethane	83	6.704	6.704	0.000	93	279363	50.0	46.8	
68 2-Chloroethyl vinyl ether	63	7.040	7.043	-0.003	94	68997	50.0	46.5	
69 cis-1,3-Dichloropropene	75	7.211	7.211	0.000	92	292663	50.0	46.2	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.390	0.000	95	106996	50.0	47.2	
\$ 71 Toluene-d8 (Surr)	98	7.524	7.524	0.000	93	791317	50.0	49.2	
72 Toluene	92	7.602	7.602	0.000	92	489341	50.0	45.4	
73 trans-1,3-Dichloropropene	75	7.862	7.862	0.000	88	261960	50.0	46.3	
74 Ethyl methacrylate	69	7.972	7.972	0.000	91	180834	50.0	47.3	
75 1,1,2-Trichloroethane	97	8.085	8.085	0.000	93	150293	50.0	45.0	
76 Tetrachloroethene	166	8.256	8.256	0.000	90	270884	50.0	54.5	
77 1,3-Dichloropropane	76	8.291	8.291	0.000	88	246632	50.0	45.1	
78 2-Hexanone	43	8.395	8.398	-0.003	93	74942	50.0	47.6	
79 Chlorodibromomethane	129	8.569	8.569	0.000	86	230133	50.0	48.3	
81 Ethylene Dibromide	107	8.714	8.716	0.000	98	160627	50.0	46.6	
* 82 Chlorobenzene-d5	117	9.301	9.301	0.000	83	640788	50.0	50.0	
84 Chlorobenzene	112	9.339	9.339	0.000	94	598776	50.0	46.7	
85 1,1,1,2-Tetrachloroethane	131	9.446	9.446	0.000	89	241287	50.0	47.9	
86 Ethylbenzene	91	9.484	9.484	0.000	99	978472	50.0	47.1	
87 m-Xylene & p-Xylene	91	9.637	9.637	0.000	99	772999	50.0	48.9	
88 o-Xylene	91	10.118	10.118	0.000	93	797173	50.0	47.2	
89 Styrene	104	10.135	10.135	0.000	94	637168	50.0	47.5	
90 Bromoform	173	10.338	10.338	0.000	98	150867	50.0	49.9	
91 Isopropylbenzene	105	10.535	10.535	0.000	97	1030458	50.0	48.3	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.697	10.694	0.003	96	306125	50.0	52.8	
95 Bromobenzene	156	10.850	10.850	0.000	85	278400	50.0	53.4	
96 1,1,2,2-Tetrachloroethane	83	10.853	10.856	-0.003	74	190722	50.0	41.9	
97 1,2,3-Trichloropropane	110	10.897	10.897	0.000	85	63326	50.0	48.5	
98 trans-1,4-Dichloro-2-butene	53	10.917	10.917	0.000	92	46050	50.0	44.4	
99 N-Propylbenzene	91	10.966	10.966	0.000	98	1215810	50.0	47.5	
100 2-Chlorotoluene	91	11.050	11.050	0.000	97	688307	50.0	46.1	
101 1,3,5-Trimethylbenzene	105	11.146	11.146	0.000	91	881764	50.0	46.7	
102 4-Chlorotoluene	91	11.157	11.157	0.000	94	828595	50.0	45.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 tert-Butylbenzene	119	11.458	11.458	0.000	91	793000	50.0	48.0	
106 1,2,4-Trimethylbenzene	105	11.505	11.505	0.000	95	891748	50.0	46.1	
107 sec-Butylbenzene	105	11.664	11.664	0.000	94	1151087	50.0	44.7	
108 1,3-Dichlorobenzene	146	11.762	11.762	0.000	97	518416	50.0	46.9	
109 4-Isopropyltoluene	119	11.797	11.797	0.000	96	1015222	50.0	46.3	
* 110 1,4-Dichlorobenzene-d4	152	11.820	11.820	0.000	94	378872	50.0	50.0	
111 1,4-Dichlorobenzene	146	11.843	11.843	0.000	95	517401	50.0	45.2	
115 n-Butylbenzene	91	12.156	12.159	-0.003	97	864685	50.0	42.0	
114 1,2-Dichlorobenzene	146	12.171	12.171	0.000	97	469090	50.0	44.4	
116 1,2-Dibromo-3-Chloropropane	75	12.822	12.819	0.003	63	29807	50.0	34.6	
118 1,2,4-Trichlorobenzene	180	13.462	13.462	0.000	93	269864	50.0	41.3	
119 Hexachlorobutadiene	225	13.584	13.583	0.001	96	185244	50.0	45.6	
120 Naphthalene	128	13.650	13.650	0.000	99	437750	50.0	37.8	
121 1,2,3-Trichlorobenzene	180	13.827	13.830	-0.003	93	209208	50.0	36.4	
S 124 Xylenes, Total	1				0		100.0	96.1	
S 126 1,2-Dichloroethene, Total	1				0		100.0	86.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260/624GASWK_01475	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29S0908.D

Injection Date: 08-Sep-2022 09:39:43

Instrument ID: CMS29

Operator ID: PF

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

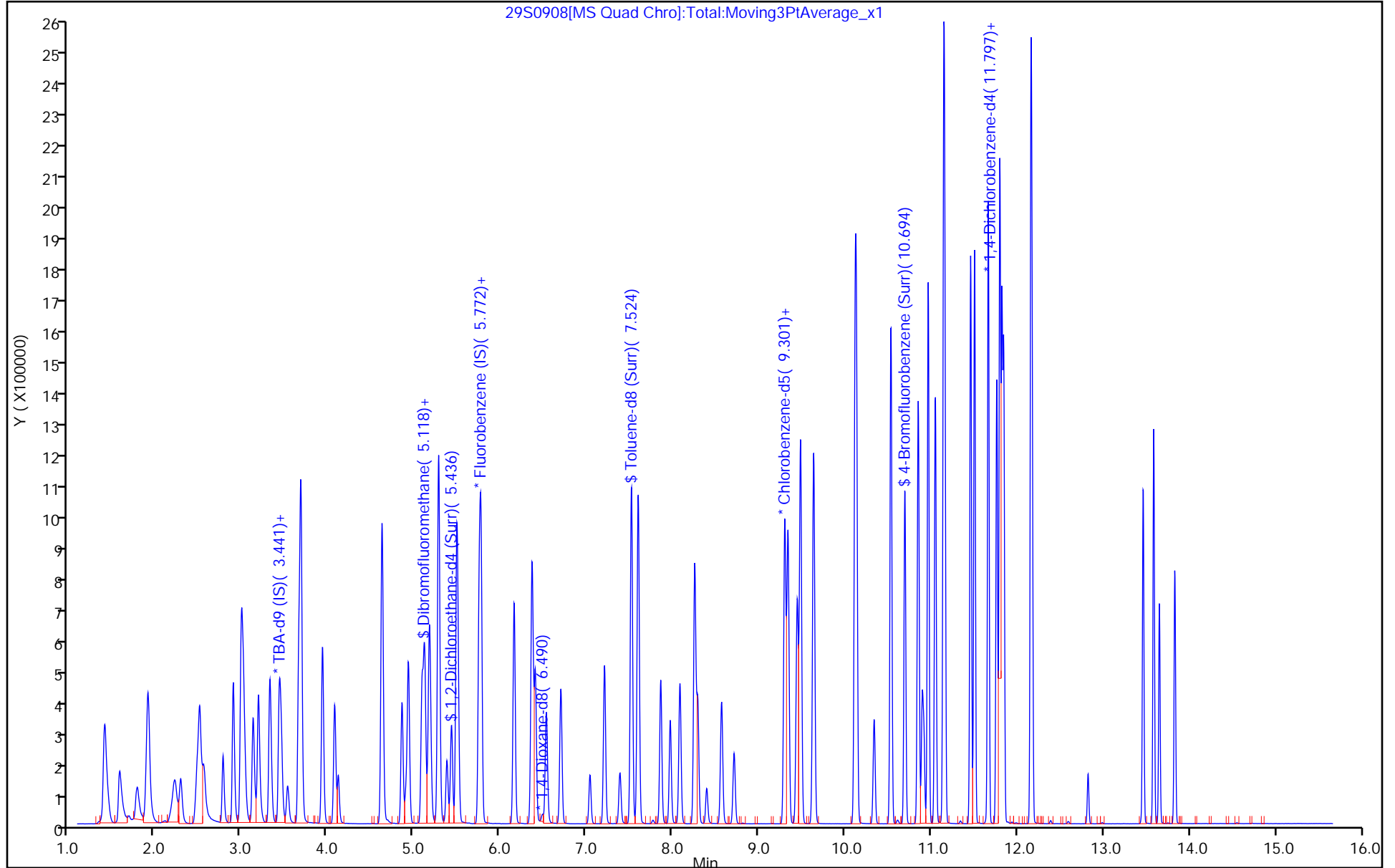
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260W29cps

Limit Group: MSVOA_8260_ICAL_SOIL_HIGH

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29S0908.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Sep-2022 09:39:43 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0088058-005
 Operator ID: PF Instrument ID: CMS29
 Raw Data: Smoothed
 Method: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\8260W29cps.m
 Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
 Method Label: TAL Chicago VOA Report
 Last Update: 08-Sep-2022 14:18:46 Calib Date: 28-Jun-2022 12:17:08
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS29\20220628-86672.b\std0100628.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: QRE8 Date: 08-Sep-2022 14:18:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	48.0	96.07
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	47.5	95.02
\$ 71 Toluene-d8 (Surr)	50.0	49.2	98.47
\$ 94 4-Bromofluorobenzene (Surr)	50.0	52.8	105.65

Eurofins Chicago

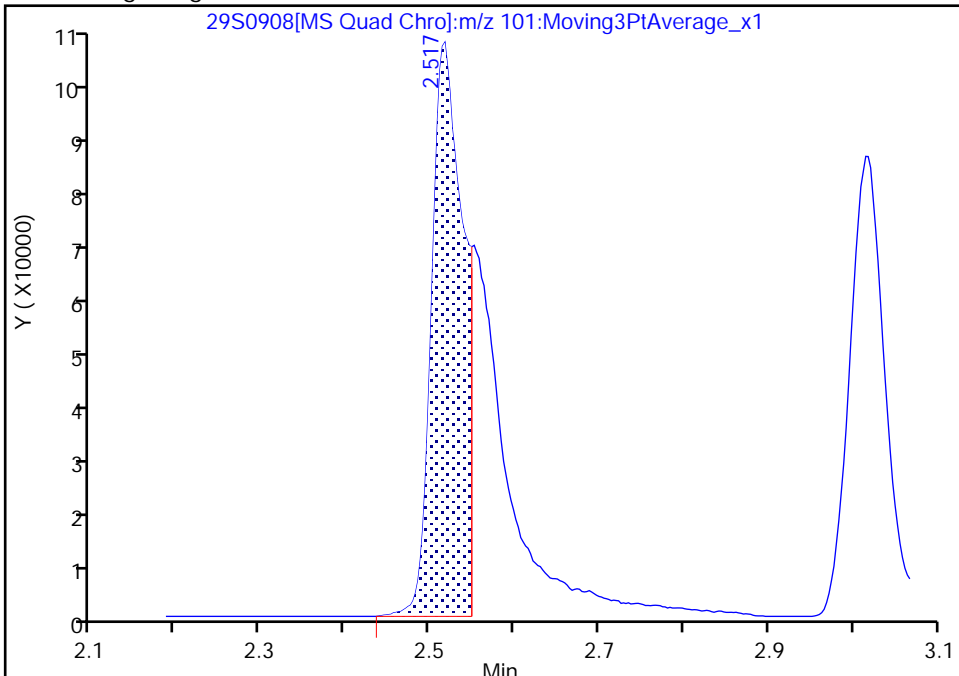
Data File: \\chromfs\Chicago\ChromData\CMS29\20220908-88058.b\29S0908.D
Injection Date: 08-Sep-2022 09:39:43 Instrument ID: CMS29
Lims ID: LCS
Client ID:
Operator ID: PF ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W29cps Limit Group: MSVOA_8260_ICAL_SOIL_HIGH
Column: DB624 (0.20 mm) Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

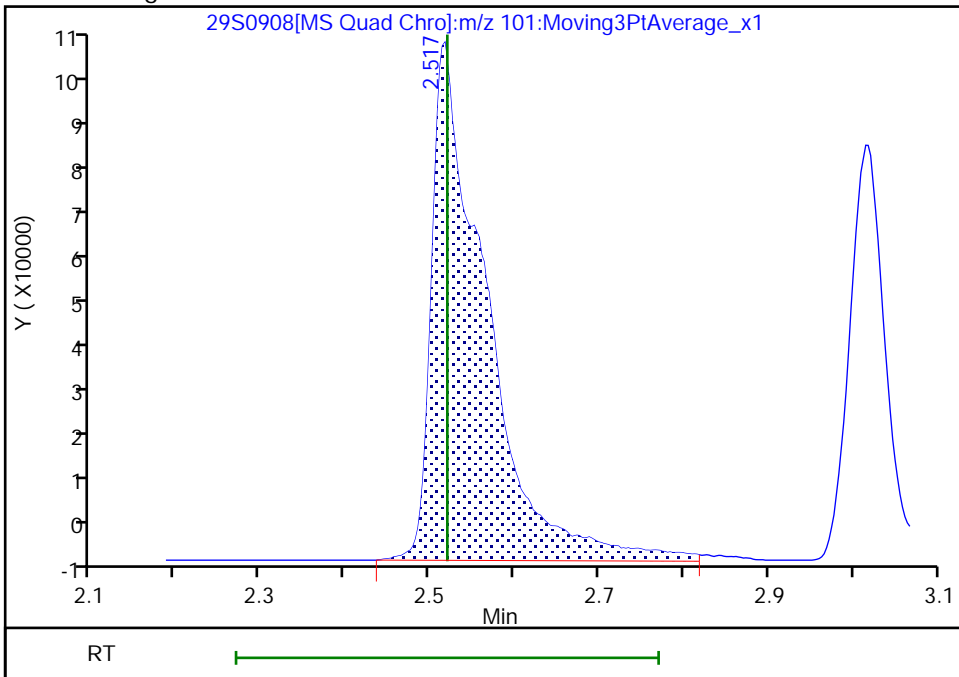
RT: 2.52
Area: 274810
Amount: 27.675113
Amount Units: ug/l

Processing Integration Results



RT: 2.52
Area: 471375
Amount: 47.470457
Amount Units: ug/l

Manual Integration Results



Reviewer: QRE8, 08-Sep-2022 14:17:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673843/8
 Matrix: Water Lab File ID: 1910909a.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 12:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	48.6		10	
71-43-2	Benzene	43.7		0.50	
75-25-2	Bromoform	36.7		1.0	
74-83-9	Bromomethane	35.4		3.0	
78-93-3	2-Butanone (MEK)	47.9		5.0	
75-15-0	Carbon disulfide	39.4		2.0	
56-23-5	Carbon tetrachloride	46.9		1.0	
108-90-7	Chlorobenzene	43.7		1.0	
124-48-1	Chlorodibromomethane	39.6		1.0	
75-00-3	Chloroethane	50.2		1.0	
67-66-3	Chloroform	46.7		2.0	
74-87-3	Chloromethane	46.0		1.0	
156-59-2	cis-1,2-Dichloroethene	43.2		1.0	
10061-01-5	cis-1,3-Dichloropropene	42.6		1.0	
110-82-7	Cyclohexane	48.2		1.0	
75-27-4	Dichlorobromomethane	43.3		1.0	
75-34-3	1,1-Dichloroethane	46.3		1.0	
107-06-2	1,2-Dichloroethane	48.8		1.0	
75-35-4	1,1-Dichloroethene	42.1		1.0	
78-87-5	1,2-Dichloropropane	46.3		1.0	
123-91-1	1,4-Dioxane	1080		100	
100-41-4	Ethylbenzene	42.4		0.50	
106-93-4	Ethylene Dibromide	40.9		1.0	
591-78-6	2-Hexanone	44.0		5.0	
98-82-8	Isopropylbenzene	45.2		1.0	
79-20-9	Methyl acetate	93.3		5.0	
108-87-2	Methylcyclohexane	44.5		1.0	
75-09-2	Methylene Chloride	40.5		5.0	
108-10-1	methyl isobutyl ketone	43.5		5.0	
1634-04-4	Methyl tert-butyl ether	45.8		1.0	
91-20-3	Naphthalene	44.2		1.0	
100-42-5	Styrene	42.5		1.0	
127-18-4	Tetrachloroethene	43.8		1.0	
108-88-3	Toluene	44.0		0.50	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-673843/8
 Matrix: Water Lab File ID: 1910909a.d
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/09/2022 12:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2(mm)
 Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 673843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
156-60-5	trans-1,2-Dichloroethene	43.2		1.0	
10061-02-6	trans-1,3-Dichloropropene	42.9		1.0	
71-55-6	1,1,1-Trichloroethane	46.4		1.0	
79-00-5	1,1,2-Trichloroethane	43.6		1.0	
79-01-6	Trichloroethene	46.6		0.50	
75-69-4	Trichlorofluoromethane	50.2		1.0	
95-63-6	1,2,4-Trimethylbenzene	44.8		1.0	
108-67-8	1,3,5-Trimethylbenzene	45.6		1.0	
108-05-4	Vinyl acetate	33.2		2.0	
75-01-4	Vinyl chloride	41.7		1.0	
1330-20-7	Xylenes, Total	85.7		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		72-124
1868-53-7	Dibromofluoromethane	94		75-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-126
2037-26-5	Toluene-d8 (Surr)	90		75-120

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\1910909a.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Sep-2022 12:30:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0088095-008
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 15:01:05 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8

Date: 09-Sep-2022 15:01:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.622	1.622	0.000	88	243014	50.0	52.9	
2 Chloromethane	50	1.825	1.825	0.000	89	214082	50.0	46.0	
3 Vinyl chloride	62	1.948	1.948	0.000	83	187029	50.0	41.7	
4 Butadiene	39	1.975	1.975	0.000	88	185476	50.0	42.6	
5 Bromomethane	94	2.264	2.264	0.000	90	106900	50.0	35.4	
6 Chloroethane	64	2.382	2.382	0.000	95	141705	50.0	50.2	
8 Dichlorofluoromethane	67	2.585	2.585	0.000	83	311069	50.0	48.5	
9 Trichlorofluoromethane	101	2.606	2.606	0.000	81	326737	50.0	50.2	
11 Ethyl ether	59	2.895	2.895	0.000	91	89323	50.0	45.6	
12 Acrolein	56	3.029	3.029	0.000	97	180115	2000.0	925.0	
13 1,1-Dichloroethene	96	3.109	3.109	0.000	88	165712	50.0	42.1	
14 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.136	3.136	0.000	84	198987	50.0	45.8	
15 Acetone	43	3.179	3.179	0.000	97	18358	50.0	48.6	
16 Iodomethane	142	3.259	3.259	0.000	98	307256	50.0	43.7	
17 Carbon disulfide	76	3.318	3.318	0.000	100	540824	50.0	39.4	
20 3-Chloro-1-propene	76	3.457	3.457	0.000	91	113101	50.0	43.9	
21 Methyl acetate	43	3.484	3.484	0.000	97	90923	100.0	93.3	
22 Methylene Chloride	84	3.575	3.575	0.000	91	151291	50.0	40.5	
* 23 TBA-d9 (IS)	65	3.617	3.617	0.000	98	100761	1000.0	1000.0	
24 2-Methyl-2-propanol	59	3.692	3.692	0.000	99	55222	500.0	463.5	
25 Acrylonitrile	53	3.821	3.821	0.000	99	234660	500.0	424.4	
27 Methyl tert-butyl ether	73	3.831	3.831	0.000	81	272959	50.0	45.8	
26 trans-1,2-Dichloroethene	96	3.831	3.831	0.000	95	189670	50.0	43.2	
28 Hexane	57	4.083	4.083	0.000	90	332790	50.0	47.7	
29 1,1-Dichloroethane	63	4.238	4.238	0.000	85	323504	50.0	46.3	
30 Vinyl acetate	43	4.281	4.281	0.000	99	120188	50.0	33.2	
34 2,2-Dichloropropane	77	4.800	4.800	0.000	70	266338	50.0	45.5	
35 cis-1,2-Dichloroethene	96	4.800	4.800	0.000	87	187695	50.0	43.2	
36 2-Butanone (MEK)	43	4.821	4.821	0.000	46	25498	50.0	47.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Chlorobromomethane	128	5.040	5.040	0.000	91	75483	50.0	43.4	
41 Tetrahydrofuran	42	5.094	5.094	0.000	79	31788	100.0	88.8	
42 Chloroform	83	5.115	5.115	0.000	83	282877	50.0	46.7	
\$ 43 Dibromofluoromethane	113	5.276	5.276	0.000	64	157134	50.0	47.0	
44 1,1,1-Trichloroethane	97	5.302	5.302	0.000	91	297212	50.0	46.4	
45 Cyclohexane	56	5.356	5.356	0.000	90	381780	50.0	48.2	
46 1,1-Dichloropropene	75	5.468	5.468	0.000	91	265736	50.0	46.2	
47 Carbon tetrachloride	117	5.468	5.468	0.000	85	286373	50.0	46.9	
48 Isobutyl alcohol	43	5.575	5.575	0.000	94	56874	1250.0	1003.0	
\$ 49 1,2-Dichloroethane-d4 (Surr)	65	5.629	5.629	0.000	97	135320	50.0	50.8	
50 Benzene	78	5.682	5.682	0.000	96	710501	50.0	43.7	
51 1,2-Dichloroethane	62	5.704	5.704	0.000	76	168720	50.0	48.8	
54 n-Heptane	43	5.934	5.934	0.000	90	309903	50.0	44.7	
* 55 Fluorobenzene (IS)	96	5.971	5.971	0.000	99	744010	50.0	50.0	
57 Trichloroethene	130	6.356	6.356	0.000	88	221717	50.0	46.6	
59 Methylcyclohexane	83	6.565	6.565	0.000	92	382147	50.0	44.5	
60 1,2-Dichloropropane	63	6.613	6.613	0.000	93	156032	50.0	46.3	
* 62 1,4-Dioxane-d8	96	6.704	6.704	0.000	84	14291	1000.0	1000.0	
63 Dibromomethane	93	6.742	6.742	0.000	88	61076	50.0	42.4	
65 1,4-Dioxane	88	6.763	6.763	0.000	62	15837	1000.0	1082.9	
66 Dichlorobromomethane	83	6.913	6.913	0.000	93	177881	50.0	43.3	
68 2-Chloroethyl vinyl ether	63	7.250	7.250	0.000	91	45851	50.0	36.5	
69 cis-1,3-Dichloropropene	75	7.421	7.421	0.000	91	227249	50.0	42.6	
70 4-Methyl-2-pentanone (MIBK)	43	7.603	7.603	0.000	95	58736	50.0	43.5	
\$ 71 Toluene-d8 (Surr)	98	7.737	7.737	0.000	92	701392	50.0	45.2	
72 Toluene	92	7.817	7.817	0.000	93	469777	50.0	44.0	
73 trans-1,3-Dichloropropene	75	8.084	8.084	0.000	90	173031	50.0	42.9	
74 Ethyl methacrylate	69	8.186	8.186	0.000	92	107042	50.0	45.8	
75 1,1,2-Trichloroethane	97	8.309	8.309	0.000	88	85226	50.0	43.6	
76 Tetrachloroethene	166	8.475	8.475	0.000	91	222405	50.0	43.8	
77 1,3-Dichloropropane	76	8.518	8.518	0.000	92	157677	50.0	43.7	
78 2-Hexanone	43	8.619	8.619	0.000	92	37840	50.0	44.0	
80 Chlorodibromomethane	129	8.796	8.796	0.000	88	114575	50.0	39.6	
81 Ethylene Dibromide	107	8.946	8.946	0.000	100	84000	50.0	40.9	
* 82 Chlorobenzene-d5	117	9.529	9.529	0.000	83	544938	50.0	50.0	
84 Chlorobenzene	112	9.566	9.566	0.000	95	503307	50.0	43.7	
85 1,1,1,2-Tetrachloroethane	131	9.673	9.673	0.000	90	168221	50.0	41.3	
86 Ethylbenzene	106	9.705	9.705	0.000	99	306694	50.0	42.4	
87 m-Xylene & p-Xylene	91	9.850	9.850	0.000	98	713091	50.0	43.0	
88 o-Xylene	91	10.315	10.315	0.000	93	713220	50.0	42.7	
89 Styrene	104	10.331	10.331	0.000	95	533203	50.0	42.5	
90 Bromoform	173	10.540	10.540	0.000	97	56215	50.0	36.7	
91 Isopropylbenzene	105	10.716	10.716	0.000	98	972200	50.0	45.2	
\$ 94 4-Bromofluorobenzene (Surr)	95	10.877	10.877	0.000	90	235720	50.0	52.7	
95 Bromobenzene	156	11.032	11.032	0.000	93	195629	50.0	45.1	
96 1,1,2,2-Tetrachloroethane	83	11.037	11.037	0.000	60	81434	50.0	43.9	
97 1,2,3-Trichloropropane	110	11.080	11.080	0.000	86	25839	50.0	42.1	
98 trans-1,4-Dichloro-2-butene	53	11.096	11.096	0.000	89	25879	50.0	47.7	
99 N-Propylbenzene	91	11.139	11.139	0.000	98	1121130	50.0	45.4	
100 2-Chlorotoluene	91	11.225	11.225	0.000	96	603005	50.0	45.1	
101 1,3,5-Trimethylbenzene	105	11.310	11.310	0.000	94	803916	50.0	45.6	
102 4-Chlorotoluene	91	11.332	11.332	0.000	95	692175	50.0	46.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 tert-Butylbenzene	119	11.620	11.620	0.000	91	762143	50.0	45.9	
106 1,2,4-Trimethylbenzene	105	11.663	11.663	0.000	94	791171	50.0	44.8	
107 sec-Butylbenzene	105	11.824	11.824	0.000	93	1096102	50.0	44.6	
108 1,3-Dichlorobenzene	146	11.925	11.925	0.000	98	406784	50.0	43.9	
109 4-Isopropyltoluene	119	11.952	11.952	0.000	95	978142	50.0	46.3	
* 110 1,4-Dichlorobenzene-d4	152	11.984	11.984	0.000	93	267799	50.0	50.0	
111 1,4-Dichlorobenzene	146	12.006	12.006	0.000	96	389032	50.0	42.8	
115 n-Butylbenzene	91	12.305	12.305	0.000	97	811890	50.0	43.9	
114 1,2-Dichlorobenzene	146	12.332	12.332	0.000	98	337262	50.0	42.3	
116 1,2-Dibromo-3-Chloropropane	75	12.974	12.974	0.000	61	11998	50.0	37.5	
118 1,2,4-Trichlorobenzene	180	13.605	13.605	0.000	90	233867	50.0	50.2	
119 Hexachlorobutadiene	225	13.723	13.723	0.000	94	164896	50.0	48.2	
120 Naphthalene	128	13.792	13.792	0.000	99	322038	50.0	44.2	
121 1,2,3-Trichlorobenzene	180	13.980	13.980	0.000	95	182952	50.0	46.6	
S 124 Xylenes, Total	91				0		100.0	85.7	
S 125 Trihalomethanes, Total	1				0			166.4	
S 126 1,3-Dichloropropene, Total	1				0			85.6	
S 127 Trimethylbenzene, Total	1				0			90.4	
S 128 1,2-Dichloroethene, Total	96				0		100.0	86.4	

QC Flag Legend

Processing Flags

Reagents:

8260/624GASWK_01476	Amount Added: 2.50	Units: uL	
8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01415	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00611	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260LOW IS/SS_00313	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19I0909a.d

Injection Date: 09-Sep-2022 12:30:30

Instrument ID: CMS19

Operator ID: EA

Lims ID: LCS

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

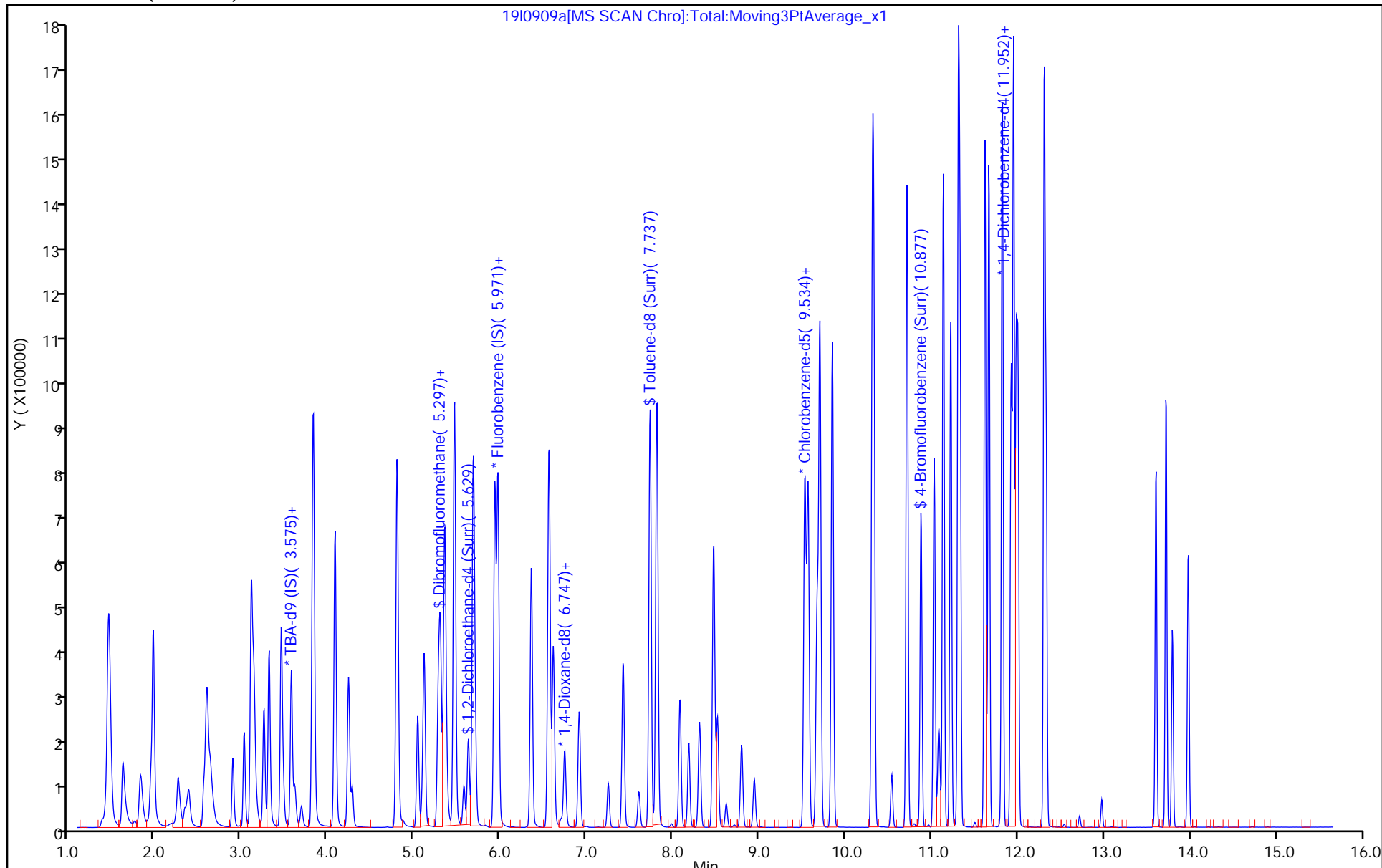
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260W19cps

Limit Group: MSVOA_8260_ICAL_WATER

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\19I0909a.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Sep-2022 12:30:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 500-0088095-008
 Operator ID: EA Instrument ID: CMS19
 Raw Data: Smoothed

Method: \\chromfs\Chicago\ChromData\CMS19\20220909-88095.b\8260W19cps.m
 Limit Group: MSVOA_8260_ICAL_WATER
 Method Label: TAL Chicago VOA Report
 Last Update: 09-Sep-2022 15:01:05 Calib Date: 29-Jul-2022 20:02:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS19\20220729-87271.b\STD010AP.d

Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1654

First Level Reviewer: QRE8

Date: 09-Sep-2022 15:01:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	50.0	47.0	93.98
\$ 49 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.70
\$ 71 Toluene-d8 (Surr)	50.0	45.2	90.49
\$ 94 4-Bromofluorobenzene (Surr)	50.0	52.7	105.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MS Lab Sample ID: 500-221506-5 MS
 Matrix: Solid Lab File ID: 500-221506-a-5-b ms.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.5823(g) Date Analyzed: 09/05/2022 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.0591		0.020
71-43-2	Benzene	0.0428		0.0020
75-25-2	Bromoform	0.0492		0.0020
74-83-9	Bromomethane	0.0440		0.0050
78-93-3	2-Butanone (MEK)	0.0555		0.0050
75-15-0	Carbon disulfide	0.0414		0.0050
56-23-5	Carbon tetrachloride	0.0490		0.0020
108-90-7	Chlorobenzene	0.0402		0.0020
124-48-1	Chlorodibromomethane	0.0469		0.0020
75-00-3	Chloroethane	0.0482		0.0050
67-66-3	Chloroform	0.0467		0.0020
74-87-3	Chloromethane	0.0492		0.0050
156-59-2	cis-1,2-Dichloroethene	0.0441		0.0020
10061-01-5	cis-1,3-Dichloropropene	0.0381		0.0020
110-82-7	Cyclohexane	0.0452		0.0020
75-27-4	Dichlorobromomethane	0.0441		0.0020
75-34-3	1,1-Dichloroethane	0.0475		0.0020
107-06-2	1,2-Dichloroethane	0.0492		0.0050
75-35-4	1,1-Dichloroethene	0.0452		0.0020
78-87-5	1,2-Dichloropropane	0.0453		0.0020
123-91-1	1,4-Dioxane	1.98		0.10
100-41-4	Ethylbenzene	0.0379		0.0020
106-93-4	Ethylene Dibromide	0.0437		0.0020
591-78-6	2-Hexanone	0.0473		0.0050
98-82-8	Isopropylbenzene	0.0342		0.0020
79-20-9	Methyl acetate	0.113		0.025
108-87-2	Methylcyclohexane	0.0405		0.0020
75-09-2	Methylene Chloride	0.0429		0.0050
108-10-1	methyl isobutyl ketone	0.0451		0.0050
91-57-6	2-Methylnaphthalene	<0.0050		0.0050
1634-04-4	Methyl tert-butyl ether	0.0441		0.0020
91-20-3	Naphthalene	0.0304		0.0050
100-42-5	Styrene	0.0367		0.0020
127-18-4	Tetrachloroethene	0.0423		0.0020

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MS Lab Sample ID: 500-221506-5 MS
 Matrix: Solid Lab File ID: 500-221506-a-5-b ms.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.5823(g) Date Analyzed: 09/05/2022 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
108-88-3	Toluene	0.0410		0.0020
156-60-5	trans-1,2-Dichloroethene	0.0447		0.0020
10061-02-6	trans-1,3-Dichloropropene	0.0389		0.0020
71-55-6	1,1,1-Trichloroethane	0.0473		0.0020
79-00-5	1,1,2-Trichloroethane	0.0473		0.0020
79-01-6	Trichloroethene	0.0434		0.0020
75-69-4	Trichlorofluoromethane	0.0499		0.0050
95-63-6	1,2,4-Trimethylbenzene	0.0321		0.0020
108-67-8	1,3,5-Trimethylbenzene	0.0327		0.0020
108-05-4	Vinyl acetate	0.0214		0.0050
75-01-4	Vinyl chloride	0.0474		0.0020
1330-20-7	Xylenes, Total	0.0746		0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		75-131
1868-53-7	Dibromofluoromethane	100		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-134
2037-26-5	Toluene-d8 (Surr)	97		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-b.ms.D
 Lims ID: 500-221506-A-5-B MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 05-Sep-2022 16:52:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-b.ms
 Misc. Info.: 500-0087999-015
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:21:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1638

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:47:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
2 Chloromethane	50	1.713	1.716	-0.003	100	318388	50.0	48.7	
3 Vinyl chloride	62	1.826	1.826	-0.003	99	285807	50.0	47.0	a
5 Bromomethane	94	2.152	2.153	-0.001	89	188400	50.0	43.7	
6 Chloroethane	64	2.243	2.240	0.003	99	175436	50.0	47.8	
8 Trichlorofluoromethane	101	2.484	2.484	0.008	94	371819	50.0	49.5	a
13 1,1-Dichloroethene	96	2.958	2.961	-0.003	97	183694	50.0	44.8	
15 Acetone	43	3.014	3.023	0.002	98	58361	50.0	58.6	
17 Carbon disulfide	76	3.165	3.162	0.003	99	593983	50.0	41.1	
21 Methyl acetate	43	3.315	3.315	0.000	97	229748	100.0	111.6	
22 Methylene Chloride	84	3.409	3.406	0.003	93	182900	50.0	42.6	
* 23 TBA-d9 (IS)	65	3.431	3.434	-0.003	95	242492	1068.6	1068.6	
27 Methyl tert-butyl ether	73	3.664	3.664	0.000	92	463178	50.0	43.8	
26 trans-1,2-Dichloroethene	96	3.667	3.664	0.003	85	195678	50.0	44.3	
29 1,1-Dichloroethane	63	4.061	4.061	0.000	98	343176	50.0	47.1	
30 Vinyl acetate	43	4.106	4.103	0.003	98	134013	50.0	21.2	
35 cis-1,2-Dichloroethene	96	4.617	4.614	0.003	97	196294	50.0	43.7	
36 2-Butanone (MEK)	43	4.628	4.628	0.000	53	67291	50.0	55.0	
42 Chloroform	83	4.926	4.926	0.000	98	311656	50.0	46.3	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	78	189589	53.4	53.5	
44 1,1,1-Trichloroethane	97	5.113	5.113	0.000	98	302101	50.0	46.9	
45 Cyclohexane	56	5.167	5.167	0.000	93	382829	50.0	44.8	
46 Carbon tetrachloride	117	5.280	5.277	0.003	88	288739	50.0	48.5	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	98	203716	53.4	55.4	
50 Benzene	78	5.490	5.487	0.003	97	688135	50.0	42.4	
51 1,2-Dichloroethane	62	5.504	5.507	-0.003	86	223272	50.0	48.8	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	97	788206	53.4	53.4	
57 Trichloroethene	130	6.156	6.159	-0.003	96	177556	50.0	43.1	
59 Methylcyclohexane	83	6.366	6.369	-0.003	94	342994	50.0	40.2	
60 1,2-Dichloropropane	63	6.409	6.403	0.006	92	172426	50.0	44.9	
* 62 1,4-Dioxane-d8	96	6.485	6.482	0.003	77	17101	1068.6	1068.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
65 1,4-Dioxane	88	6.545	6.553	0.000	68	45596	1000.0	1965.8	
66 Dichlorobromomethane	83	6.701	6.701	0.000	94	213561	50.0	43.7	
69 cis-1,3-Dichloropropene	75	7.208	7.214	-0.006	89	226079	50.0	37.8	
70 4-Methyl-2-pentanone (MIBK)	43	7.390	7.387	0.003	98	142317	50.0	44.8	
\$ 71 Toluene-d8 (Surr)	98	7.526	7.526	0.000	94	737682	53.4	51.7	
72 Toluene	92	7.602	7.603	-0.001	87	415123	50.0	40.6	
73 trans-1,3-Dichloropropene	75	7.863	7.866	-0.003	96	204900	50.0	38.6	
75 1,1,2-Trichloroethane	97	8.087	8.090	-0.003	93	133818	50.0	46.9	
76 Tetrachloroethene	166	8.263	8.266	0.000	95	179408	50.0	42.0	
78 2-Hexanone	43	8.396	8.396	0.000	97	99233	50.0	46.9	
80 Chlorodibromomethane	129	8.572	8.572	0.003	87	164675	50.0	46.5	
81 Ethylene Dibromide	107	8.717	8.714	0.003	94	123583	50.0	43.4	
* 82 Chlorobenzene-d5	117	9.304	9.307	-0.003	86	585896	53.4	53.4	
84 Chlorobenzene	112	9.344	9.344	0.000	94	435376	50.0	39.9	
86 Ethylbenzene	106	9.488	9.491	-0.003	98	232356	50.0	37.6	
87 m-Xylene & p-Xylene	91	9.644	9.641	-0.003	98	562070	50.0	37.2	
88 o-Xylene	91	10.123	10.123	0.000	93	590014	50.0	36.7	
89 Styrene	104	10.137	10.140	-0.003	95	470925	50.0	36.4	
90 Bromoform	173	10.342	10.345	-0.003	98	113656	50.0	48.8	
91 Isopropylbenzene	105	10.540	10.537	0.003	98	702499	50.0	34.0	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	269807	53.4	50.3	
101 1,3,5-Trimethylbenzene	105	11.147	11.147	0.000	92	586943	50.0	32.4	
106 1,2,4-Trimethylbenzene	105	11.504	11.504	0.000	95	585109	50.0	31.8	
* 110 1,4-Dichlorobenzene-d4	152	11.819	11.822	-0.003	96	360922	53.4	53.4	
120 Naphthalene	128	13.642	13.642	0.000	99	361071	50.0	30.1	
S 124 Xylenes, Total	100				0		100.0	74.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624GASWK_01474	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-b.ms.D

Injection Date: 05-Sep-2022 16:52:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-5-B MS

Worklist Smp#: 15

Client ID: B-5 (8'-10')

Purge Vol: 5.000 mL

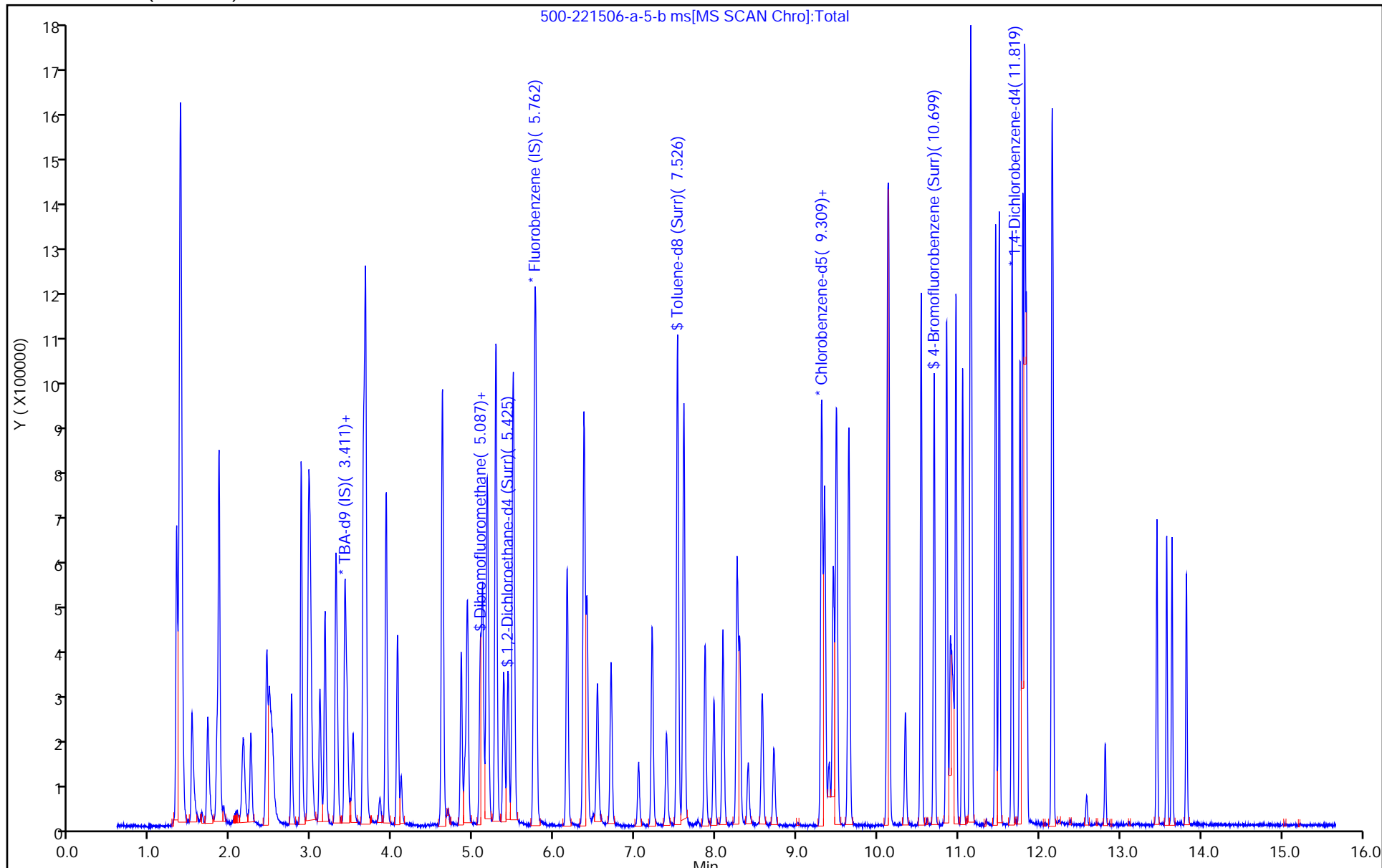
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-b ms.D
 Lims ID: 500-221506-A-5-B MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 05-Sep-2022 16:52:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-b ms
 Misc. Info.: 500-0087999-015
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:21:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1638

First Level Reviewer: thaneeratw Date: 06-Sep-2022 12:47:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	53.5	100.10
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	55.4	103.60
\$ 71 Toluene-d8 (Surr)	53.4	51.7	96.84
\$ 93 4-Bromofluorobenzene (Surr)	53.4	50.3	94.17

Eurofins Chicago

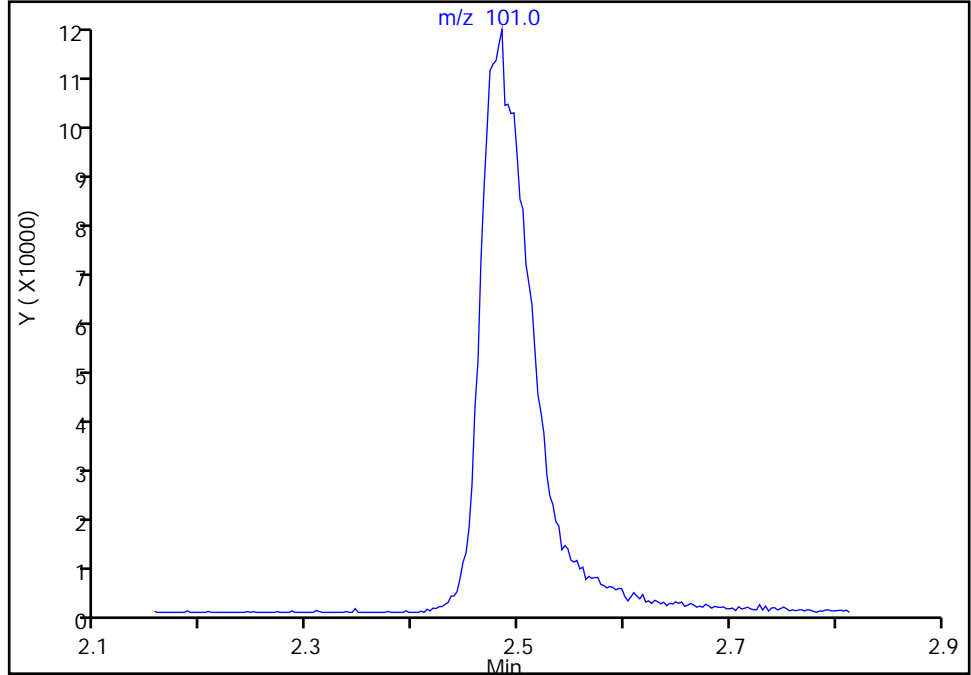
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Injection Date: 05-Sep-2022 16:52:30 Instrument ID: CMS16
Lims ID: 500-221506-A-5-B MS
Client ID: B-5 (8'-10')
Operator ID: ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

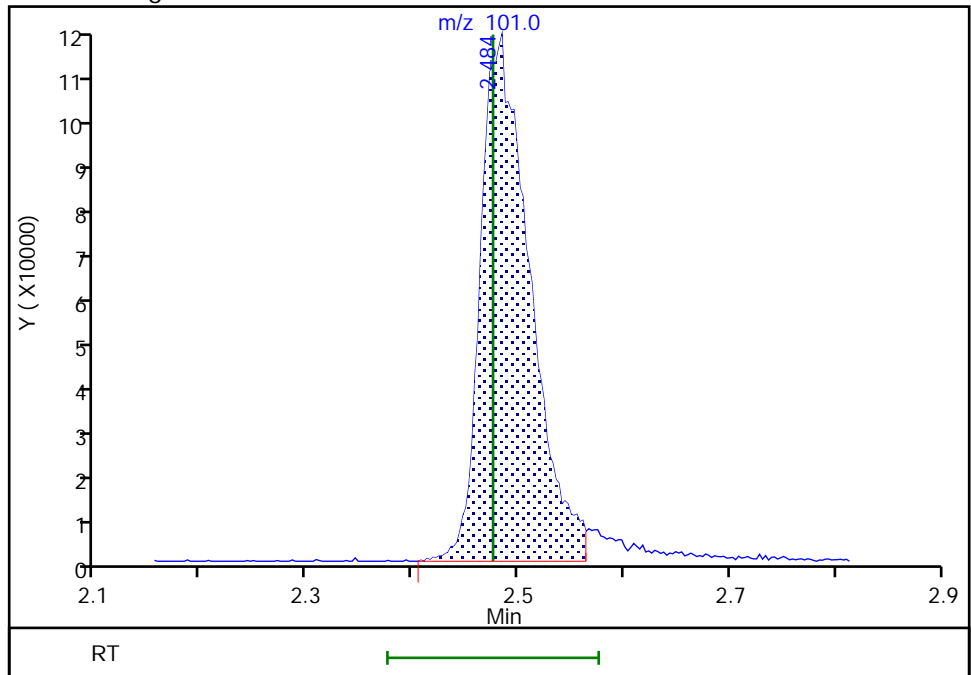
Not Detected
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48
Area: 371819
Amount: 49.493965
Amount Units: UG/L



Reviewer: thaneeratw, 06-Sep-2022 12:19:47
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Chicago

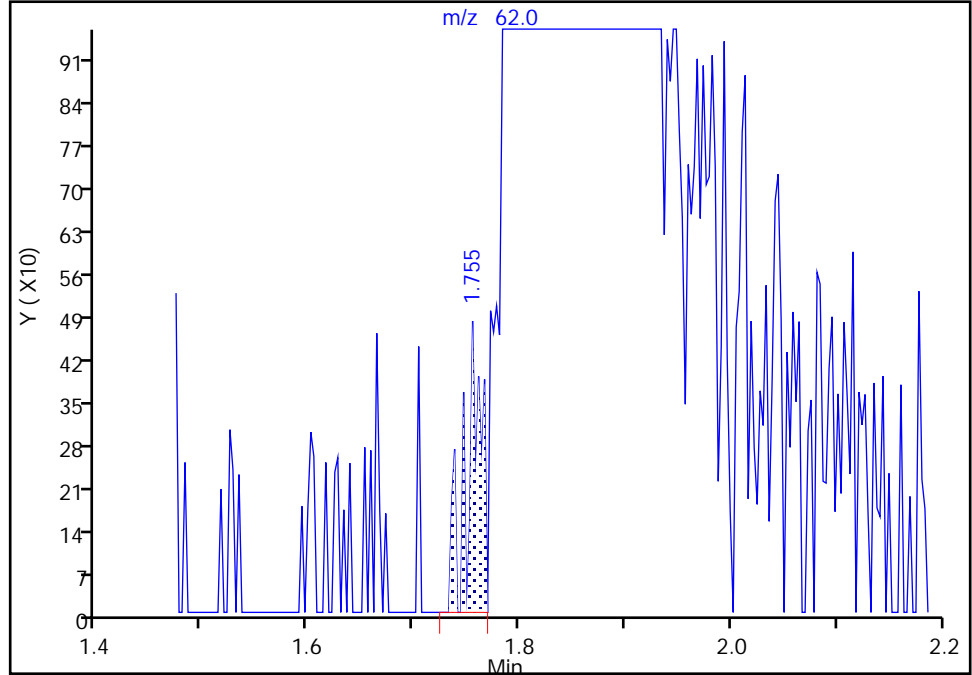
Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-b.ms.D
Injection Date: 05-Sep-2022 16:52:30 Instrument ID: CMS16
Lims ID: 500-221506-A-5-B MS
Client ID: B-5 (8'-10')
Operator ID: ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260s16_test Limit Group: MSVOA_8260_ICAL_SOIL_LOW
Column: DB624 (0.20 mm) Detector: MS SCAN

3 Vinyl chloride, CAS: 75-01-4

Signal: 1

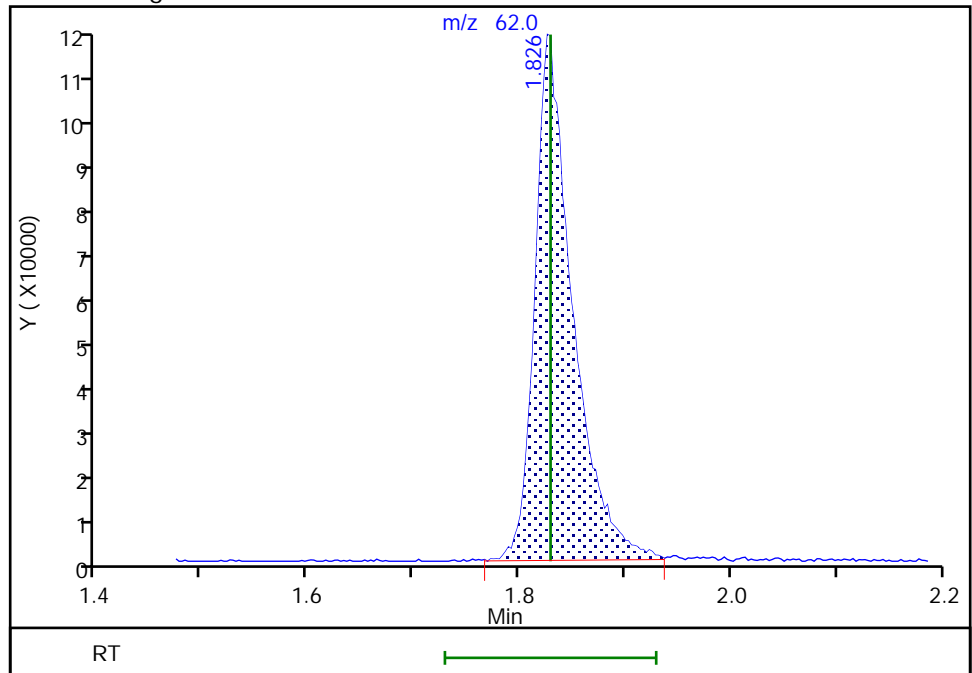
RT: 1.76
Area: 457
Amount: 0.075076
Amount Units: UG/L

Processing Integration Results



RT: 1.83
Area: 285807
Amount: 46.952524
Amount Units: UG/L

Manual Integration Results



Reviewer: thaneeratw, 06-Sep-2022 12:19:14
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MSD Lab Sample ID: 500-221506-5 MSD
 Matrix: Solid Lab File ID: 500-221506-a-5-c msd.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.4805(g) Date Analyzed: 09/05/2022 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	0.0464		0.020	
71-43-2	Benzene	0.0463		0.0020	
75-25-2	Bromoform	0.0500		0.0020	
74-83-9	Bromomethane	0.0444		0.0051	
78-93-3	2-Butanone (MEK)	0.0348		0.0051	
75-15-0	Carbon disulfide	0.0463		0.0051	
56-23-5	Carbon tetrachloride	0.0541		0.0020	
108-90-7	Chlorobenzene	0.0450		0.0020	
124-48-1	Chlorodibromomethane	0.0494		0.0020	
75-00-3	Chloroethane	0.0457		0.0051	
67-66-3	Chloroform	0.0508		0.0020	
74-87-3	Chloromethane	0.0474		0.0051	
156-59-2	cis-1,2-Dichloroethene	0.0486		0.0020	
10061-01-5	cis-1,3-Dichloropropene	0.0411		0.0020	
110-82-7	Cyclohexane	0.0515		0.0020	
75-27-4	Dichlorobromomethane	0.0474		0.0020	
75-34-3	1,1-Dichloroethane	0.0522		0.0020	
107-06-2	1,2-Dichloroethane	0.0522		0.0051	
75-35-4	1,1-Dichloroethene	0.0510		0.0020	
78-87-5	1,2-Dichloropropane	0.0465		0.0020	
123-91-1	1,4-Dioxane	1.68		0.10	
100-41-4	Ethylbenzene	0.0434		0.0020	
106-93-4	Ethylene Dibromide	0.0457		0.0020	
591-78-6	2-Hexanone	0.0377		0.0051	
98-82-8	Isopropylbenzene	0.0395		0.0020	
79-20-9	Methyl acetate	0.0984		0.026	
108-87-2	Methylcyclohexane	0.0458		0.0020	
75-09-2	Methylene Chloride	0.0459		0.0051	
108-10-1	methyl isobutyl ketone	0.0387		0.0051	
91-57-6	2-Methylnaphthalene	<0.0051		0.0051	
1634-04-4	Methyl tert-butyl ether	0.0454		0.0020	
91-20-3	Naphthalene	0.0370		0.0051	
100-42-5	Styrene	0.0413		0.0020	
127-18-4	Tetrachloroethene	0.0486		0.0020	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MSD Lab Sample ID: 500-221506-5 MSD
 Matrix: Solid Lab File ID: 500-221506-a-5-c msd.D
 Analysis Method: 8260B Date Collected: 08/29/2022 14:15
 Sample wt/vol: 6.4805(g) Date Analyzed: 09/05/2022 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: 24.7 % Solids: 75.3 Level: (low/med) Low
 Analysis Batch No.: 673135 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-88-3	Toluene	0.0450		0.0020	
156-60-5	trans-1,2-Dichloroethene	0.0506		0.0020	
10061-02-6	trans-1,3-Dichloropropene	0.0404		0.0020	
71-55-6	1,1,1-Trichloroethane	0.0531		0.0020	
79-00-5	1,1,2-Trichloroethane	0.0485		0.0020	
79-01-6	Trichloroethene	0.0480		0.0020	
75-69-4	Trichlorofluoromethane	0.0518		0.0051	
95-63-6	1,2,4-Trimethylbenzene	0.0389		0.0020	
108-67-8	1,3,5-Trimethylbenzene	0.0389		0.0020	
108-05-4	Vinyl acetate	0.0352		0.0051	
75-01-4	Vinyl chloride	0.0488		0.0020	
1330-20-7	Xylenes, Total	0.0842		0.0041	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		75-131
1868-53-7	Dibromofluoromethane	102		75-126
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-134
2037-26-5	Toluene-d8 (Surr)	96		75-124

Eurofins Chicago
Target Compound Quantitation Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-c.msd.D
 Lims ID: 500-221506-A-5-C MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 05-Sep-2022 17:18:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-c.msd
 Misc. Info.: 500-0087999-016
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:21:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1638

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:48:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
2 Chloromethane	50	1.713	1.716	-0.003	99	301981	50.0	46.2	
3 Vinyl chloride	62	1.829	1.826	0.000	99	290120	50.0	47.6	
5 Bromomethane	94	2.153	2.153	0.000	89	187181	50.0	43.4	
6 Chloroethane	64	2.246	2.240	0.006	98	163735	50.0	44.6	
8 Trichlorofluoromethane	101	2.479	2.484	0.003	95	379931	50.0	50.6	
13 1,1-Dichloroethene	96	2.958	2.961	-0.003	98	204243	50.0	49.8	
15 Acetone	43	3.012	3.023	0.000	99	45145	50.0	45.3	
17 Carbon disulfide	76	3.162	3.162	0.000	100	654121	50.0	45.2	
21 Methyl acetate	43	3.312	3.315	-0.003	97	197975	100.0	96.1	
22 Methylene Chloride	84	3.406	3.406	0.000	94	192502	50.0	44.8	
* 23 TBA-d9 (IS)	65	3.434	3.434	0.000	96	235552	1068.6	1068.6	
27 Methyl tert-butyl ether	73	3.661	3.664	-0.003	92	469186	50.0	44.3	
26 trans-1,2-Dichloroethene	96	3.667	3.664	0.003	87	218012	50.0	49.4	
29 1,1-Dichloroethane	63	4.058	4.061	-0.003	98	371166	50.0	50.9	
30 Vinyl acetate	43	4.103	4.103	0.000	99	217226	50.0	34.4	
35 cis-1,2-Dichloroethene	96	4.617	4.614	0.003	98	212991	50.0	47.5	
36 2-Butanone (MEK)	43	4.682	4.628	0.054	77	41593	50.0	34.0	
42 Chloroform	83	4.920	4.926	-0.006	98	333982	50.0	49.6	
\$ 43 Dibromofluoromethane	113	5.082	5.085	-0.003	71	193118	53.4	54.5	
44 1,1,1-Trichloroethane	97	5.110	5.113	-0.003	98	333535	50.0	51.8	
45 Cyclohexane	56	5.170	5.167	0.003	94	428944	50.0	50.2	
46 Carbon tetrachloride	117	5.277	5.277	0.000	92	314144	50.0	52.8	
\$ 48 1,2-Dichloroethane-d4 (Surr)	65	5.425	5.425	0.000	98	196168	53.4	53.3	
50 Benzene	78	5.487	5.487	0.000	97	734505	50.0	45.2	
51 1,2-Dichloroethane	62	5.501	5.507	-0.006	73	233470	50.0	51.0	
* 55 Fluorobenzene (IS)	96	5.771	5.771	0.000	98	788540	53.4	53.4	
57 Trichloroethene	130	6.156	6.159	-0.003	97	193285	50.0	46.9	
59 Methylcyclohexane	83	6.366	6.369	-0.003	95	382279	50.0	44.7	
60 1,2-Dichloropropane	63	6.406	6.403	0.003	89	174249	50.0	45.4	
* 62 1,4-Dioxane-d8	96	6.488	6.482	0.006	79	19310	1068.6	1068.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt UG/L	OnCol Amt UG/L	Flags
65 1,4-Dioxane	88	6.542	6.553	-0.003	63	42833	1000.0	1635.4	
66 Dichlorobromomethane	83	6.701	6.701	0.000	91	225981	50.0	46.2	
69 cis-1,3-Dichloropropene	75	7.211	7.214	-0.003	89	241269	50.0	40.1	
70 4-Methyl-2-pentanone (MIBK)	43	7.387	7.387	0.000	98	120848	50.0	37.8	
\$ 71 Toluene-d8 (Surr)	98	7.523	7.526	-0.003	85	734320	53.4	51.2	
72 Toluene	92	7.603	7.603	0.000	88	451490	50.0	43.9	
73 trans-1,3-Dichloropropene	75	7.861	7.866	-0.005	95	210994	50.0	39.5	
75 1,1,2-Trichloroethane	97	8.085	8.090	-0.005	94	135940	50.0	47.3	
76 Tetrachloroethene	166	8.260	8.266	-0.003	95	203750	50.0	47.4	
78 2-Hexanone	43	8.396	8.396	0.000	96	78303	50.0	36.8	
80 Chlorodibromomethane	129	8.572	8.572	0.003	88	171689	50.0	48.2	
81 Ethylene Dibromide	107	8.717	8.714	0.003	97	127861	50.0	44.6	
* 82 Chlorobenzene-d5	117	9.307	9.307	0.000	86	589258	53.4	53.4	
84 Chlorobenzene	112	9.344	9.344	0.000	93	482266	50.0	43.9	
86 Ethylbenzene	106	9.491	9.491	0.000	98	263411	50.0	42.4	
87 m-Xylene & p-Xylene	91	9.644	9.641	-0.003	98	630977	50.0	41.6	
88 o-Xylene	91	10.121	10.123	-0.003	94	656830	50.0	40.7	
89 Styrene	104	10.140	10.140	0.000	96	525679	50.0	40.4	
90 Bromoform	173	10.342	10.345	-0.003	97	114281	50.0	48.8	
91 Isopropylbenzene	105	10.540	10.537	0.003	98	814246	50.0	38.5	
\$ 93 4-Bromofluorobenzene (Surr)	95	10.699	10.702	-0.003	0	273273	53.4	49.9	
101 1,3,5-Trimethylbenzene	105	11.144	11.147	-0.003	90	701366	50.0	37.9	
106 1,2,4-Trimethylbenzene	105	11.504	11.504	0.000	94	712557	50.0	37.9	
* 110 1,4-Dichlorobenzene-d4	152	11.822	11.822	0.000	94	368448	53.4	53.4	
120 Naphthalene	128	13.642	13.642	0.000	99	441494	50.0	36.1	
S 124 Xylenes, Total	100				0		100.0	82.2	

QC Flag Legend

Processing Flags

Reagents:

8260/624KETWK_00640	Amount Added: 2.50	Units: uL	
8260/624GASWK_01474	Amount Added: 2.50	Units: uL	
8260/624ACRWK_00686	Amount Added: 2.50	Units: uL	
8260/624MEGWK_01413	Amount Added: 2.50	Units: uL	
8260VA/2CEVE_00610	Amount Added: 2.50	Units: uL	
CPS#16 IS/SS_00132	Amount Added: 5.00	Units: mL	Run Reagent

Eurofins Chicago

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-c msd.D

Injection Date: 05-Sep-2022 17:18:30

Instrument ID: CMS16

Operator ID:

Lims ID: 500-221506-A-5-C MSD

Worklist Smp#: 16

Client ID: B-5 (8'-10')

Purge Vol: 5.000 mL

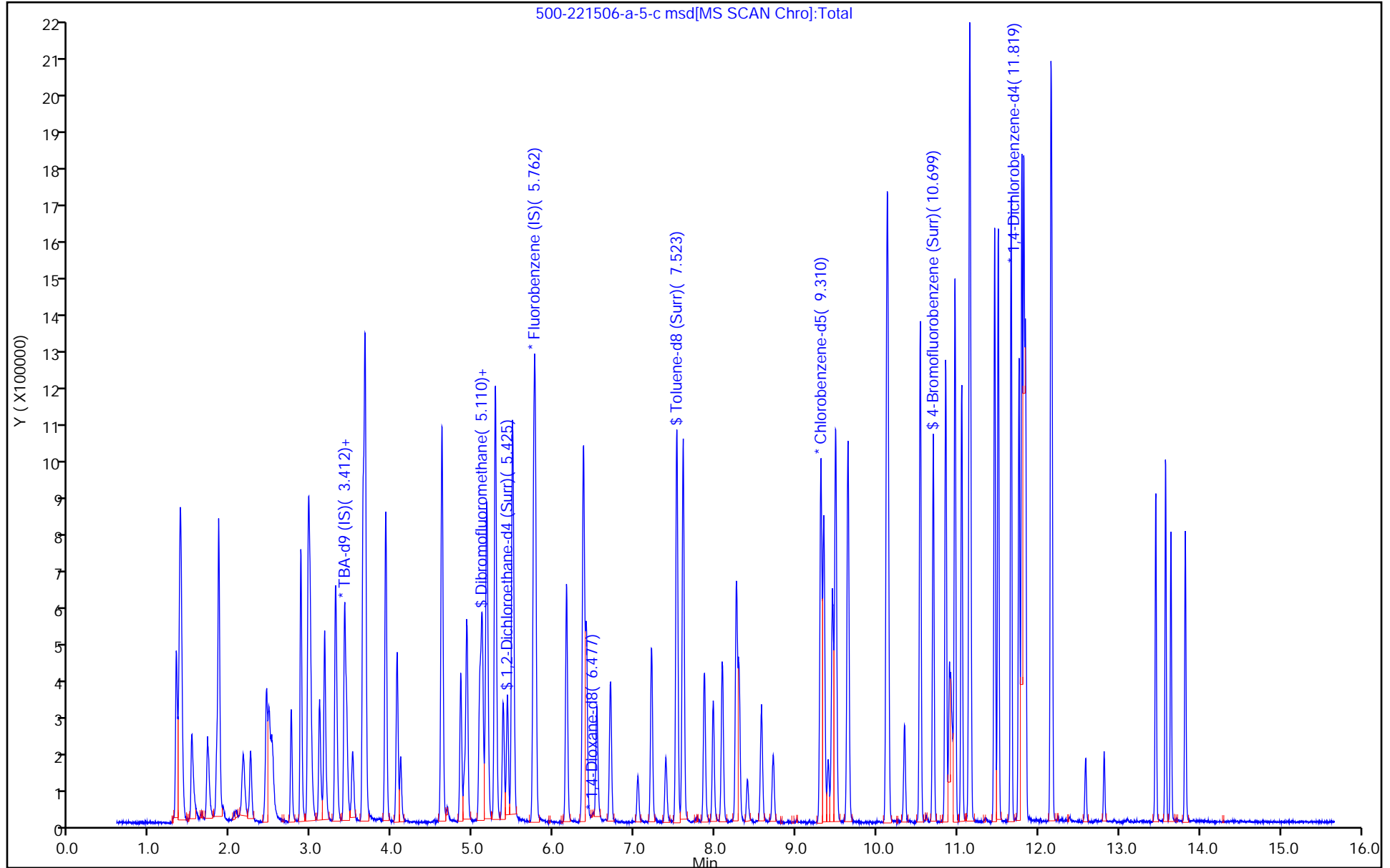
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8260s16_test

Limit Group: MSVOA_8260_ICAL_SOIL_LOW

Column: DB624 (0.20 mm)



Eurofins Chicago
Recovery Report

Data File: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\500-221506-a-5-c msd.D
 Lims ID: 500-221506-A-5-C MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 05-Sep-2022 17:18:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 500-221506-a-5-c msd
 Misc. Info.: 500-0087999-016
 Operator ID: Instrument ID: CMS16
 Method: \\chromfs\Chicago\ChromData\CMS16\20220905-87999.b\8260s16_test.m
 Limit Group: MSVOA_8260_ICAL_SOIL_LOW
 Method Label: TAL Chicago VOA Report SW846 8260B
 Last Update: 06-Sep-2022 12:21:19 Calib Date: 18-Jan-2022 17:58:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Chicago\ChromData\CMS16\20220118-83302.b\STD7AP0118.D
 Column 1 : DB624 (0.20 mm) Det: MS SCAN
 Process Host: CTX1638

First Level Reviewer: thaneeratw

Date: 06-Sep-2022 12:48:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 43 Dibromofluoromethane	53.4	54.5	101.92
\$ 48 1,2-Dichloroethane-d4 (Surr)	53.4	53.3	99.72
\$ 71 Toluene-d8 (Surr)	53.4	51.2	95.85
\$ 93 4-Bromofluorobenzene (Surr)	53.4	49.9	93.43

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Start Date: 01/18/2022 11:12Analysis Batch Number: 638287 End Date: 01/18/2022 20:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-638287/2		01/18/2022 11:12	1	16b0118.D	DB624 0.2 (mm)
STD1 500-638287/3 IC		01/18/2022 11:58	1	16b0118a.D	DB624 0.2 (mm)
STD2 500-638287/4 IC		01/18/2022 12:24	1	STD20118.D	DB624 0.2 (mm)
STD3 500-638287/5 IC		01/18/2022 12:50	1	STD30118.D	DB624 0.2 (mm)
STD4 500-638287/6 ICIS		01/18/2022 13:15	1	STD40118.D	DB624 0.2 (mm)
STD5 500-638287/7 IC		01/18/2022 13:41	1	STD50118.D	DB624 0.2 (mm)
STD6 500-638287/8 IC		01/18/2022 14:07	1	STD60118.D	DB624 0.2 (mm)
STD7 500-638287/9 IC		01/18/2022 14:32	1	STD70118.D	DB624 0.2 (mm)
STD1AP 500-638287/11 IC		01/18/2022 15:24	1	STD1AP0118.D	DB624 0.2 (mm)
STD2AP 500-638287/12 IC		01/18/2022 15:50	1	STD2AP0118.D	DB624 0.2 (mm)
STD3AP 500-638287/13 IC		01/18/2022 16:15	1	STD3AP0118.D	DB624 0.2 (mm)
STD4AP 500-638287/14 IC		01/18/2022 16:41	1	STD4AP0118.D	DB624 0.2 (mm)
STD5AP 500-638287/15 IC		01/18/2022 17:07	1	STD5AP0118.D	DB624 0.2 (mm)
STD6AP 500-638287/16 IC		01/18/2022 17:32	1	STD6AP0118.D	DB624 0.2 (mm)
STD7AP 500-638287/17 IC		01/18/2022 17:58	1	STD7AP0118.D	DB624 0.2 (mm)
ICV 500-638287/22		01/18/2022 20:07	1	ICV 2.D	DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Start Date: 01/19/2022 08:31

Analysis Batch Number: 638461 End Date: 01/19/2022 09:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-638461/1		01/19/2022 08:31	1	16b0119.D	DB624 0.2 (mm)
ICV 500-638461/3		01/19/2022 09:45	1	ICV 1.D	DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Instrument ID: CMS29

Start Date: 05/14/2022 08:53

Analysis Batch Number: 656646

End Date: 05/14/2022 16:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-656646/2		05/14/2022 08:53	1	29B0514.D	DB624 0.2 (mm)
STD01 500-656646/3 IC		05/14/2022 09:34	1	STD010514.D	DB624 0.2 (mm)
STD02 500-656646/4 IC		05/14/2022 09:57	1	STD020514.D	DB624 0.2 (mm)
STD03 500-656646/5 IC		05/14/2022 10:21	1	STD030514.D	DB624 0.2 (mm)
STD04 500-656646/6 IC		05/14/2022 10:44	1	STD040514.D	DB624 0.2 (mm)
STD05 500-656646/7 IC		05/14/2022 11:08	1	STD050514.D	DB624 0.2 (mm)
STD06 500-656646/8 IC		05/14/2022 11:32	1	STD060514.D	DB624 0.2 (mm)
STD07 500-656646/9 ICIS		05/14/2022 11:55	1	STD070514.D	DB624 0.2 (mm)
STD08 500-656646/10 IC		05/14/2022 12:19	1	STD080514.D	DB624 0.2 (mm)
STD09 500-656646/11 IC		05/14/2022 12:42	1	STD090514.D	DB624 0.2 (mm)
STD010 500-656646/12 IC		05/14/2022 13:06	1	STD0100514.D	DB624 0.2 (mm)
STD03AP 500-656646/14 IC		05/14/2022 13:53	1	STD03AP0514.D	DB624 0.2 (mm)
STD04AP 500-656646/15 IC		05/14/2022 14:16	1	STD04AP0514.D	DB624 0.2 (mm)
STD05AP 500-656646/16 IC		05/14/2022 14:40	1	STD05AP0514.D	DB624 0.2 (mm)
STD06AP 500-656646/17 IC		05/14/2022 15:04	1	STD06AP0514.D	DB624 0.2 (mm)
STD07AP 500-656646/18 IC		05/14/2022 15:27	1	STD07AP0514.D	DB624 0.2 (mm)
STD08AP 500-656646/19 IC		05/14/2022 15:51	1	STD08AP0514.D	DB624 0.2 (mm)
STD09AP 500-656646/20 IC		05/14/2022 16:14	1	STD09AP0514.D	DB624 0.2 (mm)
STD010AP 500-656646/21 IC		05/14/2022 16:38	1	STD010AP0514.D	DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Start Date: 05/16/2022 08:47Analysis Batch Number: 656798 End Date: 05/16/2022 13:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-656798/1		05/16/2022 08:47	1	29B0516.D	DB624 0.2 (mm)
CCVIS 500-656798/4		05/16/2022 10:17	1		DB624 0.2 (mm)
CCV 500-656798/5 ICV		05/16/2022 10:40	1		DB624 0.2 (mm)
ICV 500-656798/6		05/16/2022 11:04	1		DB624 0.2 (mm)
ICV 500-656798/7		05/16/2022 11:28	1	icv20516.D	DB624 0.2 (mm)
ZZZZZ		05/16/2022 11:51	1		DB624 0.2 (mm)
ZZZZZ		05/16/2022 12:38	1		DB624 0.2 (mm)
ZZZZZ		05/16/2022 13:19	1		DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Start Date: 06/28/2022 08:10Analysis Batch Number: 663160 End Date: 06/28/2022 14:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-663160/15		06/28/2022 08:10	1	29B0628A.D	DB624 0.2 (mm)
STD01 500-663160/2 IC		06/28/2022 08:45	1	std010628.D	DB624 0.2 (mm)
STD02 500-663160/3 IC		06/28/2022 09:09	1	std020628.D	DB624 0.2 (mm)
STD03 500-663160/4 IC		06/28/2022 09:32	1	std030628.D	DB624 0.2 (mm)
STD04 500-663160/5 IC		06/28/2022 09:56	1	std040628.D	DB624 0.2 (mm)
STD05 500-663160/6 IC		06/28/2022 10:19	1	std050628.D	DB624 0.2 (mm)
STD06 500-663160/7 IC		06/28/2022 10:43	1	std060628.D	DB624 0.2 (mm)
STD07 500-663160/8 ICIS		06/28/2022 11:06	1	std070628.D	DB624 0.2 (mm)
STD08 500-663160/9 IC		06/28/2022 11:30	1	std080628.D	DB624 0.2 (mm)
STD09 500-663160/10 IC		06/28/2022 11:53	1	std090628.D	DB624 0.2 (mm)
STD010 500-663160/11 IC		06/28/2022 12:17	1	std0100628.D	DB624 0.2 (mm)
ICV 500-663160/14		06/28/2022 14:10	1	icv10628A.D	DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.:

Instrument ID: CMS19

Start Date: 07/29/2022 09:10

Analysis Batch Number: 667600

End Date: 07/29/2022 20:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-667600/2		07/29/2022 09:10	1	19b0729.d	DB624 0.2 (mm)
STD07 500-667600/9 ICIS		07/29/2022 12:19	1	STD07.d	DB624 0.2 (mm)
STD08 500-667600/10 IC		07/29/2022 12:43	1	STD08.d	DB624 0.2 (mm)
STD09 500-667600/11 IC		07/29/2022 13:07	1	STD09.d	DB624 0.2 (mm)
STD010 500-667600/12 IC		07/29/2022 13:32	1	STD010.d	DB624 0.2 (mm)
STD03AP 500-667600/14 IC		07/29/2022 14:20	1	STD03AP.d	DB624 0.2 (mm)
STD01 500-667600/27 IC		07/29/2022 15:09	1	STD01a.d	DB624 0.2 (mm)
STD02 500-667600/28 IC		07/29/2022 15:33	1	STD02a.d	DB624 0.2 (mm)
STD03 500-667600/29 IC		07/29/2022 15:57	1	STD03a.d	DB624 0.2 (mm)
STD04 500-667600/30 IC		07/29/2022 16:21	1	STD04a.d	DB624 0.2 (mm)
STD05 500-667600/31 IC		07/29/2022 16:46	1	STD05a.d	DB624 0.2 (mm)
STD06 500-667600/32 IC		07/29/2022 17:10	1	STD06a.d	DB624 0.2 (mm)
STD04AP 500-667600/15 IC		07/29/2022 17:34	1	STD04AP.d	DB624 0.2 (mm)
STD05AP 500-667600/16 IC		07/29/2022 17:59	1	STD05AP.d	DB624 0.2 (mm)
STD06AP 500-667600/17 IC		07/29/2022 18:23	1	STD06AP.d	DB624 0.2 (mm)
STD07AP 500-667600/18 IC		07/29/2022 18:48	1	STD07AP.d	DB624 0.2 (mm)
STD08AP 500-667600/19 IC		07/29/2022 19:13	1	STD08AP.d	DB624 0.2 (mm)
STD09AP 500-667600/20 IC		07/29/2022 19:37	1	STD09AP.d	DB624 0.2 (mm)
STD010AP 500-667600/21 IC		07/29/2022 20:02	1	STD010AP.d	DB624 0.2 (mm)
ICV 500-667600/23		07/29/2022 20:51	1	ICV1.d	DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Start Date: 08/01/2022 07:38Analysis Batch Number: 667824 End Date: 08/01/2022 10:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-667824/1		08/01/2022 07:38	1	19c0801.d	DB624 0.2 (mm)
CCVIS 500-667824/2		08/01/2022 08:18	1		DB624 0.2 (mm)
CCV 500-667824/3		08/01/2022 08:42	1		DB624 0.2 (mm)
ICV 500-667824/4		08/01/2022 09:07	1	icv2.d	DB624 0.2 (mm)
CCV 500-667824/5		08/01/2022 09:31	1		DB624 0.2 (mm)
ZZZZZ		08/01/2022 09:55	1		DB624 0.2 (mm)
ZZZZZ		08/01/2022 10:44	1		DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS16 Start Date: 09/05/2022 11:01

Analysis Batch Number: 673135 End Date: 09/05/2022 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-673135/1		09/05/2022 11:01	1	16B0905.D	DB624 0.2 (mm)
CCV 500-673135/2		09/05/2022 11:41	1	16C0905.D	DB624 0.2 (mm)
CCV 500-673135/3		09/05/2022 12:07	1	16D0905.D	DB624 0.2 (mm)
LCS 500-673135/4		09/05/2022 12:33	1	16S0905.D	DB624 0.2 (mm)
MB 500-673135/6		09/05/2022 13:24	1	16M0905.D	DB624 0.2 (mm)
500-221506-1	B-1 (6'-8')	09/05/2022 13:50	1	500-221506-a-1-a.D	DB624 0.2 (mm)
500-221506-2	B-2 (2'-4')	09/05/2022 14:16	1	500-221506-a-2-a.D	DB624 0.2 (mm)
500-221506-3	B-3 (22'-23.5')	09/05/2022 14:42	1	500-221506-a-3-a.D	DB624 0.2 (mm)
500-221506-4	B-4 (20'-22')	09/05/2022 15:08	1	500-221506-a-4-a.D	DB624 0.2 (mm)
500-221506-5	B-5 (8'-10')	09/05/2022 15:34	1	500-221506-a-5-a.D	DB624 0.2 (mm)
500-221506-6	B-6 (30'-32')	09/05/2022 16:00	1	500-221506-a-6-a.D	DB624 0.2 (mm)
500-221506-8	Dup-1	09/05/2022 16:26	1	500-221506-a-8-a.D	DB624 0.2 (mm)
500-221506-5 MS	B-5 (8'-10') MS	09/05/2022 16:52	1	500-221506-a-5-b ms.D	DB624 0.2 (mm)
500-221506-5 MSD	B-5 (8'-10') MSD	09/05/2022 17:18	1	500-221506-a-5-c msd.D	DB624 0.2 (mm)
ZZZZZ		09/05/2022 17:44	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 18:10	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 18:36	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 19:01	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 19:27	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 19:53	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 20:18	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 20:44	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 21:10	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 21:35	1		DB624 0.2 (mm)
ZZZZZ		09/05/2022 22:02	1		DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS29 Start Date: 09/08/2022 07:50

Analysis Batch Number: 673569 End Date: 09/08/2022 19:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-673569/1		09/08/2022 07:50	1	29B0908.D	DB624 0.2 (mm)
CCVIS 500-673569/2		09/08/2022 08:29	1	29C0908.D	DB624 0.2 (mm)
CCV 500-673569/3		09/08/2022 08:52	1	29D0908.D	DB624 0.2 (mm)
LCS 500-673569/5		09/08/2022 09:39	1	29S0908.D	DB624 0.2 (mm)
MB 500-673569/7		09/08/2022 10:26	1	29M0908.D	DB624 0.2 (mm)
500-221506-1 DL	B-1 (6'-8') DL	09/08/2022 15:11	50	500-221506-c-1-a.D	DB624 0.2 (mm)
ZZZZZ		09/08/2022 15:35	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 15:58	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 16:22	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 16:46	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 17:09	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 17:33	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 17:56	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 18:44	50		DB624 0.2 (mm)
ZZZZZ		09/08/2022 19:07	50		DB624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: CMS19 Start Date: 09/09/2022 10:15

Analysis Batch Number: 673843 End Date: 09/09/2022 23:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-673843/1		09/09/2022 10:15	1	19C0909.d	DB624 0.2 (mm)
CCV 500-673843/3		09/09/2022 11:17	1	19x0909.d	DB624 0.2 (mm)
CCVIS 500-673843/7		09/09/2022 12:06	1	19b0909a.d	DB624 0.2 (mm)
LCS 500-673843/8		09/09/2022 12:30	1	19l0909a.d	DB624 0.2 (mm)
MB 500-673843/6		09/09/2022 13:19	1	19m0909.d	DB624 0.2 (mm)
500-221506-7	Trip Blank	09/09/2022 13:43	1	500-221506-B-7.d	DB624 0.2 (mm)
ZZZZZ		09/09/2022 15:20	5		DB624 0.2 (mm)
ZZZZZ		09/09/2022 15:44	50		DB624 0.2 (mm)
ZZZZZ		09/09/2022 16:08	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 16:33	20		DB624 0.2 (mm)
ZZZZZ		09/09/2022 16:57	200		DB624 0.2 (mm)
ZZZZZ		09/09/2022 17:21	5		DB624 0.2 (mm)
ZZZZZ		09/09/2022 17:45	50		DB624 0.2 (mm)
ZZZZZ		09/09/2022 18:10	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 18:34	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 18:58	10		DB624 0.2 (mm)
ZZZZZ		09/09/2022 19:22	100		DB624 0.2 (mm)
ZZZZZ		09/09/2022 19:46	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 20:11	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 20:35	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 20:59	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 21:23	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 21:48	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 22:12	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 22:36	1		DB624 0.2 (mm)
ZZZZZ		09/09/2022 23:00	1		DB624 0.2 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638287 Batch Start Date: 01/18/22 11:12 Batch Analyst: Ficarello, Peter MBatch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2,3DCLP SPK 00082	8260 ADDS SPK 00133	8260 LOWSS1 00186	8260/624ACRWK 00645
BFB 500-638287/2		8260B		5 g	5 mL				
STD1 500-638287/3 IC		8260B		5 g	5 mL				
STD2 500-638287/4 IC		8260B		5 g	5 mL				
STD3 500-638287/5 IC		8260B		5 g	5 mL			2 uL	
STD4 500-638287/6 ICIS		8260B		5 g	5 mL			5 uL	2.5 uL
STD5 500-638287/7 IC		8260B		5 g	5 mL			10 uL	5 uL
STD6 500-638287/8 IC		8260B		5 g	5 mL			15 uL	7.5 uL
STD7 500-638287/9 IC		8260B		5 g	5 mL			20 uL	10 uL
STD1AP 500-638287/11 IC		8260B		5 g	5 mL				
STD2AP 500-638287/12 IC		8260B		5 g	5 mL				
STD3AP 500-638287/13 IC		8260B		5 g	5 mL				
STD4AP 500-638287/14 IC		8260B		5 g	5 mL				
STD5AP 500-638287/15 IC		8260B		5 g	5 mL				
STD6AP 500-638287/16 IC		8260B		5 g	5 mL				
STD7AP 500-638287/17 IC		8260B		5 g	5 mL				
ICV 500-638287/22		8260B		5 g	5 mL	5 uL	5 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638287 Batch Start Date: 01/18/22 11:12 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624GASWK 01335	8260/624KETWK 00569	8260/624MEGWK 01267	8260/624STD2 00317	8260ADDS 2016 00203	8260CYCHXWK 00313
BFB 500-638287/2		8260B							
STD1 500-638287/3 IC		8260B							
STD2 500-638287/4 IC		8260B							
STD3 500-638287/5 IC		8260B							
STD4 500-638287/6 ICIS		8260B		2.5 uL	2.5 uL	2.5 uL			
STD5 500-638287/7 IC		8260B		5 uL	5 uL	5 uL			
STD6 500-638287/8 IC		8260B		7.5 uL	7.5 uL	7.5 uL			
STD7 500-638287/9 IC		8260B		10 uL	10 uL	10 uL			
STD1AP 500-638287/11 IC		8260B							
STD2AP 500-638287/12 IC		8260B							
STD3AP 500-638287/13 IC		8260B							
STD4AP 500-638287/14 IC		8260B					2.5 uL	2.5 uL	2.5 uL
STD5AP 500-638287/15 IC		8260B					5 uL	5 uL	5 uL
STD6AP 500-638287/16 IC		8260B					7.5 uL	7.5 uL	7.5 uL
STD7AP 500-638287/17 IC		8260B					10 uL	10 uL	10 uL
ICV 500-638287/22		8260B							

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260POLR ADDS 00275	8260VA/2CEVE 00570	BFB STD WK 00293	CPS#16 IS/SS 00117	CYCLOHEX SPK 00268	INST16 IS 00032

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638287 Batch Start Date: 01/18/22 11:12 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260POLR ADDS 00275	8260VA/2CEVE 00570	BFB STD WK 00293	CPS#16 IS/SS 00117	CYCLOHEX SPK 00268	INST16 IS 00032
BFB 500-638287/2		8260B				2 uL			
STD1 500-638287/3 IC		8260B							1.0686 uL
STD2 500-638287/4 IC		8260B							1.0686 uL
STD3 500-638287/5 IC		8260B							1.0686 uL
STD4 500-638287/6 ICIS		8260B			2.5 uL				1.0686 uL
STD5 500-638287/7 IC		8260B			5 uL				1.0686 uL
STD6 500-638287/8 IC		8260B			7.5 uL				1.0686 uL
STD7 500-638287/9 IC		8260B			10 uL				1.0686 uL
STD1AP 500-638287/11 IC		8260B							1.0686 uL
STD2AP 500-638287/12 IC		8260B							1.0686 uL
STD3AP 500-638287/13 IC		8260B							1.0686 uL
STD4AP 500-638287/14 IC		8260B		2.5 uL					1.0686 uL
STD5AP 500-638287/15 IC		8260B		5 uL					1.0686 uL
STD6AP 500-638287/16 IC		8260B		7.5 uL					1.0686 uL
STD7AP 500-638287/17 IC		8260B		10 uL					1.0686 uL
ICV 500-638287/22		8260B					5 mL	5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638287 Batch Start Date: 01/18/22 11:12 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	LO8260/624STD 00509	LOW8260ACR 00302	LOWAPIX 00027	LOWCYCHXWK 00206	POLRADDSSPK 00114	STD 2 SPK 00134
BFB 500-638287/2		8260B							
STD1 500-638287/3 IC		8260B		2 uL	2 uL				
STD2 500-638287/4 IC		8260B		5 uL	5 uL				
STD3 500-638287/5 IC		8260B		20 uL	20 uL				
STD4 500-638287/6 ICIS		8260B							
STD5 500-638287/7 IC		8260B							
STD6 500-638287/8 IC		8260B							
STD7 500-638287/9 IC		8260B							
STD1AP 500-638287/11 IC		8260B				2 uL	2 uL		
STD2AP 500-638287/12 IC		8260B				5 uL	5 uL		
STD3AP 500-638287/13 IC		8260B				20 uL	20 uL		
STD4AP 500-638287/14 IC		8260B							
STD5AP 500-638287/15 IC		8260B							
STD6AP 500-638287/16 IC		8260B							
STD7AP 500-638287/17 IC		8260B							
ICV 500-638287/22		8260B						5 uL	5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638287 Batch Start Date: 01/18/22 11:12 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 638461 Batch Start Date: 01/19/22 08:31 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 ACR SPK 00198	8260 GAS SPK 00191	8260 KET SPK 00154	8260 MEGA SPK 00155
BFB 500-638461/1		8260B		5 g	5 mL				
ICV 500-638461/3		8260B		5 g	5 mL	5 uL	5 uL	5 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB STD WK 00293	CPS#16 IS/SS 00117	VA/2CEVE SPK 00179			
BFB 500-638461/1		8260B		2 uL					
ICV 500-638461/3		8260B			5 mL	5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00173	8260 23DCP WK 00233	8260 LOWIS1 00164	8260 LOWSS1 00193
BFB 500-656646/2		8260B		5 mL	5 mL				
STD01 500-656646/3 IC		8260B		5 mL	5 mL			5 uL	
STD02 500-656646/4 IC		8260B		5 mL	5 mL			5 uL	
STD03 500-656646/5 IC		8260B		5 mL	5 mL			5 uL	
STD04 500-656646/6 IC		8260B		5 mL	5 mL			5 uL	
STD05 500-656646/7 IC		8260B		5 mL	5 mL			5 uL	1 uL
STD06 500-656646/8 IC		8260B		5 mL	5 mL			5 uL	2 uL
STD07 500-656646/9 ICIS		8260B		5 mL	5 mL			5 uL	5 uL
STD08 500-656646/10 IC		8260B		5 mL	5 mL			5 uL	10 uL
STD09 500-656646/11 IC		8260B		5 mL	5 mL			5 uL	15 uL
STD010 500-656646/12 IC		8260B		5 mL	5 mL			5 uL	20 uL
STD03AP 500-656646/14 IC		8260B		5 mL	5 mL			5 uL	
STD04AP 500-656646/15 IC		8260B		5 mL	5 mL			5 uL	
STD05AP 500-656646/16 IC		8260B		5 mL	5 mL			5 uL	
STD06AP 500-656646/17 IC		8260B		5 mL	5 mL			5 uL	
STD07AP 500-656646/18 IC		8260B		5 mL	5 mL	2.5 uL	2.5 uL	5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00173	8260 23DCP WK 00233	8260 LOWIS1 00164	8260 LOWSS1 00193
STD08AP 500-656646/19 IC		8260B		5 mL	5 mL	5 uL	5 uL	5 uL	
STD09AP 500-656646/20 IC		8260B		5 mL	5 mL	7.5 uL	7.5 uL	5 uL	
STD010AP 500-656646/21 IC		8260B		5 mL	5 mL	10 uL	10 uL	5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624ACRWK 00666	8260/624GASWK 01433	8260/624KETWK 00617	8260/624MEGWK 01363	8260/624STD2 00328	8260ADDS 2016 00214
BFB 500-656646/2		8260B							
STD01 500-656646/3 IC		8260B							
STD02 500-656646/4 IC		8260B							
STD03 500-656646/5 IC		8260B							
STD04 500-656646/6 IC		8260B							
STD05 500-656646/7 IC		8260B							
STD06 500-656646/8 IC		8260B							
STD07 500-656646/9 ICIS		8260B		2.5 uL	2.5 uL	2.5 uL	2.5 uL		
STD08 500-656646/10 IC		8260B		5 uL	5 uL	5 uL	5 uL		
STD09 500-656646/11 IC		8260B		7.5 uL	7.5 uL	7.5 uL	7.5 uL		
STD010 500-656646/12 IC		8260B		10 uL	10 uL	10 uL	10 uL		
STD03AP 500-656646/14 IC		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624ACRWK 00666	8260/624GASWK 01433	8260/624KETWK 00617	8260/624MEGWK 01363	8260/624STD2 00328	8260ADDS 2016 00214
STD04AP 500-656646/15 IC		8260B							
STD05AP 500-656646/16 IC		8260B							
STD06AP 500-656646/17 IC		8260B							
STD07AP 500-656646/18 IC		8260B						2.5 uL	2.5 uL
STD08AP 500-656646/19 IC		8260B						5 uL	5 uL
STD09AP 500-656646/20 IC		8260B						7.5 uL	7.5 uL
STD010AP 500-656646/21 IC		8260B						10 uL	10 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260CYCHXWK 00324	8260POLR ADDS 00286	8260VA/2CEVE 00591	BFB STD WK 00307	LEVEL1 8260 00012	LO8260/624STD 00531
BFB 500-656646/2		8260B					2 uL		
STD01 500-656646/3 IC		8260B						2.5 uL	
STD02 500-656646/4 IC		8260B						5 uL	
STD03 500-656646/5 IC		8260B							1 uL
STD04 500-656646/6 IC		8260B							2 uL
STD05 500-656646/7 IC		8260B							5 uL
STD06 500-656646/8 IC		8260B							20 uL
STD07 500-656646/9 ICIS		8260B				2.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260CYCHXWK 00324	8260POLR ADDS 00286	8260VA/2CEVE 00591	BFB STD WK 00307	LEVEL1 8260 00012	LO8260/624STD 00531
STD08 500-656646/10 IC		8260B				5 uL			
STD09 500-656646/11 IC		8260B				7.5 uL			
STD010 500-656646/12 IC		8260B				10 uL			
STD03AP 500-656646/14 IC		8260B							
STD04AP 500-656646/15 IC		8260B							
STD05AP 500-656646/16 IC		8260B							
STD06AP 500-656646/17 IC		8260B							
STD07AP 500-656646/18 IC		8260B		2.5 uL	2.5 uL				
STD08AP 500-656646/19 IC		8260B		5 uL	5 uL				
STD09AP 500-656646/20 IC		8260B		7.5 uL	7.5 uL				
STD010AP 500-656646/21 IC		8260B		10 uL	10 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOW8260ACR 00316	LOWAPIX 00038	LOWCYCHXWK 00216			
BFB 500-656646/2		8260B							
STD01 500-656646/3 IC		8260B							
STD02 500-656646/4 IC		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOW8260ACR 00316	LOWAPIX 00038	LOWCYCHXWK 00216			
STD03 500-656646/5 IC		8260B		1 uL					
STD04 500-656646/6 IC		8260B		2 uL					
STD05 500-656646/7 IC		8260B		5 uL					
STD06 500-656646/8 IC		8260B		20 uL					
STD07 500-656646/9 ICIS		8260B							
STD08 500-656646/10 IC		8260B							
STD09 500-656646/11 IC		8260B							
STD010 500-656646/12 IC		8260B							
STD03AP 500-656646/14 IC		8260B			1 uL	1 uL			
STD04AP 500-656646/15 IC		8260B			2 uL	2 uL			
STD05AP 500-656646/16 IC		8260B			5 uL	5 uL			
STD06AP 500-656646/17 IC		8260B			20 uL	20 uL			
STD07AP 500-656646/18 IC		8260B							
STD08AP 500-656646/19 IC		8260B							
STD09AP 500-656646/20 IC		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656646 Batch Start Date: 05/14/22 08:53 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOW8260ACR 00316	LOWAPIX 00038	LOWCYCHXWK 00216			
STD010AP 500-656646/21 IC		8260B							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 656798 Batch Start Date: 05/16/22 08:47 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2,3DCLP SPK 00086	2ETTOL SPK 00053	8260 ADDS SPK 00137	8260LOW IS/SS 00304
BFB 500-656798/1		8260B		5 mL	5 mL				
ICV 500-656798/7		8260B		5 mL	5 mL	5 uL	5 uL	5 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB STD WK 00307	CYCLOHEX SPK 00272	POLRADDSSPK 00118	STD 2 SPK 00138		
BFB 500-656798/1		8260B		2 uL					
ICV 500-656798/7		8260B			5 uL	5 uL	5 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 663160 Batch Start Date: 06/28/22 08:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 ACR SPK 00210	8260 GAS SPK 00204	8260 KET SPK 00163	8260 LOWIS1 00166
STD01 500-663160/2 IC		8260B		5 mL	5 mL				5 uL
STD02 500-663160/3 IC		8260B		5 mL	5 mL				5 uL
STD03 500-663160/4 IC		8260B		5 mL	5 mL				5 uL
STD04 500-663160/5 IC		8260B		5 mL	5 mL				5 uL
STD05 500-663160/6 IC		8260B		5 mL	5 mL				5 uL
STD06 500-663160/7 IC		8260B		5 mL	5 mL				5 uL
STD07 500-663160/8 ICIS		8260B		5 mL	5 mL				5 uL
STD08 500-663160/9 IC		8260B		5 mL	5 mL				5 uL
STD09 500-663160/10 IC		8260B		5 mL	5 mL				5 uL
STD010 500-663160/11 IC		8260B		5 mL	5 mL				5 uL
ICV 500-663160/14		8260B		5 mL	5 mL	5 uL	5 uL	5 uL	
BFB 500-663160/15		8260B		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260 LOWSS1 00198	8260 MEGA SPK 00166	8260/624ACRWK 00675	8260/624GASWK 01452	8260/624KETWK 00629	8260/624MEGWK 01389
STD01 500-663160/2 IC		8260B							
STD02 500-663160/3 IC		8260B							
STD03 500-663160/4 IC		8260B							
STD04 500-663160/5 IC		8260B		1 uL					
STD05 500-663160/6 IC		8260B		2 uL					
STD06 500-663160/7 IC		8260B		3 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 663160 Batch Start Date: 06/28/22 08:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260 LOWSS1 00198	8260 MEGA SPK 00166	8260/624ACRWK 00675	8260/624GASWK 01452	8260/624KETWK 00629	8260/624MEGWK 01389
STD07 500-663160/8 ICIS		8260B		4 uL		2.5 uL	2.5 uL	2.5 uL	2.5 uL
STD08 500-663160/9 IC		8260B		5 uL		5 uL	5 uL	5 uL	5 uL
STD09 500-663160/10 IC		8260B		6 uL		7.5 uL	7.5 uL	7.5 uL	7.5 uL
STD010 500-663160/11 IC		8260B		7.5 uL		10 uL	10 uL	10 uL	10 uL
ICV 500-663160/14		8260B			5 uL				
BFB 500-663160/15		8260B							

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260LOW IS/SS 00308	8260VA/2CEVE 00600	BFB STD WK 00314	LEVEL1 8260 00012	LO8260/624STD 00540	LOW8260ACR 00321
STD01 500-663160/2 IC		8260B					2.5 uL		
STD02 500-663160/3 IC		8260B					5 uL		
STD03 500-663160/4 IC		8260B						1 uL	1 uL
STD04 500-663160/5 IC		8260B						2 uL	2 uL
STD05 500-663160/6 IC		8260B						5 uL	5 uL
STD06 500-663160/7 IC		8260B						20 uL	20 uL
STD07 500-663160/8 ICIS		8260B			2.5 uL				
STD08 500-663160/9 IC		8260B			5 uL				
STD09 500-663160/10 IC		8260B			7.5 uL				
STD010 500-663160/11 IC		8260B			10 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 663160 Batch Start Date: 06/28/22 08:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260LOW IS/SS 00308	8260VA/2CEVE 00600	BFB STD WK 00314	LEVEL1 8260 00012	LO8260/624STD 00540	LOW8260ACR 00321
ICV 500-663160/14		8260B		5 uL					
BFB 500-663160/15		8260B				2 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	VA/2CEVE SPK 00192					
STD01 500-663160/2 IC		8260B							
STD02 500-663160/3 IC		8260B							
STD03 500-663160/4 IC		8260B							
STD04 500-663160/5 IC		8260B							
STD05 500-663160/6 IC		8260B							
STD06 500-663160/7 IC		8260B							
STD07 500-663160/8 ICIS		8260B							
STD08 500-663160/9 IC		8260B							
STD09 500-663160/10 IC		8260B							
STD010 500-663160/11 IC		8260B							
ICV 500-663160/14		8260B		5 uL					
BFB 500-663160/15		8260B							

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 663160 Batch Start Date: 06/28/22 08:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00179	8260 23DCP WK 00239	8260 ACR SPK 00213	8260 GAS SPK 00207
BFB 500-667600/2		8260B		5 mL	5 mL				
STD07 500-667600/9 ICIS		8260B		5 mL	5 mL				
STD08 500-667600/10 IC		8260B		5 mL	5 mL				
STD09 500-667600/11 IC		8260B		5 mL	5 mL				
STD010 500-667600/12 IC		8260B		5 mL	5 mL				
STD03AP 500-667600/14 IC		8260B		5 mL	5 mL				
STD04AP 500-667600/15 IC		8260B		5 mL	5 mL				
STD05AP 500-667600/16 IC		8260B		5 mL	5 mL				
STD06AP 500-667600/17 IC		8260B		5 mL	5 mL				
STD07AP 500-667600/18 IC		8260B		5 mL	5 mL	2.5 uL	2.5 uL		
STD08AP 500-667600/19 IC		8260B		5 mL	5 mL	5 uL	5 uL		
STD09AP 500-667600/20 IC		8260B		5 mL	5 mL	7.5 uL	7.5 uL		
STD010AP 500-667600/21 IC		8260B		5 mL	5 mL	10 uL	10 uL		
ICV 500-667600/23		8260B		5 mL	5 mL			5 uL	5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00179	8260 23DCP WK 00239	8260 ACR SPK 00213	8260 GAS SPK 00207
STD01 500-667600/27 IC		8260B		5 mL	5 mL				
STD02 500-667600/28 IC		8260B		5 mL	5 mL				
STD03 500-667600/29 IC		8260B		5 mL	5 mL				
STD04 500-667600/30 IC		8260B		5 mL	5 mL				
STD05 500-667600/31 IC		8260B		5 mL	5 mL				
STD06 500-667600/32 IC		8260B		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260 KET SPK 00165	8260 LOWIS1 00170	8260 LOWSS1 00200	8260 MEGA SPK 00167	8260/624ACRWK 00681	8260/624GASWK 01464
BFB 500-667600/2		8260B							
STD07 500-667600/9 ICIS		8260B			5 uL	4 uL		2.5 uL	2.5 uL
STD08 500-667600/10 IC		8260B			5 uL	5 uL		5 uL	5 uL
STD09 500-667600/11 IC		8260B			5 uL	6 uL		7.5 uL	7.5 uL
STD010 500-667600/12 IC		8260B			5 uL	7.5 uL		10 uL	10 uL
STD03AP 500-667600/14 IC		8260B			5 uL				
STD04AP 500-667600/15 IC		8260B			5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260 KET SPK 00165	8260 LOWIS1 00170	8260 LOWSS1 00200	8260 MEGA SPK 00167	8260/624ACRWK 00681	8260/624GASWK 01464
STD05AP 500-667600/16 IC		8260B			5 uL				
STD06AP 500-667600/17 IC		8260B			5 uL				
STD07AP 500-667600/18 IC		8260B			5 uL				
STD08AP 500-667600/19 IC		8260B			5 uL				
STD09AP 500-667600/20 IC		8260B			5 uL				
STD010AP 500-667600/21 IC		8260B			5 uL				
ICV 500-667600/23		8260B		5 uL			5 uL		
STD01 500-667600/27 IC		8260B			5 uL				
STD02 500-667600/28 IC		8260B			5 uL				
STD03 500-667600/29 IC		8260B			5 uL				
STD04 500-667600/30 IC		8260B			5 uL	1 uL			
STD05 500-667600/31 IC		8260B			5 uL	2 uL			
STD06 500-667600/32 IC		8260B			5 uL	3 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624KETWK 00635	8260/624MEGWK 01401	8260/624STD2 00336	8260ADDS 2016 00221	8260CYCHXWK 00330	8260LOW IS/SS 00310

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624KETWK 00635	8260/624MEGWK 01401	8260/624STD2 00336	8260ADDS 2016 00221	8260CYCHXWK 00330	8260LOW IS/SS 00310
BFB 500-667600/2		8260B							
STD07 500-667600/9 ICIS		8260B		2.5 uL	2.5 uL				
STD08 500-667600/10 IC		8260B		5 uL	5 uL				
STD09 500-667600/11 IC		8260B		7.5 uL	7.5 uL				
STD010 500-667600/12 IC		8260B		10 uL	10 uL				
STD03AP 500-667600/14 IC		8260B							
STD04AP 500-667600/15 IC		8260B							
STD05AP 500-667600/16 IC		8260B							
STD06AP 500-667600/17 IC		8260B							
STD07AP 500-667600/18 IC		8260B				2.5 uL	2.5 uL	2.5 uL	
STD08AP 500-667600/19 IC		8260B				5 uL	5 uL	5 uL	
STD09AP 500-667600/20 IC		8260B				7.5 uL	7.5 uL	7.5 uL	
STD010AP 500-667600/21 IC		8260B				10 uL	10 uL	10 uL	
ICV 500-667600/23		8260B							5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624KETWK 00635	8260/624MEGWK 01401	8260/624STD2 00336	8260ADDS 2016 00221	8260CYCHXWK 00330	8260LOW IS/SS 00310
STD01 500-667600/27 IC		8260B							
STD02 500-667600/28 IC		8260B							
STD03 500-667600/29 IC		8260B							
STD04 500-667600/30 IC		8260B							
STD05 500-667600/31 IC		8260B							
STD06 500-667600/32 IC		8260B							

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260POLR ADDS 00294	8260VA/2CEVE 00606	BFB STD WK 00317	LEVEL1 8260 00012	LO8260/624STD 00548	LOW8260ACR 00326
BFB 500-667600/2		8260B				2 uL			
STD07 500-667600/9 ICIS		8260B			2.5 uL				
STD08 500-667600/10 IC		8260B			5 uL				
STD09 500-667600/11 IC		8260B			7.5 uL				
STD010 500-667600/12 IC		8260B			10 uL				
STD03AP 500-667600/14 IC		8260B							
STD04AP 500-667600/15 IC		8260B							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260POLR ADDS 00294	8260VA/2CEVE 00606	BFB STD WK 00317	LEVEL1 8260 00012	LO8260/624STD 00548	LOW8260ACR 00326
STD05AP 500-667600/16 IC		8260B							
STD06AP 500-667600/17 IC		8260B							
STD07AP 500-667600/18 IC		8260B		2.5 uL					
STD08AP 500-667600/19 IC		8260B		5 uL					
STD09AP 500-667600/20 IC		8260B		7.5 uL					
STD010AP 500-667600/21 IC		8260B		10 uL					
ICV 500-667600/23		8260B							
STD01 500-667600/27 IC		8260B					2.5 uL		
STD02 500-667600/28 IC		8260B					5 uL		
STD03 500-667600/29 IC		8260B						1 uL	1 uL
STD04 500-667600/30 IC		8260B						2 uL	2 uL
STD05 500-667600/31 IC		8260B						5 uL	5 uL
STD06 500-667600/32 IC		8260B						20 uL	20 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOWAPIX 00042	LOWCYCHXWK 00219	VA/2CEVE SPK 00195			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOWAPIX 00042	LOWCYCHXWK 00219	VA/2CEVE SPK 00195			
BFB 500-667600/2		8260B							
STD07 500-667600/9 ICIS		8260B							
STD08 500-667600/10 IC		8260B							
STD09 500-667600/11 IC		8260B							
STD010 500-667600/12 IC		8260B							
STD03AP 500-667600/14 IC		8260B		1 uL	1 uL				
STD04AP 500-667600/15 IC		8260B		2 uL	2 uL				
STD05AP 500-667600/16 IC		8260B		5 uL	5 uL				
STD06AP 500-667600/17 IC		8260B		20 uL	20 uL				
STD07AP 500-667600/18 IC		8260B							
STD08AP 500-667600/19 IC		8260B							
STD09AP 500-667600/20 IC		8260B							
STD010AP 500-667600/21 IC		8260B							
ICV 500-667600/23		8260B				5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667600 Batch Start Date: 07/29/22 09:10 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	LOWAPIX 00042	LOWCYCHXWK 00219	VA/2CEVE SPK 00195			
STD01 500-667600/27 IC		8260B							
STD02 500-667600/28 IC		8260B							
STD03 500-667600/29 IC		8260B							
STD04 500-667600/30 IC		8260B							
STD05 500-667600/31 IC		8260B							
STD06 500-667600/32 IC		8260B							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 667824 Batch Start Date: 08/01/22 07:38 Batch Analyst: Ficarello, Peter M

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2,3DCLP SPK 00088	2ETTOL SPK 00055	8260 ADDS SPK 00139	8260LOW IS/SS 00311
BFB 500-667824/1		8260B		5 mL	5 mL				
ICV 500-667824/4		8260B		5 mL	5 mL	5 uL	5 uL	5 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB STD WK 00317	CYCLOHEX SPK 00274	POLRADDSSPK 00120	STD 2 SPK 00140		
BFB 500-667824/1		8260B		2 uL					
ICV 500-667824/4		8260B			5 uL	5 uL	5 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 672631 Batch Start Date: 08/29/22 11:12 Batch Analyst: Estes, William R

Batch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	AnalysisComment	
500-221506-C-1	B-1 (6'-8')	5035, 8260B	T	+028.091 g	34.4709 g	6.3799 g	5 mL	MeOH	

Batch Notes	
Balance ID	C-1952

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 672742 Batch Start Date: 08/30/22 17:13 Batch Analyst: Estes, William R

Batch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	AnalysisComment	
500-221506-A-1	B-1 (6'-8')	5035, 8260B	T	+030.487 g	37.1131 g	6.6261 g	5 mL	fw	
500-221506-A-2	B-2 (2'-4')	5035, 8260B	T	+030.539 g	37.5885 g	7.0495 g	5 mL	fw	
500-221506-A-3	B-3 (22'-23.5')	5035, 8260B	T	+030.323 g	37.0981 g	6.7751 g	5 mL	fw	
500-221506-A-4	B-4 (20'-22')	5035, 8260B	T	+030.548 g	36.8946 g	6.3466 g	5 mL	fw	
500-221506-A-5	B-5 (8'-10')	5035, 8260B	T	+031.199 g	37.6048 g	6.4058 g	5 mL	fw	
500-221506-A-5 MS	B-5 (8'-10')	5035, 8260B	T	+030.338 g	36.9203 g	6.5823 g	5 mL	fw	
500-221506-A-5 MSD	B-5 (8'-10')	5035, 8260B	T	+030.496 g	36.9765 g	6.4805 g	5 mL	fw	
500-221506-A-6	B-6 (30'-32')	5035, 8260B	T	+030.918 g	37.4463 g	6.5283 g	5 mL	fw	
500-221506-A-8	Dup-1	5035, 8260B	T	+030.707 g	37.6680 g	6.961 g	5 mL	fw	

Batch Notes	
Balance ID	C-1952

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673135 Batch Start Date: 09/05/22 11:01 Batch Analyst: Thaneerat, Wijittra 1

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260/624ACRWK 00686	8260/624GASWK 01474	8260/624KETWK 00640	8260/624MEGWK 01413
BFB 500-673135/1		8260B		5 g	5 mL				
CCV 500-673135/2		8260B		5 g	5 mL	2.5 uL	2.5 uL	2.5 uL	2.5 uL
CCV 500-673135/3		8260B		5 g	5 mL				
LCS 500-673135/4		8260B		5 g	5 mL	2.5 uL	2.5 uL	2.5 uL	2.5 uL
MB 500-673135/6		8260B		5 g	5 mL				
500-221506-A-1-A	B-1 (6''-8'')	8260B	T	5 g	5 mL				
500-221506-A-2-A	B-2 (2''-4'')	8260B	T	5 g	5 mL				
500-221506-A-3-A	B-3 (22''-23.5'')	8260B	T	5 g	5 mL				
500-221506-A-4-A	B-4 (20''-22'')	8260B	T	5 g	5 mL				
500-221506-A-5-A	B-5 (8''-10'')	8260B	T	5 g	5 mL				
500-221506-A-6-A	B-6 (30''-32'')	8260B	T	5 g	5 mL				
500-221506-A-8-A	Dup-1	8260B	T	5 g	5 mL				
500-221506-A-5-B MS	B-5 (8''-10'')	8260B	T	5 g	5 mL	2.5 uL	2.5 uL	2.5 uL	2.5 uL
500-221506-A-5-C MSD	B-5 (8''-10'')	8260B	T	5 g	5 mL	2.5 uL	2.5 uL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624STD2 00338	8260ADDS 2016 00223	8260POLR ADDS 00296	8260VA/2CEVE 00610	BFB STD WK 00320	CPS#16 IS/SS 00132
BFB 500-673135/1		8260B						2 uL	
CCV 500-673135/2		8260B					2.5 uL		5 mL
CCV 500-673135/3		8260B		2.5 uL	2.5 uL	2.5 uL			5 mL
LCS 500-673135/4		8260B					2.5 uL		5 mL
MB 500-673135/6		8260B							5 mL
500-221506-A-1-A	B-1 (6''-8'')	8260B	T						5 mL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673135 Batch Start Date: 09/05/22 11:01 Batch Analyst: Thaneerat, Wijittra 1

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624STD2 00338	8260ADDS 2016 00223	8260POLR ADDS 00296	8260VA/2CEVE 00610	BFB STD WK 00320	CPS#16 IS/SS 00132
500-221506-A-2-A	B-2 (2''-4'')	8260B	T						5 mL
500-221506-A-3-A	B-3 (22''-23.5'')	8260B	T						5 mL
500-221506-A-4-A	B-4 (20''-22'')	8260B	T						5 mL
500-221506-A-5-A	B-5 (8''-10'')	8260B	T						5 mL
500-221506-A-6-A	B-6 (30''-32'')	8260B	T						5 mL
500-221506-A-8-A	Dup-1	8260B	T						5 mL
500-221506-A-5-B MS	B-5 (8''-10'')	8260B	T				2.5 uL		5 mL
500-221506-A-5-C MSD	B-5 (8''-10'')	8260B	T				2.5 uL		5 mL

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673569 Batch Start Date: 09/08/22 07:50 Batch Analyst: Perez, Paul S

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00181	8260/624ACRWK 00686	8260/624GASWK 01475	8260/624KETWK 00640
BFB 500-673569/1		8260B		5 mL	5 mL				
CCVIS 500-673569/2		8260B		5 mL	5 mL		2.5 uL	2.5 uL	2.5 uL
CCV 500-673569/3		8260B		5 mL	5 mL	2.5 uL			
LCS 500-673569/5		8260B		5 mL	5 mL		2.5 uL	2.5 uL	2.5 uL
MB 500-673569/7		8260B		5 mL	5 mL				
500-221506-C-1-A	B-1 (6''-8'')	8260B	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624MEGWK 01413	8260/624STD2 00338	8260ADDS 2016 00223	8260CYCHXWK 00332	8260LOW IS/SS 00313	8260POLR ADDS 00297
BFB 500-673569/1		8260B							
CCVIS 500-673569/2		8260B		2.5 uL				5 uL	
CCV 500-673569/3		8260B			2.5 uL	2.5 uL	2.5 uL	5 uL	2.5 uL
LCS 500-673569/5		8260B		2.5 uL				5 uL	
MB 500-673569/7		8260B						5 uL	
500-221506-C-1-A	B-1 (6''-8'')	8260B	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260VA/2CEVE 00610	BFB STD WK 00321				
BFB 500-673569/1		8260B			2 uL				
CCVIS 500-673569/2		8260B		2.5 uL					
CCV 500-673569/3		8260B							
LCS 500-673569/5		8260B		2.5 uL					
MB 500-673569/7		8260B							
500-221506-C-1-A	B-1 (6''-8'')	8260B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673569 Batch Start Date: 09/08/22 07:50 Batch Analyst: Perez, Paul S

Batch Method: 8260B Batch End Date: _____

Batch Notes	
Vial Lot Number	0110901H

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673843 Batch Start Date: 09/09/22 10:15 Batch Analyst: Perez, Paul S

Batch Method: 8260B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	2ETTOL WK STD 00181	8260 23DCP WK 00241	8260/624ACRWK 00686	8260/624GASWK 01476
BFB 500-673843/1		8260B		5 mL	5 mL				
CCV 500-673843/3		8260B		5 mL	5 mL	2.5 uL	2.5 uL		
MB 500-673843/6		8260B		5 mL	5 mL				
CCVIS 500-673843/7		8260B		5 mL	5 mL			2.5 uL	2.5 uL
LCS 500-673843/8		8260B		5 mL	5 mL			2.5 uL	2.5 uL
500-221506-B-7	Trip Blank	8260B	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260/624KETWK 00640	8260/624MEGWK 01415	8260/624STD2 00338	8260ADDS 2016 00223	8260CYCHXWK 00332	8260LOW IS/SS 00313
BFB 500-673843/1		8260B							
CCV 500-673843/3		8260B				2.5 uL	2.5 uL	2.5 uL	5 uL
MB 500-673843/6		8260B							5 uL
CCVIS 500-673843/7		8260B		2.5 uL	2.5 uL				5 uL
LCS 500-673843/8		8260B		2.5 uL	2.5 uL				5 uL
500-221506-B-7	Trip Blank	8260B	T						5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260POLR ADDS 00297	8260VA/2CEVE 00611	BFB STD WK 00321			
BFB 500-673843/1		8260B				2 uL			
CCV 500-673843/3		8260B		2.5 uL					
MB 500-673843/6		8260B							
CCVIS 500-673843/7		8260B			2.5 uL				
LCS 500-673843/8		8260B			2.5 uL				
500-221506-B-7	Trip Blank	8260B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673843 Batch Start Date: 09/09/22 10:15 Batch Analyst: Perez, Paul S

Batch Method: 8260B Batch End Date: _____

Batch Notes	
Vial Lot Number	0110901H

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot#	Analytical Batch	misc info
1	50 50		OO DL	16 9/15/22 29 9/18/22	87999 88058		073135 073135	TOL: 640 TOL: 2485 (OK)
2	1		OO	16 9/15/22	87999		073135	(OK)
3	1		OO	16 9/15/22	87999		073135	(OK)
4	1		OO	16 9/15/22	87999		073135	(OK)
5	1		OO	16 9/15/22	87999		073135	(OK)
SMS	1		OO	16 9/15/22	87999		073135	(OK)

Reviewed by: [Signature]

Date: 9/15/22 VOA Vial Lot # 01109014

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot#	Analytical Batch	misc info
SMSD	1		00	16 9/5/22	87999		1073135	(OK)
6	1		00	16 9/5/22	87999		1073135	(OK)
7	80 1	2	—	29 9/18/22	88058		—	CCU Fail
	80 1	2	∞	19 9/19	88095		673843	OK
8	1		00	16 9/5/22	87999		1073135	(OK)

TB
W

[Signature]

Reviewed by: _____
CHI-22-20-075/E-0919

Date: 9/13/22 VOA Vial Lot # 0110901H

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: SA-221506

Date	Time Out	Time In	ICOC Initials	misc info
9/5/22	1100	-	WP	Pinen water
9/8/22	1000	1100	B	Water + HL
9/9/22	1230	1330	CB	water

8270E

Semivolatile Organic Compounds
(GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton

Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid

Level: Low

GC Column (1): RXI-5SILMS/ ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
B-1 (6'-8')	500-221506-1	93	84	94	91	91	97
B-2 (2'-4')	500-221506-2	75	83	67	72	74	89
B-3 (22'-23.5')	500-221506-3	37	53	67	76	51	77
B-4 (20'-22')	500-221506-4	46	75	77	85	17	94
B-5 (8'-10')	500-221506-5	56	69	71	69	35	84
B-6 (30'-32')	500-221506-6	47	53	52	56	37	82
Dup-1	500-221506-8	83	78	91	90	87	104
	MB 240-541390/23-A	73	83	82	85	47	92
	LCS 240-541390/24-A	92	92	86	89	76	92
B-5 (8'-10') MS	500-221506-5 MS	73	71	65	68	65	75
B-5 (8'-10') MSD	500-221506-5 MSD	51	56	50	63	70	78

QC LIMITS

2FP = 2-Fluorophenol (Surr)
 PHL = Phenol-d5 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)
 TPHL = Terphenyl-d14 (Surr)

20-120
 26-120
 25-120
 34-120
 10-120
 46-137

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 20908009.D
 Lab ID: LCS 240-541390/24-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	0.667	0.568	85	52-120	
Acenaphthylene	0.667	0.523	78	52-120	
Anthracene	0.667	0.614	92	64-120	
Benzo[a]anthracene	0.667	0.615	92	70-120	
Benzo[a]pyrene	0.667	0.547	82	63-125	
Benzo[b]fluoranthene	0.667	0.626	94	64-121	
Benzo[g,h,i]perylene	0.667	0.608	91	62-120	
Benzo[k]fluoranthene	0.667	0.557	84	63-128	
Chrysene	0.667	0.581	87	67-120	
Dibenz(a,h)anthracene	0.667	0.659	99	62-120	
Fluoranthene	0.667	0.601	90	71-124	
Fluorene	0.667	0.573	86	58-120	
Indeno[1,2,3-cd]pyrene	0.667	0.636	95	65-122	
Naphthalene	0.667	0.521	78	34-120	
Phenanthrene	0.667	0.575	86	60-120	
Pyrene	0.667	0.609	91	67-120	
1-Methylnaphthalene	0.667	0.550	82	44-120	
2-Methylnaphthalene	0.667	0.514	77	38-120	

Column to be used to flag recovery and RPD values
 FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 20909015.D
 Lab ID: 500-221506-5 MS Client ID: B-5 (8'-10') MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	0.896	<0.020	0.606	68	33-120	
Acenaphthylene	0.896	<0.020	0.563	63	39-120	
Anthracene	0.896	<0.020	0.679	76	30-127	
Benzo[a]anthracene	0.896	<0.020	0.653	73	24-137	
Benzo[a]pyrene	0.896	<0.020	0.578	64	28-136	
Benzo[b]fluoranthene	0.896	<0.020	0.638	71	21-142	
Benzo[g,h,i]perylene	0.896	<0.020	0.625	70	10-144	
Benzo[k]fluoranthene	0.896	<0.020	0.599	67	36-135	
Chrysene	0.896	<0.020	0.627	70	28-129	
Dibenz(a,h)anthracene	0.896	<0.020	0.668	75	10-132	
Fluoranthene	0.896	<0.020	0.693	77	31-140	
Fluorene	0.896	<0.020	0.615	69	43-120	
Indeno[1,2,3-cd]pyrene	0.896	<0.020	0.659	74	10-139	
Naphthalene	0.896	<0.020	0.502	56	10-120	
Phenanthrene	0.896	<0.020	0.649	72	36-120	
Pyrene	0.896	<0.020	0.684	76	31-134	
1-Methylnaphthalene	0.896	<0.020	0.536	60	39-120	
2-Methylnaphthalene	0.896	<0.020	0.501	56	13-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 20909016.D

Lab ID: 500-221506-5 MSD Client ID: B-5 (8'-10') MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	0.888	0.591	67	2	45	33-120	
Acenaphthylene	0.888	0.543	61	4	45	39-120	
Anthracene	0.888	0.675	76	1	45	30-127	
Benzo[a]anthracene	0.888	0.698	79	7	42	24-137	
Benzo[a]pyrene	0.888	0.604	68	4	41	28-136	
Benzo[b]fluoranthene	0.888	0.691	78	8	42	21-142	
Benzo[g,h,i]perylene	0.888	0.699	79	11	40	10-144	
Benzo[k]fluoranthene	0.888	0.625	70	4	44	36-135	
Chrysene	0.888	0.668	75	6	42	28-129	
Dibenz(a,h)anthracene	0.888	0.759	86	13	37	10-132	
Fluoranthene	0.888	0.676	76	3	45	31-140	
Fluorene	0.888	0.623	70	1	39	43-120	
Indeno[1,2,3-cd]pyrene	0.888	0.733	83	11	41	10-139	
Naphthalene	0.888	0.425	48	17	45	10-120	
Phenanthrene	0.888	0.639	72	2	41	36-120	
Pyrene	0.888	0.698	79	2	43	31-134	
1-Methylnaphthalene	0.888	0.476	54	12	40	39-120	
2-Methylnaphthalene	0.888	0.417	47	18	45	13-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 20908008.D Lab Sample ID: MB 240-541390/23-A
 Matrix: Solid Date Extracted: 09/06/2022 09:17
 Instrument ID: A4AG3 Date Analyzed: 09/08/2022 14:45
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-541390/24-A	20908009.D	09/08/2022 15:07
B-2 (2'-4')	500-221506-2	20909008.D	09/09/2022 14:07
B-4 (20'-22')	500-221506-4	20909009.D	09/09/2022 14:29
B-1 (6'-8')	500-221506-1	20909010.D	09/09/2022 14:51
B-3 (22'-23.5')	500-221506-3	20909011.D	09/09/2022 15:13
B-6 (30'-32')	500-221506-6	20909012.D	09/09/2022 15:38
Dup-1	500-221506-8	20909013.D	09/09/2022 16:00
B-5 (8'-10')	500-221506-5	20909014.D	09/09/2022 16:22
B-5 (8'-10') MS	500-221506-5 MS	20909015.D	09/09/2022 16:44
B-5 (8'-10') MSD	500-221506-5 MSD	20909016.D	09/09/2022 17:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 20819001.D DFTPP Injection Date: 08/19/2022
 Instrument ID: A4AG3 DFTPP Injection Time: 10:42
 Analysis Batch No.: 539537

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0- 80.0% of mass 198	35.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	42.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	25.0 - 75.0% of mass 198	48.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0- 30.0% of mass 198	25.3
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	9.8
442	40.0 - 110.0% of mass 198	64.9
443	15.0 - 24.0% of mass 442	12.6 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-539537/2	20819002.D	08/19/2022	11:04
	STD4 240-539537/3	20819003.D	08/19/2022	11:27
	STD3 240-539537/4	20819004.D	08/19/2022	11:50
	STD2 240-539537/5	20819005.D	08/19/2022	12:14
	STD1 240-539537/6	20819006.D	08/19/2022	12:37
	STD6 240-539537/7	20819007.D	08/19/2022	13:00
	STD7 240-539537/8	20819008.D	08/19/2022	13:23
	STD8 240-539537/9	20819009.D	08/19/2022	13:46
	STD9 240-539537/10	20819010.D	08/19/2022	14:09
	ICV 240-539537/11	20819011.D	08/19/2022	14:32

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 20908001.D DFTPP Injection Date: 09/08/2022
 Instrument ID: A4AG3 DFTPP Injection Time: 12:44
 Analysis Batch No.: 541870

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0- 80.0% of mass 198	47.6
68	Less than 2.0% of mass 69	0.5 (1.0) 1
69	Mass 69 relative abundance	44.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	25.0 - 75.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0- 30.0% of mass 198	26.4
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	9.5
442	40.0 - 110.0% of mass 198	74.1
443	15.0 - 24.0% of mass 442	13.9 (18.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-541870/2	20908002.D	09/08/2022	13:06
	MB 240-541390/23-A	20908008.D	09/08/2022	14:45
	LCS 240-541390/24-A	20908009.D	09/08/2022	15:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab File ID: 20909001.D DFTPP Injection Date: 09/09/2022
 Instrument ID: A4AG3 DFTPP Injection Time: 11:34
 Analysis Batch No.: 542054

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0- 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.2
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	25.0 - 75.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0- 30.0% of mass 198	23.9
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	10.5
442	40.0 - 110.0% of mass 198	65.0
443	15.0 - 24.0% of mass 442	13.2 (20.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-542054/2	20909002.D	09/09/2022	11:56
B-2 (2'-4')	500-221506-2	20909008.D	09/09/2022	14:07
B-4 (20'-22')	500-221506-4	20909009.D	09/09/2022	14:29
B-1 (6'-8')	500-221506-1	20909010.D	09/09/2022	14:51
B-3 (22'-23.5')	500-221506-3	20909011.D	09/09/2022	15:13
B-6 (30'-32')	500-221506-6	20909012.D	09/09/2022	15:38
Dup-1	500-221506-8	20909013.D	09/09/2022	16:00
B-5 (8'-10')	500-221506-5	20909014.D	09/09/2022	16:22
B-5 (8'-10') MS	500-221506-5 MS	20909015.D	09/09/2022	16:44
B-5 (8'-10') MSD	500-221506-5 MSD	20909016.D	09/09/2022	17:07

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD6 240-539537/7 Date Analyzed: 08/19/2022 13:00
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20819007.D Heated Purge: (Y/N) N
 Calibration ID: 67295

	DCBd4		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	170971	6.24	625272	7.34	378864	8.84	
UPPER LIMIT	341942	6.74	1250544	7.84	757728	9.34	
LOWER LIMIT	85486	5.74	312636	6.84	189432	8.34	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-539537/11		173082	6.23	630810	7.34	374383	8.84
CCV 240-541870/2 CCVIS		138239	6.06	561903	7.17	360174	8.67
CCV 240-542054/2 CCVIS		195490	6.00	715379	7.12	414760	8.61

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD6 240-539537/7 Date Analyzed: 08/19/2022 13:00
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20819007.D Heated Purge: (Y/N) N
 Calibration ID: 67295

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	652888	10.10	601525	12.78	549181	14.97
UPPER LIMIT	1305776	10.60	1203050	13.28	1098362	15.47
LOWER LIMIT	326444	9.60	300763	12.28	274591	14.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-539537/11	656475	10.10	619949	12.78	568532	14.97
CCV 240-541870/2 CCVIS	660259	9.92	573595	12.50	585591	14.60
CCV 240-542054/2 CCVIS	741621	9.86	624182	12.41	615961	14.49

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-541870/2 Date Analyzed: 09/08/2022 13:06
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20908002.D Heated Purge: (Y/N) N
 Calibration ID: 67343

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	138239	6.06	561903	7.17	360174	8.67
UPPER LIMIT	276478	6.56	1123806	7.67	720348	9.17
LOWER LIMIT	69120	5.56	280952	6.67	180087	8.17
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 240-541390/23-A	135133	6.06	506363	7.17	301817	8.66
LCS 240-541390/24-A	120647	6.06	488486	7.17	287810	8.66

DCBd4 = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-541870/2 Date Analyzed: 09/08/2022 13:06
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20908002.D Heated Purge: (Y/N) N
 Calibration ID: 67343

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	660259	9.92	573595	12.50	585591	14.60
UPPER LIMIT	1320518	10.42	1147190	13.00	1171182	15.10
LOWER LIMIT	330130	9.42	286798	12.00	292796	14.10
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 240-541390/23-A	534075	9.91	499226	12.49	471838	14.59
LCS 240-541390/24-A	529489	9.91	459392	12.49	453404	14.60

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-542054/2 Date Analyzed: 09/09/2022 11:56
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20909002.D Heated Purge: (Y/N) N
 Calibration ID: 67343

	DCBd4		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	195490	6.00	715379	7.12	414760	8.61	
UPPER LIMIT	390980	6.50	1430758	7.62	829520	9.11	
LOWER LIMIT	97745	5.50	357690	6.62	207380	8.11	
LAB SAMPLE ID	CLIENT SAMPLE ID						
500-221506-2	B-2 (2'-4')	177047	6.00	689982	7.12	414575	8.61
500-221506-4	B-4 (20'-22')	136832	6.00	567709	7.12	353540	8.61
500-221506-1	B-1 (6'-8')	130202	6.00	433279	7.12	255815	8.61
500-221506-3	B-3 (22'-23.5')	115311	6.00	453251	7.12	257671	8.61
500-221506-6	B-6 (30'-32')	165234	6.00	631880	7.11	415751	8.61
500-221506-8	Dup-1	127242	6.00	428546	7.12	271905	8.61
500-221506-5	B-5 (8'-10')	136110	6.00	461612	7.12	283148	8.61
500-221506-5 MS	B-5 (8'-10') MS	124043	6.00	436678	7.12	251575	8.61
500-221506-5 MSD	B-5 (8'-10') MSD	119436	6.00	453841	7.12	260120	8.61

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-542054/2 Date Analyzed: 09/09/2022 11:56
 Instrument ID: A4AG3 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm)
 Lab File ID (Standard): 20909002.D Heated Purge: (Y/N) N
 Calibration ID: 67343

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	741621	9.86	624182	12.41	615961	14.49	
UPPER LIMIT	1483242	10.36	1248364	12.91	1231922	14.99	
LOWER LIMIT	370811	9.36	312091	11.91	307981	13.99	
LAB SAMPLE ID	CLIENT SAMPLE ID						
500-221506-2	B-2 (2'-4')	719137	9.86	604633	12.41	632622	14.48
500-221506-4	B-4 (20'-22')	591533	9.85	633774	12.41	631586	14.48
500-221506-1	B-1 (6'-8')	424504	9.85	396953	12.41	392842	14.48
500-221506-3	B-3 (22'-23.5')	456978	9.85	404879	12.41	395172	14.48
500-221506-6	B-6 (30'-32')	660834	9.86	600006	12.41	625531	14.48
500-221506-8	Dup-1	455676	9.85	389510	12.41	411806	14.48
500-221506-5	B-5 (8'-10')	479494	9.85	445467	12.41	408918	14.48
500-221506-5 MS	B-5 (8'-10') MS	417159	9.85	391296	12.41	387930	14.48
500-221506-5 MSD	B-5 (8'-10') MSD	482415	9.85	421613	12.41	410373	14.48

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-1 (6'-8') Lab Sample ID: 500-221506-1
 Matrix: Solid Lab File ID: 20909010.D
 Analysis Method: 8270E Date Collected: 08/29/2022 10:10
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30.06(g) Date Analyzed: 09/09/2022 14:51
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 22.0 % Solids: 78.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.019		0.019	
208-96-8	Acenaphthylene	<0.019		0.019	
120-12-7	Anthracene	<0.019		0.019	
56-55-3	Benzo[a]anthracene	<0.019		0.019	
50-32-8	Benzo[a]pyrene	<0.019		0.019	
205-99-2	Benzo[b]fluoranthene	<0.019		0.019	
191-24-2	Benzo[g,h,i]perylene	<0.019		0.019	
207-08-9	Benzo[k]fluoranthene	<0.019		0.019	
218-01-9	Chrysene	<0.019		0.019	
53-70-3	Dibenz(a,h)anthracene	<0.019		0.019	
206-44-0	Fluoranthene	<0.019		0.019	
86-73-7	Fluorene	<0.019		0.019	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.019		0.019	
91-20-3	Naphthalene	<0.019		0.019	
85-01-8	Phenanthrene	<0.019		0.019	
129-00-0	Pyrene	<0.019		0.019	
90-12-0	1-Methylnaphthalene	<0.019		0.019	
91-57-6	2-Methylnaphthalene	<0.019		0.019	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	97		46-137
4165-62-2	Phenol-d5 (Surr)	84		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	94		25-120
367-12-4	2-Fluorophenol (Surr)	93		20-120
321-60-8	2-Fluorobiphenyl (Surr)	91		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	91		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909010.D
 Lims ID: 500-221506-F-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:51:28 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-010
 Misc. Info.: 500-221506-F-1-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.002	6.001	0.001	96	130202	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	100	433279	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	92	255815	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	97	424504	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	100	396953	4.00	
* 6 Perylene-d12	264	14.484	14.489	-0.005	98	392842	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	91	361873	9.33	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	75	403677	8.42	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	89	378097	9.38	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	712222	9.07	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	89	91583	9.11	
\$ 12 Terphenyl-d14	244	11.207	11.207	0.000	98	928645	9.69	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202	10.890	10.889	0.001	91	8149	0.0684	
163 Pyrene	202	11.101	11.101	0.000	87	7097	0.0559	
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	U
185 Benzo[b]fluoranthene	252		13.907				ND	
186 Benzo[k]fluoranthene	252		13.948				ND	
187 Benzo[a]pyrene	252		14.407				ND	
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909010.D

Injection Date: 09-Sep-2022 14:51:28

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-1-A

Lab Sample ID: 240-221506-1

Worklist Smp#: 10

Client ID: B-1 (6'-8')

Injection Vol: 1.0 ul

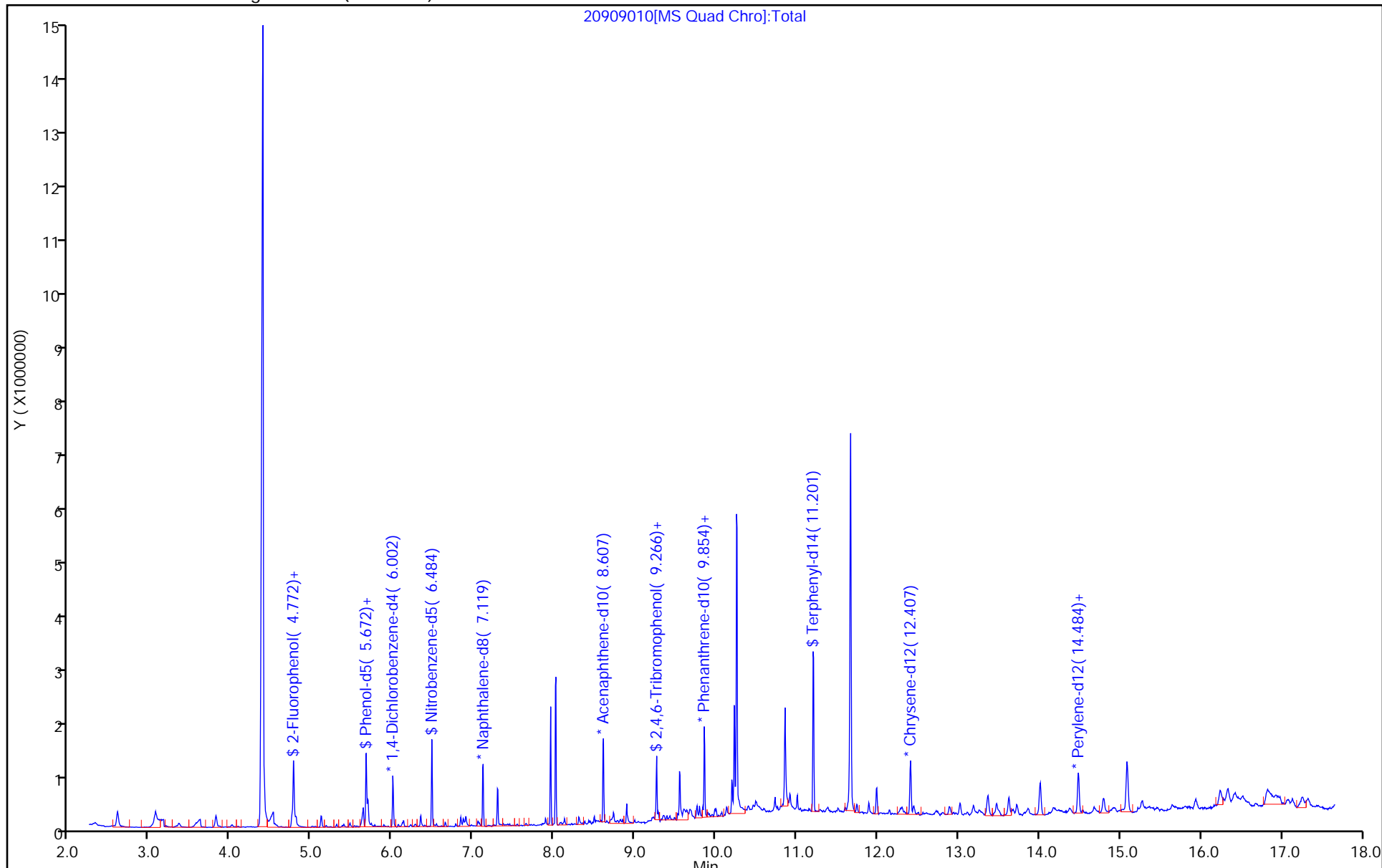
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909010.D
 Lims ID: 500-221506-F-1-A
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:51:28 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-010
 Misc. Info.: 500-221506-F-1-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:28

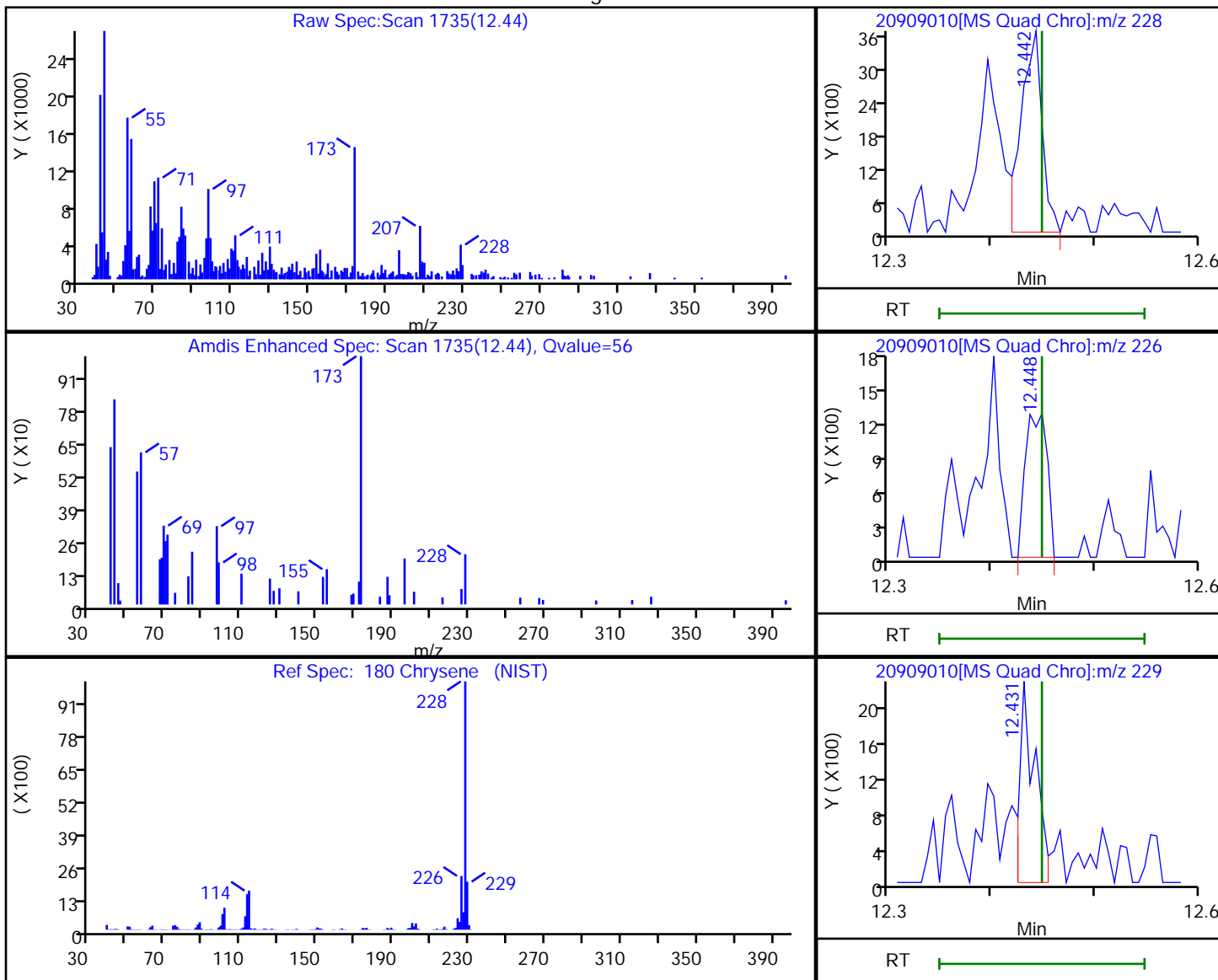
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	9.33	93.28
\$ 8 Phenol-d5	10.0	8.42	84.19
\$ 9 Nitrobenzene-d5	10.0	9.38	93.78
\$ 10 2-Fluorobiphenyl (Surr)	10.0	9.07	90.73
\$ 11 2,4,6-Tribromophenol	10.0	9.11	91.09
\$ 12 Terphenyl-d14	10.0	9.69	96.87

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909010.D
 Injection Date: 09-Sep-2022 14:51:28 Instrument ID: A4AG3
 Lims ID: 500-221506-F-1-A Lab Sample ID: 240-221506-1
 Client ID: B-1 (6'-8')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

180 Chrysene, CAS: 218-01-9

Processing Results



RT	Mass	Response	Amount
12.44	228.00	5224	0.044415
12.45	226.00	1869	
12.43	229.00	2369	

Reviewer: KDZ4, 12-Sep-2022 13:13:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-2 (2'-4') Lab Sample ID: 500-221506-2
 Matrix: Solid Lab File ID: 20909008.D
 Analysis Method: 8270E Date Collected: 08/29/2022 10:22
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 29.63(g) Date Analyzed: 09/09/2022 14:07
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 13.9 % Solids: 86.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.018		0.018	
208-96-8	Acenaphthylene	<0.018		0.018	
120-12-7	Anthracene	<0.018		0.018	
56-55-3	Benzo[a]anthracene	<0.018		0.018	
50-32-8	Benzo[a]pyrene	<0.018		0.018	
205-99-2	Benzo[b]fluoranthene	<0.018		0.018	
191-24-2	Benzo[g,h,i]perylene	<0.018		0.018	
207-08-9	Benzo[k]fluoranthene	<0.018		0.018	
218-01-9	Chrysene	<0.018		0.018	
53-70-3	Dibenz(a,h)anthracene	<0.018		0.018	
206-44-0	Fluoranthene	<0.018		0.018	
86-73-7	Fluorene	<0.018		0.018	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.018		0.018	
91-20-3	Naphthalene	<0.018		0.018	
85-01-8	Phenanthrene	<0.018		0.018	
129-00-0	Pyrene	<0.018		0.018	
90-12-0	1-Methylnaphthalene	<0.018		0.018	
91-57-6	2-Methylnaphthalene	<0.018		0.018	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	89		46-137
4165-62-2	Phenol-d5 (Surr)	83		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	67		25-120
367-12-4	2-Fluorophenol (Surr)	75		20-120
321-60-8	2-Fluorobiphenyl (Surr)	72		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	74		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Lims ID: 500-221506-F-2-A
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:07:05 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-008
 Misc. Info.: 500-221506-F-2-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:12:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	96	177047	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	100	689982	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	91	414575	4.00	
* 4 Phenanthrene-d10	188	9.860	9.860	0.000	96	719137	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	604633	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	97	632622	4.00	
\$ 7 2-Fluorophenol	112	4.778	4.754	0.024	94	397255	7.53	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	76	541895	8.31	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	91	432071	6.73	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	914623	7.19	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	92	120335	7.38	
\$ 12 Terphenyl-d14	244	11.207	11.207	0.000	98	1300550	8.91	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	U
149 Phenanthrene	178		9.878				ND	
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	U
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	U
186 Benzo[k]fluoranthene	252		13.948				ND	U
187 Benzo[a]pyrene	252		14.407				ND	U
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D

Injection Date: 09-Sep-2022 14:07:05

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-2-A

Lab Sample ID: 240-221506-2

Worklist Smp#: 8

Client ID: B-2 (2'-4')

Injection Vol: 1.0 ul

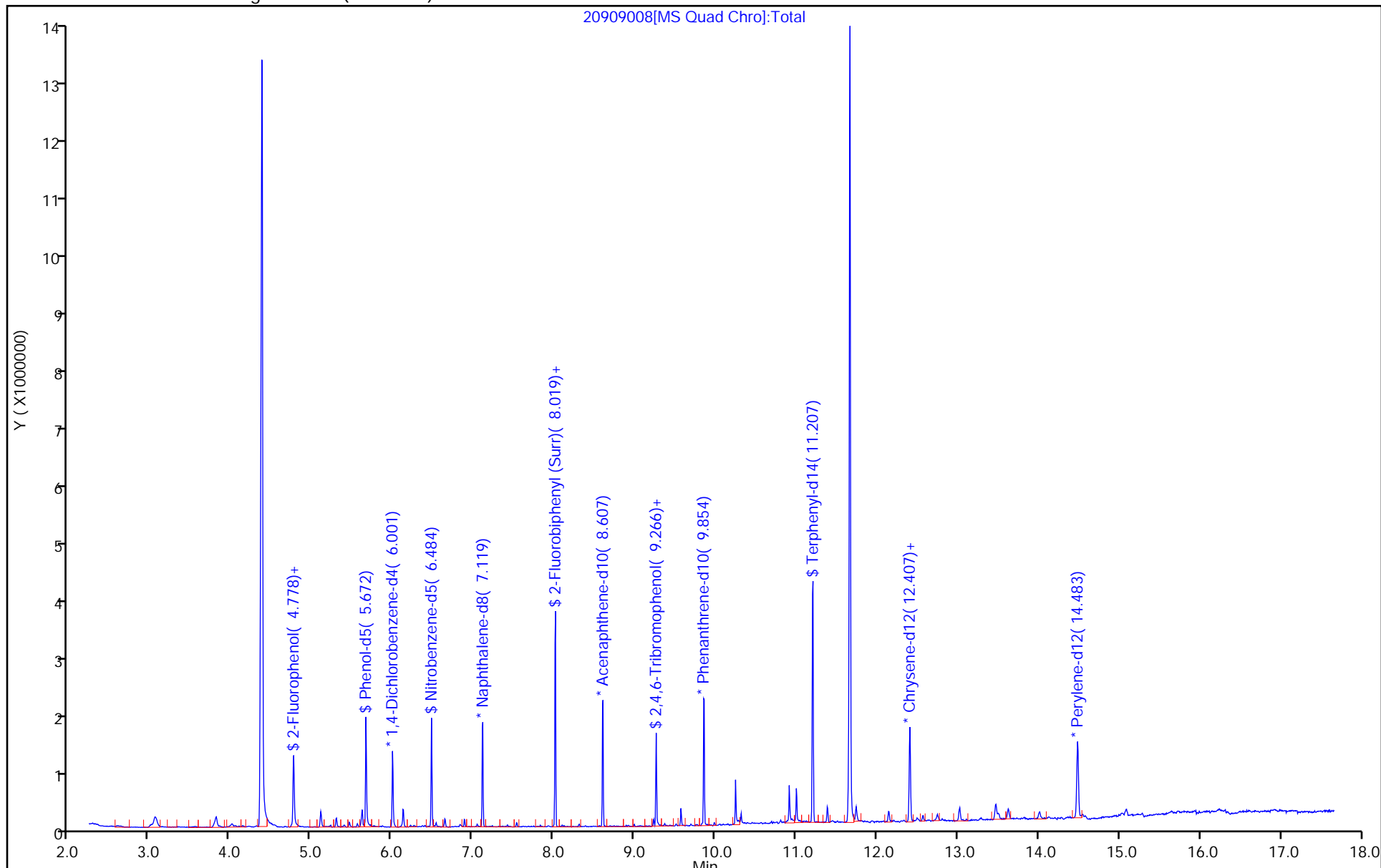
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Lims ID: 500-221506-F-2-A
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:07:05 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-008
 Misc. Info.: 500-221506-F-2-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:12:35

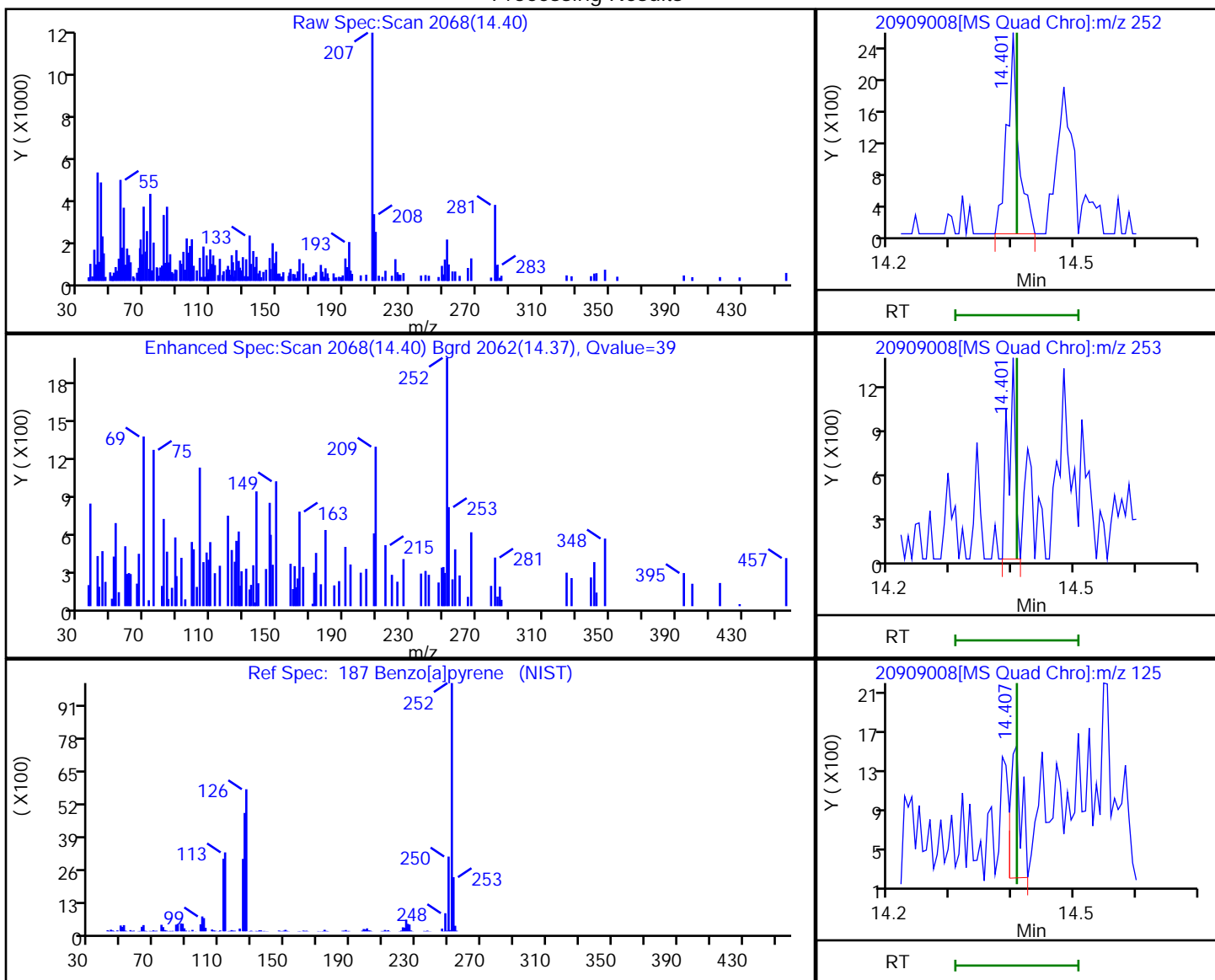
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	7.53	75.30
\$ 8 Phenol-d5	10.0	8.31	83.12
\$ 9 Nitrobenzene-d5	10.0	6.73	67.30
\$ 10 2-Fluorobiphenyl (Surr)	10.0	7.19	71.90
\$ 11 2,4,6-Tribromophenol	10.0	7.38	73.85
\$ 12 Terphenyl-d14	10.0	8.91	89.07

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Injection Date: 09-Sep-2022 14:07:05 Instrument ID: A4AG3
 Lims ID: 500-221506-F-2-A Lab Sample ID: 240-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

187 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.40	252.00	3322	0.018362
14.40	253.00	1147	
14.41	125.00	1569	

Reviewer: KDZ4, 12-Sep-2022 13:12:29

Audit Action: Marked Compound Undetected

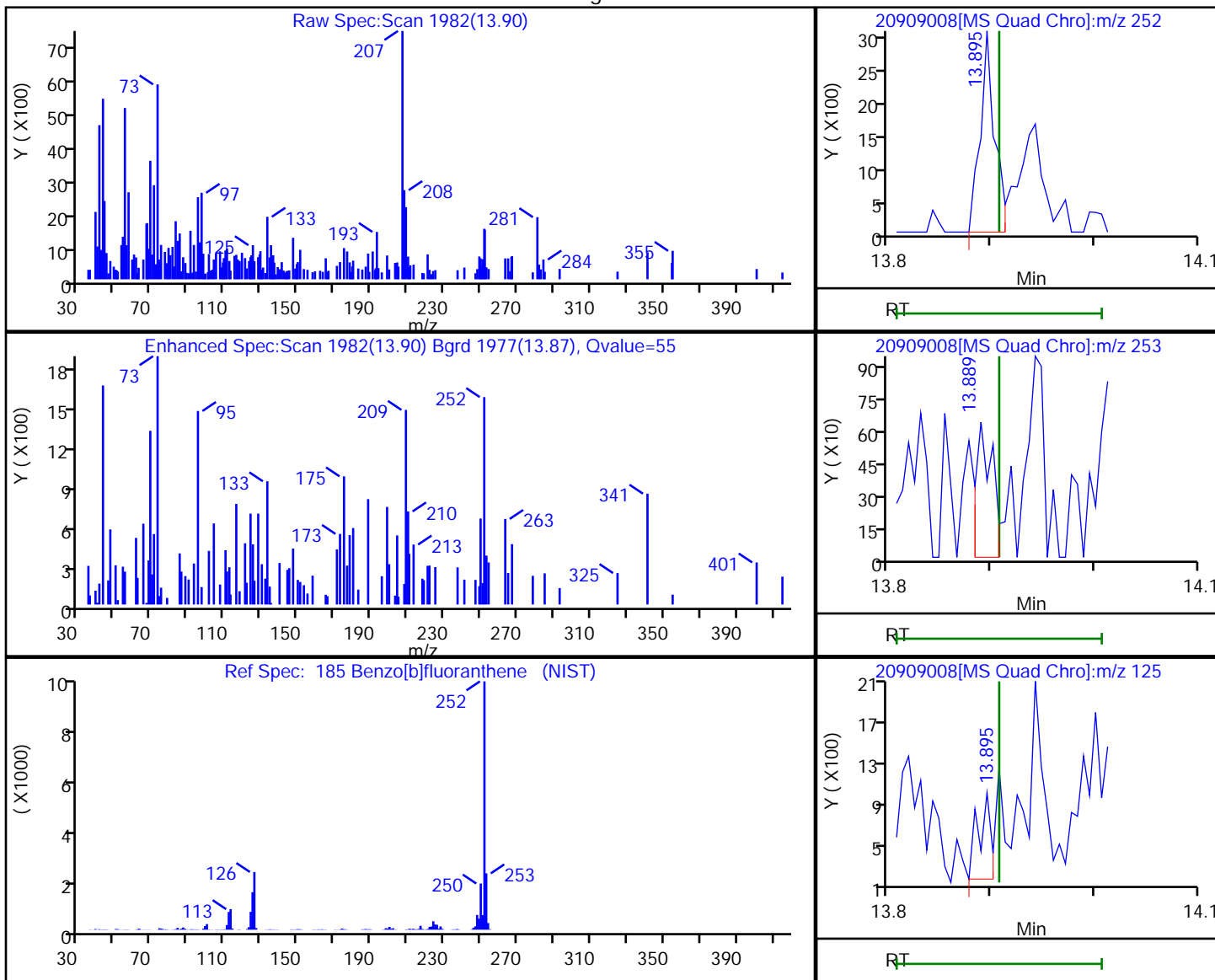
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Injection Date: 09-Sep-2022 14:07:05 Instrument ID: A4AG3
 Lims ID: 500-221506-F-2-A Lab Sample ID: 240-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

185 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
13.90	252.00	2947	0.015502
13.89	253.00	708	
13.90	125.00	701	

Reviewer: KDZ4, 12-Sep-2022 13:12:26

Audit Action: Marked Compound Undetected

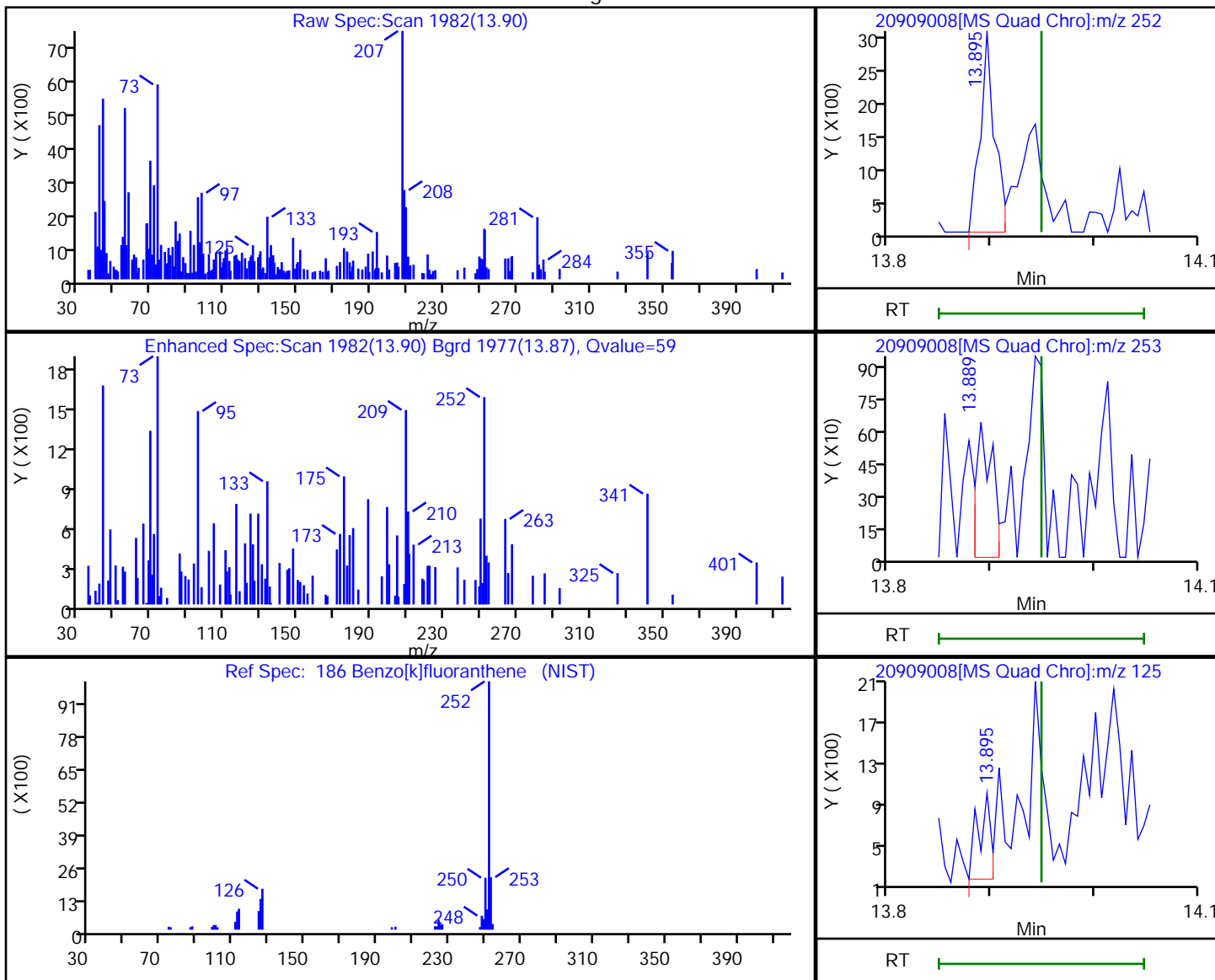
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Injection Date: 09-Sep-2022 14:07:05 Instrument ID: A4AG3
 Lims ID: 500-221506-F-2-A Lab Sample ID: 240-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

186 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
13.90	252.00	2947	0.014353
13.89	253.00	708	
13.90	125.00	701	

Reviewer: KDZ4, 12-Sep-2022 13:12:27

Audit Action: Marked Compound Undetected

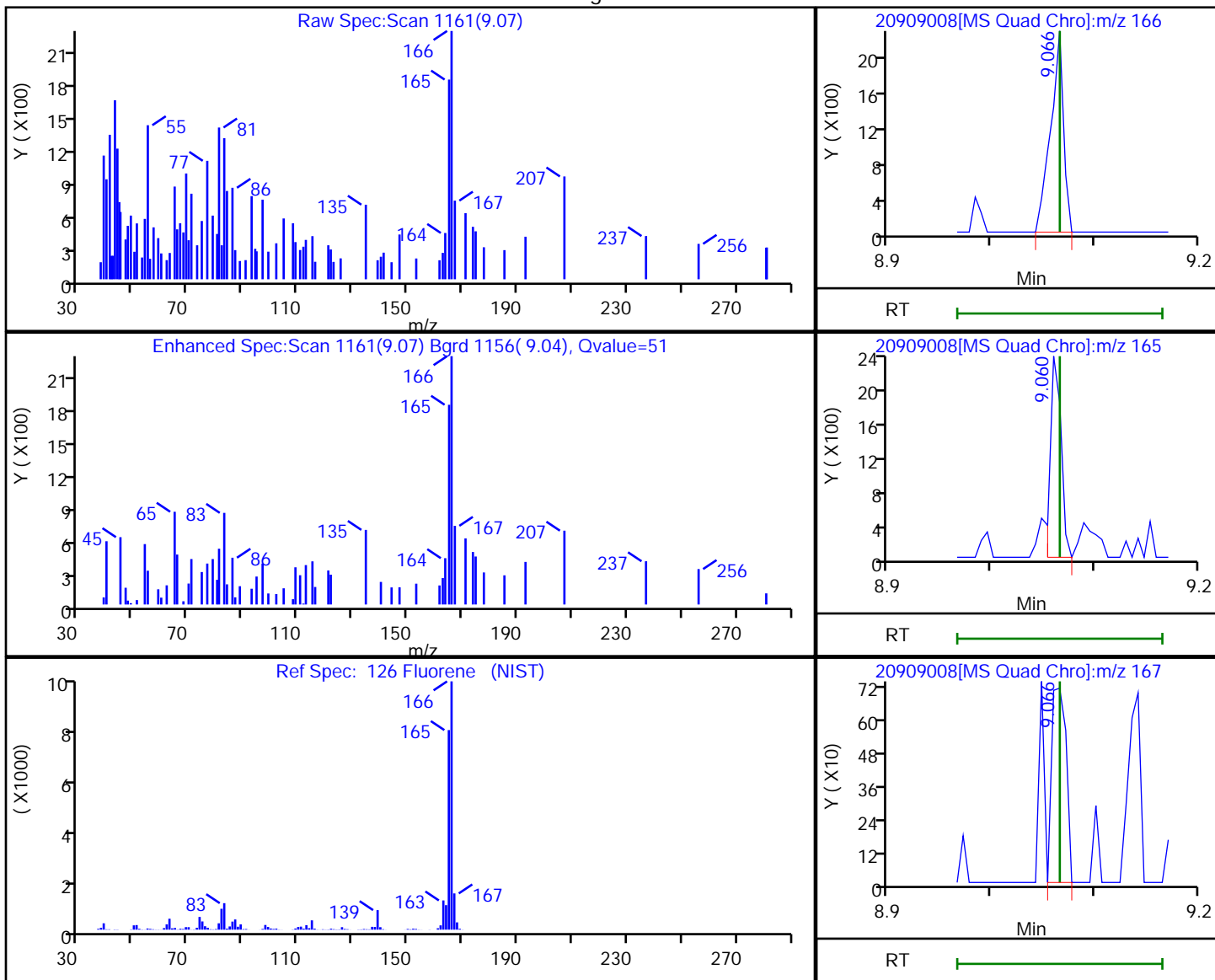
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Injection Date: 09-Sep-2022 14:07:05 Instrument ID: A4AG3
 Lims ID: 500-221506-F-2-A Lab Sample ID: 240-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

126 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
9.07	166.00	1974	0.015092
9.06	165.00	1699	
9.07	167.00	700	

Reviewer: KDZ4, 12-Sep-2022 13:12:21

Audit Action: Marked Compound Undetected

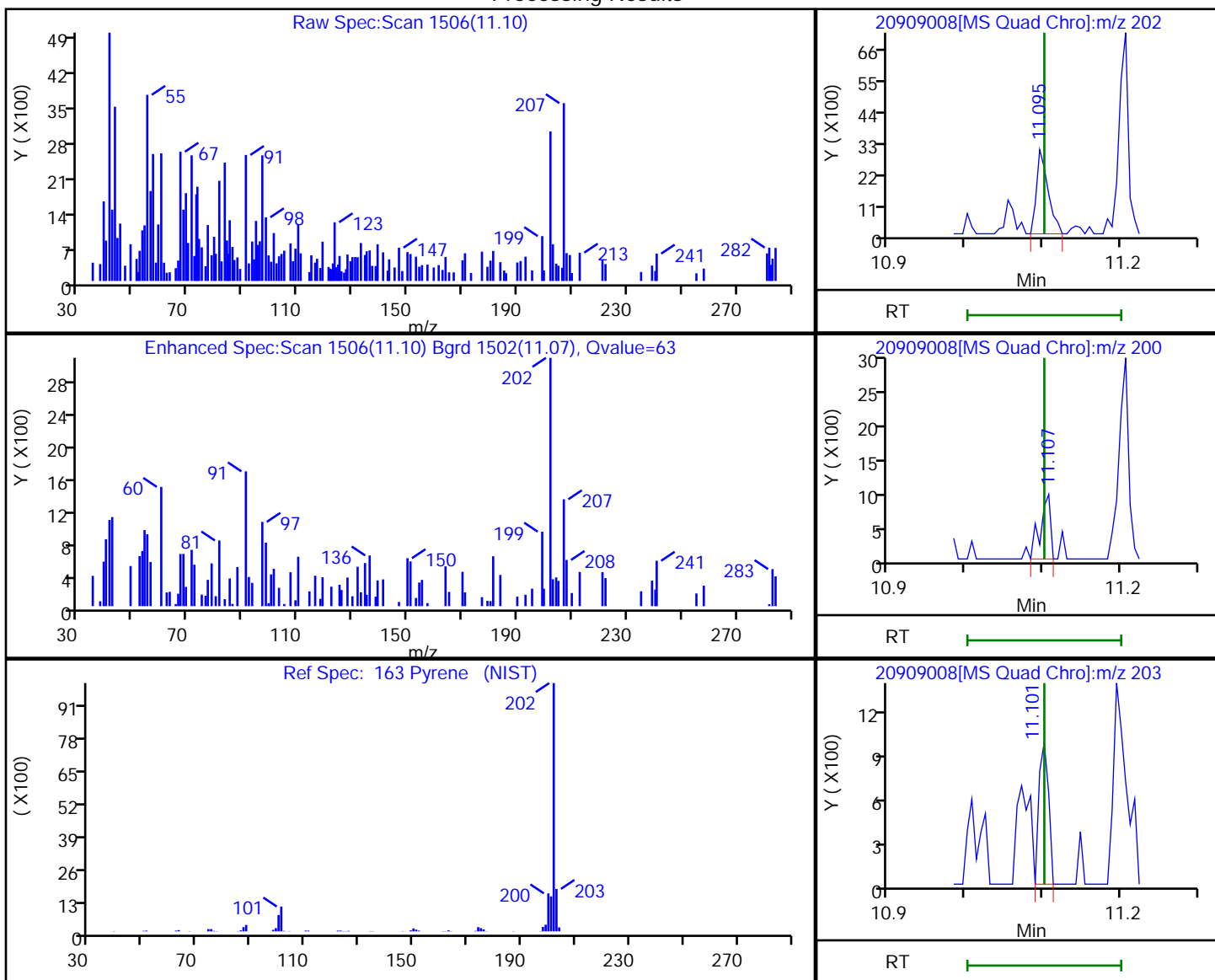
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909008.D
 Injection Date: 09-Sep-2022 14:07:05 Instrument ID: A4AG3
 Lims ID: 500-221506-F-2-A Lab Sample ID: 240-221506-2
 Client ID: B-2 (2'-4')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

163 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.10	202.00	3150	0.016277
11.11	200.00	869	
11.10	203.00	797	

Reviewer: KDZ4, 12-Sep-2022 13:12:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-3 (22'-23.5') Lab Sample ID: 500-221506-3
 Matrix: Solid Lab File ID: 20909011.D
 Analysis Method: 8270E Date Collected: 08/29/2022 11:25
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30.23(g) Date Analyzed: 09/09/2022 15:13
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 18.0 % Solids: 82.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.018		0.018	
208-96-8	Acenaphthylene	<0.018		0.018	
120-12-7	Anthracene	<0.018		0.018	
56-55-3	Benzo[a]anthracene	<0.018		0.018	
50-32-8	Benzo[a]pyrene	<0.018		0.018	
205-99-2	Benzo[b]fluoranthene	<0.018		0.018	
191-24-2	Benzo[g,h,i]perylene	<0.018		0.018	
207-08-9	Benzo[k]fluoranthene	<0.018		0.018	
218-01-9	Chrysene	<0.018		0.018	
53-70-3	Dibenz(a,h)anthracene	<0.018		0.018	
206-44-0	Fluoranthene	<0.018		0.018	
86-73-7	Fluorene	<0.018		0.018	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.018		0.018	
91-20-3	Naphthalene	<0.018		0.018	
85-01-8	Phenanthrene	<0.018		0.018	
129-00-0	Pyrene	<0.018		0.018	
90-12-0	1-Methylnaphthalene	<0.018		0.018	
91-57-6	2-Methylnaphthalene	<0.018		0.018	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	77		46-137
4165-62-2	Phenol-d5 (Surr)	53		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	67		25-120
367-12-4	2-Fluorophenol (Surr)	37		20-120
321-60-8	2-Fluorobiphenyl (Surr)	76		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	51		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D
 Lims ID: 500-221506-F-3-A
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 15:13:40 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-011
 Misc. Info.: 500-221506-F-3-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.002	6.001	0.001	97	115311	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	99	453251	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	91	257671	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	97	456978	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	404879	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	97	395172	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	94	127877	3.72	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	76	225961	5.32	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	91	283826	6.73	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	601204	7.60	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	89	51489	5.08	
\$ 12 Terphenyl-d14	244	11.201	11.207	-0.006	98	752771	7.70	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	U
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	
186 Benzo[k]fluoranthene	252		13.948				ND	U
187 Benzo[a]pyrene	252		14.407				ND	U
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D

Injection Date: 09-Sep-2022 15:13:40

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-3-A

Lab Sample ID: 240-221506-3

Worklist Smp#: 11

Client ID: B-3 (22'-23.5')

Injection Vol: 1.0 ul

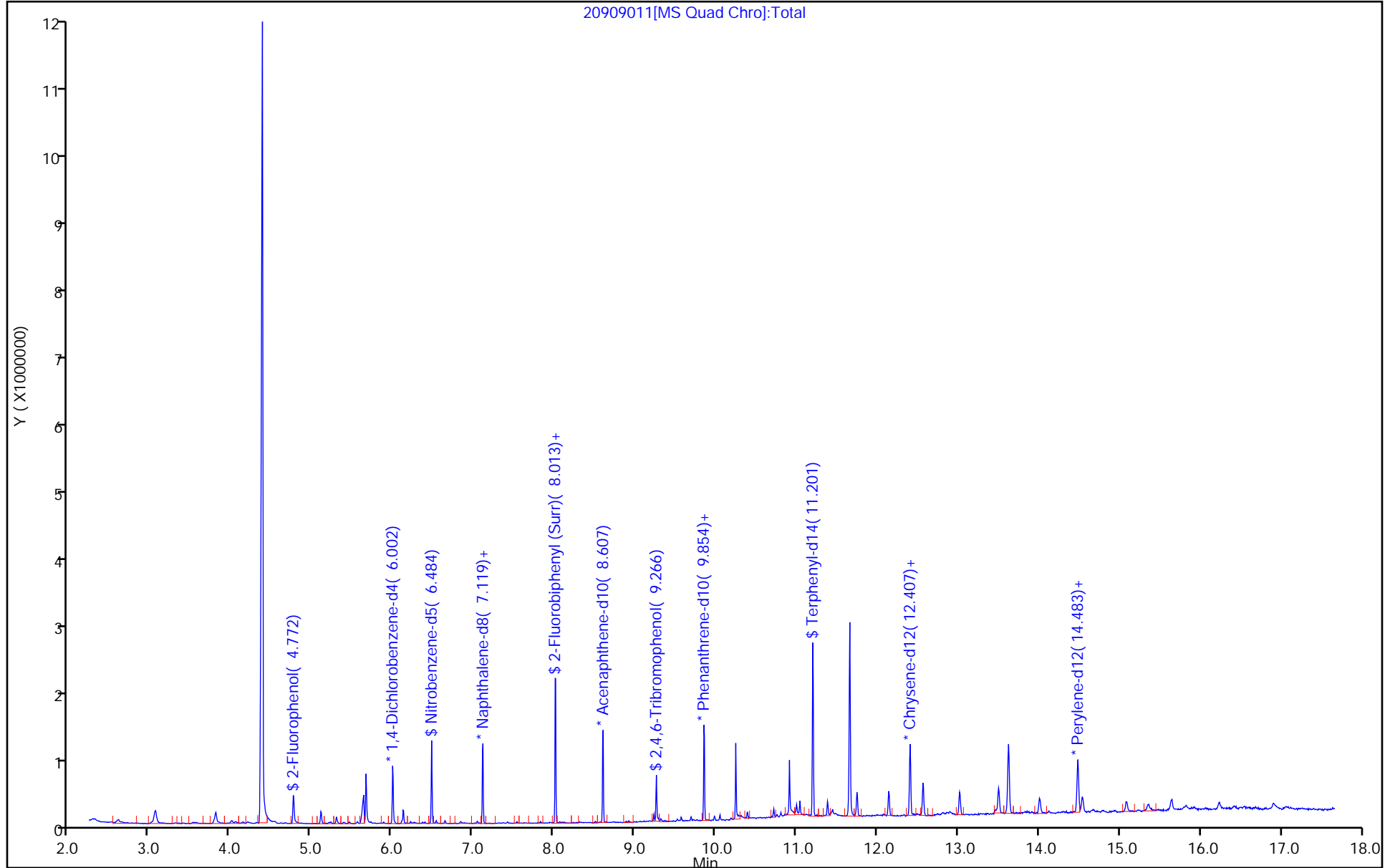
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D
 Lims ID: 500-221506-F-3-A
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 15:13:40 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-011
 Misc. Info.: 500-221506-F-3-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:53

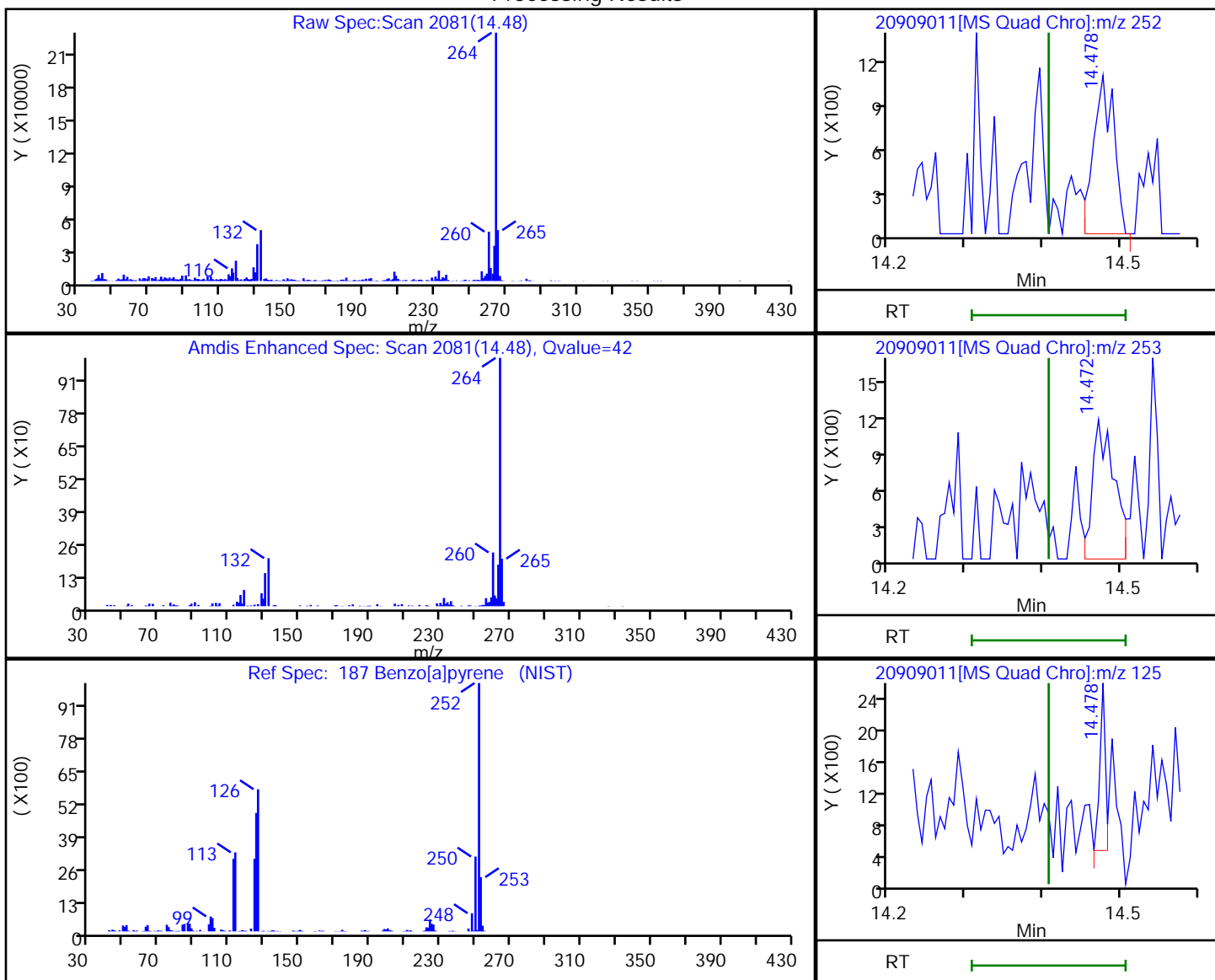
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	3.72	37.22
\$ 8 Phenol-d5	10.0	5.32	53.21
\$ 9 Nitrobenzene-d5	10.0	6.73	67.30
\$ 10 2-Fluorobiphenyl (Surr)	10.0	7.60	76.04
\$ 11 2,4,6-Tribromophenol	10.0	5.08	50.84
\$ 12 Terphenyl-d14	10.0	7.70	76.99

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D
 Injection Date: 09-Sep-2022 15:13:40 Instrument ID: A4AG3
 Lims ID: 500-221506-F-3-A Lab Sample ID: 240-221506-3
 Client ID: B-3 (22'-23.5')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

187 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.48	252.00	2002	0.017715
14.47	253.00	2258	
14.48	125.00	1099	

Reviewer: KDZ4, 12-Sep-2022 13:13:47

Audit Action: Marked Compound Undetected

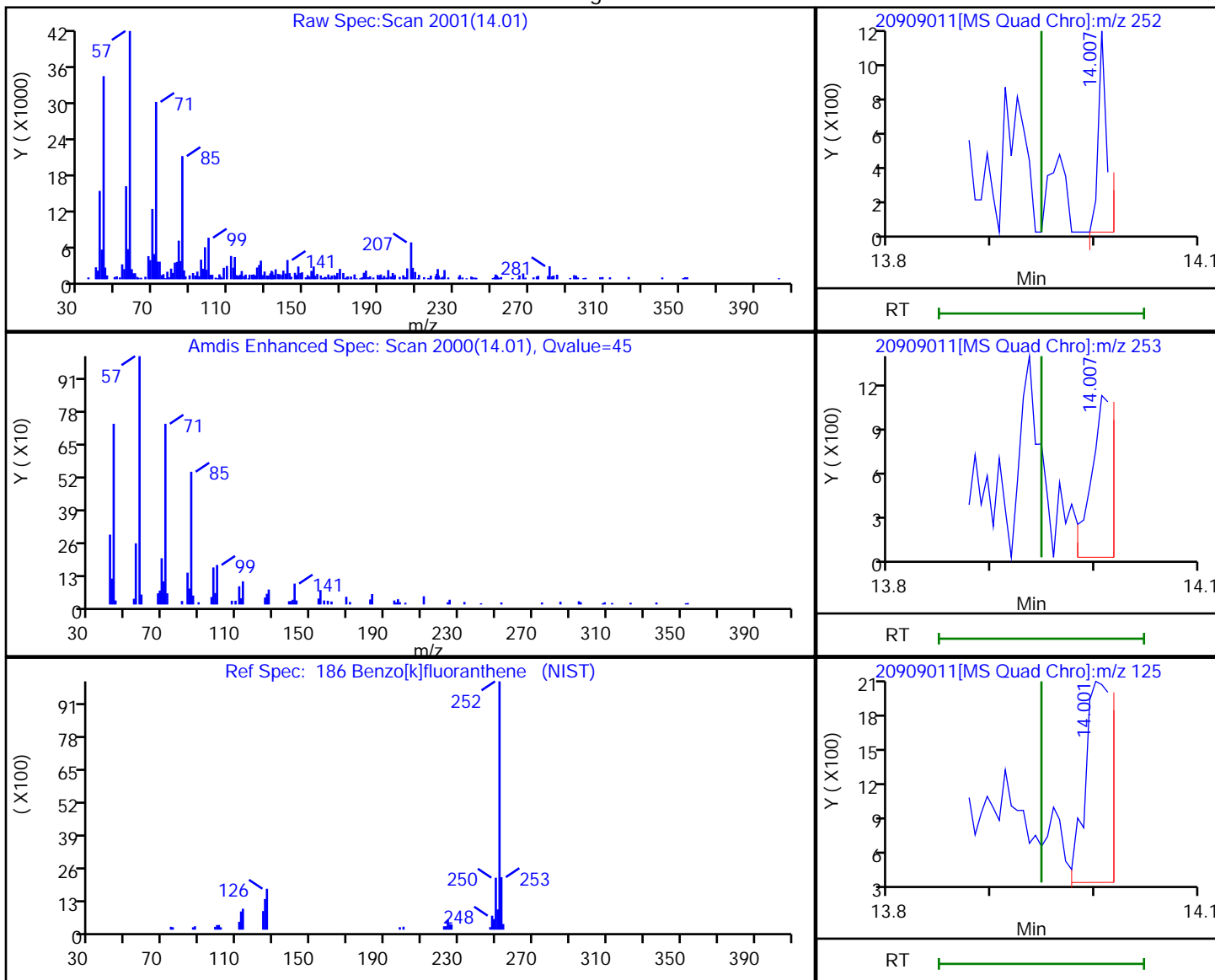
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D
 Injection Date: 09-Sep-2022 15:13:40 Instrument ID: A4AG3
 Lims ID: 500-221506-F-3-A Lab Sample ID: 240-221506-3
 Client ID: B-3 (22'-23.5')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

186 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
14.01	252.00	593	0.004623
14.01	253.00	1465	
14.00	125.00	3165	

Reviewer: KDZ4, 12-Sep-2022 13:13:45

Audit Action: Marked Compound Undetected

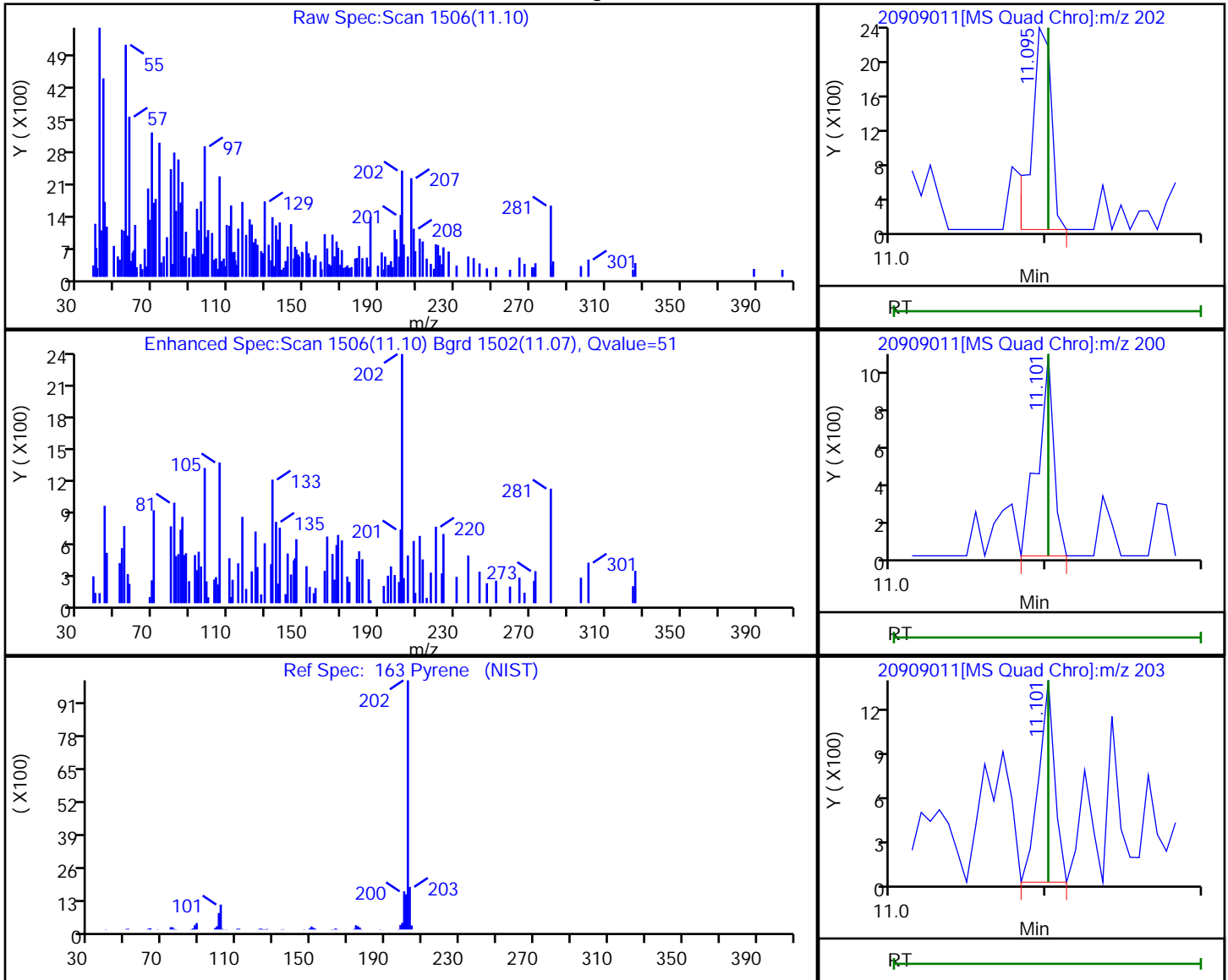
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909011.D
 Injection Date: 09-Sep-2022 15:13:40 Instrument ID: A4AG3
 Lims ID: 500-221506-F-3-A Lab Sample ID: 240-221506-3
 Client ID: B-3 (22'-23.5')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

163 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.10	202.00	2052	0.015834
11.10	200.00	777	
11.10	203.00	938	

Reviewer: KDZ4, 12-Sep-2022 13:13:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-4 (20'-22') Lab Sample ID: 500-221506-4
 Matrix: Solid Lab File ID: 20909009.D
 Analysis Method: 8270E Date Collected: 08/29/2022 12:18
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30.35(g) Date Analyzed: 09/09/2022 14:29
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 18.7 % Solids: 81.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.018		0.018	
208-96-8	Acenaphthylene	<0.018		0.018	
120-12-7	Anthracene	<0.018		0.018	
56-55-3	Benzo[a]anthracene	<0.018		0.018	
50-32-8	Benzo[a]pyrene	<0.018		0.018	
205-99-2	Benzo[b]fluoranthene	<0.018		0.018	
191-24-2	Benzo[g,h,i]perylene	<0.018		0.018	
207-08-9	Benzo[k]fluoranthene	<0.018		0.018	
218-01-9	Chrysene	<0.018		0.018	
53-70-3	Dibenz(a,h)anthracene	<0.018		0.018	
206-44-0	Fluoranthene	<0.018		0.018	
86-73-7	Fluorene	<0.018		0.018	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.018		0.018	
91-20-3	Naphthalene	<0.018		0.018	
85-01-8	Phenanthrene	<0.018		0.018	
129-00-0	Pyrene	<0.018		0.018	
90-12-0	1-Methylnaphthalene	<0.018		0.018	
91-57-6	2-Methylnaphthalene	<0.018		0.018	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	94		46-137
4165-62-2	Phenol-d5 (Surr)	75		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		25-120
367-12-4	2-Fluorophenol (Surr)	46		20-120
321-60-8	2-Fluorobiphenyl (Surr)	85		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	17		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Lims ID: 500-221506-F-4-A
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:29:13 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-009
 Misc. Info.: 500-221506-F-4-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	97	136832	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	99	567709	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	90	353540	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	95	591533	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	633774	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	98	631586	4.00	
\$ 7 2-Fluorophenol	112	4.778	4.754	0.024	92	186961	4.59	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	75	380174	7.54	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	91	408337	7.73	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	922702	8.51	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	90	23399	1.68	
\$ 12 Terphenyl-d14	244	11.201	11.207	-0.006	98	1431291	9.35	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	U
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	U
186 Benzo[k]fluoranthene	252		13.948				ND	U
187 Benzo[a]pyrene	252		14.407				ND	U
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D

Injection Date: 09-Sep-2022 14:29:13

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-4-A

Lab Sample ID: 240-221506-4

Worklist Smp#: 9

Client ID: B-4 (20'-22')

Injection Vol: 1.0 ul

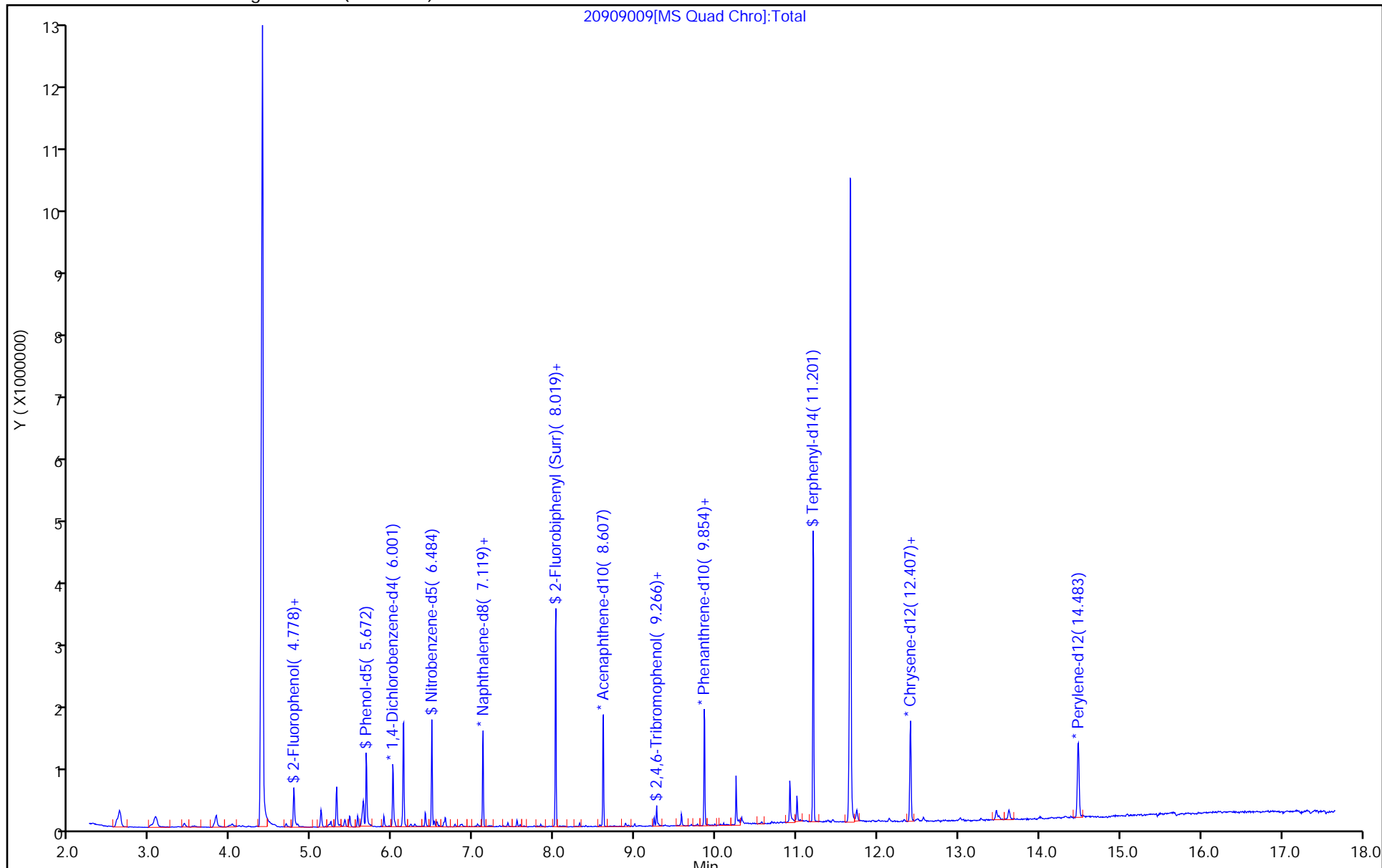
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Lims ID: 500-221506-F-4-A
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 14:29:13 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-009
 Misc. Info.: 500-221506-F-4-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:13:06

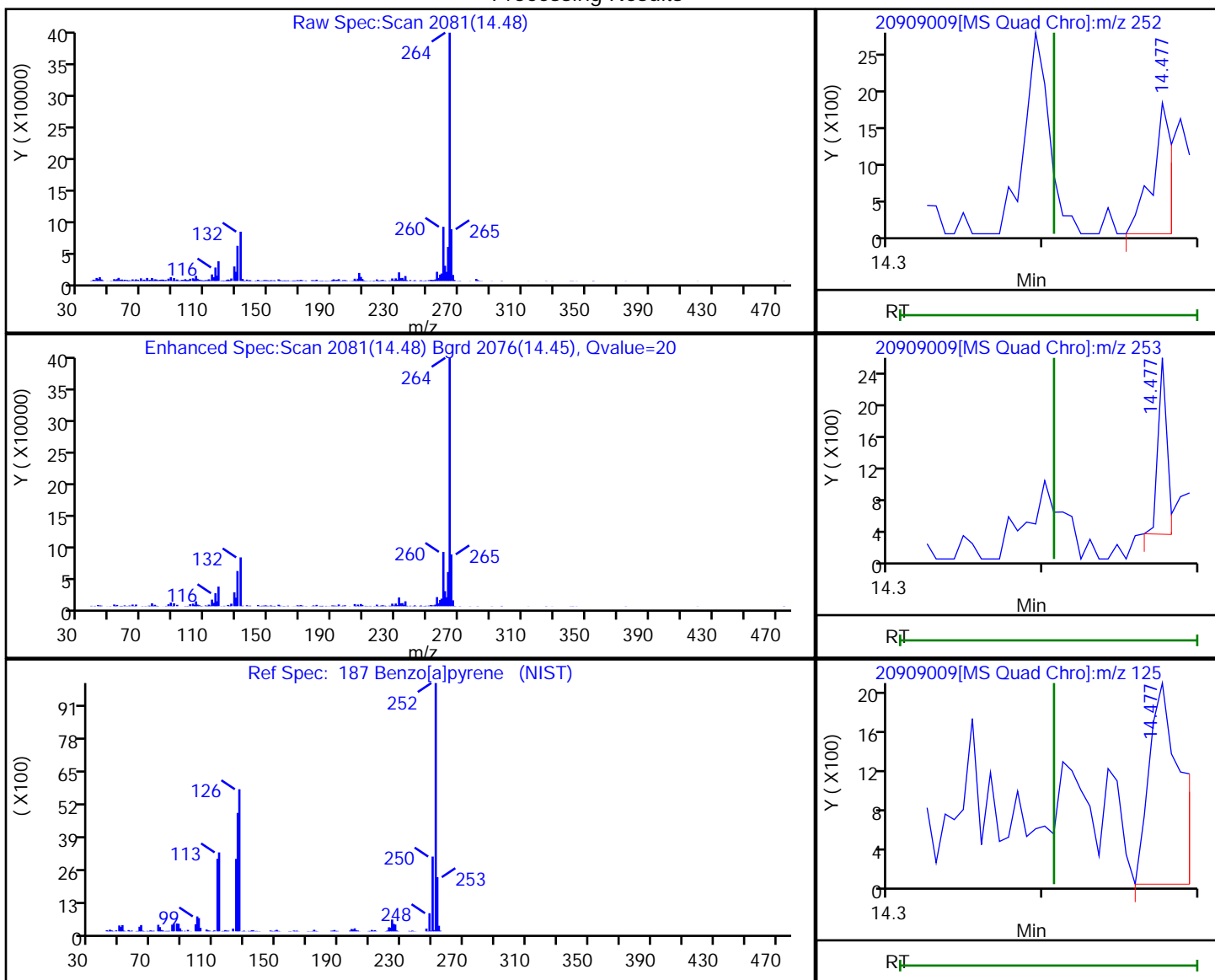
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	4.59	45.86
\$ 8 Phenol-d5	10.0	7.54	75.45
\$ 9 Nitrobenzene-d5	10.0	7.73	77.30
\$ 10 2-Fluorobiphenyl (Surr)	10.0	8.51	85.05
\$ 11 2,4,6-Tribromophenol	10.0	1.68	16.84
\$ 12 Terphenyl-d14	10.0	9.35	93.51

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Injection Date: 09-Sep-2022 14:29:13 Instrument ID: A4AG3
 Lims ID: 500-221506-F-4-A Lab Sample ID: 240-221506-4
 Client ID: B-4 (20'-22')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

187 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.48	252.00	1588	0.008792
14.48	253.00	897	
14.48	125.00	2787	

Reviewer: KDZ4, 12-Sep-2022 13:12:59

Audit Action: Marked Compound Undetected

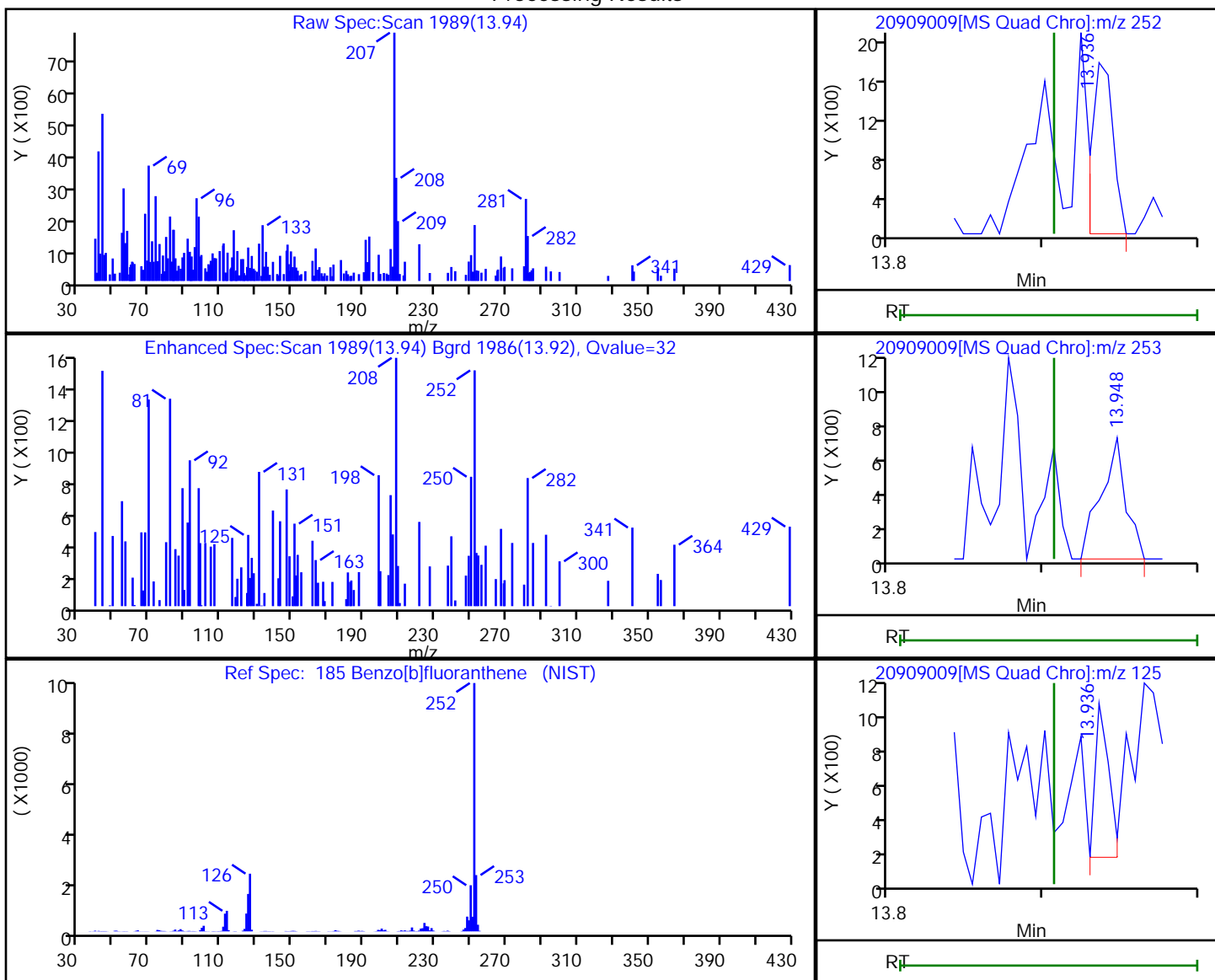
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Injection Date: 09-Sep-2022 14:29:13 Instrument ID: A4AG3
 Lims ID: 500-221506-F-4-A Lab Sample ID: 240-221506-4
 Client ID: B-4 (20'-22')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

185 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
13.94	252.00	1685	0.008878
13.95	253.00	779	
13.94	125.00	554	

Reviewer: KDZ4, 12-Sep-2022 13:12:56

Audit Action: Marked Compound Undetected

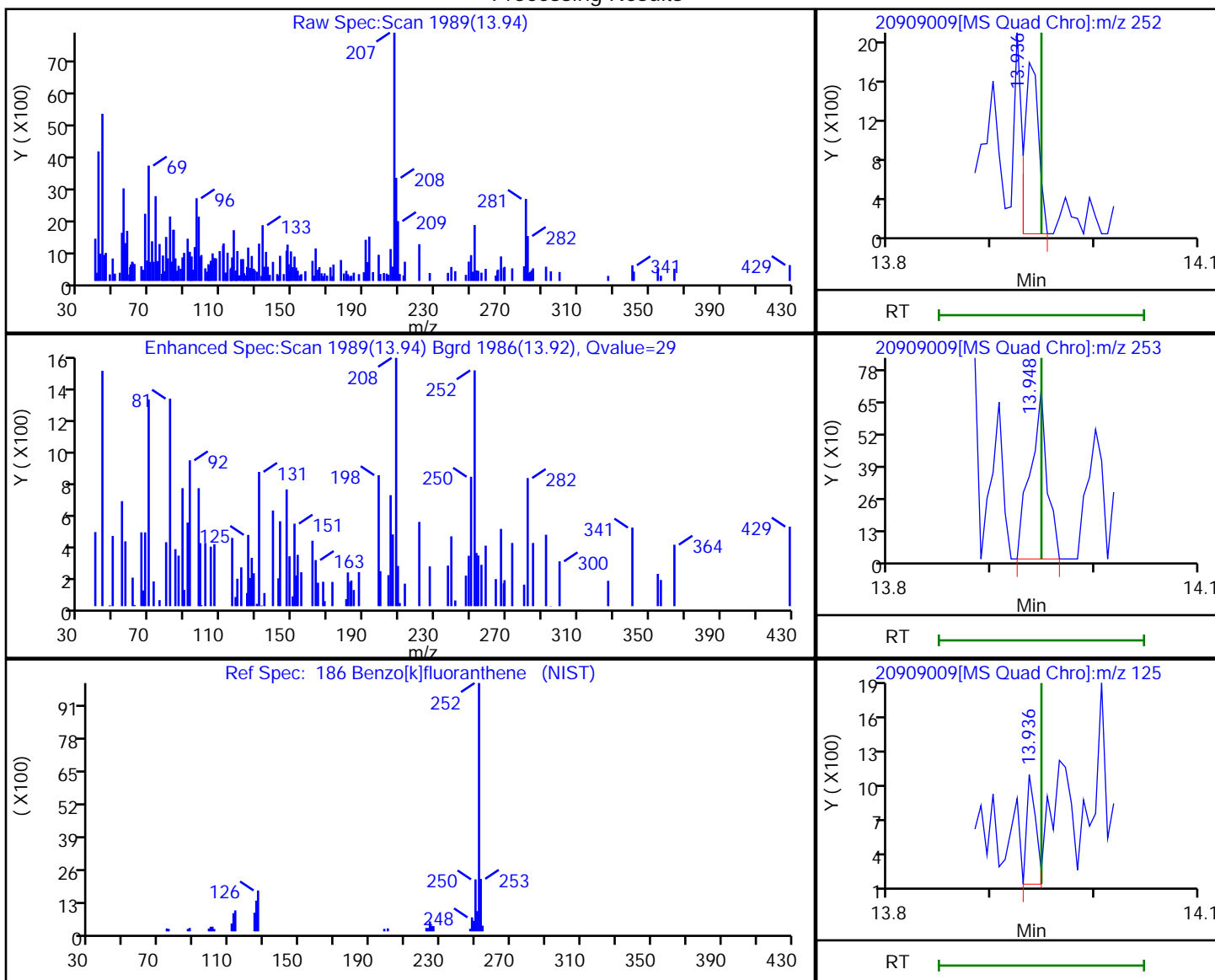
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Injection Date: 09-Sep-2022 14:29:13 Instrument ID: A4AG3
 Lims ID: 500-221506-F-4-A Lab Sample ID: 240-221506-4
 Client ID: B-4 (20'-22')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

186 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
13.94	252.00	1685	0.008220
13.95	253.00	779	
13.94	125.00	554	

Reviewer: KDZ4, 12-Sep-2022 13:12:58

Audit Action: Marked Compound Undetected

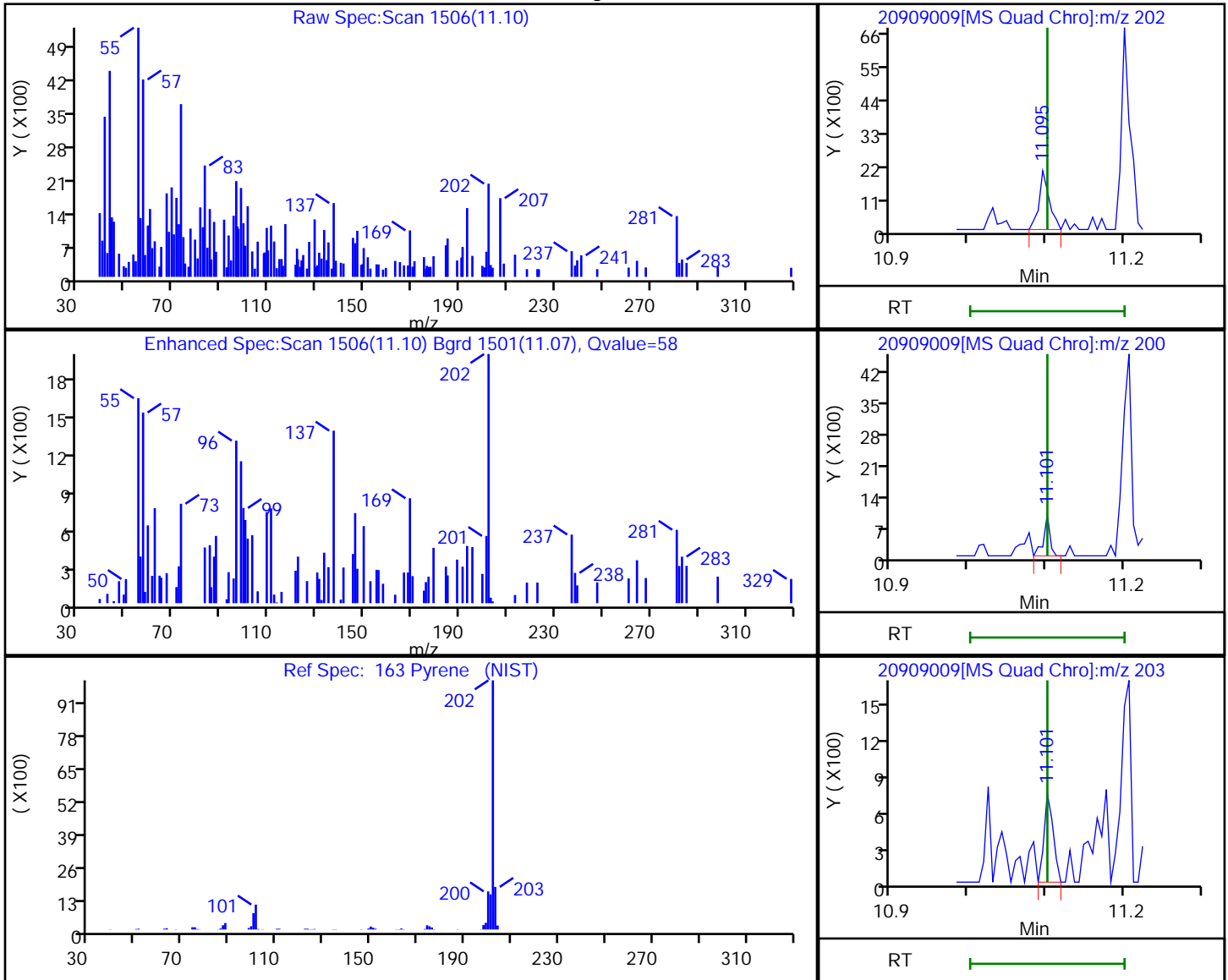
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909009.D
 Injection Date: 09-Sep-2022 14:29:13 Instrument ID: A4AG3
 Lims ID: 500-221506-F-4-A Lab Sample ID: 240-221506-4
 Client ID: B-4 (20'-22')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

163 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.10	202.00	1804	0.008893
11.10	200.00	529	
11.10	203.00	582	

Reviewer: KDZ4, 12-Sep-2022 13:12:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') Lab Sample ID: 500-221506-5
 Matrix: Solid Lab File ID: 20909014.D
 Analysis Method: 8270E Date Collected: 08/29/2022 14:15
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 29.64(g) Date Analyzed: 09/09/2022 16:22
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.020		0.020	
208-96-8	Acenaphthylene	<0.020		0.020	
120-12-7	Anthracene	<0.020		0.020	
56-55-3	Benzo[a]anthracene	<0.020		0.020	
50-32-8	Benzo[a]pyrene	<0.020		0.020	
205-99-2	Benzo[b]fluoranthene	<0.020		0.020	
191-24-2	Benzo[g,h,i]perylene	<0.020		0.020	
207-08-9	Benzo[k]fluoranthene	<0.020		0.020	
218-01-9	Chrysene	<0.020		0.020	
53-70-3	Dibenz(a,h)anthracene	<0.020		0.020	
206-44-0	Fluoranthene	<0.020		0.020	
86-73-7	Fluorene	<0.020		0.020	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.020		0.020	
91-20-3	Naphthalene	<0.020		0.020	
85-01-8	Phenanthrene	<0.020		0.020	
129-00-0	Pyrene	<0.020		0.020	
90-12-0	1-Methylnaphthalene	<0.020		0.020	
91-57-6	2-Methylnaphthalene	<0.020		0.020	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	84		46-137
4165-62-2	Phenol-d5 (Surr)	69		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	71		25-120
367-12-4	2-Fluorophenol (Surr)	56		20-120
321-60-8	2-Fluorobiphenyl (Surr)	69		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	35		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909014.D
 Lims ID: 500-221506-F-5-A
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 16:22:41 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-014
 Misc. Info.: 500-221506-F-5-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	98	136110	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	99	461612	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	92	283148	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	97	479494	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	98	445467	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	98	408918	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	94	228012	5.62	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	75	344346	6.87	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	91	305098	7.10	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	595818	6.86	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	89	39471	3.55	
\$ 12 Terphenyl-d14	244	11.201	11.207	-0.006	98	907084	8.43	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	U
150 Anthracene	178		9.925				ND	U
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	
186 Benzo[k]fluoranthene	252		13.948				ND	
187 Benzo[a]pyrene	252		14.407				ND	
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909014.D

Injection Date: 09-Sep-2022 16:22:41

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-5-A

Lab Sample ID: 240-221506-5

Worklist Smp#: 14

Client ID: B-5 (8'-10')

Injection Vol: 1.0 ul

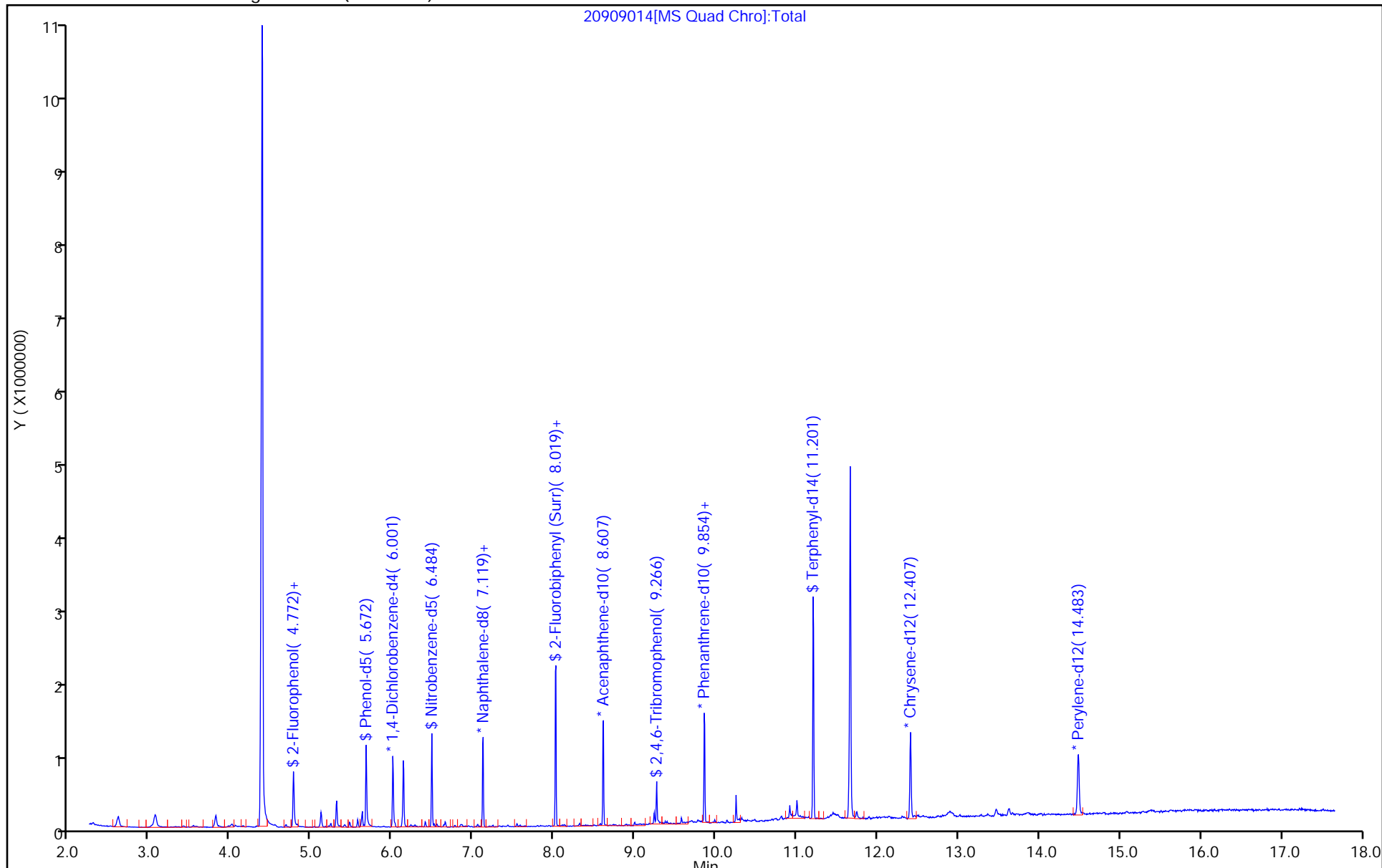
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909014.D
 Lims ID: 500-221506-F-5-A
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 16:22:41 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-014
 Misc. Info.: 500-221506-F-5-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:58

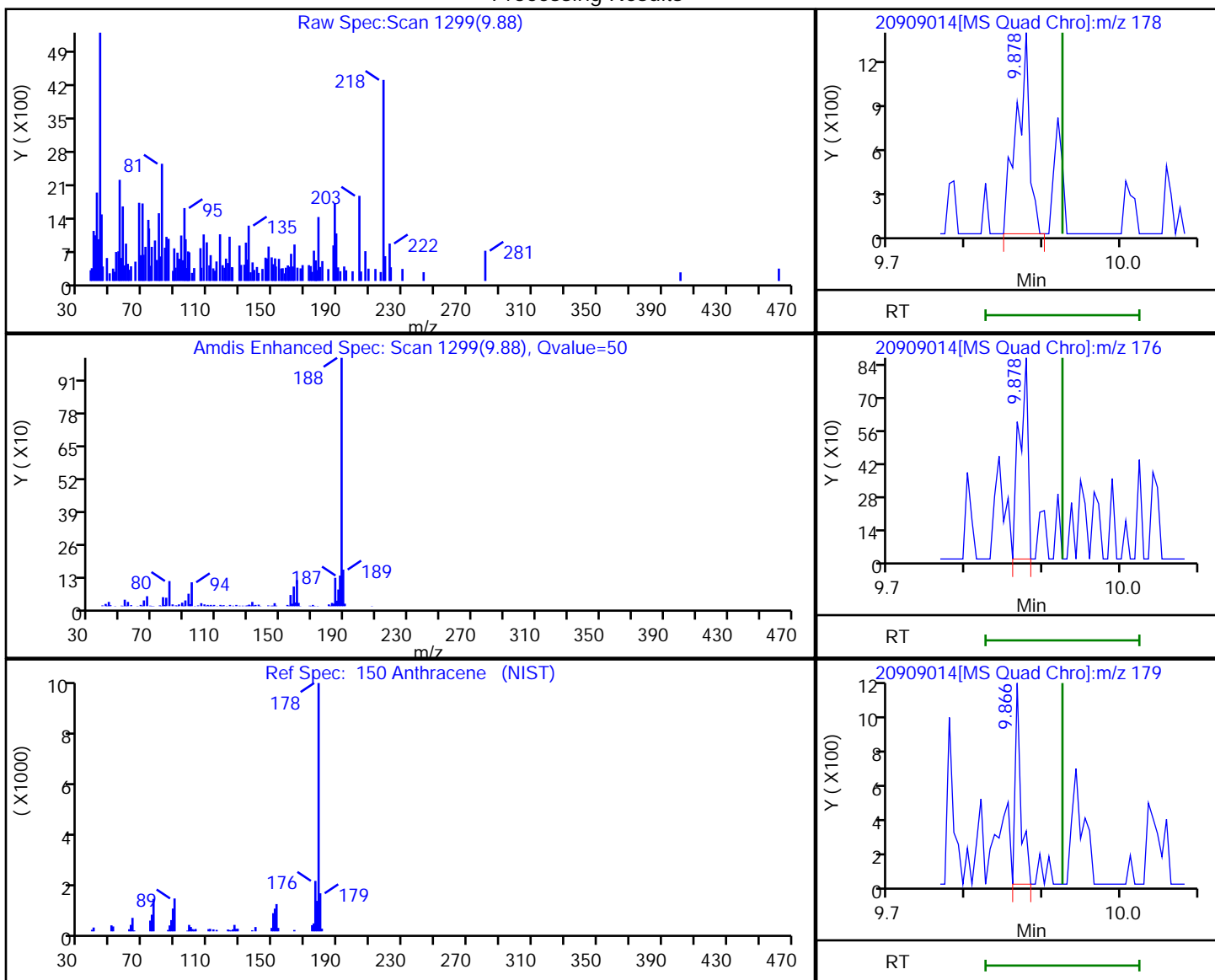
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	5.62	56.22
\$ 8 Phenol-d5	10.0	6.87	68.70
\$ 9 Nitrobenzene-d5	10.0	7.10	71.03
\$ 10 2-Fluorobiphenyl (Surr)	10.0	6.86	68.58
\$ 11 2,4,6-Tribromophenol	10.0	3.55	35.47
\$ 12 Terphenyl-d14	10.0	8.43	84.32

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909014.D
 Injection Date: 09-Sep-2022 16:22:41 Instrument ID: A4AG3
 Lims ID: 500-221506-F-5-A Lab Sample ID: 240-221506-5
 Client ID: B-5 (8'-10')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 μ m) Detector: MS SCAN

150 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
9.88	178.00	1560	0.013158
9.88	176.00	677	
9.87	179.00	580	

Reviewer: KDZ4, 12-Sep-2022 13:14:52

Audit Action: Marked Compound Undetected

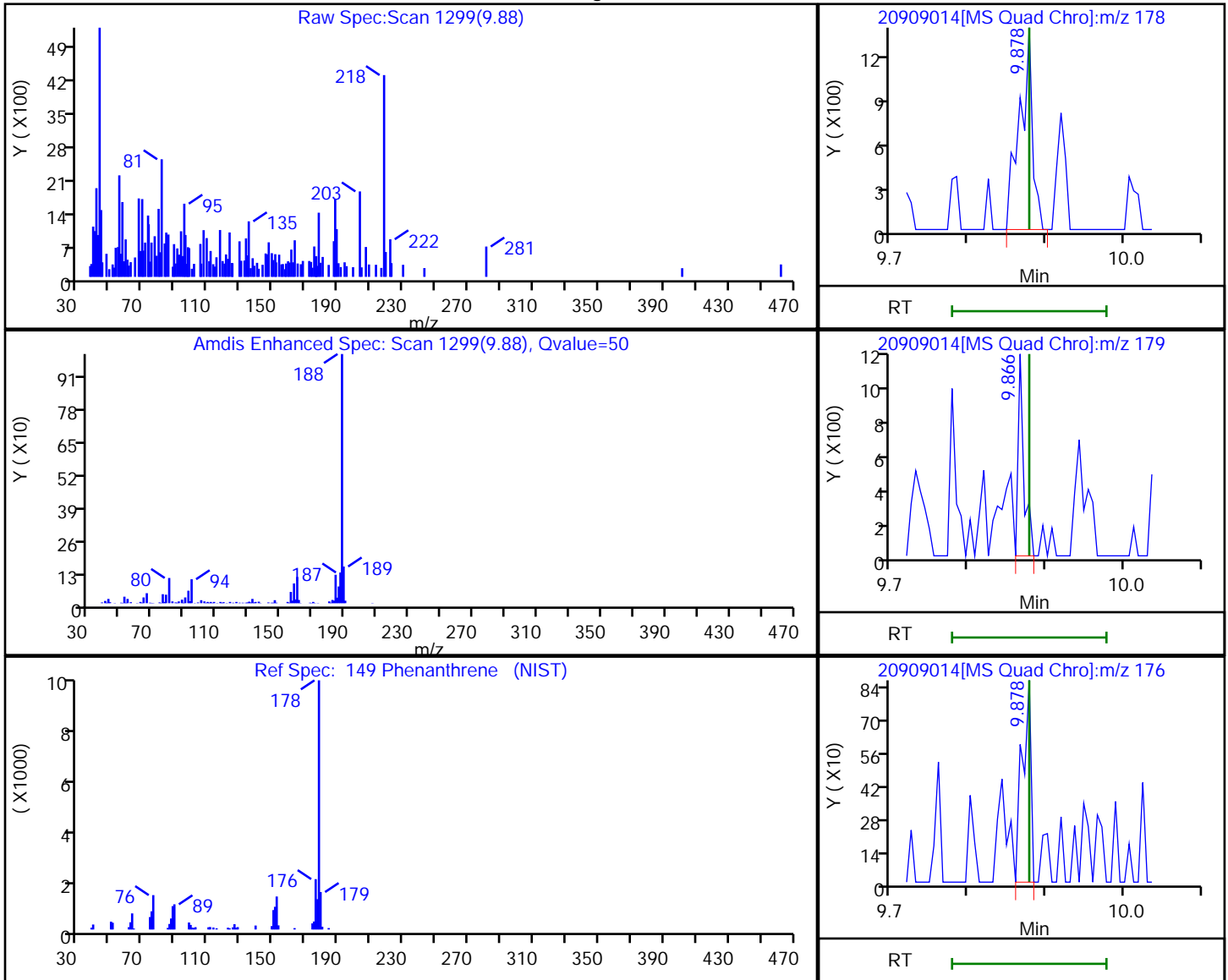
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909014.D
 Injection Date: 09-Sep-2022 16:22:41 Instrument ID: A4AG3
 Lims ID: 500-221506-F-5-A Lab Sample ID: 240-221506-5
 Client ID: B-5 (8'-10')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

149 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
9.88	178.00	1560	0.012798
9.87	179.00	580	
9.88	176.00	677	

Reviewer: KDZ4, 12-Sep-2022 13:14:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-6 (30'-32') Lab Sample ID: 500-221506-6
 Matrix: Solid Lab File ID: 20909012.D
 Analysis Method: 8270E Date Collected: 08/29/2022 15:33
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30.38(g) Date Analyzed: 09/09/2022 15:38
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 17.2 % Solids: 82.8 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.018		0.018	
208-96-8	Acenaphthylene	<0.018		0.018	
120-12-7	Anthracene	<0.018		0.018	
56-55-3	Benzo[a]anthracene	<0.018		0.018	
50-32-8	Benzo[a]pyrene	<0.018		0.018	
205-99-2	Benzo[b]fluoranthene	<0.018		0.018	
191-24-2	Benzo[g,h,i]perylene	<0.018		0.018	
207-08-9	Benzo[k]fluoranthene	<0.018		0.018	
218-01-9	Chrysene	<0.018		0.018	
53-70-3	Dibenz(a,h)anthracene	<0.018		0.018	
206-44-0	Fluoranthene	<0.018		0.018	
86-73-7	Fluorene	<0.018		0.018	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.018		0.018	
91-20-3	Naphthalene	<0.018		0.018	
85-01-8	Phenanthrene	<0.018		0.018	
129-00-0	Pyrene	<0.018		0.018	
90-12-0	1-Methylnaphthalene	<0.018		0.018	
91-57-6	2-Methylnaphthalene	<0.018		0.018	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	82		46-137
4165-62-2	Phenol-d5 (Surr)	53		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	52		25-120
367-12-4	2-Fluorophenol (Surr)	47		20-120
321-60-8	2-Fluorobiphenyl (Surr)	56		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	37		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909012.D
 Lims ID: 500-221506-F-6-A
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 15:38:17 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-012
 Misc. Info.: 500-221506-F-6-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	96	165234	4.00	
* 2 Naphthalene-d8	136	7.113	7.119	-0.006	100	631880	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	89	415751	4.00	
* 4 Phenanthrene-d10	188	9.860	9.860	0.000	97	660834	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	600006	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	97	625531	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	93	233640	4.75	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	75	324301	5.33	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	90	307967	5.24	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	99	716899	5.62	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	89	60889	3.73	
\$ 12 Terphenyl-d14	244	11.207	11.207	0.000	98	1192615	8.23	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	
186 Benzo[k]fluoranthene	252		13.948				ND	
187 Benzo[a]pyrene	252		14.407				ND	U
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909012.D

Injection Date: 09-Sep-2022 15:38:17

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-6-A

Lab Sample ID: 240-221506-6

Worklist Smp#: 12

Client ID: B-6 (30'-32')

Injection Vol: 1.0 ul

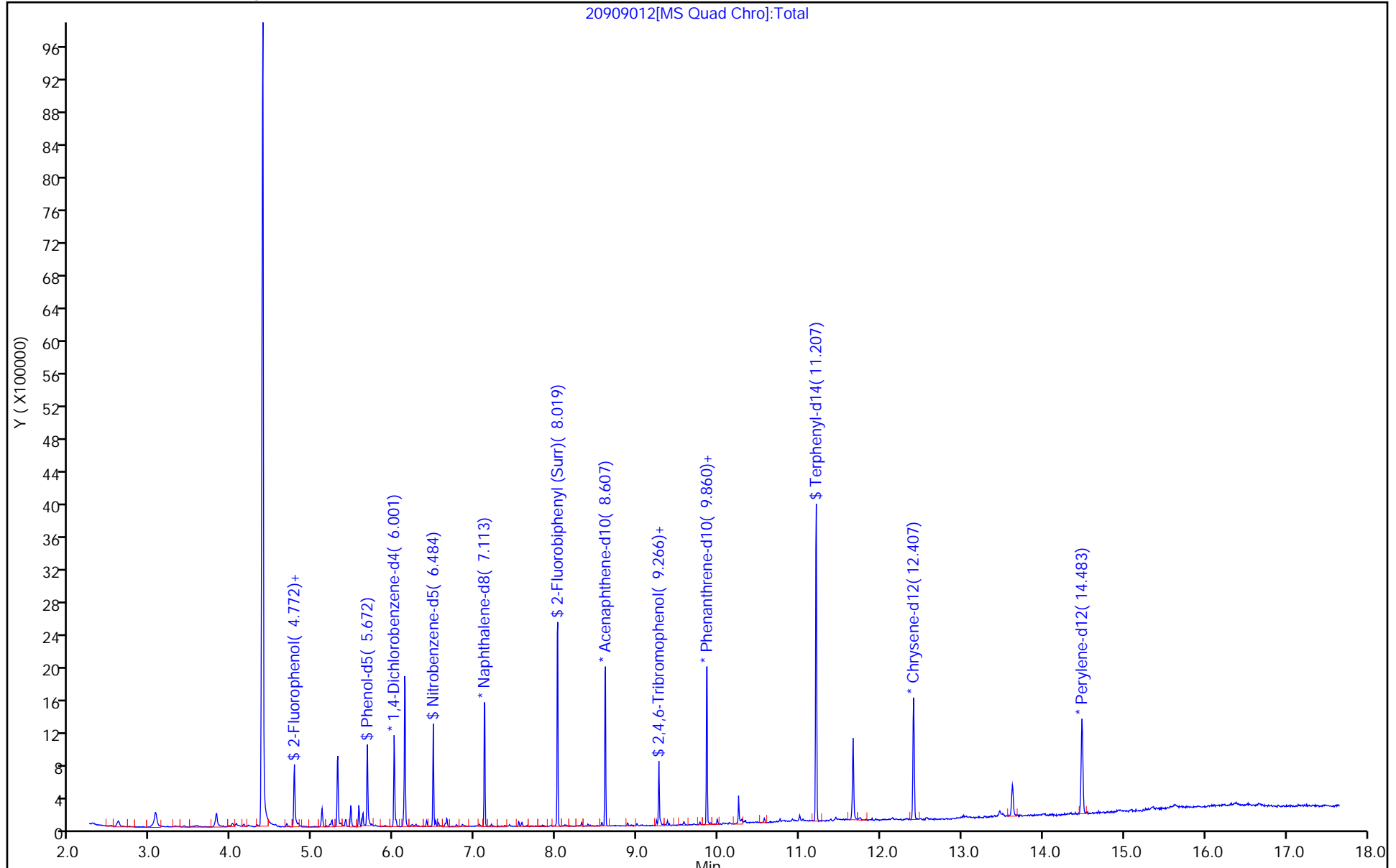
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909012.D
 Lims ID: 500-221506-F-6-A
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 15:38:17 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-012
 Misc. Info.: 500-221506-F-6-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:15

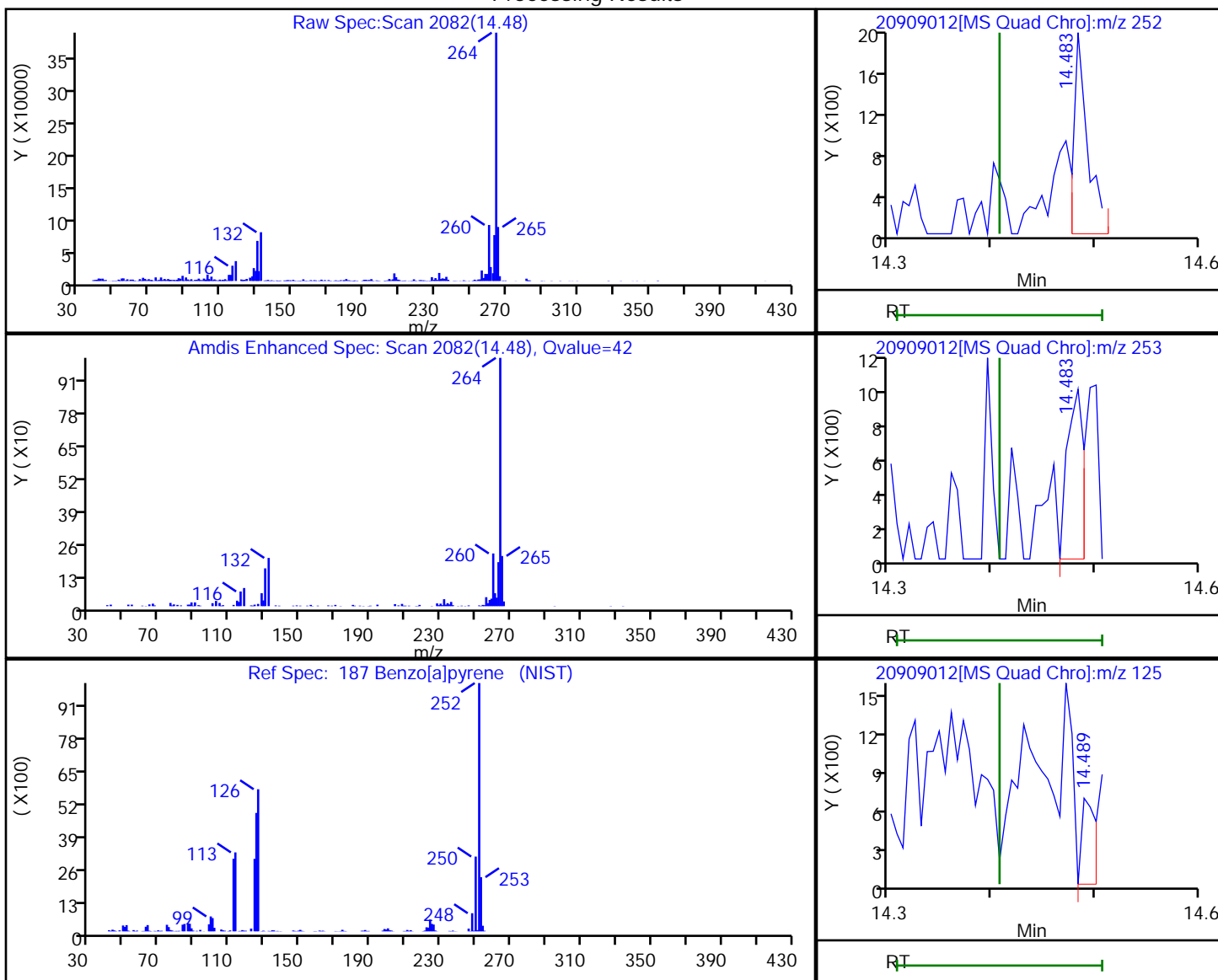
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	4.75	47.46
\$ 8 Phenol-d5	10.0	5.33	53.30
\$ 9 Nitrobenzene-d5	10.0	5.24	52.38
\$ 10 2-Fluorobiphenyl (Surr)	10.0	5.62	56.20
\$ 11 2,4,6-Tribromophenol	10.0	3.73	37.26
\$ 12 Terphenyl-d14	10.0	8.23	82.30

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909012.D
 Injection Date: 09-Sep-2022 15:38:17 Instrument ID: A4AG3
 Lims ID: 500-221506-F-6-A Lab Sample ID: 240-221506-6
 Client ID: B-6 (30'-32')
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

187 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.48	252.00	1786	0.009984
14.48	253.00	1061	
14.49	125.00	619	

Reviewer: KDZ4, 12-Sep-2022 13:14:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Dup-1 Lab Sample ID: 500-221506-8
 Matrix: Solid Lab File ID: 20909013.D
 Analysis Method: 8270E Date Collected: 08/29/2022 00:00
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30.07(g) Date Analyzed: 09/09/2022 16:00
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 19.4 % Solids: 80.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.019		0.019	
208-96-8	Acenaphthylene	<0.019		0.019	
120-12-7	Anthracene	<0.019		0.019	
56-55-3	Benzo[a]anthracene	<0.019		0.019	
50-32-8	Benzo[a]pyrene	<0.019		0.019	
205-99-2	Benzo[b]fluoranthene	<0.019		0.019	
191-24-2	Benzo[g,h,i]perylene	<0.019		0.019	
207-08-9	Benzo[k]fluoranthene	<0.019		0.019	
218-01-9	Chrysene	<0.019		0.019	
53-70-3	Dibenz(a,h)anthracene	<0.019		0.019	
206-44-0	Fluoranthene	<0.019		0.019	
86-73-7	Fluorene	<0.019		0.019	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.019		0.019	
91-20-3	Naphthalene	<0.019		0.019	
85-01-8	Phenanthrene	<0.019		0.019	
129-00-0	Pyrene	<0.019		0.019	
90-12-0	1-Methylnaphthalene	<0.019		0.019	
91-57-6	2-Methylnaphthalene	<0.019		0.019	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	104		46-137
4165-62-2	Phenol-d5 (Surr)	78		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	91		25-120
367-12-4	2-Fluorophenol (Surr)	83		20-120
321-60-8	2-Fluorobiphenyl (Surr)	90		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	87		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Lims ID: 500-221506-F-8-A
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 09-Sep-2022 16:00:31 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-013
 Misc. Info.: 500-221506-F-8-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	96	127242	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	100	428546	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	91	271905	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	97	455676	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	389510	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	98	411806	4.00	
\$ 7 2-Fluorophenol	112	4.778	4.754	0.024	93	314916	8.31	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	74	367278	7.84	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	91	363112	9.11	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	747380	8.96	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	89	93496	8.75	
\$ 12 Terphenyl-d14	244	11.207	11.207	0.000	98	978669	10.4	
69 Naphthalene	128		7.137				ND	
82 2-Methylnaphthalene	142		7.719				ND	
83 1-Methylnaphthalene	142		7.807				ND	
105 Acenaphthylene	152		8.490				ND	
109 Acenaphthene	153		8.637				ND	
126 Fluorene	166		9.066				ND	
149 Phenanthrene	178		9.878				ND	U
150 Anthracene	178		9.925				ND	
160 Fluoranthene	202		10.889				ND	
163 Pyrene	202		11.101				ND	U
179 Benzo[a]anthracene	228		12.401				ND	
180 Chrysene	228		12.448				ND	
185 Benzo[b]fluoranthene	252		13.907				ND	
186 Benzo[k]fluoranthene	252		13.948				ND	U
187 Benzo[a]pyrene	252		14.407				ND	U
191 Indeno[1,2,3-cd]pyrene	276		16.148				ND	
192 Dibenz(a,h)anthracene	278		16.172				ND	
193 Benzo[g,h,i]perylene	276		16.607				ND	

[QC Flag Legend](#)

Processing Flags

Review Flags

U - Marked Undetected

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D

Injection Date: 09-Sep-2022 16:00:31

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-8-A

Lab Sample ID: 240-221506-8

Worklist Smp#: 13

Client ID: Dup-1

Injection Vol: 1.0 ul

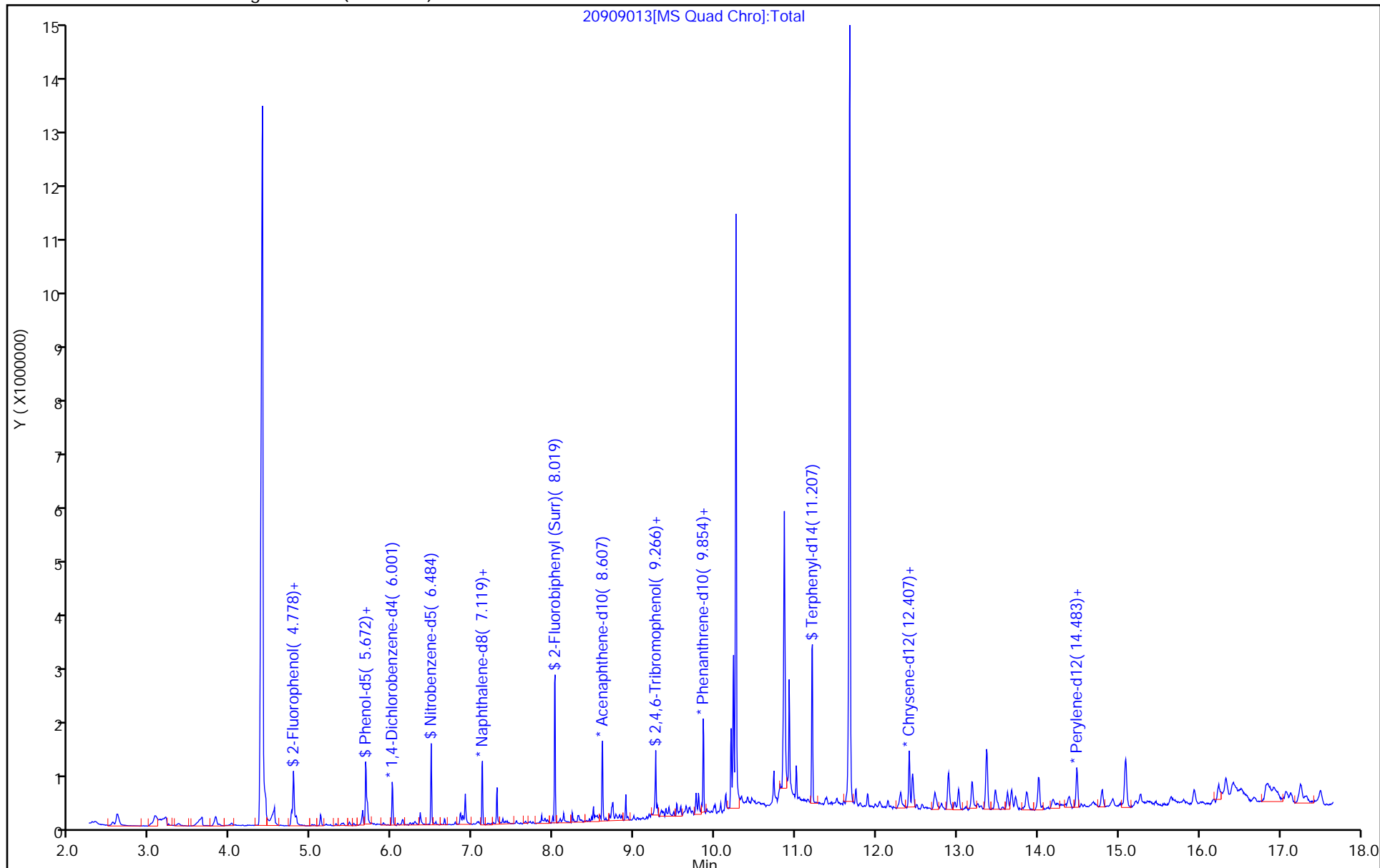
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Lims ID: 500-221506-F-8-A
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 09-Sep-2022 16:00:31 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-013
 Misc. Info.: 500-221506-F-8-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:14:38

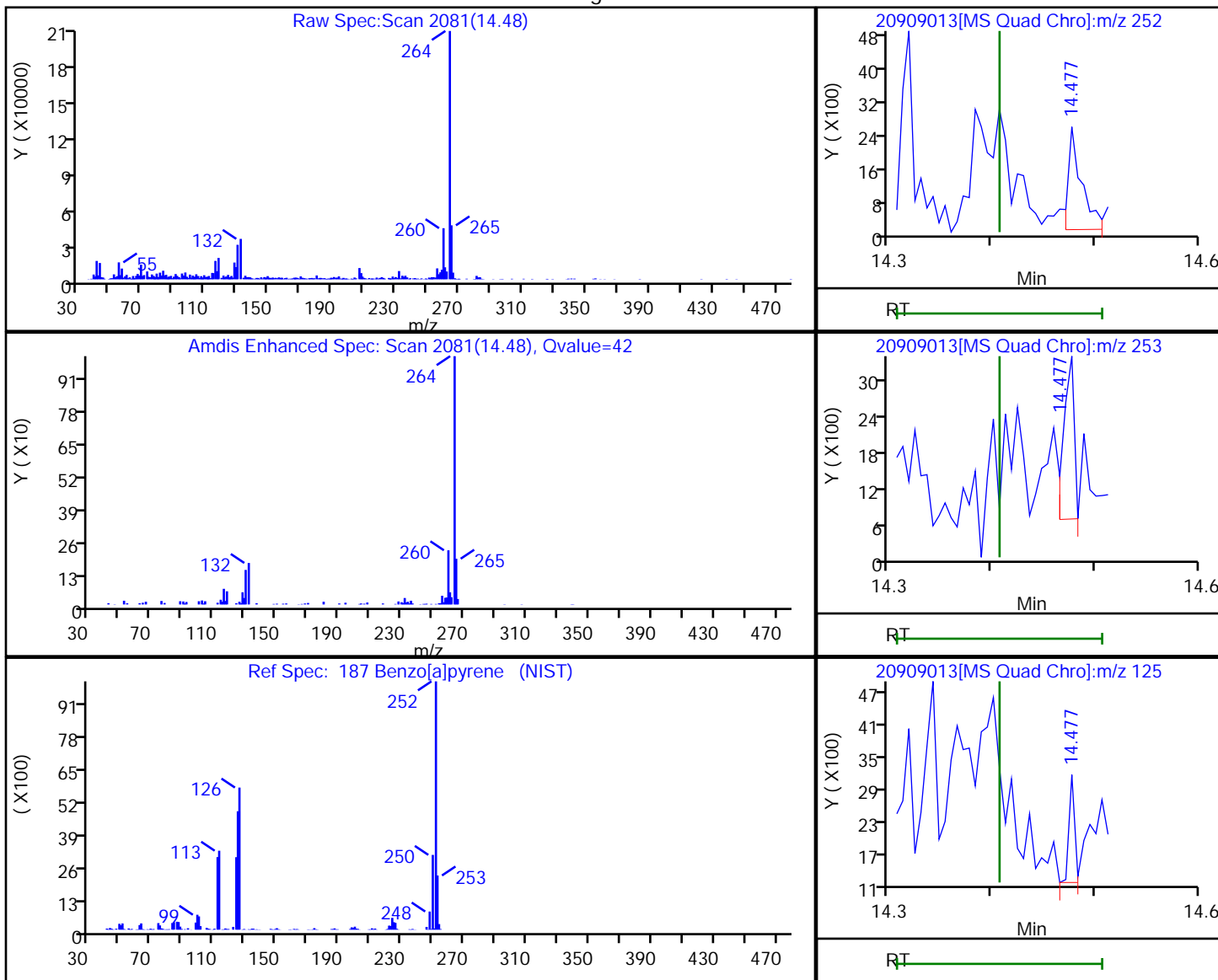
Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	8.31	83.06
\$ 8 Phenol-d5	10.0	7.84	78.38
\$ 9 Nitrobenzene-d5	10.0	9.11	91.06
\$ 10 2-Fluorobiphenyl (Surr)	10.0	8.96	89.58
\$ 11 2,4,6-Tribromophenol	10.0	8.75	87.49
\$ 12 Terphenyl-d14	10.0	10.4	104.04

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Injection Date: 09-Sep-2022 16:00:31 Instrument ID: A4AG3 Worklist Smp#: 13
 Lims ID: 500-221506-F-8-A Lab Sample ID: 240-221506-8
 Client ID: Dup-1
 Operator ID: ALS Bottle#: 0
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

187 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.48	252.00	2246	0.019071
14.48	253.00	1895	
14.48	125.00	748	

Reviewer: KDZ4, 12-Sep-2022 13:14:34

Audit Action: Marked Compound Undetected

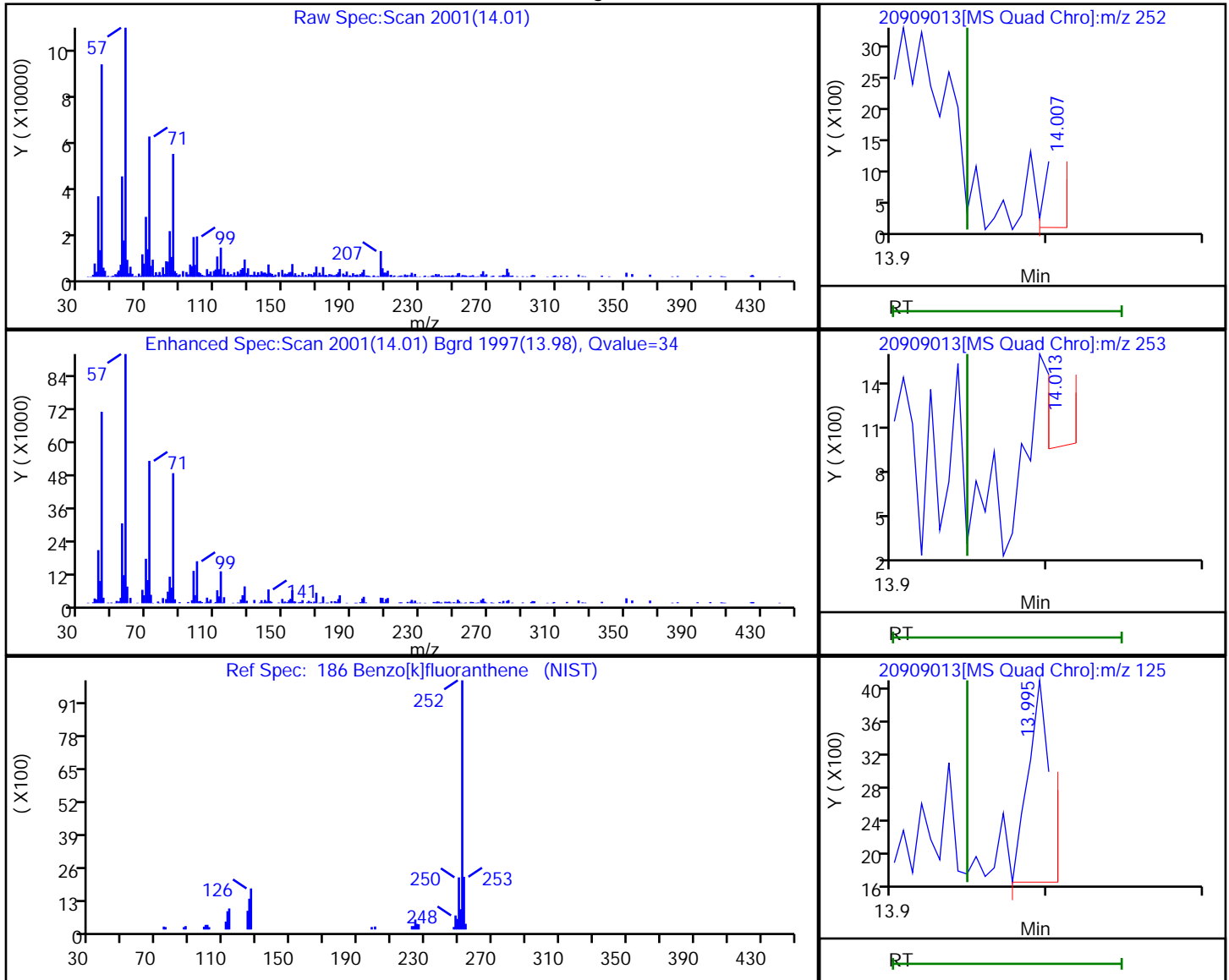
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Injection Date: 09-Sep-2022 16:00:31 Instrument ID: A4AG3
 Lims ID: 500-221506-F-8-A Lab Sample ID: 240-221506-8
 Client ID: Dup-1
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

186 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
14.01	252.00	1083	0.008103
14.01	253.00	747	
13.99	125.00	2664	

Reviewer: KDZ4, 12-Sep-2022 13:14:32

Audit Action: Marked Compound Undetected

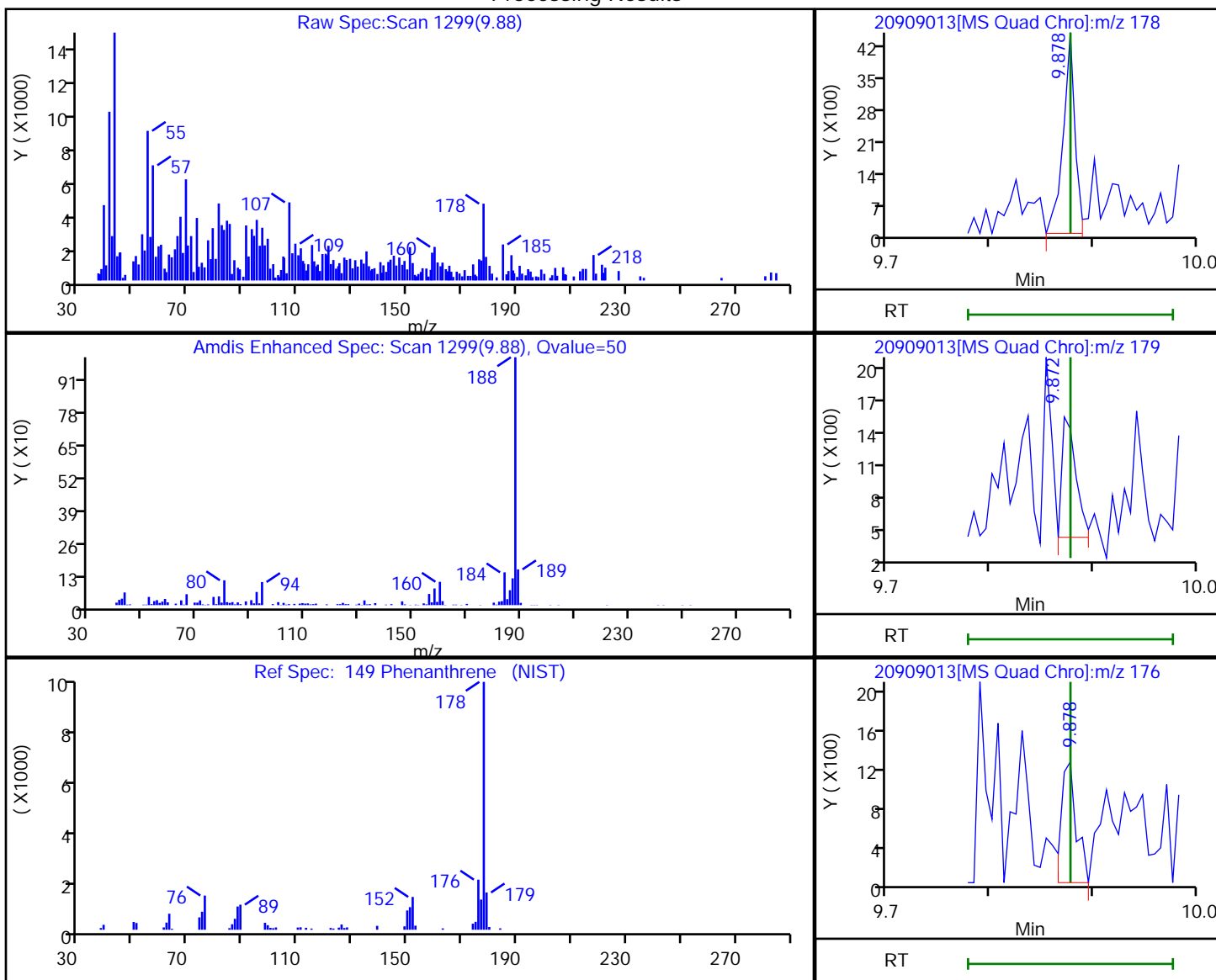
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Injection Date: 09-Sep-2022 16:00:31 Instrument ID: A4AG3
 Lims ID: 500-221506-F-8-A Lab Sample ID: 240-221506-8
 Client ID: Dup-1
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

149 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
9.88	178.00	3610	0.031164
9.87	179.00	1025	
9.88	176.00	1246	

Reviewer: KDZ4, 12-Sep-2022 13:14:27

Audit Action: Marked Compound Undetected

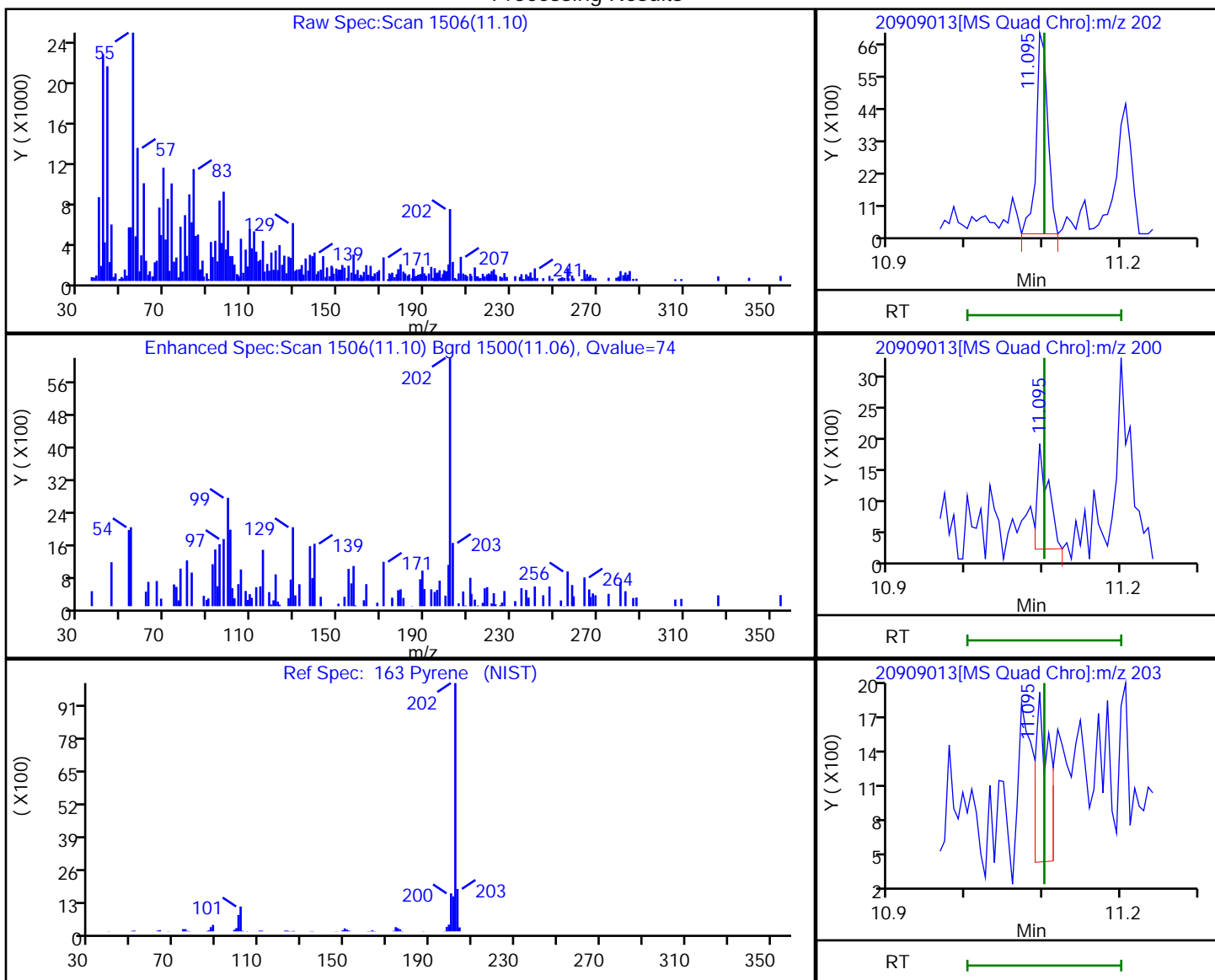
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909013.D
 Injection Date: 09-Sep-2022 16:00:31 Instrument ID: A4AG3
 Lims ID: 500-221506-F-8-A Lab Sample ID: 240-221506-8
 Client ID: Dup-1
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

163 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.10	202.00	7192	0.057687
11.10	200.00	1676	
11.10	203.00	1664	

Reviewer: KDZ4, 12-Sep-2022 13:14:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-539537/6	20819006.D
Level 2	STD2 240-539537/5	20819005.D
Level 3	STD3 240-539537/4	20819004.D
Level 4	STD4 240-539537/3	20819003.D
Level 5	STD5 240-539537/2	20819002.D
Level 6	STD6 240-539537/7	20819007.D
Level 7	STD7 240-539537/8	20819008.D
Level 8	STD8 240-539537/9	20819009.D
Level 9	STD9 240-539537/10	20819010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
1,4-Dioxane	0.5483	0.4734 0.5342	0.5318 0.5499	0.5428 0.5250	0.5447	Ave	0.531 3			4.7	20.0						
N-Nitrosodimethylamine	0.7257	0.6343 0.7302	0.7068 0.7093	0.6776 0.7081	0.7457	Ave	0.704 7			4.9	20.0						
Pyridine	1.3068 1.2113	1.1423 1.2350	1.1612 1.2239	1.2101 1.2157	1.2502	Ave	1.217 4			3.9	20.0						
Benzaldehyde	1.3222 1.0340	1.0942 1.0296	1.1137 0.9694	1.0779 0.9200	1.1138	Ave	1.075 0		0.0100	10.6	20.0						
Phenol	1.6171	1.5384 1.6292	1.6553 1.5559	1.6491 1.5926	1.6522	Ave	1.611 2		0.8000	2.8	20.0						
Aniline	1.9556	1.8485 1.9271	1.9029 1.8834	1.8974 1.8643	1.9726	Ave	1.906 5			2.3	20.0						
Bis(2-chloroethyl)ether	1.3011	1.3504 1.2781	1.3598 1.2583	1.3137 1.2420	1.3299	Ave	1.304 2		0.7000	3.3	20.0						
2-Chlorophenol	1.2941	1.2591 1.3194	1.2905 1.2646	1.3203 1.2746	1.3506	Ave	1.296 6		0.8000	2.4	20.0						
n-Decane	1.2669	1.2859 1.2595	1.2966 1.2152	1.2853 1.1798	1.3121	Ave	1.262 7			3.5	20.0						
1,3-Dichlorobenzene	1.4595	1.4530 1.4367	1.5073 1.3788	1.4494 1.3967	1.4732	Ave	1.444 3			2.8	20.0						
1,4-Dichlorobenzene	1.4426	1.4661 1.4516	1.4513 1.4217	1.4298 1.3746	1.5335	Ave	1.446 4			3.1	20.0						
Benzyl alcohol	0.8662	0.7924 0.8661	0.8298 0.8483	0.8308 0.8261	0.8670	Ave	0.840 8			3.1	20.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
1,2-Dichlorobenzene	1.3667	1.3534 1.3812	1.4430 1.3305	1.3729 1.3238	1.3672	Ave	1.367 3			2.7	20.0						
2-Methylphenol	1.1920	1.1430 1.2150	1.2167 1.1783	1.2012 1.1435	1.2293	Ave	1.189 9		0.7000	2.8	20.0						
2,2'-oxybis[1-chloropropane]	1.2616	1.2831 1.2424	1.3152 1.2028	1.2618 1.1576	1.3140	Ave	1.254 8			4.3	20.0						
Indene	2.2226	2.2310 2.2515	2.2993 2.2025	2.2359 2.1082	2.3293	Ave	2.235 0			3.0	20.0						
3 & 4 Methylphenol	1.2608	1.2433 1.2569	1.2638 1.2090	1.2334 1.2214	1.2776	Ave	1.245 8			1.9	20.0						
N-Nitrosodi-n-propylamine	0.8682	0.7569 0.8621	0.8194 0.8213	0.8187 0.7925	0.8332	Ave	0.821 5		0.5000	4.4	20.0						
Acetophenone	1.8137	1.8336 1.7962	1.8606 1.7451	1.7843 1.6579	1.8642	Ave	1.794 4		0.0100	3.8	20.0						
Hexachloroethane	0.5809	0.5109 0.5699	0.5572 0.5493	0.5605 0.5436	0.5711	Ave	0.555 4		0.3000	3.9	20.0						
Nitrobenzene	0.3778	0.3475 0.3675	0.3555 0.3641	0.3544 0.3508	0.3887	Ave	0.363 3		0.2000	3.9	20.0						
Isophorone	0.6836	0.6639 0.6889	0.6964 0.6753	0.6763 0.6764	0.7284	Ave	0.686 1		0.4000	2.9	20.0						
2-Nitrophenol	0.1833	0.1428 0.1871	0.1559 0.1865	0.1653 0.1872	0.1843	Ave	0.174 0		0.1000	9.9	20.0						
2,4-Dimethylphenol	0.3747	0.3652 0.3662	0.3792 0.3564	0.3681 0.3578	0.3867	Ave	0.369 3		0.2000	2.8	20.0						
Benzoic acid	0.1900	+++++ 0.2245	0.1055 0.2520	0.1470 0.2511	0.1738	Qua	-0.25 5	0.189 9	0.0014250				0.9970		0.9900		
Bis(2-chloroethoxy)methane	0.4068	0.4157 0.3993	0.4230 0.3920	0.4083 0.3817	0.4209	Ave	0.406 0		0.3000	3.5	20.0						
2,4-Dichlorophenol	0.2955	0.2764 0.2911	0.2905 0.2935	0.2901 0.2879	0.3069	Ave	0.291 5		0.2000	2.9	20.0						
1,2,4-Trichlorobenzene	0.3161	0.3283 0.3146	0.3340 0.3095	0.3131 0.3071	0.3287	Ave	0.318 9			3.1	20.0						
Naphthalene	0.9873	1.2449 0.9873	0.9877 0.9629	1.0278 0.9695	0.9633 0.9440	1.0383	Ave	1.014 0		0.7000	9.1	20.0					
4-Chloroaniline	0.4258	0.3694 0.4130	0.4212 0.4141	0.4108 0.4036	0.4257	Ave	0.410 5		0.0100	4.5	20.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2,6-Dichlorophenol	0.2922	0.2795 0.2800	0.2910 0.2876	0.2873 0.2803	0.3006	Ave	0.287 3			2.6	20.0						
Hexachlorobutadiene	0.1969	0.2110 0.1967	0.2076 0.1950	0.2011 0.1917	0.2050	Ave	0.200 6		0.0100	3.3	20.0						
Caprolactam	0.1059 0.1054	0.0915 0.1060	0.1084 0.1062	0.1005 0.1037	0.1110	Ave	0.104 3		0.0100	5.4	20.0						
4-Chloro-3-methylphenol	0.3158	0.2929 0.3139	0.3143 0.3120	0.3001 0.3047	0.3258	Ave	0.309 9		0.2000	3.3	20.0						
2-Methylnaphthalene	0.7843 0.7000	0.6907 0.7053	0.7100 0.7010	0.6948 0.6765	0.7270	Ave	0.710 0		0.4000	4.4	20.0						
1-Methylnaphthalene	0.7498 0.6360	0.6365 0.6260	0.6658 0.6318	0.6411 0.6232	0.6618	Ave	0.652 4			6.0	20.0						
Hexachlorocyclopentadiene	0.3507	0.2888 0.3462	0.3225 0.3722	0.3207 0.3576	0.3644	Ave	0.340 4		0.0500	8.2	20.0						
1,2,4,5-Tetrachlorobenzene	0.5666	0.5765 0.5455	0.5747 0.5702	0.5620 0.5422	0.5989	Ave	0.567 1		0.0100	3.2	20.0						
2,4,6-Trichlorophenol	0.3869	0.3346 0.3781	0.3856 0.3826	0.3594 0.3798	0.3933	Ave	0.375 0		0.2000	5.1	20.0						
2,4,5-Trichlorophenol	0.4016	0.3427 0.3947	0.3930 0.4028	0.3711 0.3941	0.4164	Ave	0.389 5		0.2000	5.9	20.0						
1,1'-Biphenyl	1.6767 1.3689	1.4141 1.3438	1.4308 1.3992	1.3717 1.3539	1.4196	Ave	1.419 9		0.0100	7.1	20.0						
2-Chloronaphthalene	1.2365 1.0741	1.0846 1.0405	1.0987 1.0774	1.0528 1.0371	1.1358	Ave	1.093 1		0.8000	5.7	20.0						
2-Nitroaniline	0.3182	0.2243 0.3198	0.2590 0.3196	0.2793 0.3168	0.3221	Lin1	-0.05 5	0.321 9	0.0100			1.0000		0.9900			
Dimethyl phthalate	1.2344	1.2100 1.1848	1.3158 1.1871	1.2388 1.1740	1.3085	Ave	1.231 7		0.0100	4.4	20.0						
1,3-Dinitrobenzene	0.1980	0.1150 0.1971	0.1429 0.2054	0.1575 0.2007	0.1980	Lin1	-0.05 5	0.203 9				0.9990		0.9900			
2,6-Dinitrotoluene	0.2880	0.2099 0.2857	0.2529 0.2973	0.2664 0.2873	0.2955	Lin1	-0.04 0	0.292 8				1.0000		0.9900			
Acenaphthylene	1.8209 1.6939	1.6277 1.6740	1.7148 1.7666	1.6451 1.6863	1.8014	Ave	1.714 5		0.9000	4.0	20.0						
3-Nitroaniline	0.1934	++++ 0.1855	0.2723 0.1956	0.2640 0.1875	0.2655	Ave	0.223 4		0.0100	18.5	20.0						

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2,4-Dinitrophenol	0.1741	++++ 0.1815	0.1096 0.1956	0.1321 0.1891	0.1758	Lin1	-0.19 6	0.192 9		0.0100				0.9990		0.9900	
Acenaphthene	1.1738 1.0491	1.0543 1.0252	1.1062 1.0601	1.0311 1.0239	1.0984	Ave		1.069 2		0.9000	4.6	20.0					
4-Nitrophenol		0.1476 0.2058	0.1782 0.2141	0.1849 0.2082	0.2031	Ave		0.193 8			11.6	20.0					
2,4-Dinitrotoluene	0.3663	0.2640 0.3674	0.3174 0.3844	0.3466 0.3782	0.3888	Lin1	-0.05 8	0.380 5		0.2000				0.9990		0.9900	
Dibenzofuran	1.8221 1.5489	1.5621 1.5406	1.5814 1.5719	1.5112 1.4715	1.5968	Ave		1.578 5		0.8000	6.3	20.0					
2,3,4,6-Tetrachlorophenol	0.3152	0.2839 0.3094	0.3140 0.3282	0.3011 0.3177	0.3311	Ave		0.312 6		0.0100	4.8	20.0					
Diethyl phthalate	1.1447	1.1848 1.1442	1.2823 1.1923	1.2606 1.1766	1.2741	Ave		1.207 5		0.0100	4.7	20.0					
4-Chlorophenyl phenyl ether	0.6388	0.6688 0.6366	0.6408 0.6503	0.6303 0.6169	0.6654	Ave		0.643 5		0.4000	2.7	20.0					
4-Nitroaniline	0.2282	0.2281 0.2187	0.2554 0.2258	0.2114 ++++	0.2346	Ave		0.228 9		0.0100	6.1	20.0					
Fluorene	1.4061 1.2517	1.2267 1.2169	1.2815 1.2452	1.2341 1.2086	1.2873	Ave		1.262 0		0.9000	4.8	20.0					
4,6-Dinitro-2-methylphenol	0.1300	++++ 0.1323	0.0921 0.1309	0.1041 0.1303	0.1204	Lin1	-0.09 5	0.133 3		0.0100				1.0000		0.9900	
Diphenylamine	0.6095	0.5855 0.5703	0.6209 0.5715	0.6019 0.5448	0.6626	Ave		0.595 9			6.1	20.0					
N-Nitrosodiphenylamine	0.5181	0.4976 0.4848	0.5278 0.4858	0.5116 0.4631	0.5632	Ave		0.506 5		0.0100	6.1	20.0					
Azobenzene	0.7181	0.6493 0.7065	0.6876 0.6575	0.7061 0.6284	0.7682	Ave		0.690 2			6.5	20.0					
4-Bromophenyl phenyl ether	0.2105	0.2035 0.2005	0.2056 0.1932	0.2063 0.1865	0.2141	Ave		0.202 5		0.1000	4.5	20.0					
Hexachlorobenzene	0.2231 0.2217	0.2099 0.2171	0.2291 0.2054	0.2153 0.1959	0.2342	Ave		0.216 9		0.1000	5.5	20.0					
Atrazine	0.2311 0.2132	0.1817 0.2057	0.2004 0.1960	0.1958 0.1908	0.2155	Ave		0.203 4		0.0100	7.3	20.0					
n-Octadecane	0.3689	0.3480 0.3535	0.3850 0.3316	0.3722 0.3184	0.4164	Ave		0.361 8			8.6	20.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Pentachlorophenol	0.1413	0.1002 0.1428	0.1233 0.1443	0.1293 0.1419	0.1446	Lin1	-0.04 3	0.144 2		0.0500				1.0000		0.9900	
Phenanthrene	1.2132 0.9880	0.9915 0.9955	1.0172 0.9555	0.9976 0.9531	1.0403	Ave		1.016 9		0.7000	7.7	20.0					
Anthracene	1.0456 0.9784	0.9360 0.9828	1.0073 0.9764	0.9919 0.9466	1.0360	Ave		0.989 0		0.7000	3.7	20.0					
Carbazole	0.6899	0.8801 0.5723	0.9116 0.5213	0.8174 0.4686	0.8098	Qua	0.200 6	0.771 3	-0.012673	0.0100				0.9980		0.9900	
Di-n-butyl phthalate	1.2130	0.9784 1.2337	1.0195 1.1709	1.0512 1.1403	1.2179	Ave		1.128 1		0.0100	8.8	20.0					
Fluoranthene	1.2331 1.1656	1.0324 1.1764	1.0670 1.1256	1.0475 1.0940	1.1571	Ave		1.122 1		0.6000	6.0	20.0					
Benzidine	0.1476	0.0927 0.2025	0.1119 0.2253	0.1316 +++++	0.1312	Qua	0.034 2	0.090 0	0.0034158					0.9980		0.9900	
Pyrene	1.4692 1.2995	1.1951 1.2717	1.2747 1.2752	1.2153 1.2453	1.2766	Ave		1.280 3		0.6000	6.1	20.0					
Butyl benzyl phthalate	0.5479	0.4177 0.5609	0.5197 0.5620	0.5238 0.5619	0.5966	Ave		0.536 3		0.0100	10.0	20.0					
Bis(2-ethylhexyl) phthalate	0.8024	0.5731 0.8129	0.7089 0.8273	0.7466 0.8213	0.8079	Ave		0.762 5		0.0100	11.4	20.0					
3,3'-Dichlorobenzidine	0.1738	0.1914 0.1655	0.2237 0.1736	0.2185 0.1807	0.2130	Ave		0.192 5		0.0100	11.8	20.0					
Benzo[a]anthracene	1.3272 1.1794	1.1571 1.1802	1.2265 1.1736	1.1880 1.1519	1.2131	Ave		1.199 7		0.8000	4.5	20.0					
Chrysene	1.3841 1.1558	1.1503 1.1385	1.2238 1.1454	1.1694 1.1313	1.1684	Ave		1.185 2		0.7000	6.7	20.0					
Di-n-octyl phthalate	1.4568	0.9086 1.4823	1.1157 1.4662	1.2622 1.4967	1.4409	Lin1	-0.34 2	1.497 8		0.0100				1.0000		0.9900	
Benzo[b]fluoranthene	1.2147 1.2315	1.0512 1.2684	1.2110 1.2257	1.1673 1.2341	1.2139	Ave		1.202 0		0.7000	5.2	20.0					
Benzo[k]fluoranthene	1.3444 1.3353	1.2524 1.3130	1.3007 1.2899	1.2886 1.2578	1.3023	Ave		1.298 3		0.7000	2.4	20.0					
Benzo[a]pyrene	1.0827 1.2210	0.9642 1.2130	1.0962 1.2065	1.1294 1.1965	1.1860	Ave		1.143 9		0.7000	7.4	20.0					
Indeno[1,2,3-cd]pyrene	1.0157 1.2297	0.9806 1.2523	1.1415 1.2211	1.1109 1.2162	1.1981	Ave		1.151 8		0.5000	8.5	20.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dibenz(a,h)anthracene	0.8991 1.0544	0.8628 1.0732	0.9544 1.0505	0.9949 1.0560	1.0312	Ave	0.997 4			0.4000	7.6		20.0				
Benzo[g,h,i]perylene	1.1057 1.0853	0.9188 1.1012	1.0422 1.0623	1.0213 1.0726	1.0777	Ave	1.054 1			0.5000	5.4		20.0				
2-Fluorophenol (Surr)		1.1147 1.2229	1.2034 1.1669	1.1987 1.1676	1.2431	Ave	1.191 9				3.4		20.0				
Phenol-d5 (Surr)		1.3798 1.5096	1.4936 1.4601	1.4667 1.4537	1.5126	Ave	1.473 0				3.0		20.0				
Nitrobenzene-d5 (Surr)	0.3678 0.3930	0.3281 0.3878	0.3730 0.3854	0.3682 0.3749	0.3717	Ave	0.372 2				5.1		20.0				
2-Fluorobiphenyl (Surr)	1.4160 1.1865	1.2134 1.1468	1.2736 1.2005	1.1978 1.1633	1.2487	Ave	1.227 4				6.6		20.0				
2,4,6-Tribromophenol (Surr)		0.1337 0.1527	0.1663 0.1608	0.1593 0.1604	0.1674	Ave	0.157 2				6.7		20.0				
Terphenyl-d14 (Surr)	1.2369 0.9555	0.9024 0.9310	0.9585 0.9253	0.9207 0.9134	0.9505	Ave	0.966 0				10.7		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-539537/6	20819006.D
Level 2	STD2 240-539537/5	20819005.D
Level 3	STD3 240-539537/4	20819004.D
Level 4	STD4 240-539537/3	20819003.D
Level 5	STD5 240-539537/2	20819002.D
Level 6	STD6 240-539537/7	20819007.D
Level 7	STD7 240-539537/8	20819008.D
Level 8	STD8 240-539537/9	20819009.D
Level 9	STD9 240-539537/10	20819010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCBd 4	Ave		10494	24363	48656	109168		0.500	1.00	2.00	5.00
			234339	345710	467208	547082		10.0	15.0	20.0	25.0	
N-Nitrosodimethylamine	DCBd 4	Ave		14060	32380	60737	149441		0.500	1.00	2.00	5.00
			310163	472570	602643	737886		10.0	15.0	20.0	25.0	
Pyridine	DCBd 4	Ave	11428	50636	106391	216938	501096	0.200	1.00	2.00	4.00	10.0
			1035463	1598551	2079599	2533674		20.0	30.0	40.0	50.0	
Benzaldehyde	DCBd 4	Ave	11562	48504	102042	193251	446439	0.200	1.00	2.00	4.00	10.0
			883915	1332745	1647242	1917411		20.0	30.0	40.0	50.0	
Phenol	DCBd 4	Ave		34098	75832	147819	331108		0.500	1.00	2.00	5.00
			691176	1054426	1321871	1659633		10.0	15.0	20.0	25.0	
Aniline	DCBd 4	Ave		40972	87176	170077	395332		0.500	1.00	2.00	5.00
			835897	1247213	1600070	1942718		10.0	15.0	20.0	25.0	
Bis(2-chloroethyl)ether	DCBd 4	Ave		29931	62296	117756	266517		0.500	1.00	2.00	5.00
			556126	827203	1068999	1294243		10.0	15.0	20.0	25.0	
2-Chlorophenol	DCBd 4	Ave		27908	59119	118346	270674		0.500	1.00	2.00	5.00
			553147	853917	1074397	1328210		10.0	15.0	20.0	25.0	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
n-Decane	DCBd 4	Ave		28502	59402	115215	262952		0.500	1.00	2.00	5.00
			541491	815167	1032395	1229432		10.0	15.0	20.0	25.0	
1,3-Dichlorobenzene	DCBd 4	Ave		32206	69052	129926	295234		0.500	1.00	2.00	5.00
			623842	929807	1171434	1455475		10.0	15.0	20.0	25.0	
1,4-Dichlorobenzene	DCBd 4	Ave		32496	66489	128163	307330		0.500	1.00	2.00	5.00
			616612	939457	1207846	1432416		10.0	15.0	20.0	25.0	
Benzyl alcohol	DCBd 4	Ave		17563	38017	74470	173763		0.500	1.00	2.00	5.00
			370225	560546	720723	860869		10.0	15.0	20.0	25.0	
1,2-Dichlorobenzene	DCBd 4	Ave		29999	66109	123062	274000		0.500	1.00	2.00	5.00
			584162	893911	1130354	1379441		10.0	15.0	20.0	25.0	
2-Methylphenol	DCBd 4	Ave		25334	55740	107670	246362		0.500	1.00	2.00	5.00
			509512	786342	1001028	1191595		10.0	15.0	20.0	25.0	
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave		28440	60251	113102	263336		0.500	1.00	2.00	5.00
			539229	804103	1021911	1206333		10.0	15.0	20.0	25.0	
Indene	DCBd 4	Ave		98901	210669	400853	933612		1.00	2.00	4.00	10.0
			1900036	2914294	3742399	4393833		20.0	30.0	40.0	50.0	
3 & 4 Methylphenol	DCBd 4	Ave		27558	57898	110557	256046		0.500	1.00	2.00	5.00
			538910	813444	1027154	1272758		10.0	15.0	20.0	25.0	
N-Nitrosodi-n-propylamine	DCBd 4	Ave		16776	37540	73387	166986		0.500	1.00	2.00	5.00
			371102	557952	697760	825864		10.0	15.0	20.0	25.0	
Acetophenone	DCBd 4	Ave		40641	85239	159939	373609		0.500	1.00	2.00	5.00
			775244	1162459	1482599	1727640		10.0	15.0	20.0	25.0	
Hexachloroethane	DCBd 4	Ave		11324	25525	50245	114460		0.500	1.00	2.00	5.00
			248274	368817	466693	566508		10.0	15.0	20.0	25.0	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Nitrobenzene	NPT	Ave	590517	28209 881536	59125 1113185	117046 1320917	279499	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1068570	53893 1652692	115813 2064304	223354 2546867	523759	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	286556	11593 448734	25919 570176	54585 704819	132504	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	585775	29646 878518	63062 1089648	121559 1347286	278096	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Qua	593865	+++++ 1077018	35074 1540970	97104 1891345	249969	20.0	+++++	2.00	4.00	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	635856	33742 958005	70348 1198274	134833 1437398	302635	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	461882	22437 698294	48302 897253	95819 1084030	220696	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	494154	26652 754752	55538 946113	103411 1156477	236400	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	19710 1543285	80170 2309990	170926 2963702	318153 3554745	746663	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	665680	29986 990863	70039 1266024	135676 1519825	306140	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dichlorophenol	NPT	Ave	456706	22688 671722	48393 879335	94870 1055464	216163	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	307764	17125 471953	34526 596242	66407 722002	147414	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	3354 329666	14861 508730	36062 649215	66383 780817	159597	0.200 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	493614	23773 752930	52263 953735	99100 1147348	234271	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	12418 1094181	56068 1692001	118068 2142954	229481 2547446	522790	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	11872 994161	51662 1501671	110715 1931433	211730 2346492	475898	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	332192	14126 508302	32099 667689	63937 806006	155561	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	536664	28192 801086	57210 1022801	112021 1222140	255642	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
2,4,6-Trichlorophenol	ANT	Ave	366430	16361 555183	38382 686291	71642 856106	167891	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	380404	16759 579562	39118 722548	73980 888216	177736	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	15985 1296565	69154 1973226	142430 2509723	273444 3051804	605982	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	11788 1017336	53044 1527888	109366 1932455	209873 2337631	484837	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Lin1	301363	10968 469549	25781 573227	55668 714028	137476	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	1169141	59176 1739860	130984 2129325	246943 2646238	558536	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Lin1	187520	5624 289412	14228 368397	31403 452345	84536	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Lin1	272778	10264 419467	25173 533291	53097 647637	126138	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	17360 1604369	79602 2458101	170700 3168774	327935 3801082	768945	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	183193	++++ 272427	27108 350898	52631 422743	113326	10.0	++++ 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Lin1	329741	++++ 533016	21819 701747	52681 852454	150104	20.0	++++ 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	11191 993709	51562 1505514	110118 1901491	205550 2307900	468881	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitrophenol	ANT	Ave	389806	14434 612537	35472 768047	73723 938476	173413	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Lin1	346933	12909 539521	31598 689546	69095 852548	165979	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	1467075	17371 2262345	76395 2819451	157423 3316858	681610	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	298518	13885 454404	31260 588735	60023 716164	141351	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	1084260	57943 1680231	127645 2138606	251283 2652121	543852	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	605048	32706 934807	63786 1166366	125646 1390429	284011	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
4-Nitroaniline	ANT	Ave		11157	25420	42146	100149		0.500	1.00	2.00	5.00
			216153	321102	404931	++++		10.0	15.0	20.0	++++	
Fluorene	ANT	Ave	13405	59993	127561	246011	549497	0.100	0.500	1.00	2.00	5.00
			1185524	1786898	2233564	2724188		10.0	15.0	20.0	25.0	
4,6-Dinitro-2-methylphenol	PHN	Lin1		++++	33878	73689	179274		++++	2.00	4.00	10.0
			424526	667251	858930	1073388		20.0	30.0	40.0	50.0	
Diphenylamine	PHN	Ave		44654	97075	181172	419341		0.425	0.850	1.70	4.25
			845649	1222707	1594469	1907034		8.50	12.8	17.0	21.3	
N-Nitrosodiphenylamine	PHN	Ave		44654	97075	181172	419341		0.500	1.00	2.00	5.00
			845649	1222707	1594469	1907034		10.0	15.0	20.0	25.0	
Azobenzene	PHN	Ave		58266	126486	250020	572006		0.500	1.00	2.00	5.00
			1172072	1781970	2157911	2587842		10.0	15.0	20.0	25.0	
4-Bromophenyl phenyl ether	PHN	Ave		18258	37820	73042	159450		0.500	1.00	2.00	5.00
			343660	505579	634092	768187		10.0	15.0	20.0	25.0	
Hexachlorobenzene	PHN	Ave	3935	18837	42139	76253	174373	0.100	0.500	1.00	2.00	5.00
			361900	547486	674170	806751		10.0	15.0	20.0	25.0	
Atrazine	PHN	Ave	8152	32609	73738	138636	320841	0.200	1.00	2.00	4.00	10.0
			695826	1037795	1286376	1571633		20.0	30.0	40.0	50.0	
n-Octadecane	PHN	Ave		31230	70816	131795	310035		0.500	1.00	2.00	5.00
			602109	891500	1088468	1311035		10.0	15.0	20.0	25.0	
Pentachlorophenol	PHN	Lin1		17973	45363	91588	215339		1.00	2.00	4.00	10.0
			461248	720461	947280	1168461		20.0	30.0	40.0	50.0	
Phenanthrene	PHN	Ave	21395	88963	187099	353251	774563	0.100	0.500	1.00	2.00	5.00
			1612592	2510762	3135900	3924972		10.0	15.0	20.0	25.0	
Anthracene	PHN	Ave	18440	83984	185284	351215	771399	0.100	0.500	1.00	2.00	5.00
			1596996	2478704	3204791	3898017		10.0	15.0	20.0	25.0	
Carbazole	PHN	Qua		78967	167687	289452	602982		0.500	1.00	2.00	5.00
			1126107	1443524	1710878	1929681		10.0	15.0	20.0	25.0	
Di-n-butyl phthalate	PHN	Ave		87795	187534	372218	906822		0.500	1.00	2.00	5.00
			1979941	3111412	3843086	4695628		10.0	15.0	20.0	25.0	
Fluoranthene	PHN	Ave	21747	92637	196265	370927	861557	0.100	0.500	1.00	2.00	5.00
			1902485	2967114	3694391	4504995		10.0	15.0	20.0	25.0	
Benzidine	CRY	Qua		14436	35738	82764	180853		1.00	2.00	4.00	10.0
			443794	952050	1322988	++++		20.0	30.0	40.0	++++	
Pyrene	CRY	Ave	22327	93068	203529	382243	879965	0.100	0.500	1.00	2.00	5.00
			1954279	2989209	3744587	4559255		10.0	15.0	20.0	25.0	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Butyl benzyl phthalate	CRY	Ave	823926	32524 1318518	82977 1650171	164758 2057105	411265	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	1206636	44629 1910781	113193 2429274	234811 3006887	556875	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	522866	29814 778159	71441 1019299	137419 1323408	293595	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	20169 1773614	90109 2774056	195836 3446102	373658 4217479	836220	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	21033 1738095	89574 2676091	195402 3363466	367802 4141777	805386	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Lin1	2000170	61724 3143947	161608 4029320	361351 5055698	925939	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	16117 1690798	71406 2690243	175414 3368328	334178 4168578	780068	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	17837 1833345	85078 2784840	188402 3544678	368895 4248629	836873	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	14365 1676312	65499 2572790	158773 3315559	323326 4041671	762129	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	13476 1688332	66612 2656128	165341 3355549	318043 4108365	769891	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	11930 1447682	58608 2276193	138242 2886733	284831 3566999	662673	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	14670 1490114	62416 2335577	150959 2919274	292377 3623054	692572	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCBd 4	Ave	522690	24707 787970	55131 991406	107452 1216729	249131	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5 (Surr)	DCBd 4	Ave	645252	30583 975882	68424 1240503	131470 1514857	303148	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	5824 614290	26629 930402	62028 1178165	121596 1411512	267286	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	13500 1123821	59340 1683961	126783 2153302	238765 2622057	533016	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	144653	6539 230724	16550 288480	31749 361628	71453	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539537

SDG No.: _____

Instrument ID: A4AG3 GC Column: RXI-5SILMS/ ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2022 11:04 Calibration End Date: 08/19/2022 14:09 Calibration ID: 67295

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Terphenyl-d14 (Surr)	CRY	Ave	18796	70271	153038	289572	655178	0.100	0.500	1.00	2.00	5.00
			1436818	2188327	2717070	3344213		10.0	15.0	20.0	25.0	

Curve Type Legend

Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qua = Quadratic ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819002.D
 Lims ID: std5 lst1
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Aug-2022 11:04:51 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-002
 Misc. Info.: STD5 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:13 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 11:46:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.000	96	160328	4.00	4.00	
* 2 Naphthalene-d8	136	7.342	7.342	0.000	100	575282	4.00	4.00	
* 3 Acenaphthene-d10	164	8.842	8.842	0.000	93	341487	4.00	4.00	
* 4 Phenanthrene-d10	188	10.107	10.107	0.000	96	595658	4.00	4.00	
* 5 Chrysene-d12	240	12.789	12.789	0.000	99	551438	4.00	4.00	
* 6 Perylene-d12	264	14.977	14.977	0.000	98	514092	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.019	5.019	0.000	92	249131	5.00	5.21	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	303148	5.00	5.13	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	89	267286	5.00	4.99	M
\$ 10 2-Fluorobiphenyl (Surr)	172	8.242	8.242	0.000	99	533016	5.00	5.09	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	71453	5.00	5.32	
\$ 12 Terphenyl-d14	244	11.495	11.495	0.000	97	655178	5.00	4.92	
13 1,4-Dioxane	88	2.966	2.966	0.000	92	109168	5.00	5.13	M
14 N-Nitrosodimethylamine	74	3.437	3.437	0.000	93	149441	5.00	5.29	
15 Pyridine	79	3.490	3.490	0.000	98	501096	10.0	10.3	
30 Benzaldehyde	77	5.842	5.842	0.000	96	446439	10.0	10.4	
31 Phenol	94	5.884	5.884	0.000	98	331108	5.00	5.13	
32 Aniline	93	5.937	5.937	0.000	98	395332	5.00	5.17	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	266517	5.00	5.10	
36 2-Chlorophenol	128	6.048	6.048	0.000	96	270674	5.00	5.21	
37 n-Decane	57	6.078	6.078	0.000	86	262952	5.00	5.20	
39 1,3-Dichlorobenzene	146	6.189	6.189	0.000	96	295234	5.00	5.10	
40 1,4-Dichlorobenzene	146	6.248	6.248	0.000	93	307330	5.00	5.30	
41 Benzyl alcohol	108	6.336	6.336	0.000	92	173763	5.00	5.16	
44 1,2-Dichlorobenzene	146	6.389	6.389	0.000	94	274000	5.00	5.00	
45 2-Methylphenol	108	6.419	6.419	0.000	96	246362	5.00	5.17	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	90	263336	5.00	5.24	
47 Indene	115	6.466	6.466	0.000	90	933612	10.0	10.4	
48 3 & 4 Methylphenol	108	6.548	6.548	0.000	93	256046	5.00	5.13	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	86	166986	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	97	373609	5.00	5.19	
54 Hexachloroethane	117	6.695	6.695	0.000	93	114460	5.00	5.14	
55 Nitrobenzene	77	6.725	6.725	0.000	86	279499	5.00	5.35	
57 Isophorone	82	6.925	6.925	0.000	99	523759	5.00	5.31	
59 2-Nitrophenol	139	7.007	7.007	0.000	97	132504	5.00	5.29	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	96	278096	5.00	5.24	
63 Benzoic acid	105	7.042	7.042	0.000	87	249969	10.0	9.78	M
64 Bis(2-chloroethoxy)methane	93	7.089	7.089	0.000	98	302635	5.00	5.18	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	94	220696	5.00	5.26	
68 1,2,4-Trichlorobenzene	180	7.289	7.289	0.000	94	236400	5.00	5.15	
69 Naphthalene	128	7.360	7.360	0.000	96	746663	5.00	5.12	
70 4-Chloroaniline	127	7.383	7.383	0.000	95	306140	5.00	5.19	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	216163	5.00	5.23	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	147414	5.00	5.11	
78 Caprolactam	113	7.660	7.660	0.000	84	159597	10.0	10.6	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	96	234271	5.00	5.26	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	93	522790	5.00	5.12	
83 1-Methylnaphthalene	142	8.036	8.036	0.000	93	475898	5.00	5.07	
85 Hexachlorocyclopentadiene	237	8.089	8.089	0.000	95	155561	5.00	5.35	
86 1,2,4,5-Tetrachlorobenzene	216	8.095	8.095	0.000	98	255642	5.00	5.28	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	93	167891	5.00	5.24	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	93	177736	5.00	5.34	
92 1,1'-Biphenyl	154	8.336	8.336	0.000	95	605982	5.00	5.00	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	484837	5.00	5.20	
99 2-Nitroaniline	65	8.431	8.431	0.000	84	137476	5.00	5.17	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	558536	5.00	5.31	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	87	84536	5.00	5.13	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	95	126138	5.00	5.18	
105 Acenaphthylene	152	8.725	8.725	0.000	98	768945	5.00	5.25	
106 3-Nitroaniline	138	8.772	8.772	0.000	95	113326	5.00	5.94	
108 2,4-Dinitrophenol	184	8.860	8.860	0.000	88	150104	10.0	10.1	
109 Acenaphthene	153	8.872	8.872	0.000	93	468881	5.00	5.14	
110 4-Nitrophenol	109	8.883	8.883	0.000	92	173413	10.0	10.5	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	93	165979	5.00	5.26	
113 Dibenzofuran	168	9.013	9.013	0.000	96	681610	5.00	5.06	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	73	141351	5.00	5.30	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	543852	5.00	5.28	
117 Hexadecane	57	9.154	9.154	0.000	94	303803	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	93	284011	5.00	5.17	
125 4-Nitroaniline	138	9.295	9.295	0.000	81	100149	5.00	5.13	M
126 Fluorene	166	9.307	9.307	0.000	95	549497	5.00	5.10	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	89	179274	10.0	9.75	
129 Diphenylamine	169	9.372	9.372	0.000	96	419341	4.25	4.73	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	99	419341	5.00	5.56	
130 Azobenzene	77	9.413	9.413	0.000	99	572006	5.00	5.57	
138 4-Bromophenyl phenyl ether	248	9.701	9.701	0.000	66	159450	5.00	5.29	
141 Hexachlorobenzene	284	9.783	9.783	0.000	93	174373	5.00	5.40	
140 Atrazine	200	9.795	9.795	0.000	95	320841	10.0	10.6	
142 n-Octadecane	57	9.930	9.930	0.000	91	310035	5.00	5.76	
145 Pentachlorophenol	266	9.936	9.936	0.000	91	215339	10.0	10.3	
149 Phenanthrene	178	10.125	10.125	0.000	97	774563	5.00	5.12	
150 Anthracene	178	10.172	10.172	0.000	97	771399	5.00	5.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.289	10.289	0.000	95	602982	5.00	5.48	M
154 Di-n-butyl phthalate	149	10.530	10.530	0.000	100	906822	5.00	5.40	
160 Fluoranthene	202	11.166	11.166	0.000	97	861557	5.00	5.16	
161 Benzidine	184	11.248	11.248	0.000	99	180853	10.0	10.2	
163 Pyrene	202	11.395	11.395	0.000	98	879965	5.00	4.99	
171 Butyl benzyl phthalate	149	11.989	11.989	0.000	98	411265	5.00	5.56	
176 Bis(2-ethylhexyl) phthalate	149	12.689	12.689	0.000	96	556875	5.00	5.30	
178 3,3'-Dichlorobenzidine	252	12.701	12.701	0.000	74	293595	10.0	11.1	
179 Benzo[a]anthracene	228	12.771	12.771	0.000	98	836220	5.00	5.06	
180 Chrysene	228	12.824	12.824	0.000	97	805386	5.00	4.93	
183 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	925939	5.00	5.04	
185 Benzo[b]fluoranthene	252	14.365	14.365	0.000	97	780068	5.00	5.05	
186 Benzo[k]fluoranthene	252	14.407	14.407	0.000	99	836873	5.00	5.02	
187 Benzo[a]pyrene	252	14.889	14.889	0.000	77	762129	5.00	5.18	
191 Indeno[1,2,3-cd]pyrene	276	16.754	16.754	0.000	98	769891	5.00	5.20	
192 Dibenz(a,h)anthracene	278	16.771	16.771	0.000	90	662673	5.00	5.17	
193 Benzo[g,h,i]perylene	276	17.265	17.265	0.000	99	692572	5.00	5.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L5 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819002.D

Injection Date: 19-Aug-2022 11:04:51

Instrument ID: A4AG3

Operator ID:

Lims ID: std5 lst1

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

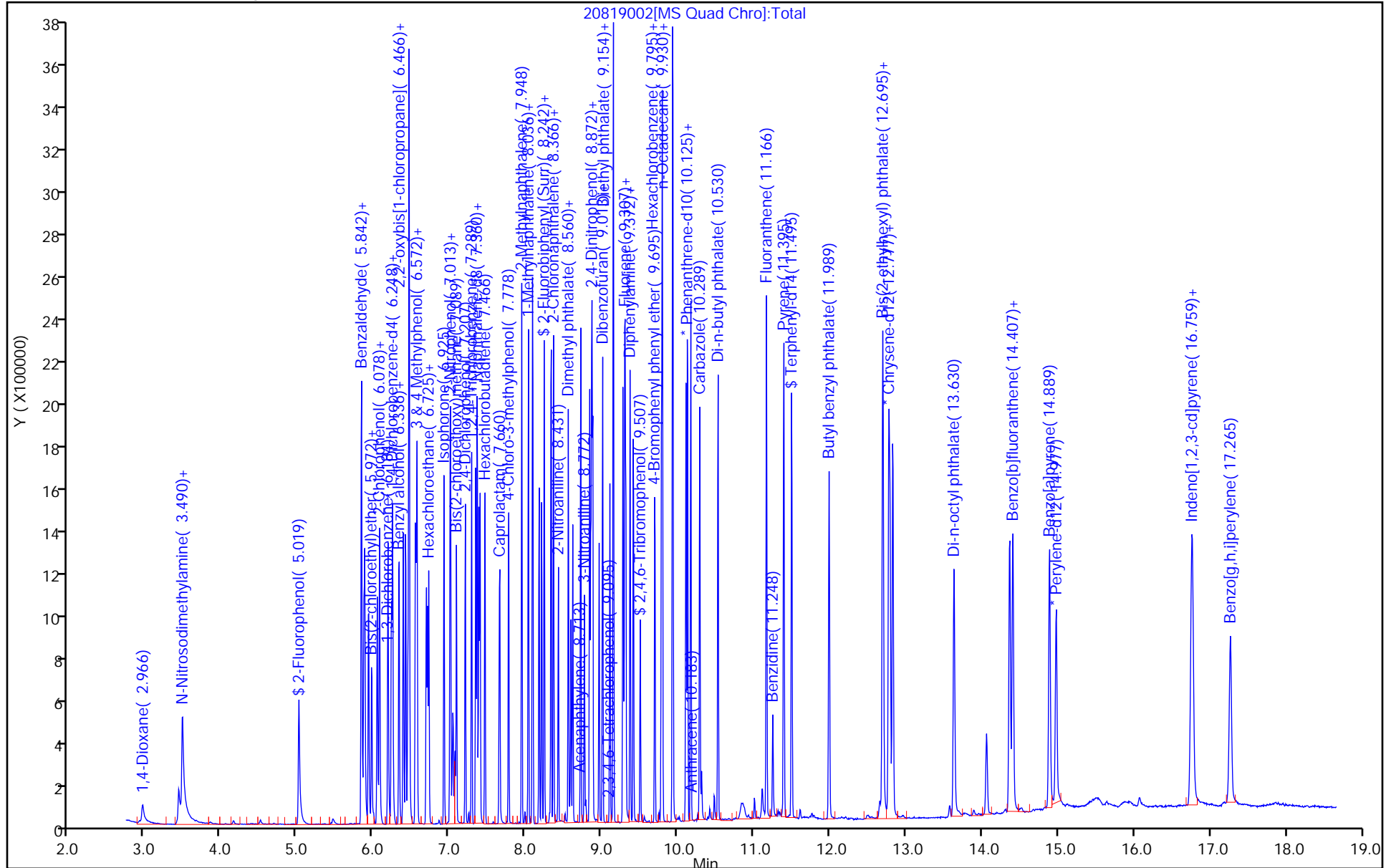
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

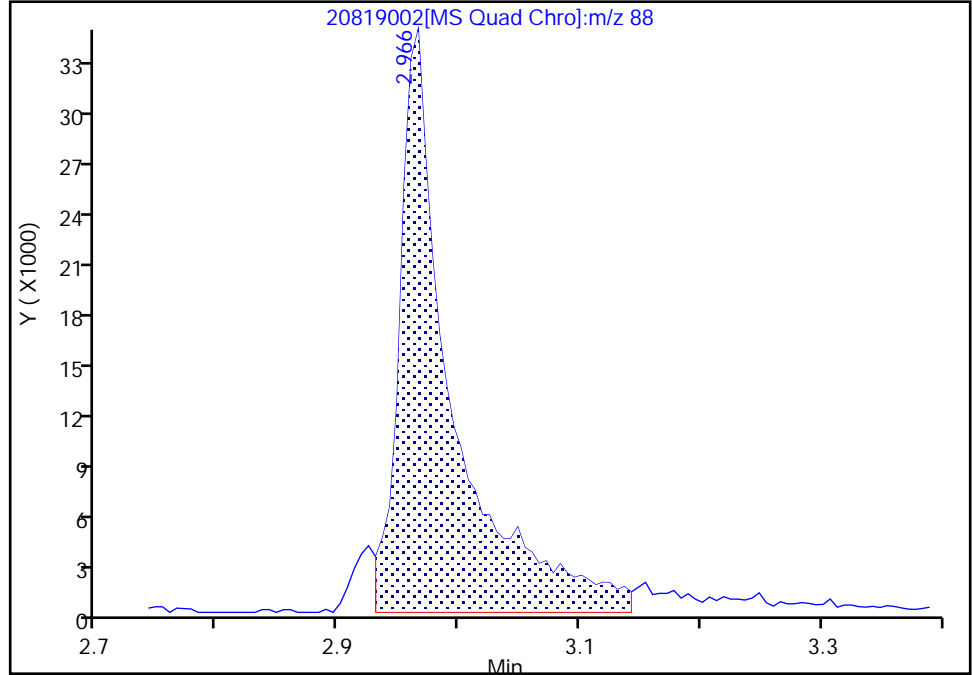
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819002.D
Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

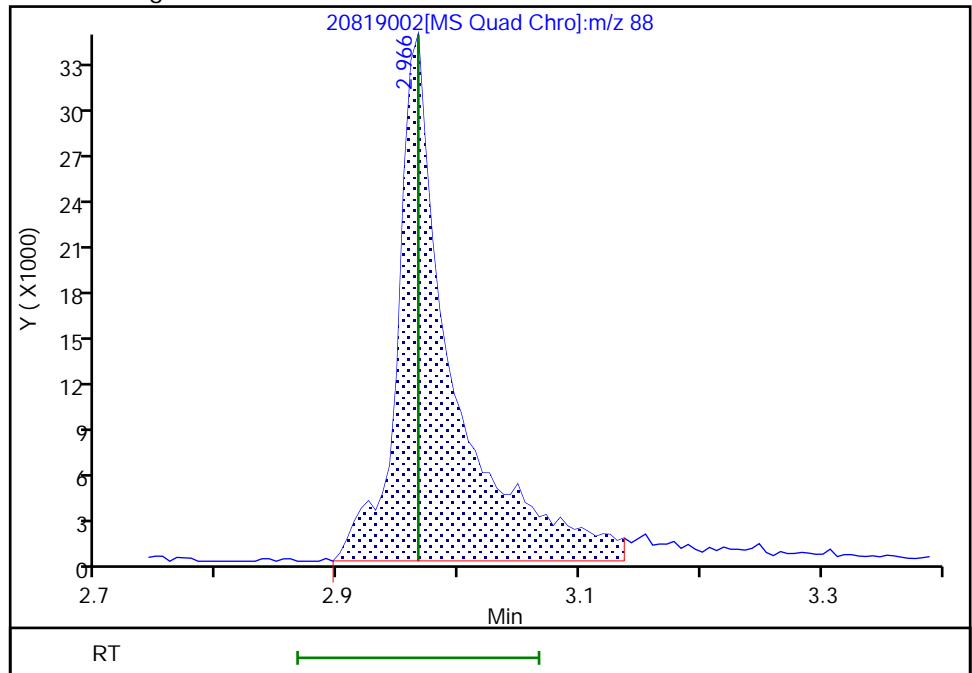
RT: 2.97
Area: 105711
Amount: 5.000000
Amount Units: ng/ul

Processing Integration Results



RT: 2.97
Area: 109168
Amount: 5.126657
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:37:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

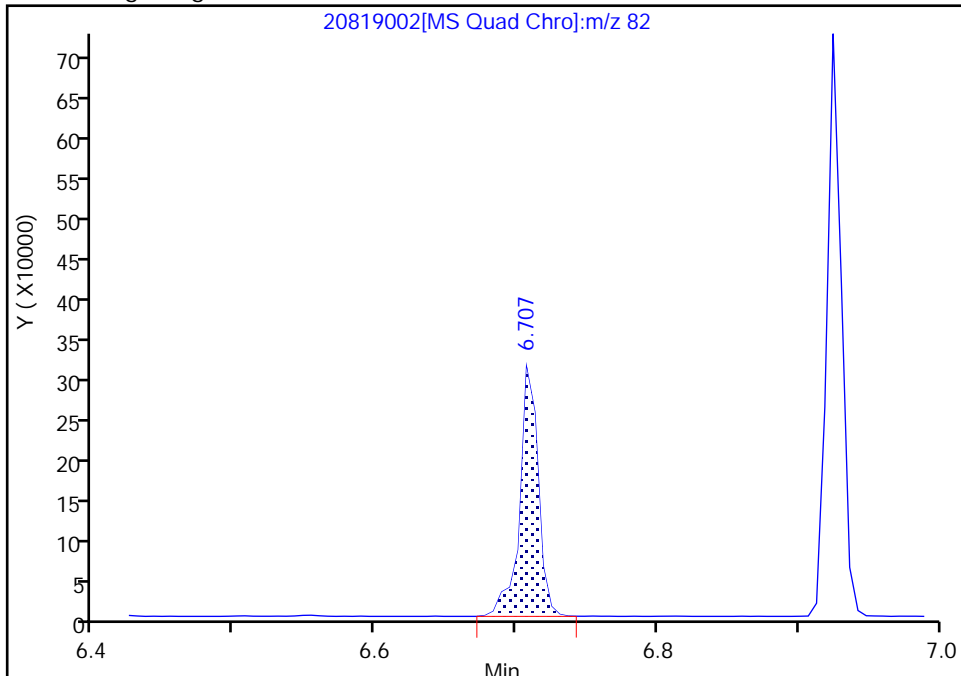
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819002.D
Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

\$ 9 Nitrobenzene-d5, CAS: 4165-60-0

Signal: 1

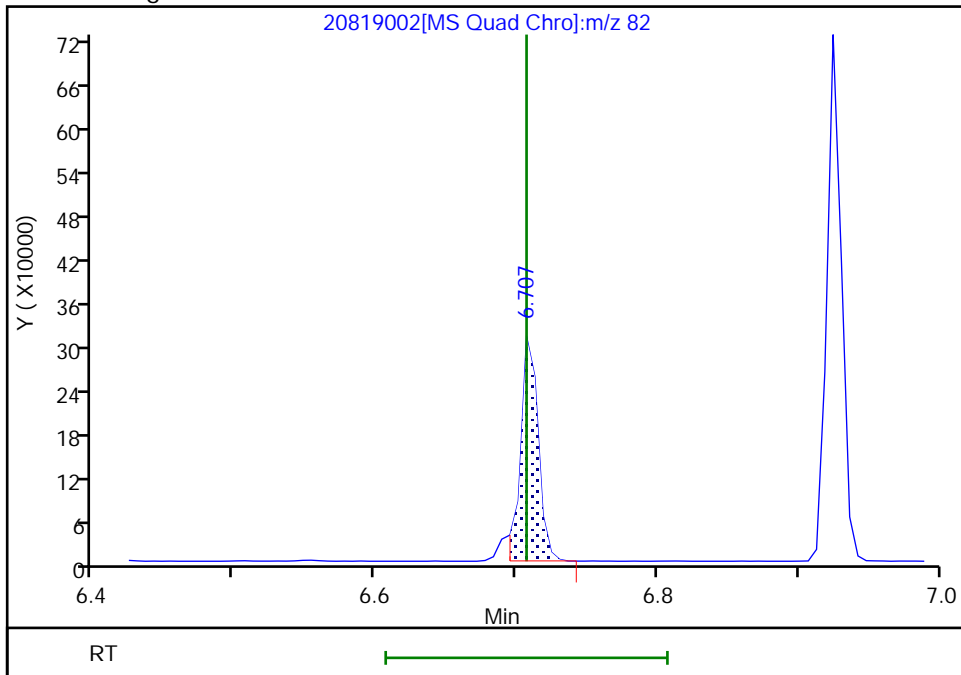
RT: 6.71
Area: 282173
Amount: 5.000000
Amount Units: ng/ul

Processing Integration Results



RT: 6.71
Area: 267286
Amount: 4.993156
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:38:24
Audit Action: Manually Integrated

Eurofins Canton

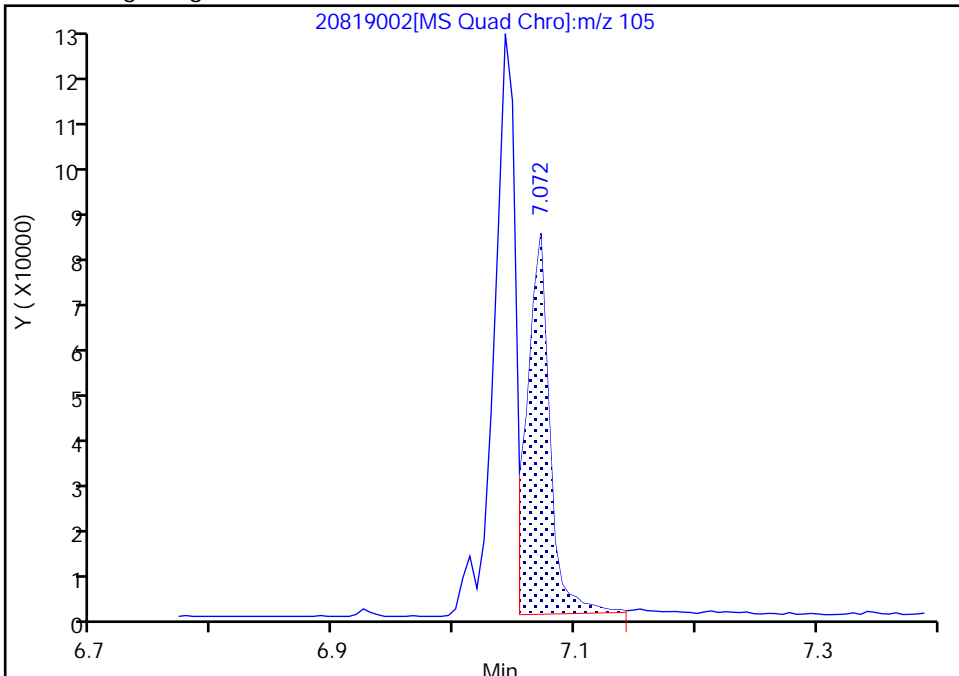
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819002.D
Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

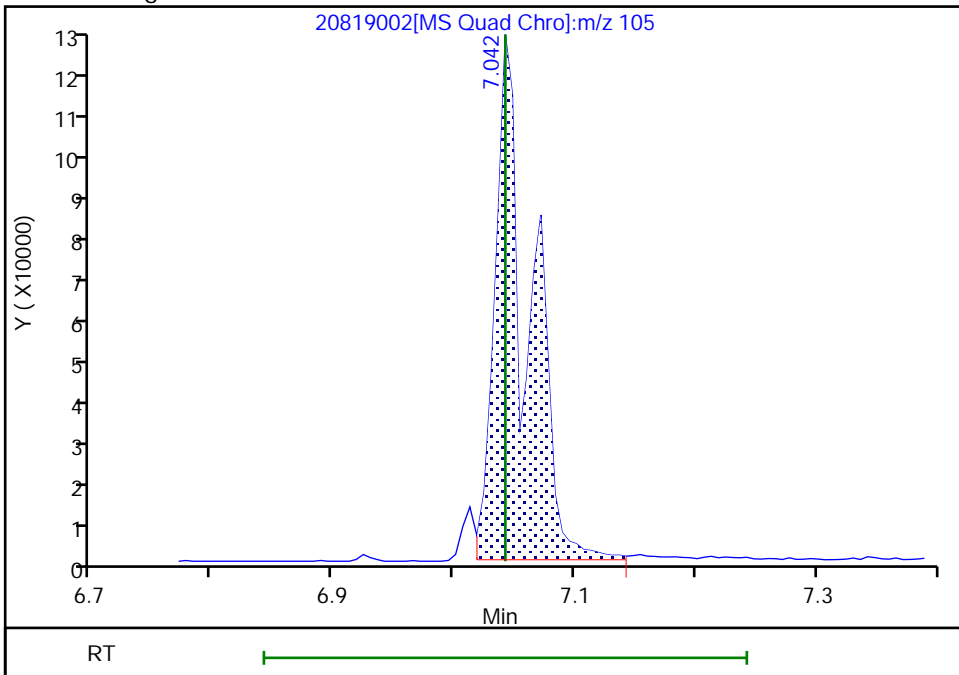
RT: 7.07
Area: 110828
Amount: 6.553477
Amount Units: ng/ul

Processing Integration Results



RT: 7.04
Area: 249969
Amount: 9.775701
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:39:08
Audit Action: Manually Integrated

Eurofins Canton

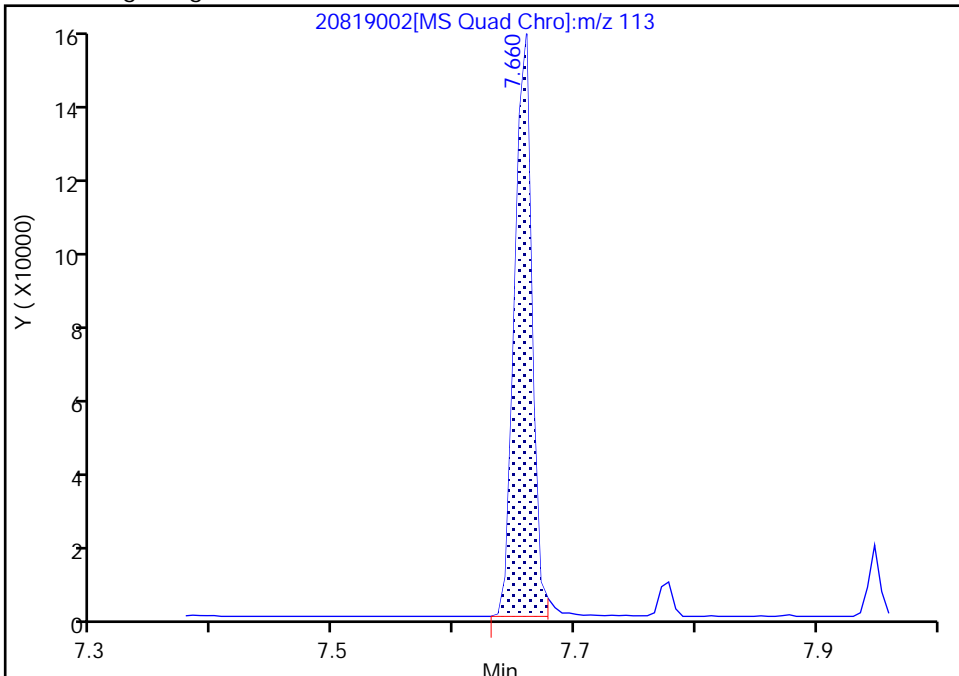
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Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

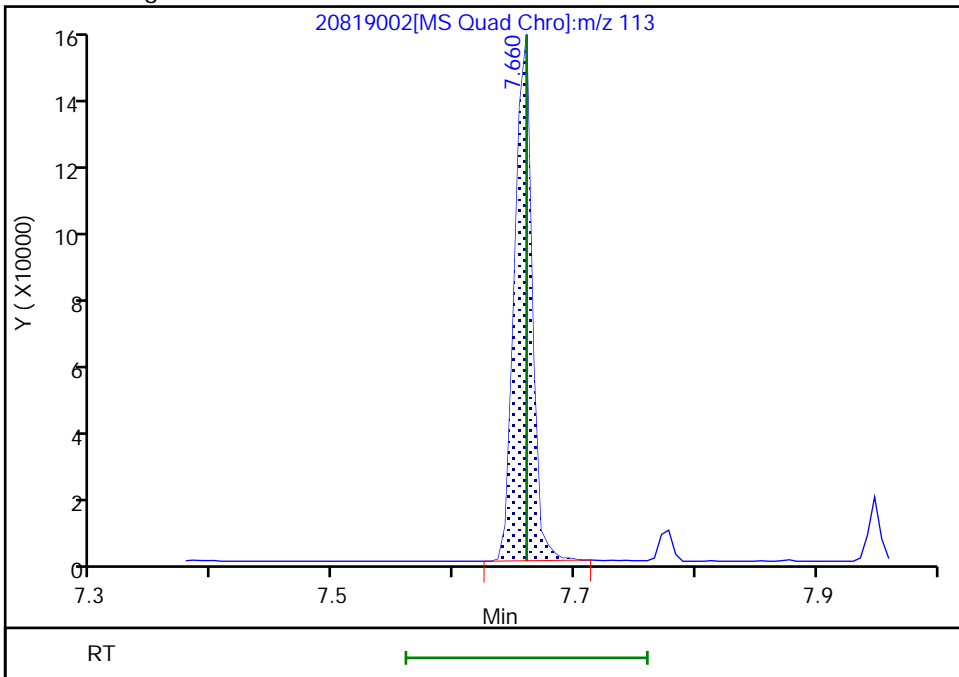
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Area: 158773
Amount: 10.000000
Amount Units: ng/ul

Processing Integration Results



RT: 7.66
Area: 159597
Amount: 10.639470
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:39:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

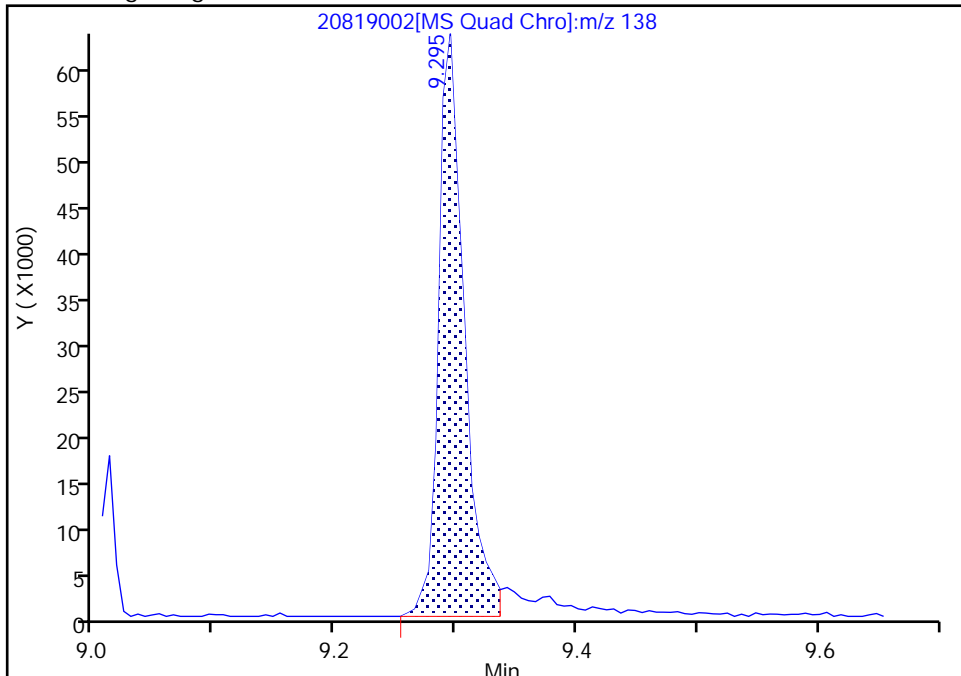
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Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

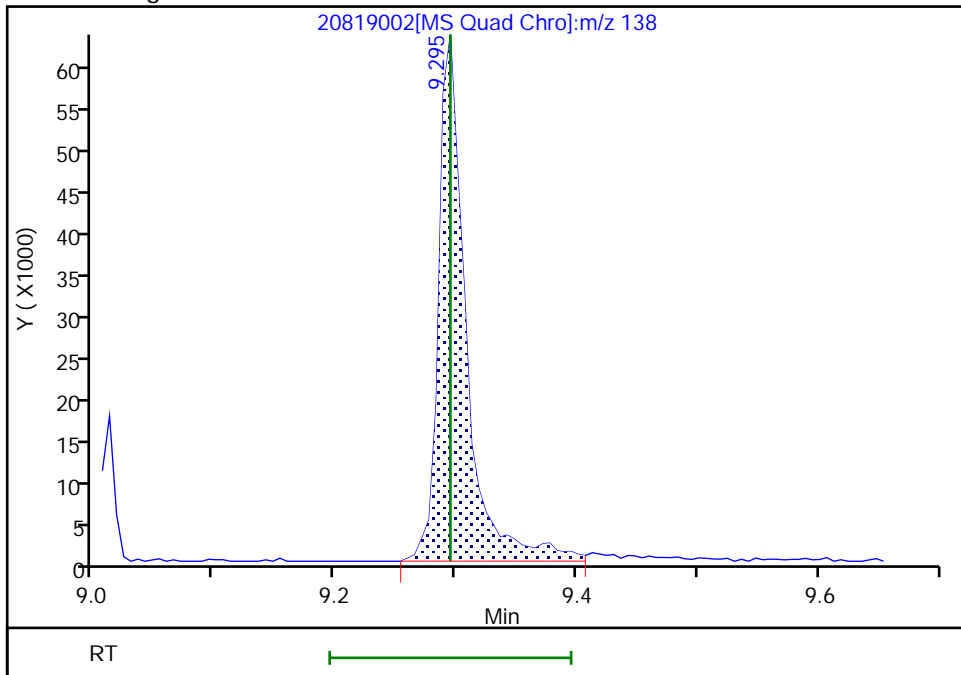
RT: 9.30
Area: 93021
Amount: 5.961867
Amount Units: ng/ul

Processing Integration Results



RT: 9.30
Area: 100149
Amount: 5.125285
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:40:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

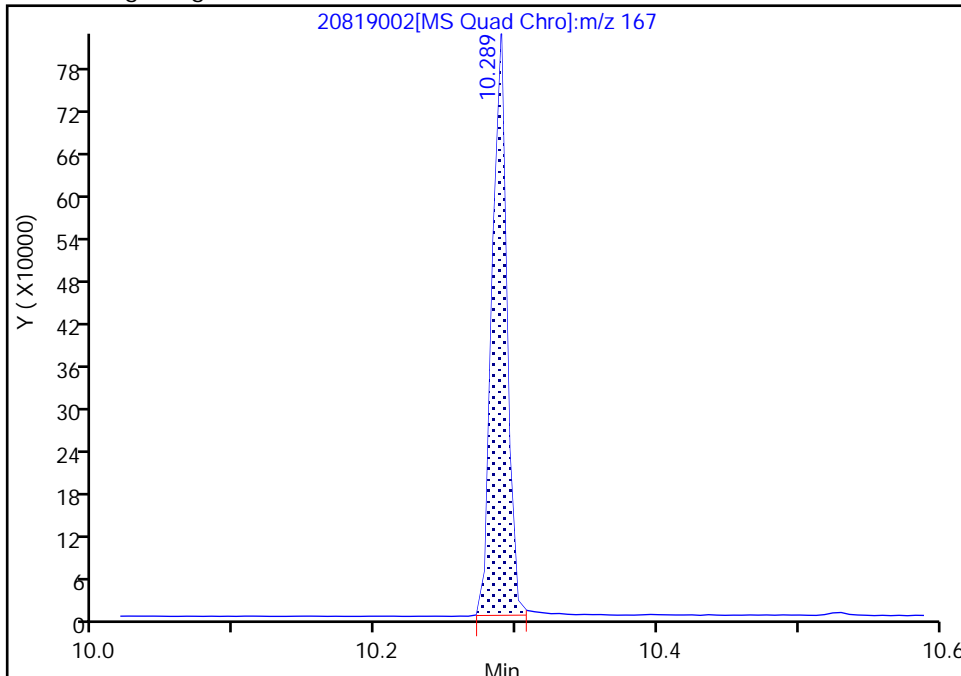
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Injection Date: 19-Aug-2022 11:04:51 Instrument ID: A4AG3
Lims ID: std5 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

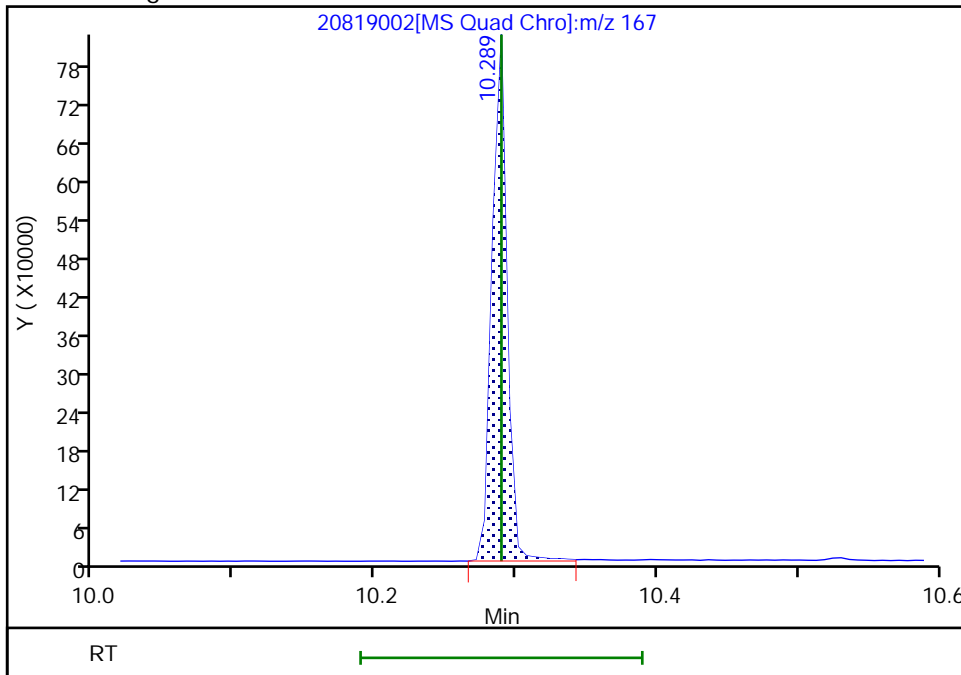
RT: 10.29
Area: 592435
Amount: 5.878500
Amount Units: ng/ul

Processing Integration Results



RT: 10.29
Area: 602982
Amount: 5.483777
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:41:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819003.D
 Lims ID: std4 lst1
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Aug-2022 11:27:54 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-003
 Misc. Info.: STD4 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:20 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 11:52:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.001	96	179277	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	660530	4.00	4.00	
* 3 Acenaphthene-d10	164	8.843	8.842	0.001	91	398684	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.107	-0.006	97	708199	4.00	4.00	
* 5 Chrysene-d12	240	12.784	12.789	-0.005	99	629039	4.00	4.00	
* 6 Perylene-d12	264	14.972	14.977	-0.005	98	572563	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.019	5.019	0.000	91	107452	2.00	2.01	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	131470	2.00	1.99	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	89	121596	2.00	1.98	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.243	8.242	0.001	99	238765	2.00	1.95	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	91	31749	2.00	2.03	
\$ 12 Terphenyl-d14	244	11.489	11.495	-0.006	97	289572	2.00	1.91	
13 1,4-Dioxane	88	2.949	2.966	-0.017	93	48656	2.00	2.04	M
14 N-Nitrosodimethylamine	74	3.425	3.437	-0.012	92	60737	2.00	1.92	
15 Pyridine	79	3.478	3.490	-0.012	98	216938	4.00	3.98	
30 Benzaldehyde	77	5.837	5.842	-0.005	94	193251	4.00	4.01	
31 Phenol	94	5.884	5.884	0.000	98	147819	2.00	2.05	
32 Aniline	93	5.931	5.937	-0.006	98	170077	2.00	1.99	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	98	117756	2.00	2.01	
36 2-Chlorophenol	128	6.049	6.048	0.001	95	118346	2.00	2.04	
37 n-Decane	57	6.078	6.078	0.000	85	115215	2.00	2.04	
39 1,3-Dichlorobenzene	146	6.190	6.189	0.001	96	129926	2.00	2.01	
40 1,4-Dichlorobenzene	146	6.249	6.248	0.001	93	128163	2.00	1.98	
41 Benzyl alcohol	108	6.331	6.336	-0.005	91	74470	2.00	1.98	
44 1,2-Dichlorobenzene	146	6.390	6.389	0.001	95	123062	2.00	2.01	
45 2-Methylphenol	108	6.419	6.419	0.000	95	107670	2.00	2.02	
46 2,2'-oxybis[1-chloropropane]	45	6.449	6.454	-0.005	89	113102	2.00	2.01	
47 Indene	115	6.466	6.466	0.000	92	400853	4.00	4.00	
48 3 & 4 Methylphenol	108	6.549	6.548	0.001	92	110557	2.00	1.98	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	84	73387	2.00	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	97	159939	2.00	1.99	
54 Hexachloroethane	117	6.696	6.695	0.001	92	50245	2.00	2.02	
55 Nitrobenzene	77	6.725	6.725	0.000	87	117046	2.00	1.95	
57 Isophorone	82	6.925	6.925	0.000	99	223354	2.00	1.97	
59 2-Nitrophenol	139	7.001	7.007	-0.006	96	54585	2.00	1.90	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	97	121559	2.00	1.99	
63 Benzoic acid	105	7.031	7.042	-0.011	82	97104	4.00	4.30	M
64 Bis(2-chloroethoxy)methane	93	7.090	7.089	0.001	98	134833	2.00	2.01	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	95	95819	2.00	1.99	
68 1,2,4-Trichlorobenzene	180	7.290	7.289	0.001	94	103411	2.00	1.96	
69 Naphthalene	128	7.360	7.360	0.000	98	318153	2.00	1.90	
70 4-Chloroaniline	127	7.384	7.383	0.001	96	135676	2.00	2.00	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	98	94870	2.00	2.00	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	66407	2.00	2.00	
78 Caprolactam	113	7.654	7.660	-0.006	85	66383	4.00	3.85	
80 4-Chloro-3-methylphenol	107	7.772	7.778	-0.006	95	99100	2.00	1.94	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	92	229481	2.00	1.96	
83 1-Methylnaphthalene	142	8.037	8.036	0.001	93	211730	2.00	1.97	
85 Hexachlorocyclopentadiene	237	8.090	8.089	0.001	96	63937	2.00	1.88	
86 1,2,4,5-Tetrachlorobenzene	216	8.096	8.095	0.001	98	112021	2.00	1.98	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	93	71642	2.00	1.92	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	94	73980	2.00	1.91	M
92 1,1'-Biphenyl	154	8.331	8.336	-0.005	94	273444	2.00	1.93	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	97	209873	2.00	1.93	
99 2-Nitroaniline	65	8.431	8.431	0.001	85	55668	2.00	1.90	
102 Dimethyl phthalate	163	8.560	8.560	0.000	99	246943	2.00	2.01	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	88	31403	2.00	1.81	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	96	53097	2.00	1.96	
105 Acenaphthylene	152	8.725	8.725	0.000	98	327935	2.00	1.92	
106 3-Nitroaniline	138	8.772	8.772	0.000	97	52631	2.00	2.36	
108 2,4-Dinitrophenol	184	8.854	8.860	-0.006	85	52681	4.00	3.76	
109 Acenaphthene	153	8.866	8.872	-0.006	92	205550	2.00	1.93	
110 4-Nitrophenol	109	8.878	8.883	-0.005	90	73723	4.00	3.82	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	92	69095	2.00	1.98	
113 Dibenzofuran	168	9.013	9.013	0.000	96	301248	2.00	1.91	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	73	60023	2.00	1.93	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	251283	2.00	2.09	
117 Hexadecane	57	9.154	9.154	0.000	94	137156	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	90	125646	2.00	1.96	
125 4-Nitroaniline	138	9.290	9.295	-0.005	81	42146	2.00	1.85	
126 Fluorene	166	9.301	9.307	-0.006	96	246011	2.00	1.96	
127 4,6-Dinitro-2-methylphenol	198	9.313	9.319	-0.006	88	73689	4.00	3.83	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	99	181172	2.00	2.02	
129 Diphenylamine	169	9.372	9.372	0.000	95	181172	1.70	1.72	
130 Azobenzene	77	9.413	9.413	0.000	99	250020	2.00	2.05	
138 4-Bromophenyl phenyl ether	248	9.695	9.701	-0.006	65	73042	2.00	2.04	
141 Hexachlorobenzene	284	9.784	9.783	0.001	93	76253	2.00	1.99	
140 Atrazine	200	9.795	9.795	0.000	95	138636	4.00	3.85	
142 n-Octadecane	57	9.925	9.930	-0.005	93	131795	2.00	2.06	
145 Pentachlorophenol	266	9.931	9.936	-0.005	91	91588	4.00	3.89	
149 Phenanthrene	178	10.125	10.125	0.000	97	353251	2.00	1.96	
150 Anthracene	178	10.166	10.172	-0.006	97	351215	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.284	10.289	-0.005	96	289452	2.00	1.92	
154 Di-n-butyl phthalate	149	10.525	10.530	-0.005	100	372218	2.00	1.86	
160 Fluoranthene	202	11.160	11.166	-0.006	97	370927	2.00	1.87	
161 Benzidine	184	11.242	11.248	-0.006	99	82764	4.00	4.65	
163 Pyrene	202	11.389	11.395	-0.006	98	382243	2.00	1.90	
171 Butyl benzyl phthalate	149	11.984	11.989	-0.005	98	164758	2.00	1.95	
176 Bis(2-ethylhexyl) phthalate	149	12.684	12.689	-0.005	96	234811	2.00	1.96	
178 3,3'-Dichlorobenzidine	252	12.695	12.701	-0.006	75	137419	4.00	4.54	
179 Benzo[a]anthracene	228	12.772	12.771	0.001	98	373658	2.00	1.98	
180 Chrysene	228	12.819	12.824	-0.005	97	367802	2.00	1.97	
183 Di-n-octyl phthalate	149	13.625	13.630	-0.005	99	361351	2.00	1.91	
185 Benzo[b]fluoranthene	252	14.354	14.365	-0.011	97	334178	2.00	1.94	
186 Benzo[k]fluoranthene	252	14.401	14.407	-0.006	99	368895	2.00	1.99	
187 Benzo[a]pyrene	252	14.878	14.889	-0.011	77	323326	2.00	1.97	
191 Indeno[1,2,3-cd]pyrene	276	16.748	16.754	-0.006	98	318043	2.00	1.93	
192 Dibenz(a,h)anthracene	278	16.760	16.771	-0.011	90	284831	2.00	2.00	
193 Benzo[g,h,i]perylene	276	17.260	17.265	-0.005	99	292377	2.00	1.94	
S 219 Methyl Phenols, Total	100				0			4.00	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L4 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819003.D

Injection Date: 19-Aug-2022 11:27:54

Instrument ID: A4AG3

Operator ID:

Lims ID: std4 lst1

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

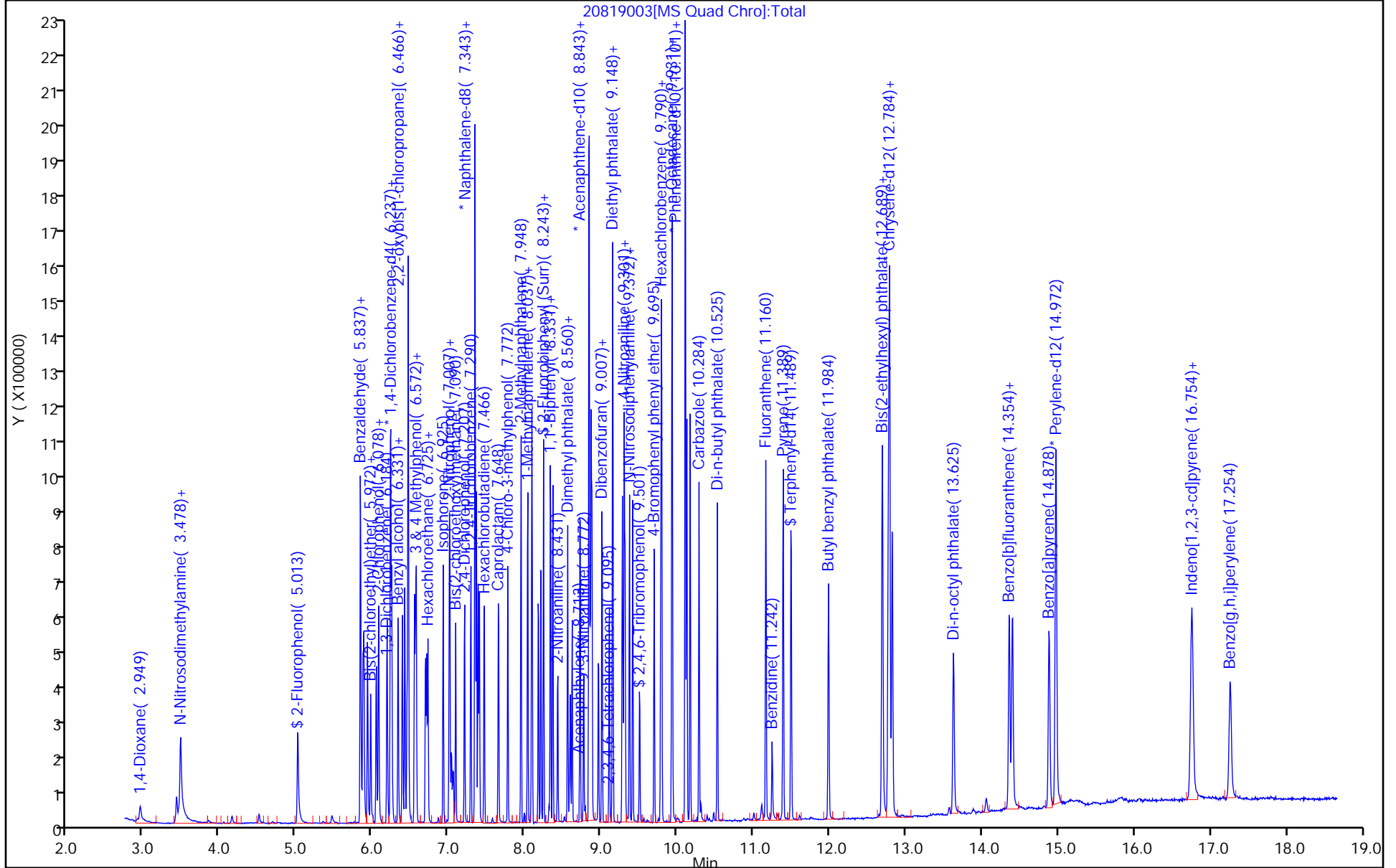
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

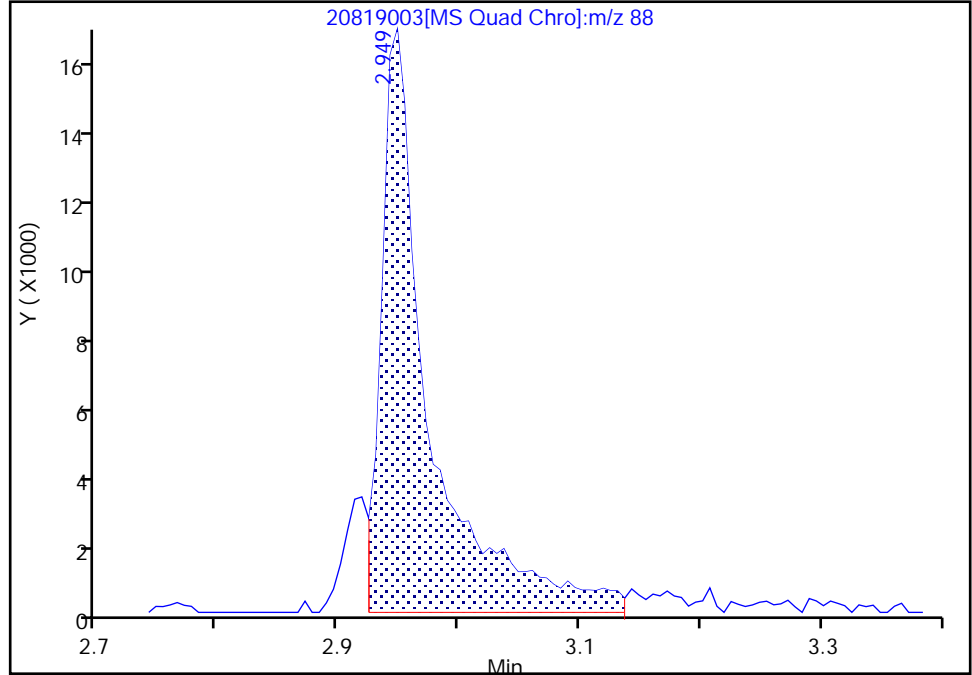
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Injection Date: 19-Aug-2022 11:27:54 Instrument ID: A4AG3
Lims ID: std4 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 um) Detector: MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

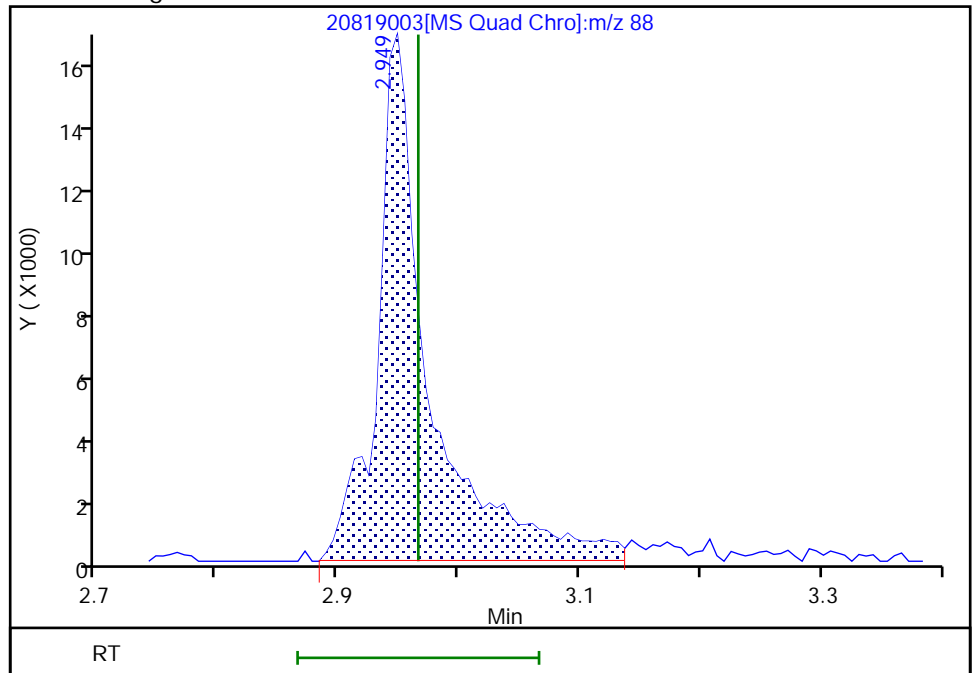
RT: 2.95
Area: 45167
Amount: 1.922099
Amount Units: ng/ul

Processing Integration Results



RT: 2.95
Area: 48656
Amount: 2.043432
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:50:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

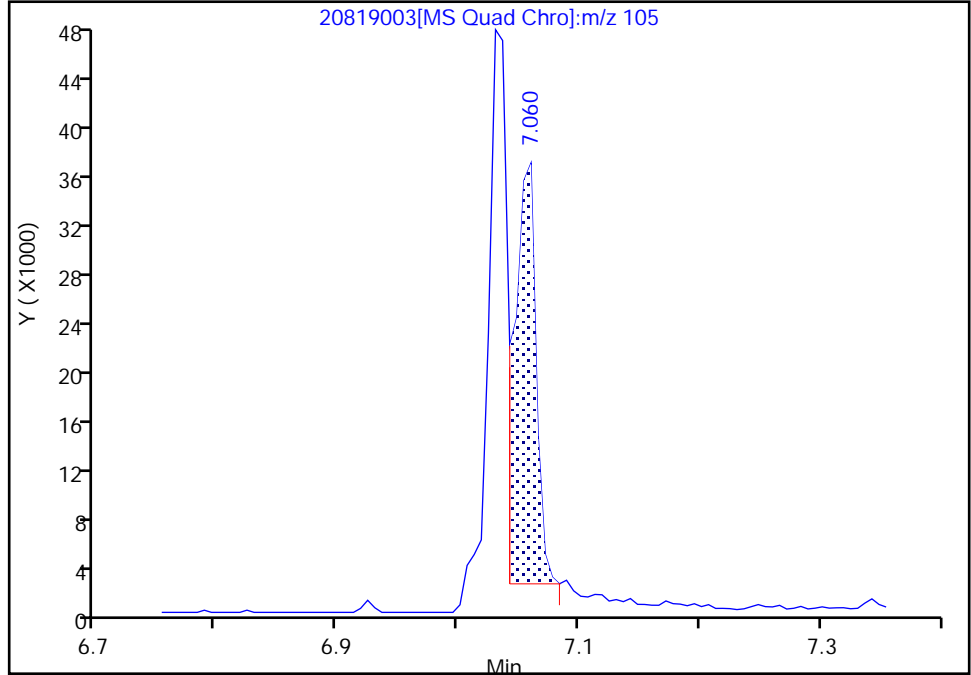
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819003.D
Injection Date: 19-Aug-2022 11:27:54 Instrument ID: A4AG3
Lims ID: std4 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

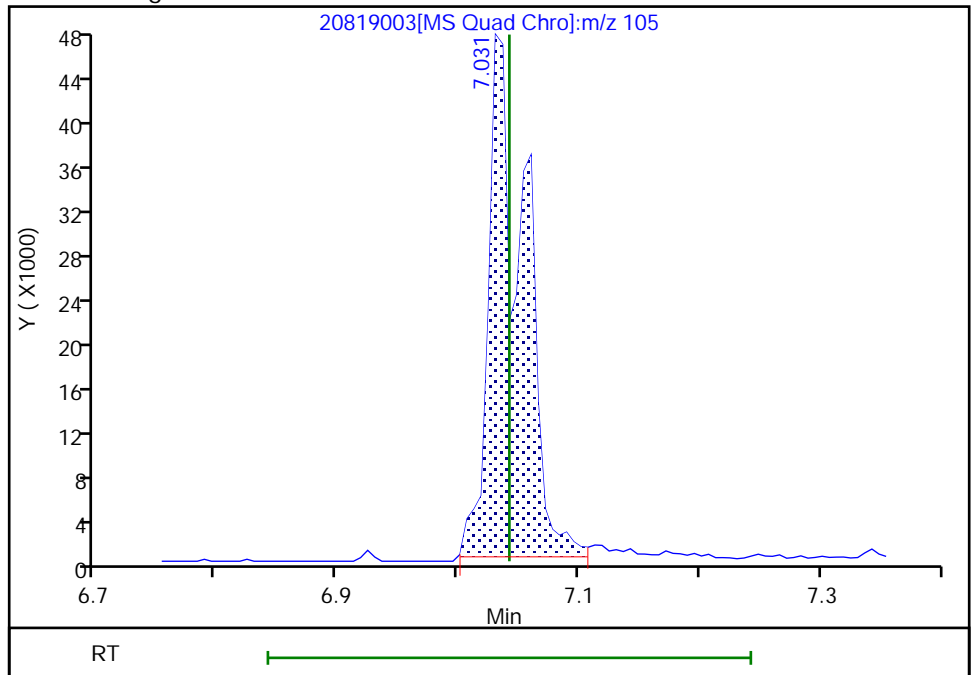
RT: 7.06
Area: 43829
Amount: 2.210331
Amount Units: ng/ul

Processing Integration Results



RT: 7.03
Area: 97104
Amount: 4.298302
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:50:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

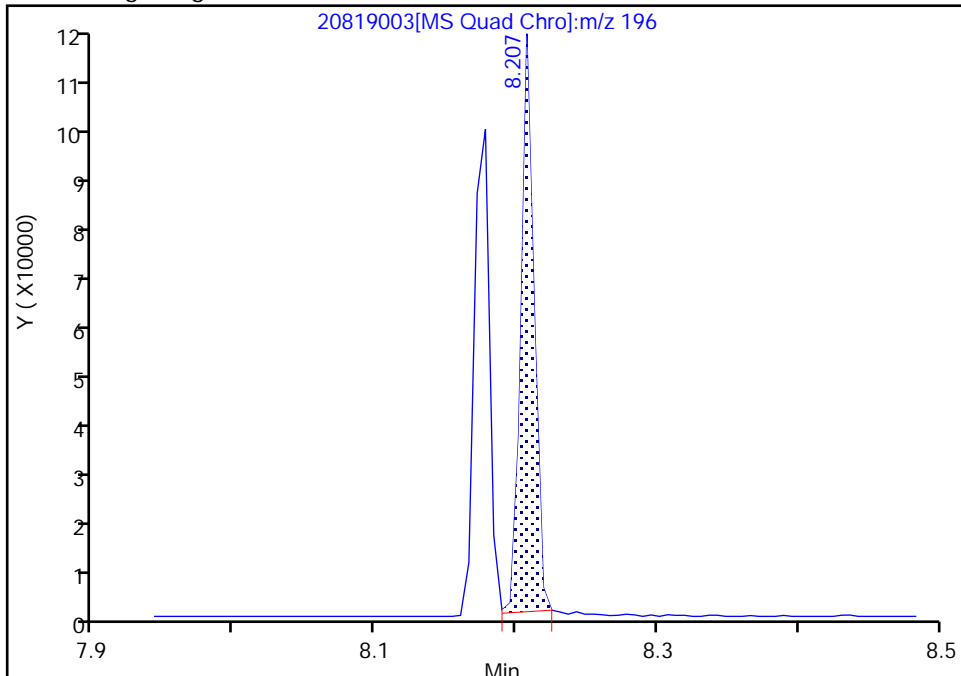
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819003.D
Injection Date: 19-Aug-2022 11:27:54 Instrument ID: A4AG3
Lims ID: std4 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector) MS SCAN

89 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

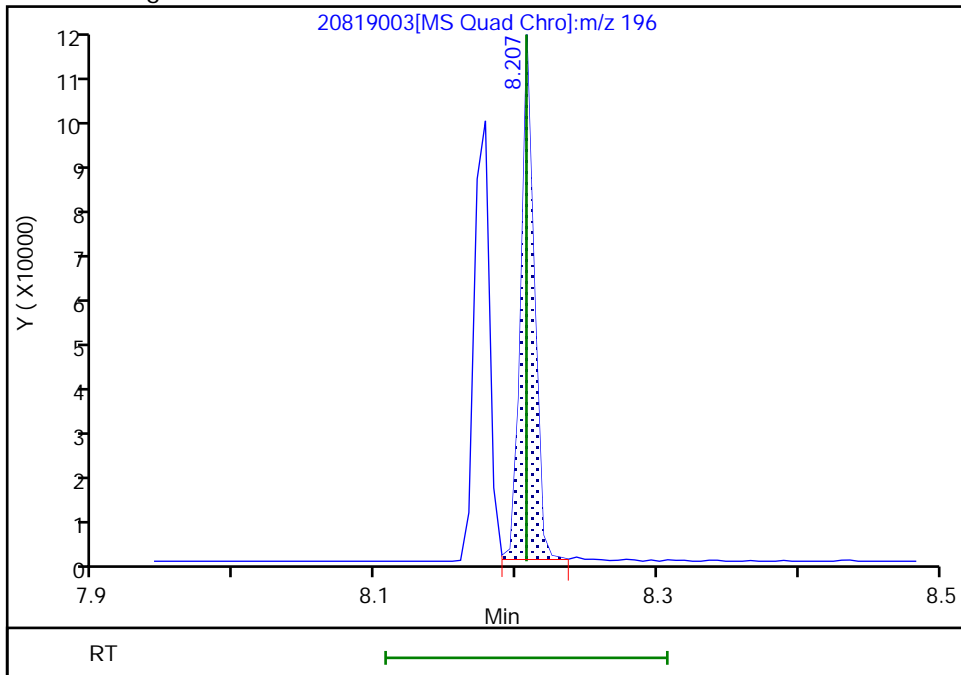
RT: 8.21
Area: 72486
Amount: 1.864732
Amount Units: ng/ul

Processing Integration Results



RT: 8.21
Area: 73980
Amount: 1.905409
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 11:51:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819004.D
 Lims ID: std3 lst1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Aug-2022 11:50:58 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-004
 Misc. Info.: STD3 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:26 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 12:18:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.231	6.237	-0.005	97	183248	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	665187	4.00	4.00	
* 3 Acenaphthene-d10	164	8.837	8.842	-0.005	92	398176	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.107	-0.006	97	735765	4.00	4.00	
* 5 Chrysene-d12	240	12.784	12.789	-0.005	99	638689	4.00	4.00	
* 6 Perylene-d12	264	14.966	14.977	-0.011	98	579379	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.013	5.019	-0.006	93	55131	1.00	1.01	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	68424	1.00	1.01	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	89	62028	1.00	1.00	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.243	8.242	0.001	100	126783	1.00	1.04	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	16550	1.00	1.06	
\$ 12 Terphenyl-d14	244	11.489	11.495	-0.006	97	153038	1.00	0.99	
13 1,4-Dioxane	88	2.949	2.966	-0.017	90	24363	1.00	1.00	M
14 N-Nitrosodimethylamine	74	3.425	3.437	-0.012	92	32380	1.00	1.00	
15 Pyridine	79	3.478	3.490	-0.012	98	106391	2.00	1.91	
30 Benzaldehyde	77	5.837	5.842	-0.005	95	102042	2.00	2.07	
31 Phenol	94	5.884	5.884	0.000	98	75832	1.00	1.03	
32 Aniline	93	5.931	5.937	-0.006	98	87176	1.00	1.00	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	62296	1.00	1.04	
36 2-Chlorophenol	128	6.049	6.048	0.001	95	59119	1.00	1.00	
37 n-Decane	57	6.078	6.078	0.000	86	59402	1.00	1.03	
39 1,3-Dichlorobenzene	146	6.190	6.189	0.001	97	69052	1.00	1.04	
40 1,4-Dichlorobenzene	146	6.249	6.248	0.001	94	66489	1.00	1.00	
41 Benzyl alcohol	108	6.331	6.336	-0.005	91	38017	1.00	0.9869	
44 1,2-Dichlorobenzene	146	6.390	6.389	0.001	95	66109	1.00	1.06	
45 2-Methylphenol	108	6.419	6.419	0.000	95	55740	1.00	1.02	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	90	60251	1.00	1.05	
47 Indene	115	6.466	6.466	0.000	90	210669	2.00	2.06	
48 3 & 4 Methylphenol	108	6.549	6.548	0.001	92	57898	1.00	1.01	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	85	37540	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	97	85239	1.00	1.04	
54 Hexachloroethane	117	6.690	6.695	-0.005	96	25525	1.00	1.00	
55 Nitrobenzene	77	6.725	6.725	0.000	87	59125	1.00	0.9787	
57 Isophorone	82	6.925	6.925	0.000	99	115813	1.00	1.01	
59 2-Nitrophenol	139	7.001	7.007	-0.006	97	25919	1.00	0.8956	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	97	63062	1.00	1.03	
63 Benzoic acid	105	7.031	7.042	-0.011	87	35074	2.00	2.41	M
64 Bis(2-chloroethoxy)methane	93	7.090	7.089	0.001	98	70348	1.00	1.04	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	95	48302	1.00	1.00	
68 1,2,4-Trichlorobenzene	180	7.290	7.289	0.001	93	55538	1.00	1.05	
69 Naphthalene	128	7.360	7.360	0.000	96	170926	1.00	1.01	
70 4-Chloroaniline	127	7.384	7.383	0.001	96	70039	1.00	1.03	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	48393	1.00	1.01	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	34526	1.00	1.03	
78 Caprolactam	113	7.649	7.660	-0.012	85	36062	2.00	2.08	
80 4-Chloro-3-methylphenol	107	7.772	7.778	-0.006	96	52263	1.00	1.01	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	92	118068	1.00	1.00	
83 1-Methylnaphthalene	142	8.037	8.036	0.001	94	110715	1.00	1.02	
85 Hexachlorocyclopentadiene	237	8.090	8.089	0.001	95	32099	1.00	0.9473	
86 1,2,4,5-Tetrachlorobenzene	216	8.090	8.095	-0.005	98	57210	1.00	1.01	
88 2,4,6-Trichlorophenol	196	8.172	8.178	-0.006	94	38382	1.00	1.03	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	94	39118	1.00	1.01	
92 1,1'-Biphenyl	154	8.331	8.336	-0.005	94	142430	1.00	1.01	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	109366	1.00	1.01	
99 2-Nitroaniline	65	8.425	8.431	-0.005	83	25781	1.00	0.9743	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	130984	1.00	1.07	
103 1,3-Dinitrobenzene	168	8.596	8.595	0.001	88	14228	1.00	0.9693	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	95	25173	1.00	1.00	
105 Acenaphthylene	152	8.719	8.725	-0.006	98	170700	1.00	1.00	
106 3-Nitroaniline	138	8.772	8.772	0.000	95	27108	1.00	1.22	
108 2,4-Dinitrophenol	184	8.854	8.860	-0.006	83	21819	2.00	2.16	
109 Acenaphthene	153	8.866	8.872	-0.006	94	110118	1.00	1.03	
110 4-Nitrophenol	109	8.878	8.883	-0.005	89	35472	2.00	1.84	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	91	31598	1.00	0.9877	
113 Dibenzofuran	168	9.007	9.013	-0.006	96	157423	1.00	1.00	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	73	31260	1.00	1.00	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	127645	1.00	1.06	
117 Hexadecane	57	9.148	9.154	-0.006	94	68938	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	91	63786	1.00	1.00	
125 4-Nitroaniline	138	9.284	9.295	-0.011	79	25420	1.00	1.12	
126 Fluorene	166	9.301	9.307	-0.006	95	127561	1.00	1.02	
127 4,6-Dinitro-2-methylphenol	198	9.313	9.319	-0.006	87	33878	2.00	2.09	
129 Diphenylamine	169	9.372	9.372	0.000	96	97075	0.8500	0.8857	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	97075	1.00	1.04	
130 Azobenzene	77	9.413	9.413	0.000	99	126486	1.00	1.00	
138 4-Bromophenyl phenyl ether	248	9.695	9.701	-0.006	65	37820	1.00	1.02	
141 Hexachlorobenzene	284	9.784	9.783	0.001	94	42139	1.00	1.06	
140 Atrazine	200	9.790	9.795	-0.005	95	73738	2.00	1.97	
142 n-Octadecane	57	9.925	9.930	-0.005	92	70816	1.00	1.06	
145 Pentachlorophenol	266	9.931	9.936	-0.005	90	45363	2.00	2.01	
149 Phenanthrene	178	10.125	10.125	0.000	96	187099	1.00	1.00	
150 Anthracene	178	10.166	10.172	-0.006	97	185284	1.00	1.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.284	10.289	-0.005	96	167687	1.00	0.9363	
154 Di-n-butyl phthalate	149	10.525	10.530	-0.005	100	187534	1.00	0.9037	
160 Fluoranthene	202	11.160	11.166	-0.006	97	196265	1.00	0.9509	
161 Benzidine	184	11.242	11.248	-0.006	99	35738	2.00	1.96	
163 Pyrene	202	11.389	11.395	-0.006	98	203529	1.00	1.00	
171 Butyl benzyl phthalate	149	11.984	11.989	-0.005	98	82977	1.00	0.9690	
176 Bis(2-ethylhexyl) phthalate	149	12.684	12.689	-0.005	96	113193	1.00	0.9297	
178 3,3'-Dichlorobenzidine	252	12.689	12.701	-0.012	74	71441	2.00	2.32	
179 Benzo[a]anthracene	228	12.766	12.771	-0.005	98	195836	1.00	1.02	
180 Chrysene	228	12.819	12.824	-0.005	97	195402	1.00	1.03	
183 Di-n-octyl phthalate	149	13.625	13.630	-0.005	99	161608	1.00	0.9732	
185 Benzo[b]fluoranthene	252	14.354	14.365	-0.011	97	175414	1.00	1.01	
186 Benzo[k]fluoranthene	252	14.395	14.407	-0.012	99	188402	1.00	1.00	
187 Benzo[a]pyrene	252	14.878	14.889	-0.011	77	158773	1.00	0.9582	
191 Indeno[1,2,3-cd]pyrene	276	16.742	16.754	-0.012	98	165341	1.00	0.99	
192 Dibenz(a,h)anthracene	278	16.760	16.771	-0.011	90	138242	1.00	0.9569	
193 Benzo[g,h,i]perylene	276	17.254	17.265	-0.011	98	150959	1.00	0.9887	
S 219 Methyl Phenols, Total	100				0			2.04	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819004.D

Injection Date: 19-Aug-2022 11:50:58

Instrument ID: A4AG3

Operator ID:

Lims ID: std3 lst1

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

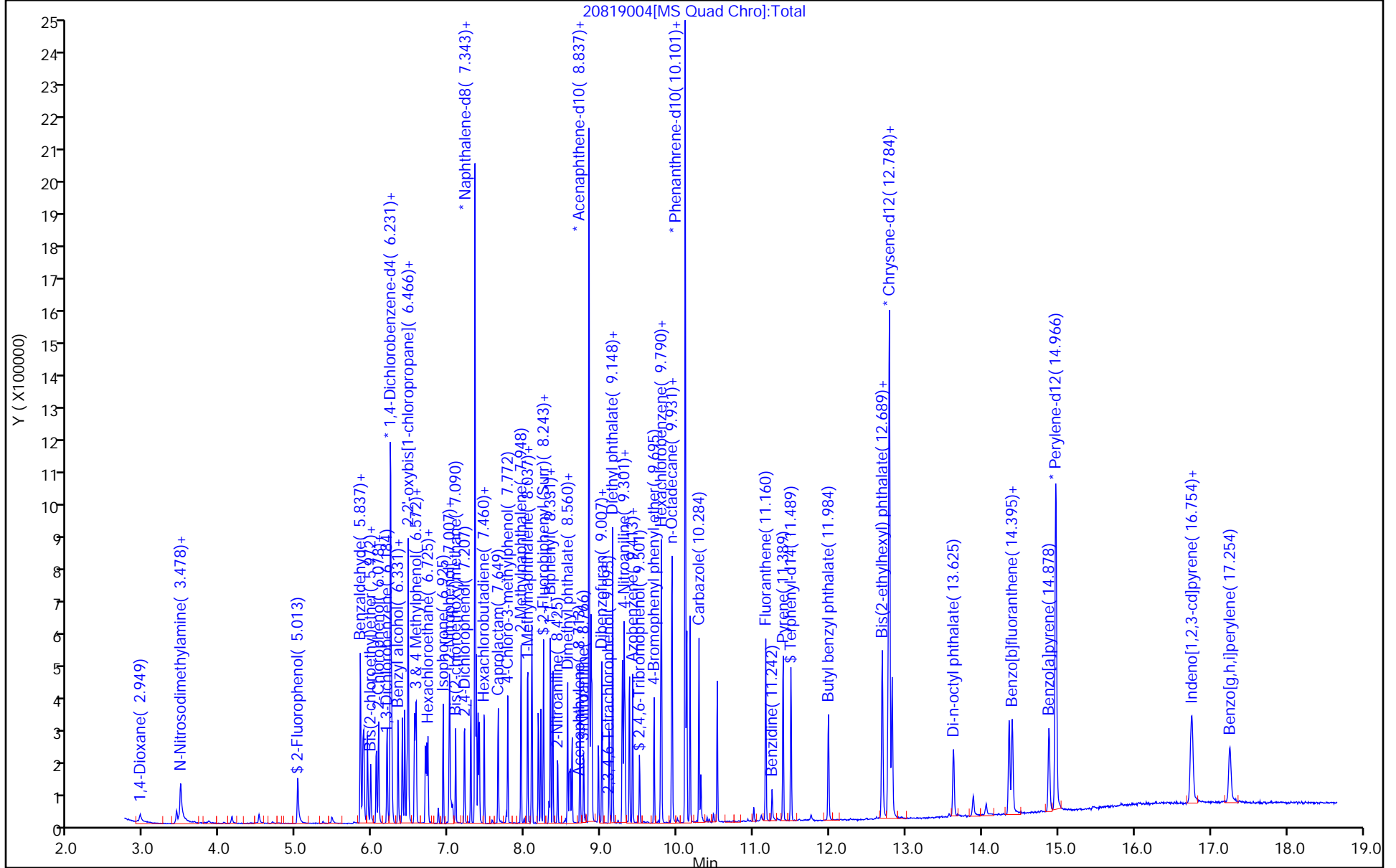
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

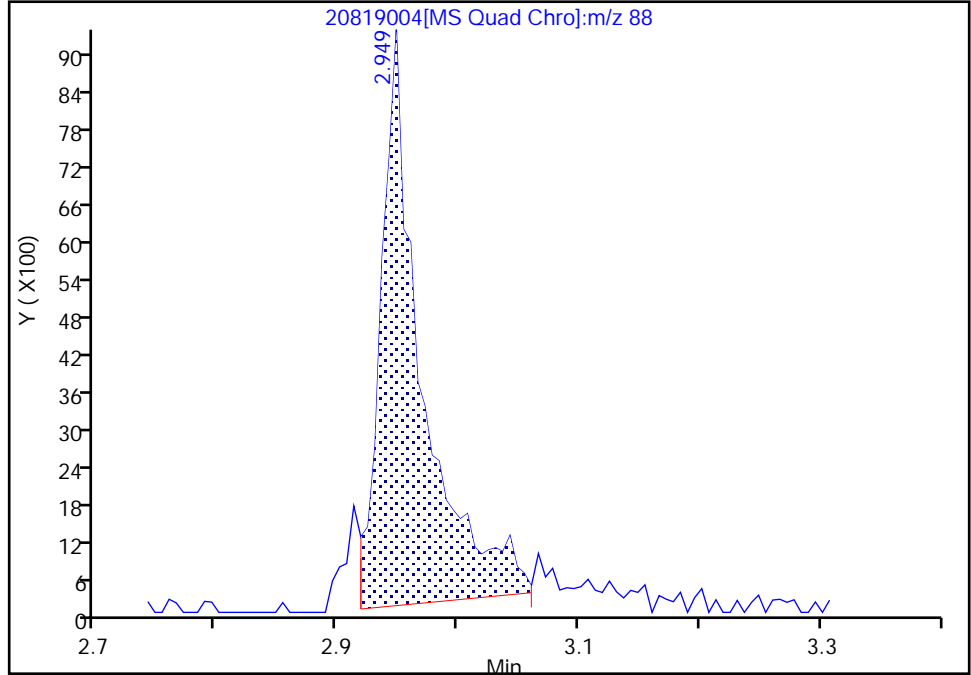
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Injection Date: 19-Aug-2022 11:50:58 Instrument ID: A4AG3
Lims ID: std3 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 um) Detector: MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

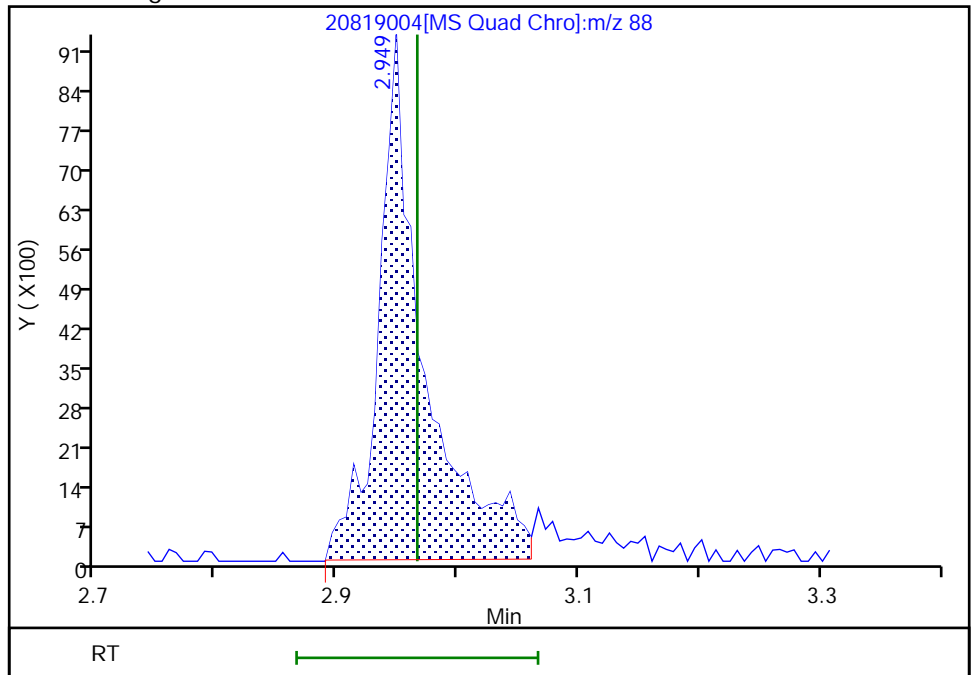
RT: 2.95
Area: 21728
Amount: 0.911031
Amount Units: ng/ul

Processing Integration Results



RT: 2.95
Area: 24363
Amount: 1.001013
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 12:16:21
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

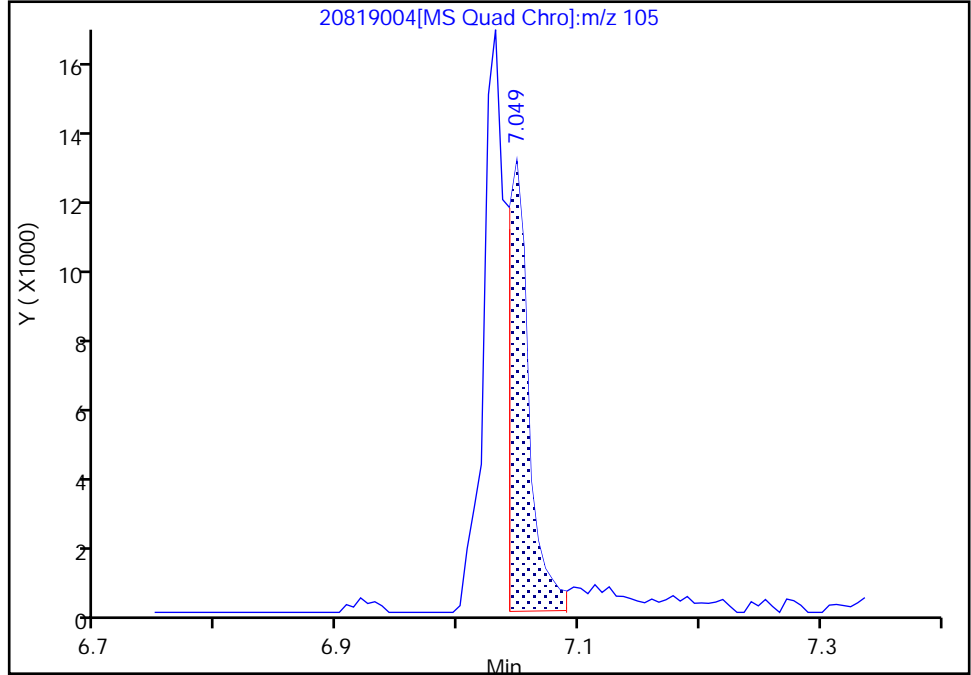
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819004.D
Injection Date: 19-Aug-2022 11:50:58 Instrument ID: A4AG3
Lims ID: std3 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

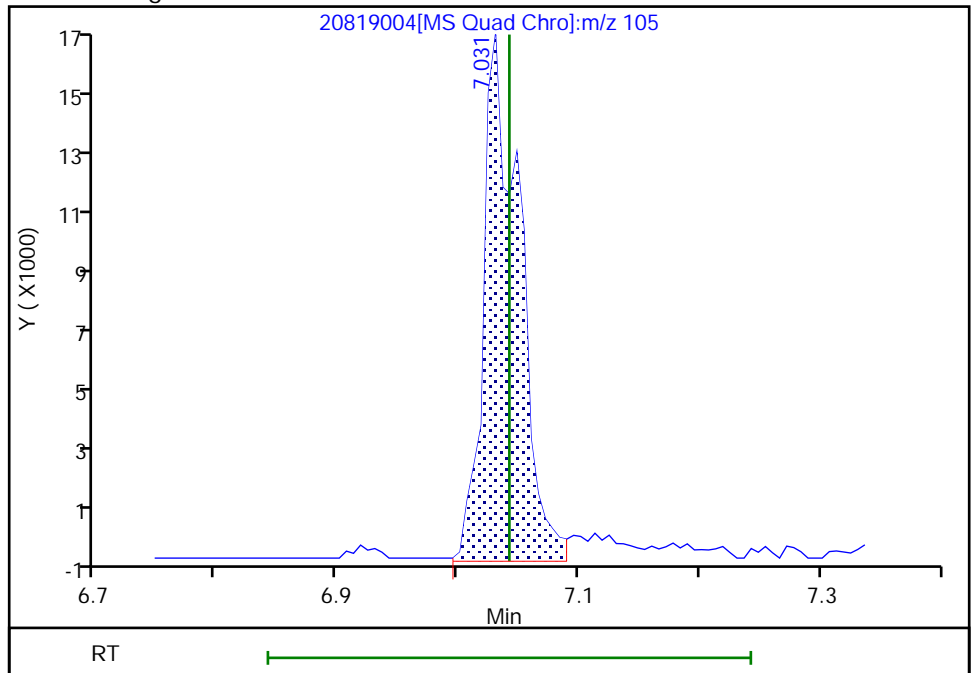
RT: 7.05
Area: 15631
Amount: 0.766651
Amount Units: ng/ul

Processing Integration Results



RT: 7.03
Area: 35074
Amount: 2.407562
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 12:17:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D
 Lims ID: std2 lst1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Aug-2022 12:14:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-005
 Misc. Info.: STD2 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:32 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 12:36:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.231	6.237	-0.005	97	177320	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	649363	4.00	4.00	
* 3 Acenaphthene-d10	164	8.837	8.842	-0.005	93	391235	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.107	-0.006	97	717841	4.00	4.00	
* 5 Chrysene-d12	240	12.783	12.789	-0.006	99	622978	4.00	4.00	
* 6 Perylene-d12	264	14.966	14.977	-0.011	98	543450	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.013	5.019	-0.006	93	24707	0.5000	0.4676	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	30583	0.5000	0.4684	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	90	26629	0.5000	0.4407	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.243	8.242	0.001	100	59340	0.5000	0.4943	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	6539	0.5000	0.4252	
\$ 12 Terphenyl-d14	244	11.489	11.495	-0.006	97	70271	0.5000	0.4671	
13 1,4-Dioxane	88	2.949	2.966	-0.017	91	10494	0.5000	0.4456	
14 N-Nitrosodimethylamine	74	3.425	3.437	-0.012	92	14060	0.5000	0.4501	
15 Pyridine	79	3.478	3.490	-0.012	98	50636	1.00	0.9383	
30 Benzaldehyde	77	5.837	5.842	-0.005	94	48504	1.00	1.02	
31 Phenol	94	5.884	5.884	0.000	98	34098	0.5000	0.4774	
32 Aniline	93	5.931	5.937	-0.006	97	40972	0.5000	0.4848	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	29931	0.5000	0.5177	
36 2-Chlorophenol	128	6.049	6.048	0.001	96	27908	0.5000	0.4855	
37 n-Decane	57	6.078	6.078	0.000	87	28502	0.5000	0.5092	
39 1,3-Dichlorobenzene	146	6.190	6.189	0.001	96	32206	0.5000	0.5030	
40 1,4-Dichlorobenzene	146	6.249	6.248	0.001	93	32496	0.5000	0.5068	
41 Benzyl alcohol	108	6.331	6.336	-0.005	91	17563	0.5000	0.4712	
44 1,2-Dichlorobenzene	146	6.390	6.389	0.001	94	29999	0.5000	0.4949	
45 2-Methylphenol	108	6.419	6.419	0.000	96	25334	0.5000	0.4803	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	89	28440	0.5000	0.5113	
47 Indene	115	6.466	6.466	0.000	91	98901	1.00	1.00	
48 3 & 4 Methylphenol	108	6.549	6.548	0.001	91	27558	0.5000	0.4990	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	84	16776	0.5000	0.4606	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	98	40641	0.5000	0.5109	
54 Hexachloroethane	117	6.690	6.695	-0.005	90	11324	0.5000	0.4599	
55 Nitrobenzene	77	6.725	6.725	0.000	87	28209	0.5000	0.4783	
57 Isophorone	82	6.925	6.925	0.000	99	53893	0.5000	0.4838	
59 2-Nitrophenol	139	7.001	7.007	-0.006	96	11593	0.5000	0.4103	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	96	29646	0.5000	0.4945	
63 Benzoic acid	105		7.042				ND	ND	U
64 Bis(2-chloroethoxy)methane	93	7.090	7.089	0.001	99	33742	0.5000	0.5120	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	93	22437	0.5000	0.4742	
68 1,2,4-Trichlorobenzene	180	7.290	7.289	0.001	93	26652	0.5000	0.5147	
69 Naphthalene	128	7.360	7.360	0.000	96	80170	0.5000	0.4870	
70 4-Chloroaniline	127	7.384	7.383	0.001	95	29986	0.5000	0.4500	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	22688	0.5000	0.4864	
73 Hexachlorobutadiene	225	7.460	7.466	-0.006	96	17125	0.5000	0.5258	
78 Caprolactam	113	7.643	7.660	-0.017	85	14861	1.00	0.8777	
80 4-Chloro-3-methylphenol	107	7.772	7.778	-0.006	96	23773	0.5000	0.4725	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	92	56068	0.5000	0.4865	
83 1-Methylnaphthalene	142	8.037	8.036	0.001	93	51662	0.5000	0.4878	
85 Hexachlorocyclopentadiene	237	8.084	8.089	-0.005	95	14126	0.5000	0.4243	
86 1,2,4,5-Tetrachlorobenzene	216	8.090	8.095	-0.005	97	28192	0.5000	0.5083	
88 2,4,6-Trichlorophenol	196	8.172	8.178	-0.006	93	16361	0.5000	0.4460	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	95	16759	0.5000	0.4399	
92 1,1'-Biphenyl	154	8.331	8.336	-0.005	94	69154	0.5000	0.4980	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	53044	0.5000	0.4962	
99 2-Nitroaniline	65	8.425	8.431	-0.005	80	10968	0.5000	0.5180	
102 Dimethyl phthalate	163	8.560	8.560	0.000	99	59176	0.5000	0.4912	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	89	5624	0.5000	0.5502	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	95	10264	0.5000	0.4961	
105 Acenaphthylene	152	8.719	8.725	-0.006	98	79602	0.5000	0.4747	
106 3-Nitroaniline	138		8.772				ND	ND	U
108 2,4-Dinitrophenol	184		8.860				ND	ND	U
109 Acenaphthene	153	8.866	8.872	-0.006	95	51562	0.5000	0.4931	
110 4-Nitrophenol	109	8.878	8.883	-0.005	93	14434	1.00	0.7615	
111 2,4-Dinitrotoluene	165	8.960	8.966	-0.006	93	12909	0.5000	0.5003	
113 Dibenzofuran	168	9.007	9.013	-0.006	97	76395	0.5000	0.4948	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	72	13885	0.5000	0.4541	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	57943	0.5000	0.4906	
117 Hexadecane	57	9.148	9.154	-0.006	93	32753	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	90	32706	0.5000	0.5197	
125 4-Nitroaniline	138	9.284	9.295	-0.011	78	11157	0.5000	0.4984	
126 Fluorene	166	9.301	9.307	-0.006	96	59993	0.5000	0.4860	
127 4,6-Dinitro-2-methylphenol	198		9.319				ND	ND	U
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	44654	0.5000	0.4913	
129 Diphenylamine	169	9.372	9.372	0.000	96	44654	0.4250	0.4176	
130 Azobenzene	77	9.413	9.413	0.000	99	58266	0.5000	0.4704	
138 4-Bromophenyl phenyl ether	248	9.695	9.701	-0.006	65	18258	0.5000	0.5023	
141 Hexachlorobenzene	284	9.778	9.783	-0.005	92	18837	0.5000	0.4840	
140 Atrazine	200	9.790	9.795	-0.005	95	32609	1.00	0.8936	
142 n-Octadecane	57	9.925	9.930	-0.005	92	31230	0.5000	0.4811	
145 Pentachlorophenol	266	9.931	9.936	-0.005	91	17973	1.00	0.99	
149 Phenanthrene	178	10.125	10.125	0.000	97	88963	0.5000	0.4875	
150 Anthracene	178	10.166	10.172	-0.006	97	83984	0.5000	0.4732	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.284	10.289	-0.005	96	78967	0.5000	0.3120	
154 Di-n-butyl phthalate	149	10.525	10.530	-0.005	100	87795	0.5000	0.4337	
160 Fluoranthene	202	11.160	11.166	-0.006	97	92637	0.5000	0.4600	
161 Benzidine	184	11.242	11.248	-0.006	99	14436	1.00	0.6348	
163 Pyrene	202	11.389	11.395	-0.006	98	93068	0.5000	0.4667	
171 Butyl benzyl phthalate	149	11.984	11.989	-0.005	98	32524	0.5000	0.3894	
176 Bis(2-ethylhexyl) phthalate	149	12.683	12.689	-0.006	96	44629	0.5000	0.3758	
178 3,3'-Dichlorobenzidine	252	12.689	12.701	-0.012	75	29814	1.00	0.99	
179 Benzo[a]anthracene	228	12.766	12.771	-0.005	98	90109	0.5000	0.4823	
180 Chrysene	228	12.819	12.824	-0.005	97	89574	0.5000	0.4853	
183 Di-n-octyl phthalate	149	13.619	13.630	-0.011	98	61724	0.5000	0.5316	
185 Benzo[b]fluoranthene	252	14.354	14.365	-0.011	97	71406	0.5000	0.4373	
186 Benzo[k]fluoranthene	252	14.395	14.407	-0.012	98	85078	0.5000	0.4823	
187 Benzo[a]pyrene	252	14.877	14.889	-0.012	77	65499	0.5000	0.4214	
191 Indeno[1,2,3-cd]pyrene	276	16.736	16.754	-0.018	97	66612	0.5000	0.4257	
192 Dibenz(a,h)anthracene	278	16.760	16.771	-0.011	92	58608	0.5000	0.4325	
193 Benzo[g,h,i]perylene	276	17.248	17.265	-0.017	98	62416	0.5000	0.4358	
S 219 Methyl Phenols, Total	100				0			0.9793	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

SMLIST1 L2 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D

Injection Date: 19-Aug-2022 12:14:00

Instrument ID: A4AG3

Operator ID:

Lims ID: std2 lst1

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

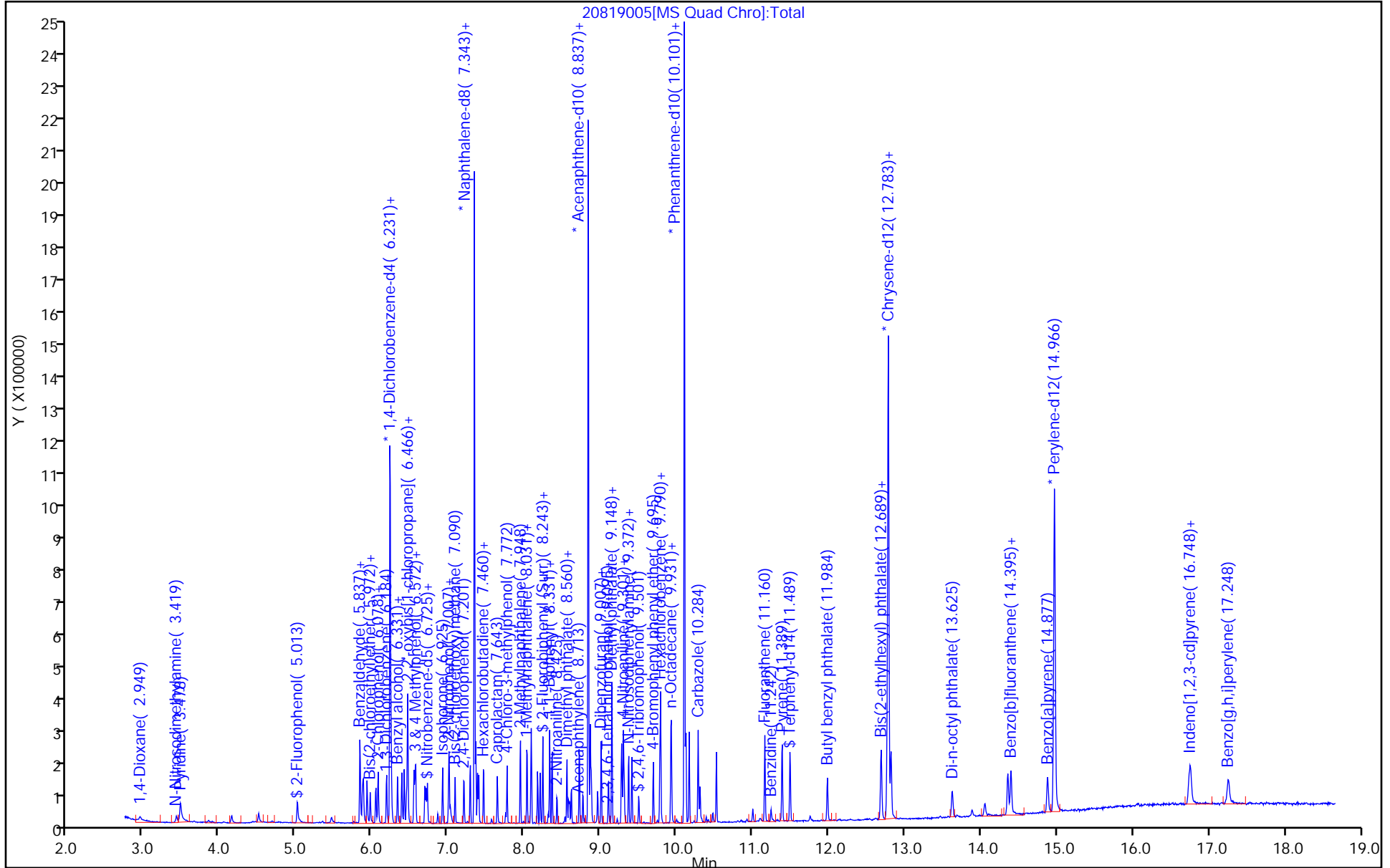
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)

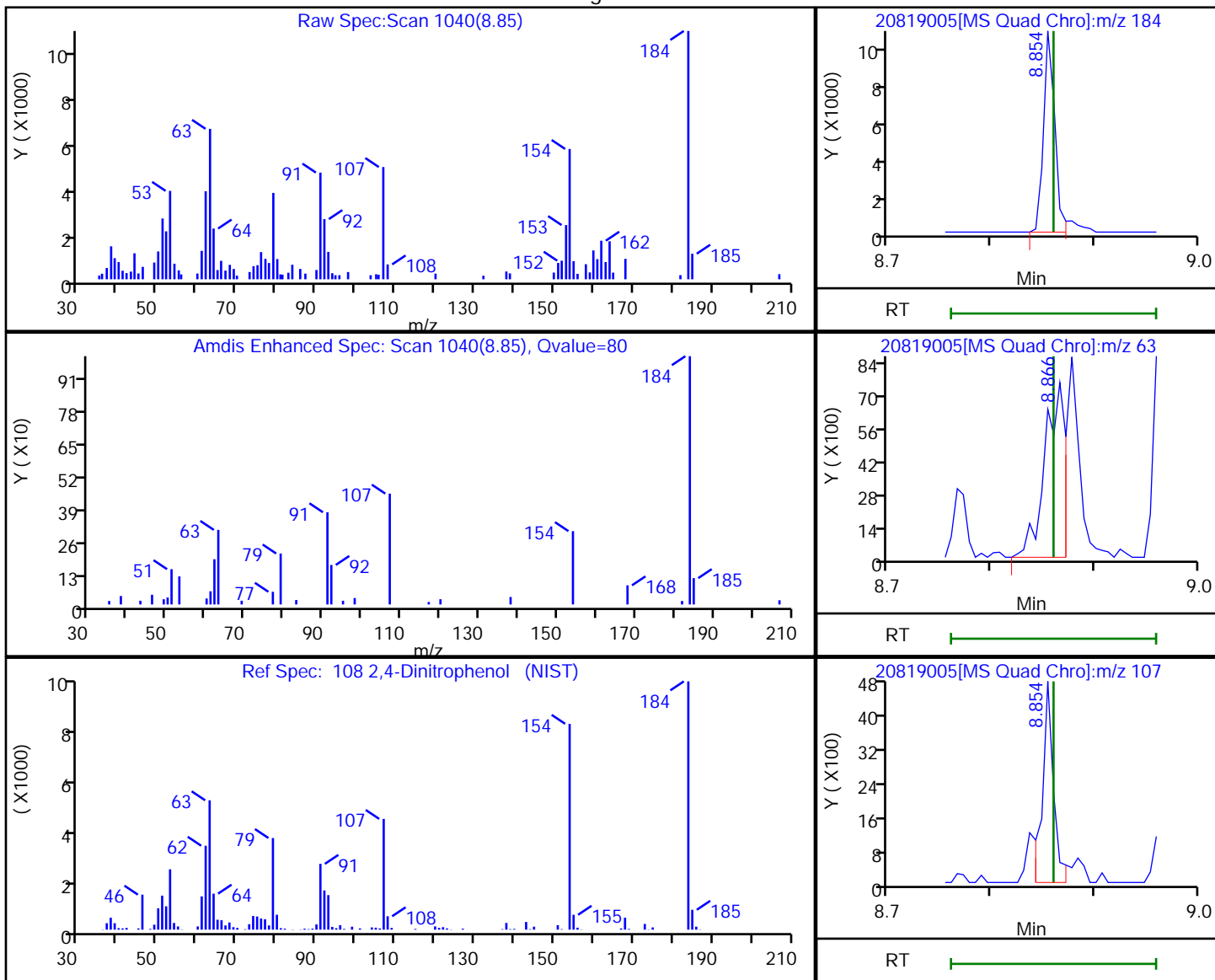


Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D
 Injection Date: 19-Aug-2022 12:14:00 Instrument ID: A4AG3
 Lims ID: std2 lst1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

108 2,4-Dinitrophenol, CAS: 51-28-5

Processing Results



RT	Mass	Response	Amount
8.85	184.00	7965	0.652794
8.87	63.00	10544	
8.85	107.00	3605	

Reviewer: KDZ4, 19-Aug-2022 12:35:43

Audit Action: Marked Compound Undetected

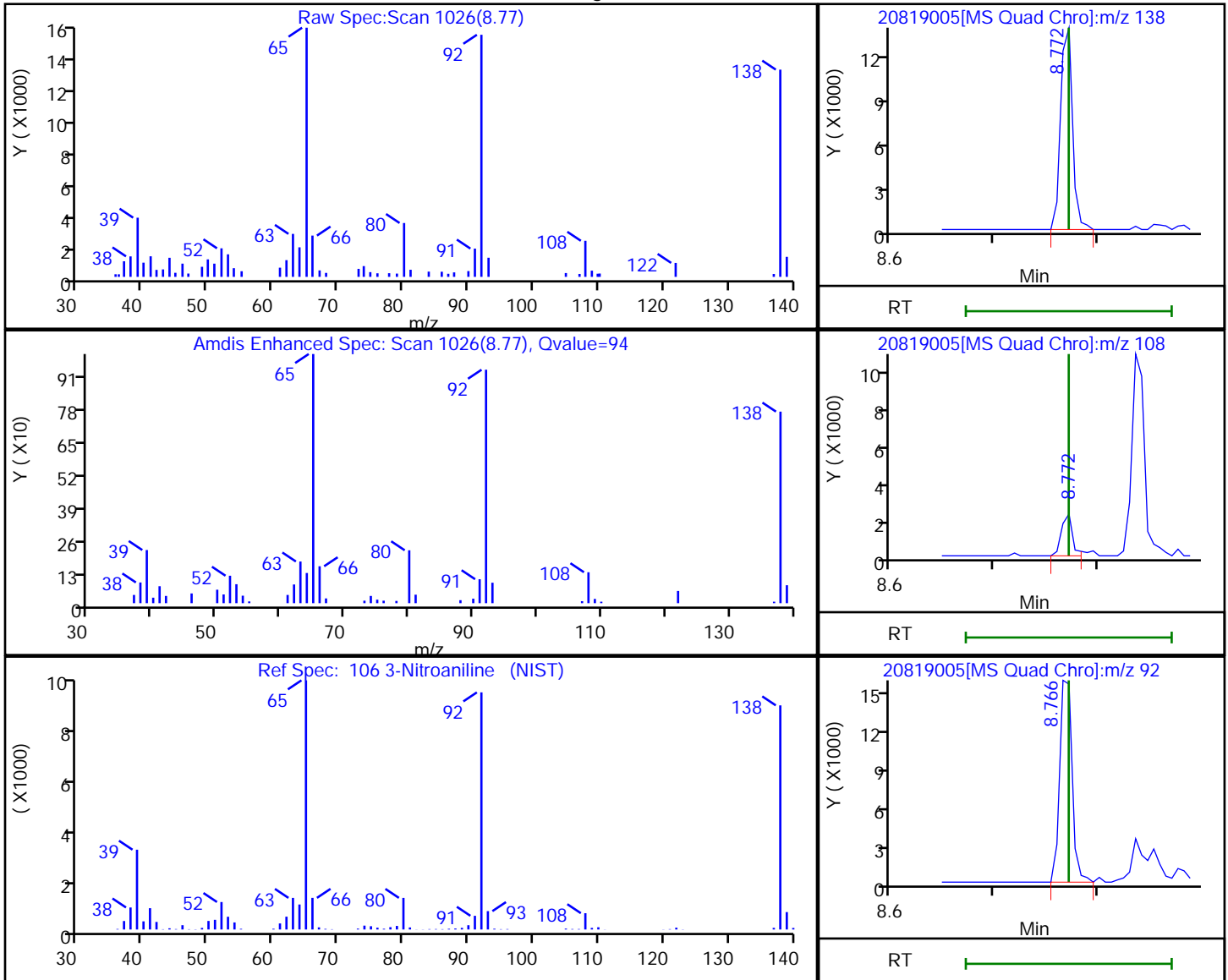
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D
 Injection Date: 19-Aug-2022 12:14:00 Instrument ID: A4AG3
 Lims ID: std2 lst1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

106 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
8.77	138.00	10501	0.482888
8.77	108.00	1696	
8.77	92.00	13091	

Reviewer: KDZ4, 22-Aug-2022 09:51:26

Audit Action: Marked Compound Undetected

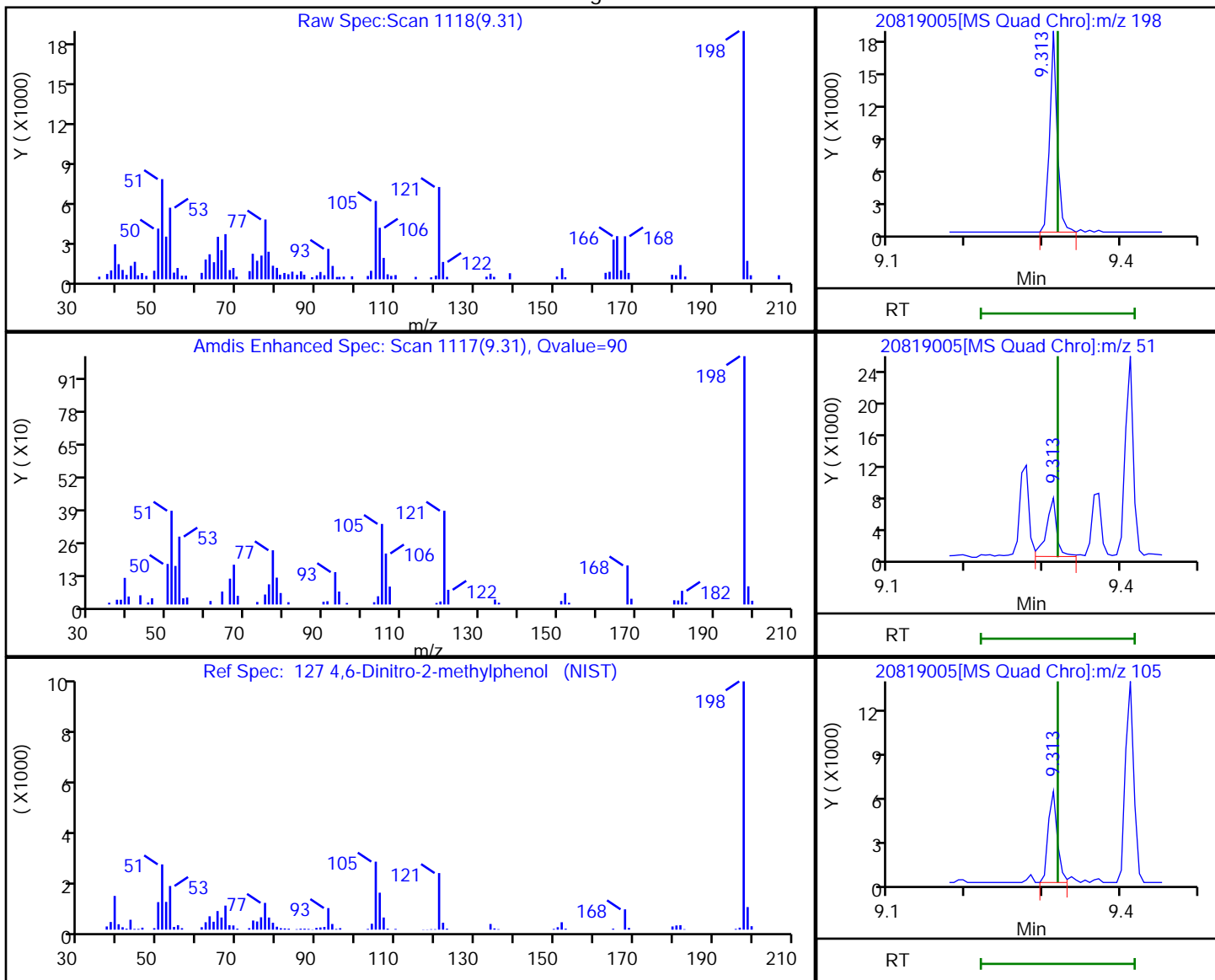
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D
 Injection Date: 19-Aug-2022 12:14:00 Instrument ID: A4AG3
 Lims ID: std2 lst1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

127 4,6-Dinitro-2-methylphenol, CAS: 534-52-1

Processing Results



RT	Mass	Response	Amount
9.31	198.00	12809	0.736011
9.31	51.00	7128	
9.31	105.00	4939	

Reviewer: KDZ4, 19-Aug-2022 12:36:08

Audit Action: Marked Compound Undetected

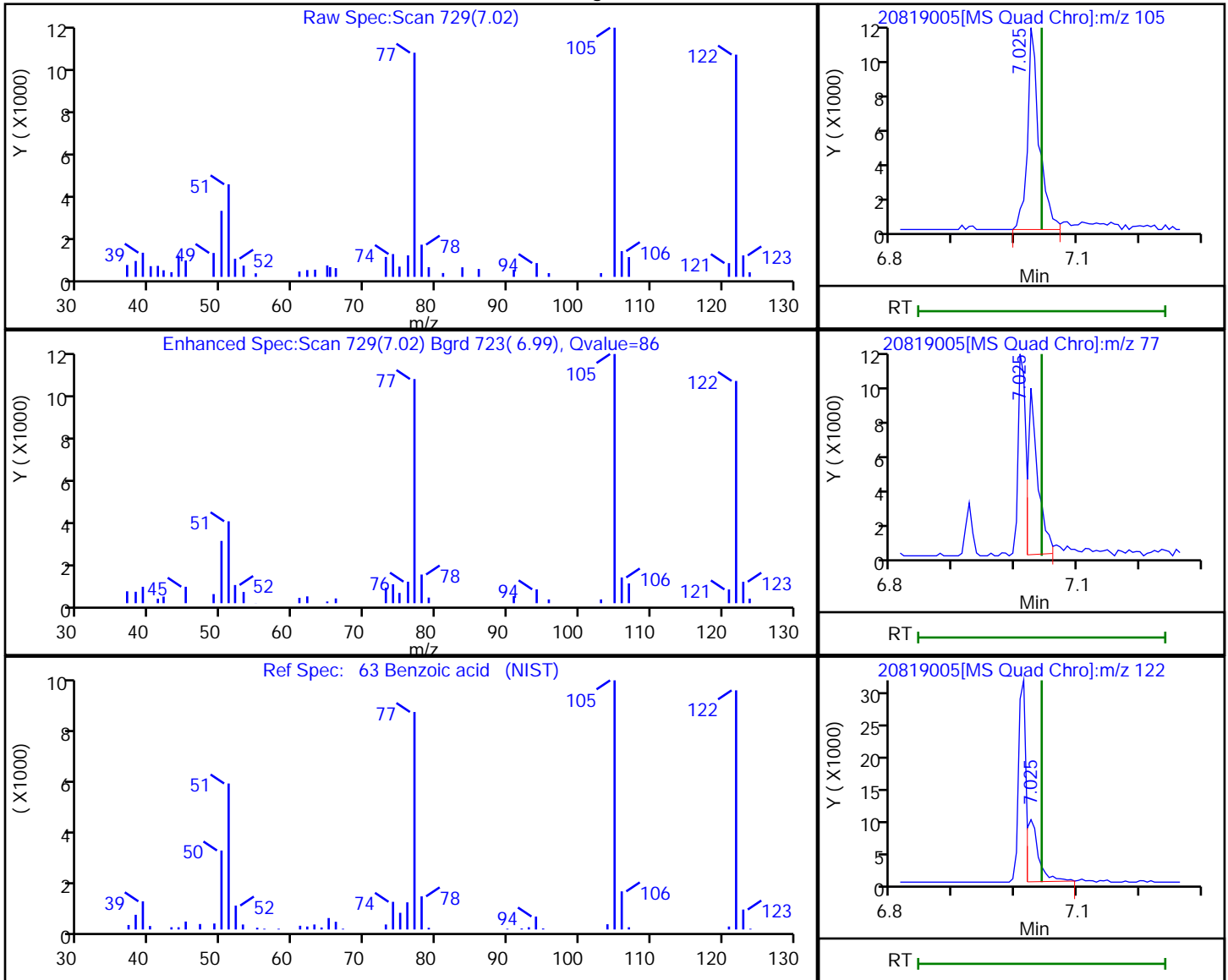
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819005.D
 Injection Date: 19-Aug-2022 12:14:00 Instrument ID: A4AG3
 Lims ID: std2 lst1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

63 Benzoic acid, CAS: 65-85-0

Processing Results



RT	Mass	Response	Amount
7.02	105.00	14534	0.694284
7.02	77.00	10946	
7.02	122.00	13139	

Reviewer: KDZ4, 19-Aug-2022 12:35:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819006.D
 Lims ID: std1 lst1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Aug-2022 12:37:10 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-006
 Misc. Info.: STD1 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:39 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 12:59:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.231	6.237	-0.005	97	174895	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	633319	4.00	4.00	
* 3 Acenaphthene-d10	164	8.837	8.842	-0.005	92	381348	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.107	-0.006	96	705413	4.00	4.00	
* 5 Chrysene-d12	240	12.784	12.789	-0.005	99	607859	4.00	4.00	
* 6 Perylene-d12	264	14.966	14.977	-0.011	98	530724	4.00	4.00	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	88	5824	0.1000	0.0988	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.243	8.242	0.001	98	13500	0.1000	0.1154	
\$ 12 Terphenyl-d14	244	11.489	11.495	-0.006	96	18796	0.1000	0.1280	
15 Pyridine	79	3.478	3.490	-0.012	98	11428	0.2000	0.2147	
30 Benzaldehyde	77	5.837	5.842	-0.005	96	11562	0.2000	0.2460	
69 Naphthalene	128	7.360	7.360	0.000	96	19710	0.1000	0.1228	
78 Caprolactam	113	7.643	7.660	-0.017	84	3354	0.2000	0.2031	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	92	12418	0.1000	0.1105	
83 1-Methylnaphthalene	142	8.031	8.036	-0.005	92	11872	0.1000	0.1149	
92 1,1'-Biphenyl	154	8.331	8.336	-0.005	95	15985	0.1000	0.1181	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	11788	0.1000	0.1131	
105 Acenaphthylene	152	8.719	8.725	-0.006	97	17360	0.1000	0.1062	
109 Acenaphthene	153	8.866	8.872	-0.006	90	11191	0.1000	0.1098	
113 Dibenzofuran	168	9.007	9.013	-0.006	96	17371	0.1000	0.1154	
126 Fluorene	166	9.301	9.307	-0.006	96	13405	0.1000	0.1114	
141 Hexachlorobenzene	284	9.784	9.783	0.001	85	3935	0.1000	0.1029	
140 Atrazine	200	9.790	9.795	-0.005	93	8152	0.2000	0.2273	
149 Phenanthrene	178	10.119	10.125	-0.006	95	21395	0.1000	0.1193	
150 Anthracene	178	10.166	10.172	-0.006	97	18440	0.1000	0.1057	
160 Fluoranthene	202	11.160	11.166	-0.006	97	21747	0.1000	0.1099	
163 Pyrene	202	11.389	11.395	-0.006	97	22327	0.1000	0.1148	
179 Benzo[a]anthracene	228	12.766	12.771	-0.005	96	20169	0.1000	0.1106	
180 Chrysene	228	12.819	12.824	-0.005	97	21033	0.1000	0.1168	
185 Benzo[b]fluoranthene	252	14.354	14.365	-0.011	97	16117	0.1000	0.1011	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
186 Benzo[k]fluoranthene	252	14.395	14.407	-0.012	98	17837	0.1000	0.1036	
187 Benzo[a]pyrene	252	14.872	14.889	-0.017	77	14365	0.1000	0.0946	
191 Indeno[1,2,3-cd]pyrene	276	16.742	16.754	-0.012	90	13476	0.1000	0.0882	
192 Dibenz(a,h)anthracene	278	16.760	16.771	-0.011	87	11930	0.1000	0.0902	
193 Benzo[g,h,i]perylene	276	17.248	17.265	-0.017	99	14670	0.1000	0.1049	

QC Flag Legend

Processing Flags

Reagents:

SMLIST1 L1+ W_00013

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819006.D

Injection Date: 19-Aug-2022 12:37:10

Instrument ID: A4AG3

Operator ID:

Lims ID: std1 lst1

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

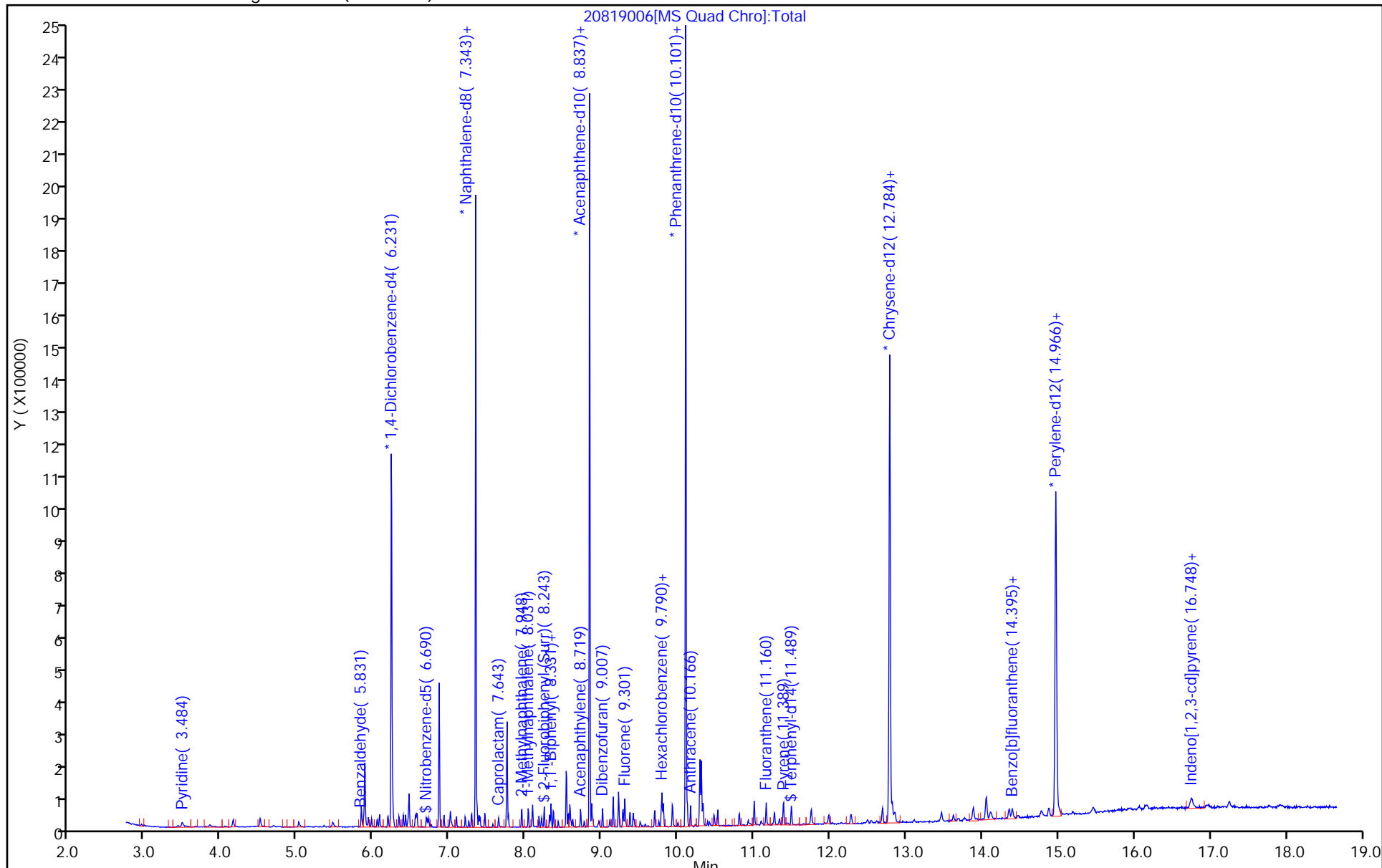
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819007.D
 Lims ID: std6 lst1
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 19-Aug-2022 13:00:16 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-007
 Misc. Info.: STD6 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:42 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 13:25:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.000	95	170971	4.00	4.00	
* 2 Naphthalene-d8	136	7.342	7.342	0.000	100	625272	4.00	4.00	
* 3 Acenaphthene-d10	164	8.842	8.842	0.000	92	378864	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.101	0.000	96	652888	4.00	4.00	
* 5 Chrysene-d12	240	12.783	12.783	0.000	98	601525	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	98	549181	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.013	5.013	0.000	92	522690	10.0	10.3	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	645252	10.0	10.2	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	89	614290	10.0	10.6	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.242	8.242	0.000	100	1123821	10.0	9.67	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	144653	10.0	9.71	
\$ 12 Terphenyl-d14	244	11.495	11.495	0.000	97	1436818	10.0	9.89	
13 1,4-Dioxane	88	2.943	2.943	0.000	91	234339	10.0	10.3	
14 N-Nitrosodimethylamine	74	3.425	3.425	0.000	92	310163	10.0	10.3	
15 Pyridine	79	3.472	3.472	0.000	98	1035463	20.0	19.9	
30 Benzaldehyde	77	5.837	5.837	0.000	96	883915	20.0	19.2	
31 Phenol	94	5.884	5.884	0.000	98	691176	10.0	10.0	
32 Aniline	93	5.931	5.931	0.000	98	835897	10.0	10.3	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	556126	10.0	9.98	
36 2-Chlorophenol	128	6.048	6.048	0.000	96	553147	10.0	9.98	
37 n-Decane	57	6.078	6.078	0.000	85	541491	10.0	10.0	
39 1,3-Dichlorobenzene	146	6.190	6.190	0.000	96	623842	10.0	10.1	
40 1,4-Dichlorobenzene	146	6.248	6.248	0.000	92	616612	10.0	9.97	
41 Benzyl alcohol	108	6.337	6.337	0.000	92	370225	10.0	10.3	
44 1,2-Dichlorobenzene	146	6.390	6.390	0.000	95	584162	10.0	10.0	
45 2-Methylphenol	108	6.419	6.419	0.000	96	509512	10.0	10.0	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	89	539229	10.0	10.1	
47 Indene	115	6.466	6.466	0.000	90	1900036	20.0	19.9	
48 3 & 4 Methylphenol	108	6.548	6.548	0.000	93	538910	10.0	10.1	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	85	371102	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	97	775244	10.0	10.1	
54 Hexachloroethane	117	6.690	6.690	0.000	92	248274	10.0	10.5	
55 Nitrobenzene	77	6.725	6.725	0.000	86	590517	10.0	10.4	
57 Isophorone	82	6.925	6.925	0.000	99	1068570	10.0	9.96	
59 2-Nitrophenol	139	7.001	7.001	0.000	97	286556	10.0	10.5	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	97	585775	10.0	10.1	
63 Benzoic acid	105	7.066	7.066	0.000	89	593865	20.0	18.7	Ma
64 Bis(2-chloroethoxy)methane	93	7.089	7.089	0.000	98	635856	10.0	10.0	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	95	461882	10.0	10.1	
68 1,2,4-Trichlorobenzene	180	7.289	7.289	0.000	94	494154	10.0	9.91	
69 Naphthalene	128	7.360	7.360	0.000	98	1543285	10.0	9.74	
70 4-Chloroaniline	127	7.384	7.384	0.000	95	665680	10.0	10.4	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	456706	10.0	10.2	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	97	307764	10.0	9.81	
78 Caprolactam	113	7.666	7.666	0.000	84	329666	20.0	20.2	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	95	493614	10.0	10.2	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	93	1094181	10.0	9.86	
83 1-Methylnaphthalene	142	8.037	8.037	0.000	93	994161	10.0	9.75	
85 Hexachlorocyclopentadiene	237	8.089	8.089	0.000	97	332192	10.0	10.3	
86 1,2,4,5-Tetrachlorobenzene	216	8.095	8.095	0.000	98	536664	10.0	10.0	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	93	366430	10.0	10.3	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	95	380404	10.0	10.3	
92 1,1'-Biphenyl	154	8.331	8.331	0.000	95	1296565	10.0	9.64	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	1017336	10.0	9.83	
99 2-Nitroaniline	65	8.431	8.431	0.000	84	301363	10.0	10.1	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	1169141	10.0	10.0	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	88	187520	10.0	9.98	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	95	272778	10.0	9.97	
105 Acenaphthylene	152	8.725	8.725	0.000	98	1604369	10.0	9.88	
106 3-Nitroaniline	138	8.772	8.772	0.000	96	183193	10.0	8.66	
108 2,4-Dinitrophenol	184	8.854	8.854	0.000	86	329741	20.0	19.1	
109 Acenaphthene	153	8.866	8.866	0.000	93	993709	10.0	9.81	
110 4-Nitrophenol	109	8.884	8.884	0.000	90	389806	20.0	21.2	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	94	346933	10.0	9.78	
113 Dibenzofuran	168	9.013	9.013	0.000	96	1467075	10.0	9.81	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	72	298518	10.0	10.1	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	1084260	10.0	9.48	
117 Hexadecane	57	9.154	9.154	0.000	93	643138	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	91	605048	10.0	9.93	
125 4-Nitroaniline	138	9.295	9.295	0.000	82	216153	10.0	9.97	
126 Fluorene	166	9.301	9.301	0.000	95	1185524	10.0	9.92	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	90	424526	20.0	20.2	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	845649	10.0	10.2	
129 Diphenylamine	169	9.372	9.372	0.000	96	845649	8.50	8.69	
130 Azobenzene	77	9.413	9.413	0.000	99	1172072	10.0	10.4	
138 4-Bromophenyl phenyl ether	248	9.695	9.695	0.000	64	343660	10.0	10.4	
141 Hexachlorobenzene	284	9.783	9.783	0.000	94	361900	10.0	10.2	
140 Atrazine	200	9.795	9.795	0.000	95	695826	20.0	21.0	
142 n-Octadecane	57	9.925	9.925	0.000	92	602109	10.0	10.2	
145 Pentachlorophenol	266	9.936	9.936	0.000	93	461248	20.0	19.9	
149 Phenanthrene	178	10.125	10.125	0.000	97	1612592	10.0	9.72	
150 Anthracene	178	10.166	10.166	0.000	97	1596996	10.0	9.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.283	10.283	0.000	95	1126107	10.0	10.5	M
154 Di-n-butyl phthalate	149	10.525	10.525	0.000	100	1979941	10.0	10.8	
160 Fluoranthene	202	11.160	11.160	0.000	97	1902485	10.0	10.4	
161 Benzidine	184	11.242	11.242	0.000	99	443794	20.0	18.9	
163 Pyrene	202	11.389	11.389	0.000	98	1954279	10.0	10.2	
171 Butyl benzyl phthalate	149	11.983	11.983	0.000	98	823926	10.0	10.2	
176 Bis(2-ethylhexyl) phthalate	149	12.683	12.683	0.000	96	1206636	10.0	10.5	
178 3,3'-Dichlorobenzidine	252	12.695	12.695	0.000	75	522866	20.0	18.1	
179 Benzo[a]anthracene	228	12.772	12.772	0.000	98	1773614	10.0	9.83	
180 Chrysene	228	12.824	12.824	0.000	97	1738095	10.0	9.75	
183 Di-n-octyl phthalate	149	13.624	13.624	0.000	99	2000170	10.0	9.95	
185 Benzo[b]fluoranthene	252	14.360	14.360	0.000	97	1690798	10.0	10.2	
186 Benzo[k]fluoranthene	252	14.401	14.401	0.000	99	1833345	10.0	10.3	
187 Benzo[a]pyrene	252	14.883	14.883	0.000	78	1676312	10.0	10.7	
191 Indeno[1,2,3-cd]pyrene	276	16.754	16.754	0.000	99	1688332	10.0	10.7	
192 Dibenz(a,h)anthracene	278	16.765	16.765	0.000	90	1447682	10.0	10.6	
193 Benzo[g,h,i]perylene	276	17.265	17.265	0.000	99	1490114	10.0	10.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SMLIST1 L6 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819007.D

Injection Date: 19-Aug-2022 13:00:16

Instrument ID: A4AG3

Operator ID:

Lims ID: std6 Ist1

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

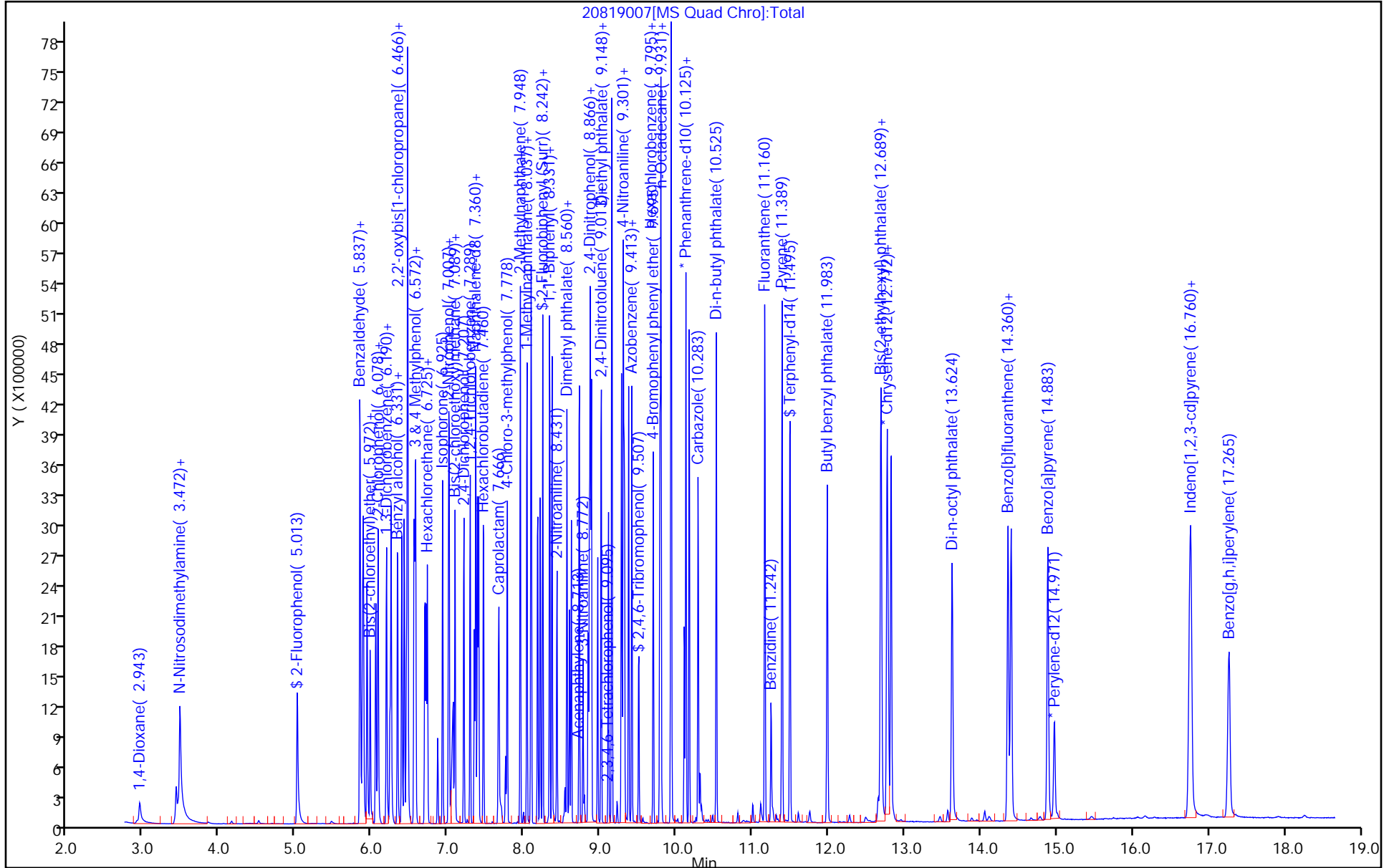
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

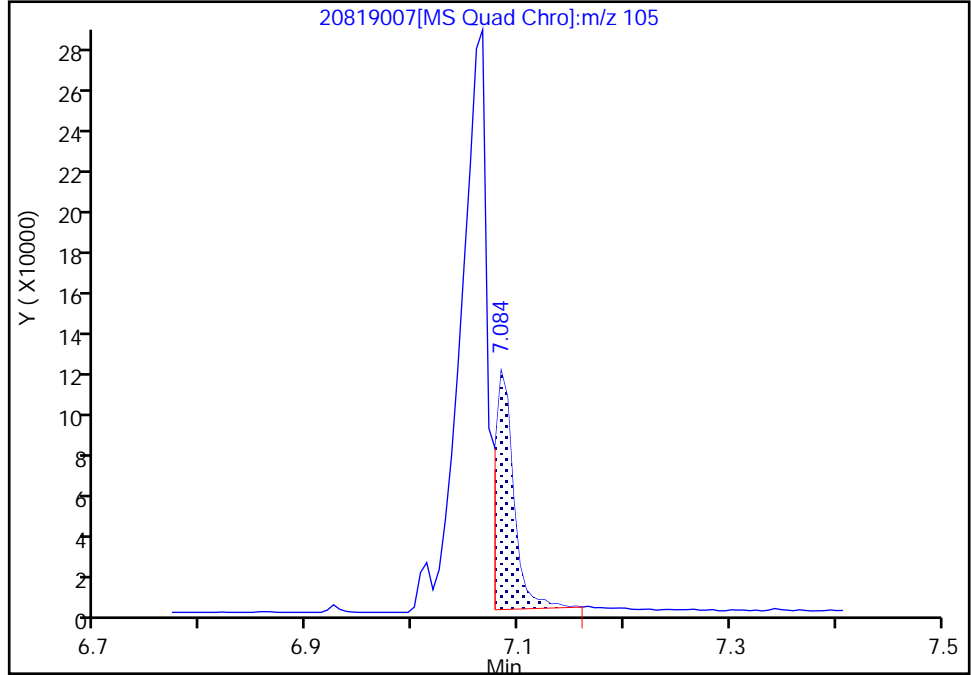
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Injection Date: 19-Aug-2022 13:00:16 Instrument ID: A4AG3
Lims ID: std6 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector) MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

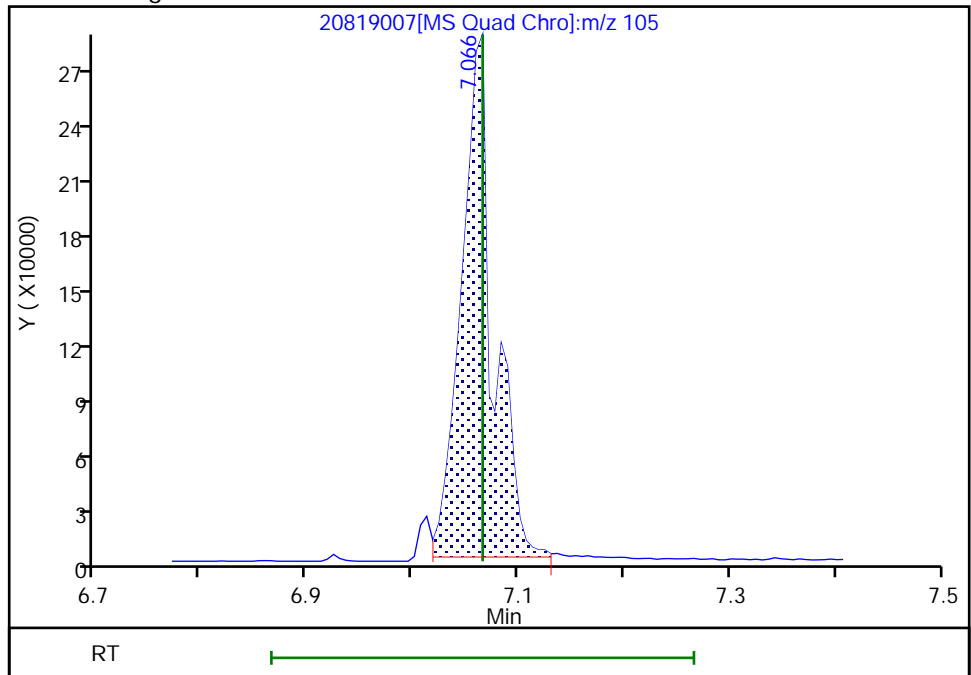
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Area: 142311
Amount: 7.718619
Amount Units: ng/ul

Processing Integration Results



RT: 7.07
Area: 593865
Amount: 18.717030
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:23:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

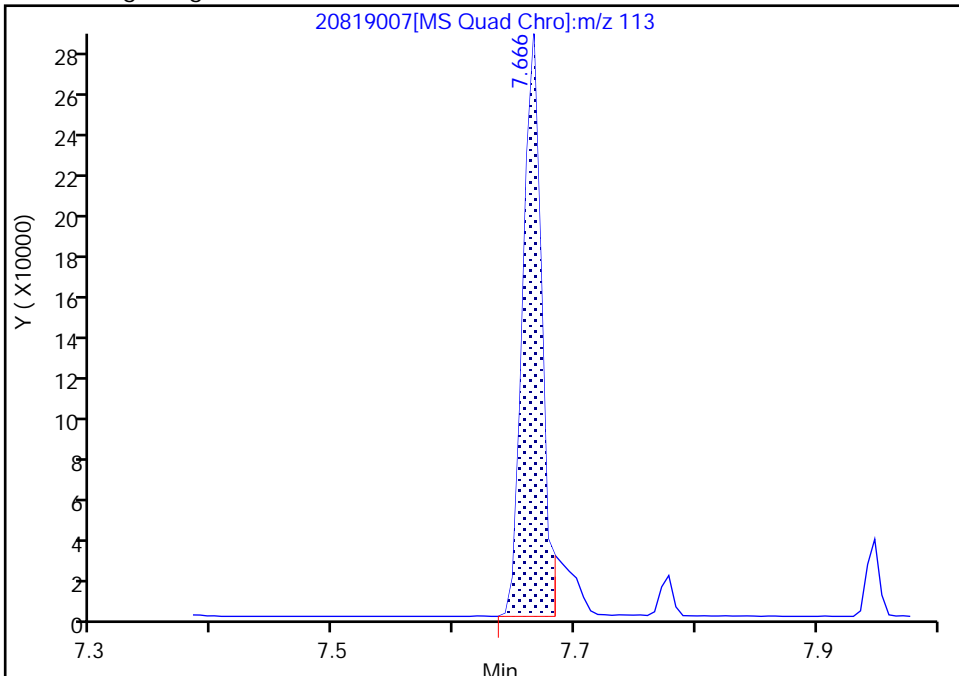
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Injection Date: 19-Aug-2022 13:00:16 Instrument ID: A4AG3
Lims ID: std6 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

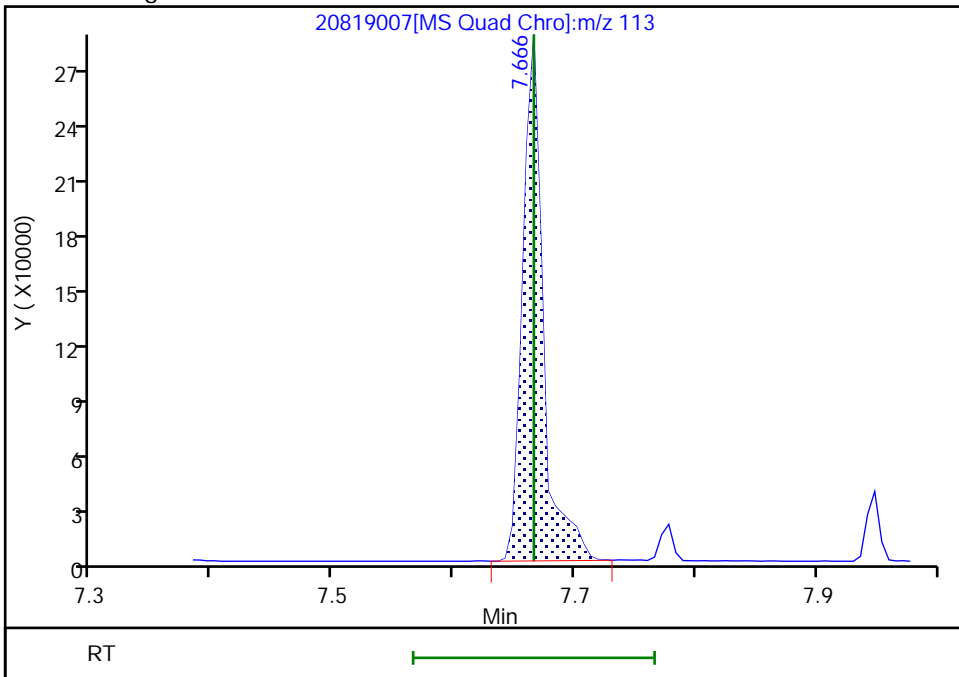
RT: 7.67
Area: 303101
Amount: 18.938464
Amount Units: ng/ul

Processing Integration Results



RT: 7.67
Area: 329666
Amount: 20.220004
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:23:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

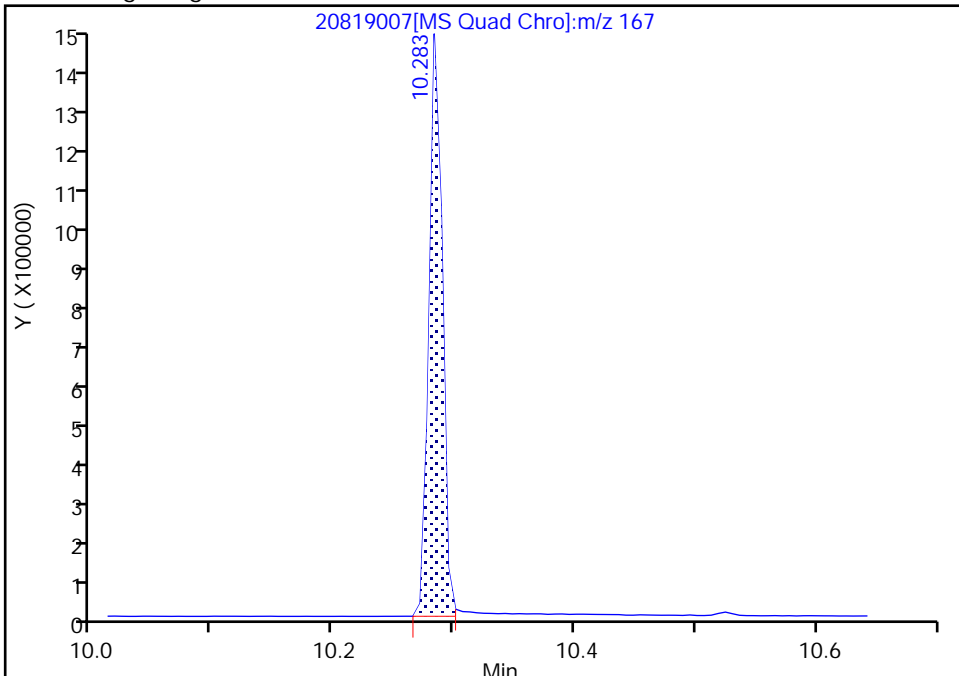
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Injection Date: 19-Aug-2022 13:00:16 Instrument ID: A4AG3
Lims ID: std6 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

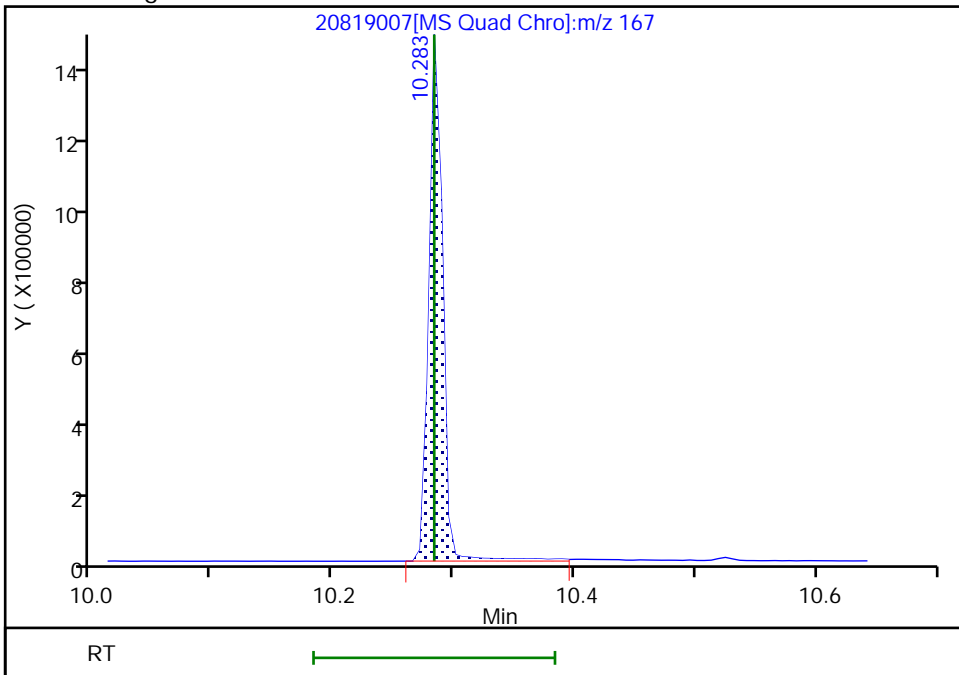
RT: 10.28
Area: 1089820
Amount: 8.169197
Amount Units: ng/ul

Processing Integration Results



RT: 10.28
Area: 1126107
Amount: 10.494205
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:25:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819008.D
 Lims ID: std7 lst1
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Aug-2022 13:23:20 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-000
 Misc. Info.: STD7 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:48 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 13:49:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.000	96	172585	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	639718	4.00	4.00	
* 3 Acenaphthene-d10	164	8.837	8.842	-0.005	92	391583	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.101	0.000	97	672565	4.00	4.00	
* 5 Chrysene-d12	240	12.789	12.783	0.006	99	626809	4.00	4.00	
* 6 Perylene-d12	264	14.972	14.971	0.001	98	565585	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.019	5.013	0.006	92	787970	15.0	15.3	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	975882	15.0	15.4	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	91	930402	15.0	15.6	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.242	8.242	0.000	100	1683961	15.0	14.0	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	230724	15.0	15.0	
\$ 12 Terphenyl-d14	244	11.495	11.495	0.000	97	2188327	15.0	14.5	
13 1,4-Dioxane	88	2.943	2.943	0.000	91	345710	15.0	15.1	M
14 N-Nitrosodimethylamine	74	3.425	3.425	0.000	93	472570	15.0	15.5	
15 Pyridine	79	3.472	3.472	0.000	97	1598551	30.0	30.4	
30 Benzaldehyde	77	5.843	5.837	0.006	94	1332745	30.0	28.7	
31 Phenol	94	5.884	5.884	0.000	98	1054426	15.0	15.2	
32 Aniline	93	5.931	5.931	0.000	98	1247213	15.0	15.2	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	98	827203	15.0	14.7	
36 2-Chlorophenol	128	6.048	6.048	0.000	96	853917	15.0	15.3	
37 n-Decane	57	6.078	6.078	0.000	86	815167	15.0	15.0	
39 1,3-Dichlorobenzene	146	6.190	6.190	0.000	96	929807	15.0	14.9	
40 1,4-Dichlorobenzene	146	6.248	6.248	0.000	92	939457	15.0	15.1	
41 Benzyl alcohol	108	6.337	6.337	0.000	91	560546	15.0	15.5	
44 1,2-Dichlorobenzene	146	6.390	6.390	0.000	96	893911	15.0	15.2	
45 2-Methylphenol	108	6.425	6.419	0.006	95	786342	15.0	15.3	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	89	804103	15.0	14.9	
47 Indene	115	6.466	6.466	0.000	90	2914294	30.0	30.2	
48 3 & 4 Methylphenol	108	6.554	6.548	0.006	92	813444	15.0	15.1	
50 N-Nitrosodi-n-propylamine	70	6.566	6.560	0.006	83	557952	15.0	15.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	98	1162459	15.0	15.0	
54 Hexachloroethane	117	6.690	6.690	0.000	93	368817	15.0	15.4	
55 Nitrobenzene	77	6.725	6.725	0.000	87	881536	15.0	15.2	
57 Isophorone	82	6.925	6.925	0.000	99	1652692	15.0	15.1	
59 2-Nitrophenol	139	7.001	7.001	0.000	98	448734	15.0	16.1	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	97	878518	15.0	14.9	
63 Benzoic acid	105	7.078	7.066	0.012	88	1077018	30.0	30.0	M
64 Bis(2-chloroethoxy)methane	93	7.090	7.089	0.001	98	958005	15.0	14.8	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	95	698294	15.0	15.0	
68 1,2,4-Trichlorobenzene	180	7.290	7.289	0.001	94	754752	15.0	14.8	
69 Naphthalene	128	7.360	7.360	0.000	98	2309990	15.0	14.2	
70 4-Chloroaniline	127	7.384	7.384	0.000	96	990863	15.0	15.1	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	671722	15.0	14.6	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	471953	15.0	14.7	
78 Caprolactam	113	7.672	7.666	0.006	85	508730	30.0	30.5	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	96	752930	15.0	15.2	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	93	1692001	15.0	14.9	
83 1-Methylnaphthalene	142	8.037	8.037	0.001	92	1501671	15.0	14.4	
85 Hexachlorocyclopentadiene	237	8.090	8.089	0.001	97	508302	15.0	15.3	
86 1,2,4,5-Tetrachlorobenzene	216	8.095	8.095	0.000	98	801086	15.0	14.4	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	92	555183	15.0	15.1	
89 2,4,5-Trichlorophenol	196	8.213	8.207	0.006	94	579562	15.0	15.2	
92 1,1'-Biphenyl	154	8.337	8.331	0.006	94	1973226	15.0	14.2	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	96	1527888	15.0	14.3	
99 2-Nitroaniline	65	8.431	8.431	0.000	83	469549	15.0	15.1	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	1739860	15.0	14.4	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	88	289412	15.0	14.8	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	96	419467	15.0	14.8	
105 Acenaphthylene	152	8.725	8.725	0.000	98	2458101	15.0	14.6	
106 3-Nitroaniline	138	8.772	8.772	0.000	94	272427	15.0	12.5	
108 2,4-Dinitrophenol	184	8.860	8.854	0.006	86	533016	30.0	29.2	
109 Acenaphthene	153	8.866	8.866	0.000	93	1505514	15.0	14.4	
110 4-Nitrophenol	109	8.884	8.884	0.000	89	612537	30.0	32.3	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	94	539521	15.0	14.6	
113 Dibenzofuran	168	9.013	9.013	0.000	97	2262345	15.0	14.6	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	73	454404	15.0	14.8	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	1680231	15.0	14.2	
117 Hexadecane	57	9.154	9.154	0.000	94	952033	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	91	934807	15.0	14.8	
125 4-Nitroaniline	138	9.295	9.295	0.000	83	321102	15.0	14.3	
126 Fluorene	166	9.301	9.301	0.000	96	1786898	15.0	14.5	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	89	667251	30.0	30.5	
129 Diphenylamine	169	9.372	9.372	0.000	96	1222707	12.8	12.2	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	99	1222707	15.0	14.4	
130 Azobenzene	77	9.413	9.413	0.000	99	1781970	15.0	15.4	
138 4-Bromophenyl phenyl ether	248	9.695	9.695	0.000	64	505579	15.0	14.8	
141 Hexachlorobenzene	284	9.784	9.783	0.001	94	547486	15.0	15.0	
140 Atrazine	200	9.795	9.795	0.000	95	1037795	30.0	30.4	
142 n-Octadecane	57	9.925	9.925	0.000	92	891500	15.0	14.7	
145 Pentachlorophenol	266	9.937	9.936	0.000	93	720461	30.0	30.0	
149 Phenanthrene	178	10.125	10.125	0.000	97	2510762	15.0	14.7	
150 Anthracene	178	10.166	10.166	0.000	97	2478704	15.0	14.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.284	10.283	0.001	95	1443524	15.0	14.2	M
154 Di-n-butyl phthalate	149	10.525	10.525	0.000	100	3111412	15.0	16.4	
160 Fluoranthene	202	11.160	11.160	0.000	97	2967114	15.0	15.7	
161 Benzidine	184	11.248	11.242	0.006	99	952050	30.0	30.9	
163 Pyrene	202	11.389	11.389	0.000	98	2989209	15.0	14.9	
171 Butyl benzyl phthalate	149	11.983	11.983	0.000	98	1318518	15.0	15.7	
176 Bis(2-ethylhexyl) phthalate	149	12.689	12.683	0.006	95	1910781	15.0	16.0	
178 3,3'-Dichlorobenzidine	252	12.695	12.695	0.000	74	778159	30.0	25.8	
179 Benzo[a]anthracene	228	12.772	12.772	0.000	97	2774056	15.0	14.8	
180 Chrysene	228	12.825	12.824	0.001	97	2676091	15.0	14.4	
183 Di-n-octyl phthalate	149	13.625	13.624	0.001	99	3143947	15.0	15.1	
185 Benzo[b]fluoranthene	252	14.366	14.360	0.006	97	2690243	15.0	15.8	
186 Benzo[k]fluoranthene	252	14.407	14.401	0.006	99	2784840	15.0	15.2	
187 Benzo[a]pyrene	252	14.889	14.883	0.006	76	2572790	15.0	15.9	
191 Indeno[1,2,3-cd]pyrene	276	16.754	16.754	0.000	99	2656128	15.0	16.3	
192 Dibenz(a,h)anthracene	278	16.771	16.765	0.006	91	2276193	15.0	16.1	
193 Benzo[g,h,i]perylene	276	17.271	17.265	0.006	99	2335577	15.0	15.7	
S 219 Methyl Phenols, Total	100				0			30.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L7 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819008.D

Injection Date: 19-Aug-2022 13:23:20

Instrument ID: A4AG3

Operator ID:

Lims ID: std7 lst1

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

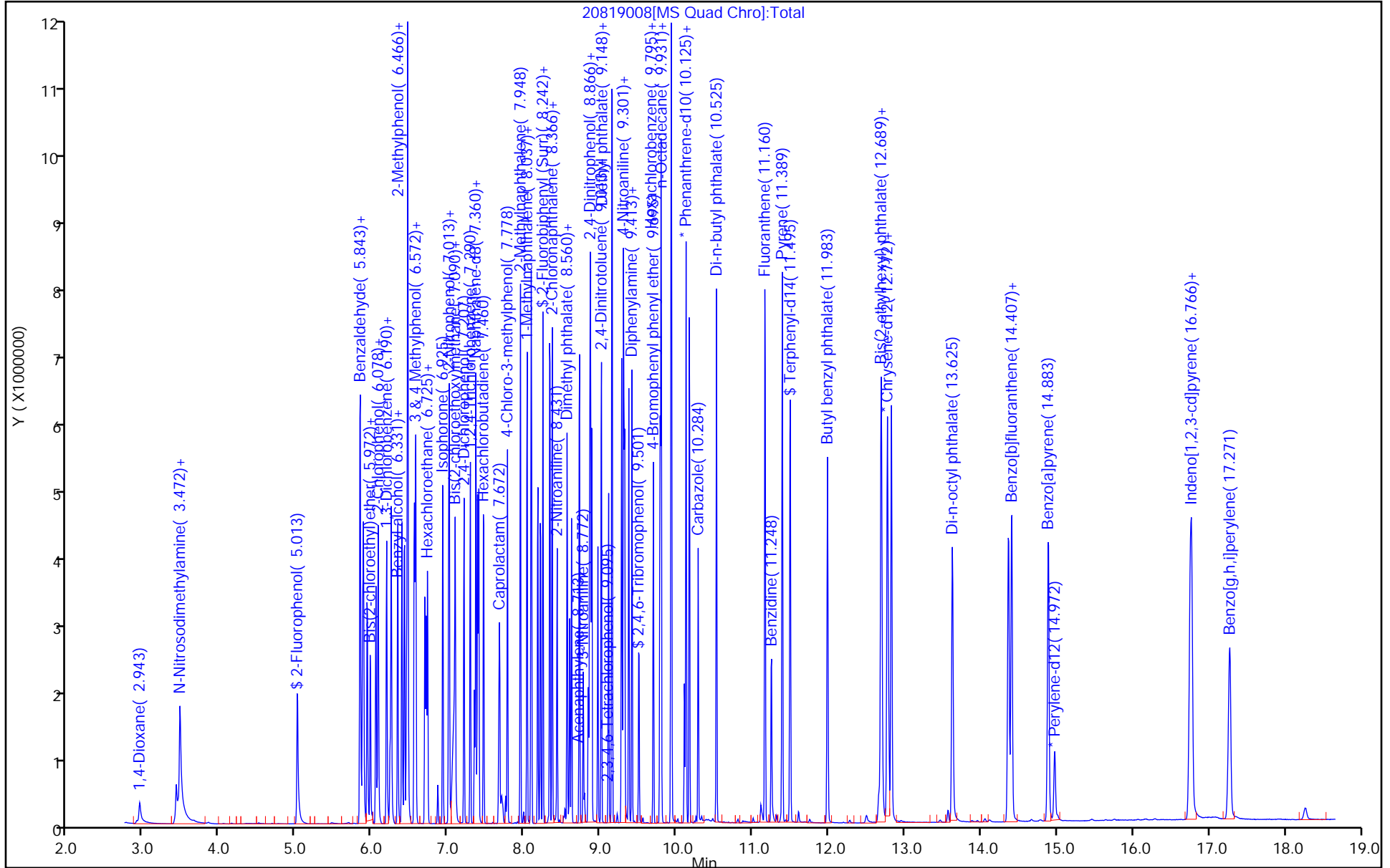
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

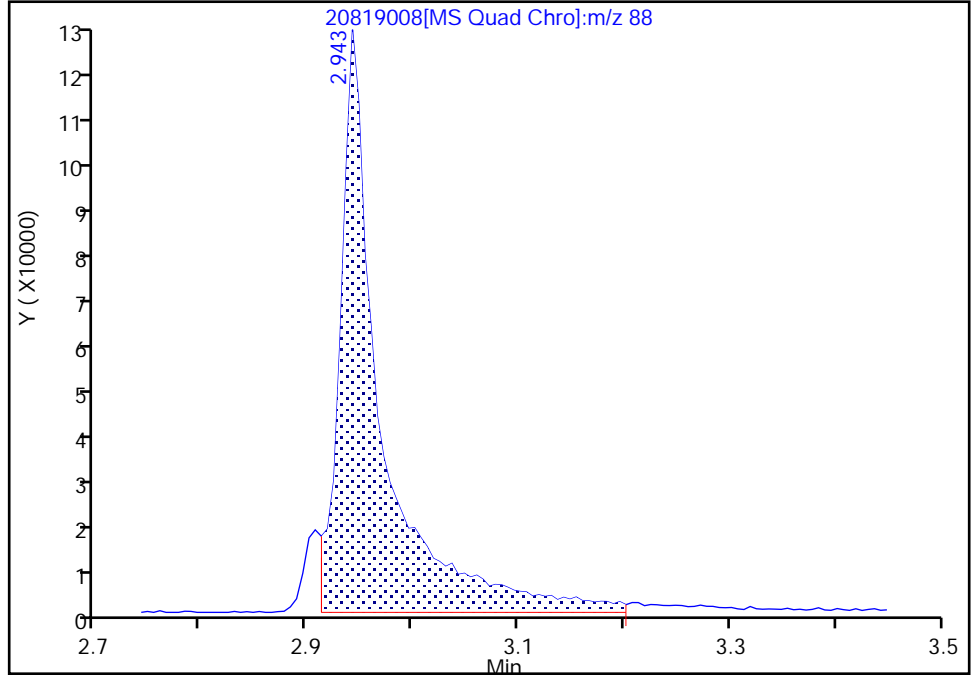
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Injection Date: 19-Aug-2022 13:23:20 Instrument ID: A4AG3
Lims ID: std7 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

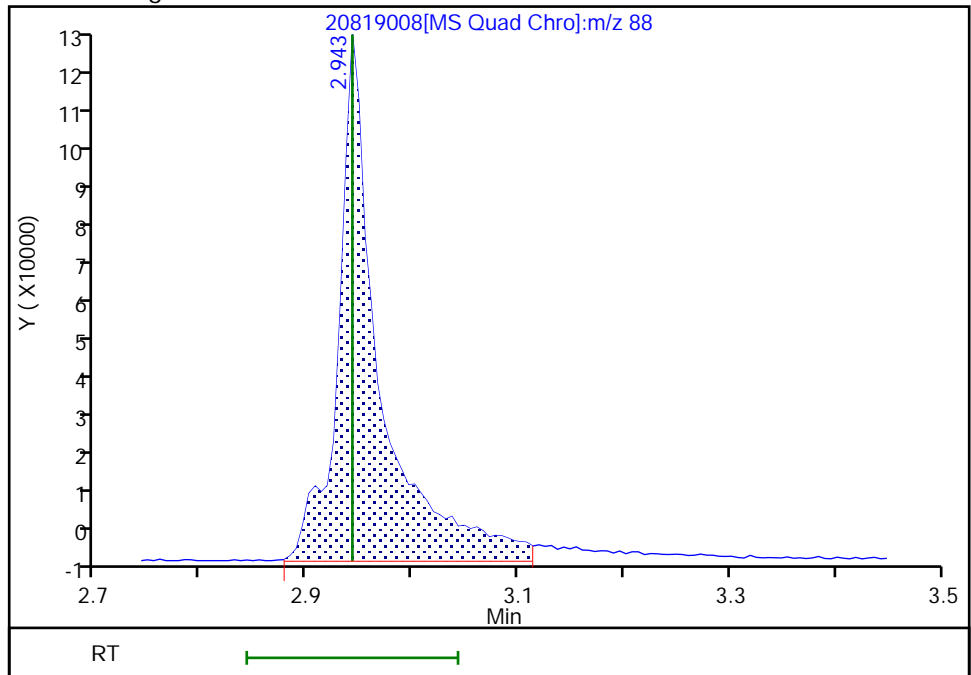
RT: 2.94
Area: 341491
Amount: 14.986796
Amount Units: ng/ul

Processing Integration Results



RT: 2.94
Area: 345710
Amount: 15.081938
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:46:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

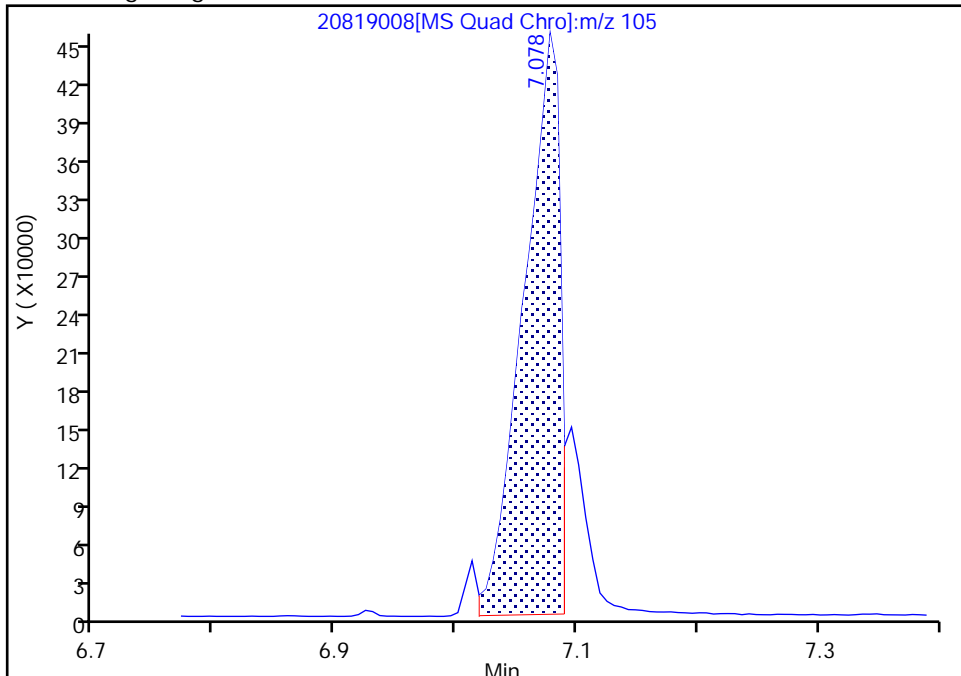
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Injection Date: 19-Aug-2022 13:23:20 Instrument ID: A4AG3
Lims ID: std7 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

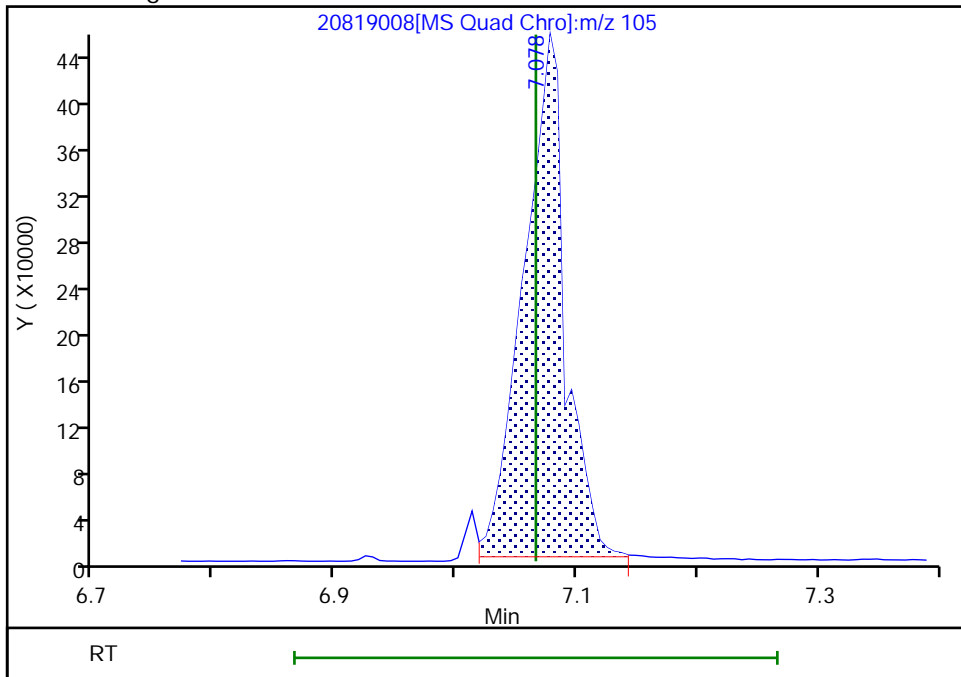
RT: 7.08
Area: 946912
Amount: 30.425139
Amount Units: ng/ul

Processing Integration Results



RT: 7.08
Area: 1077018
Amount: 30.033758
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:47:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

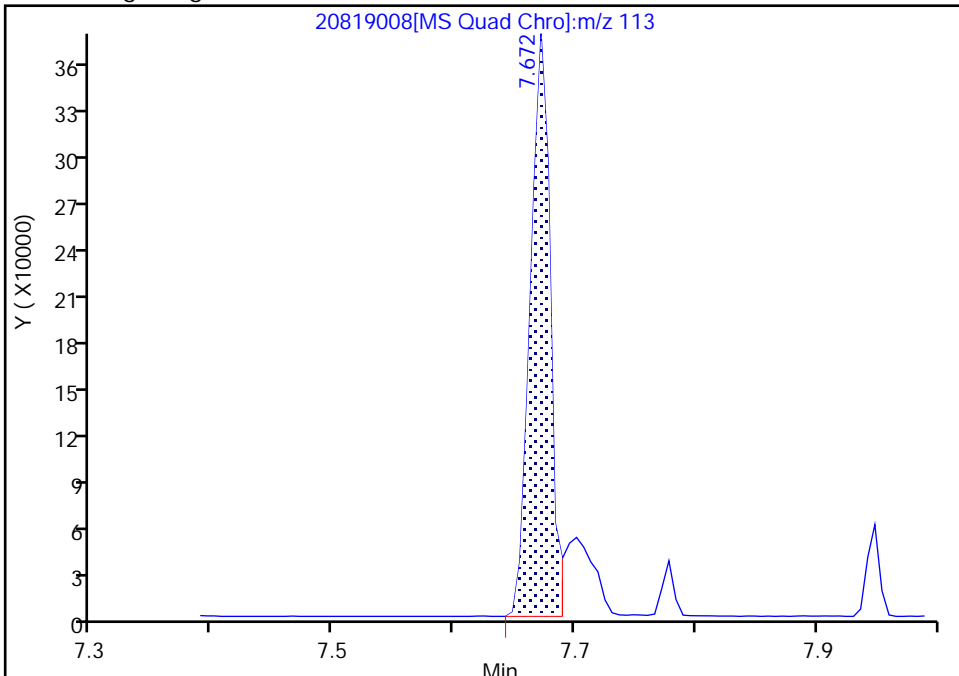
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Injection Date: 19-Aug-2022 13:23:20 Instrument ID: A4AG3
Lims ID: std7 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~mm~~ ID) Detector: MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

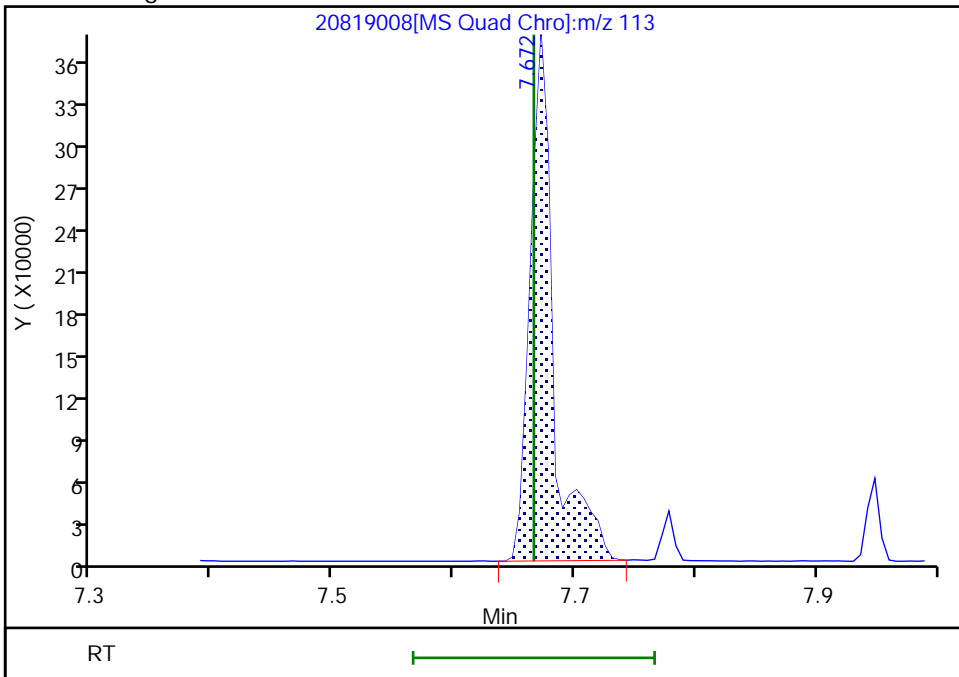
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Amount: 26.559032
Amount Units: ng/ul

Processing Integration Results



RT: 7.67
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Amount: 30.498244
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 13:47:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

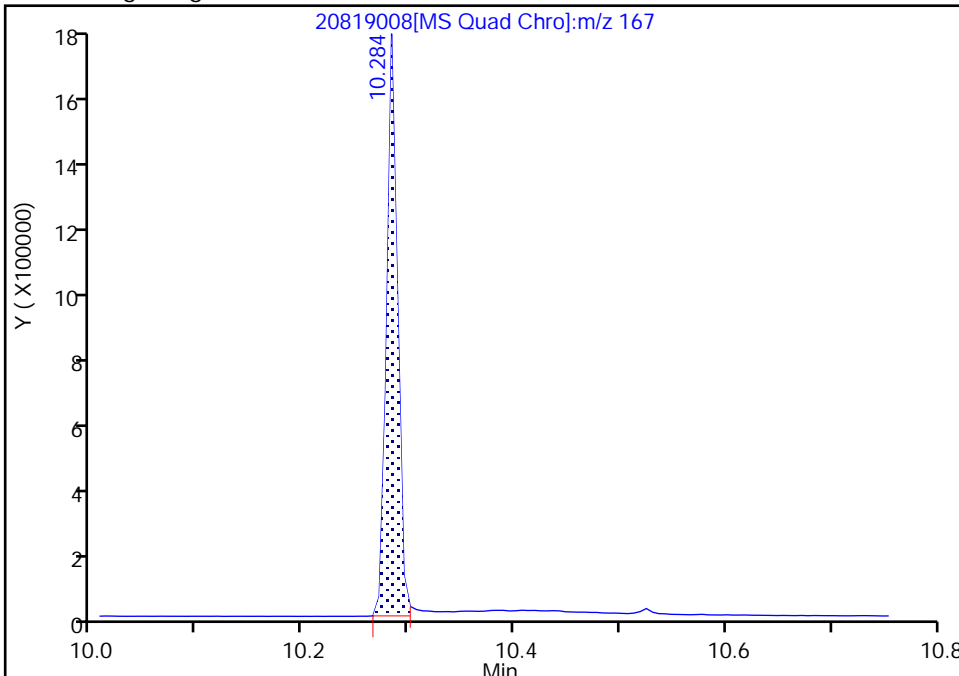
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Injection Date: 19-Aug-2022 13:23:20 Instrument ID: A4AG3
Lims ID: std7 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

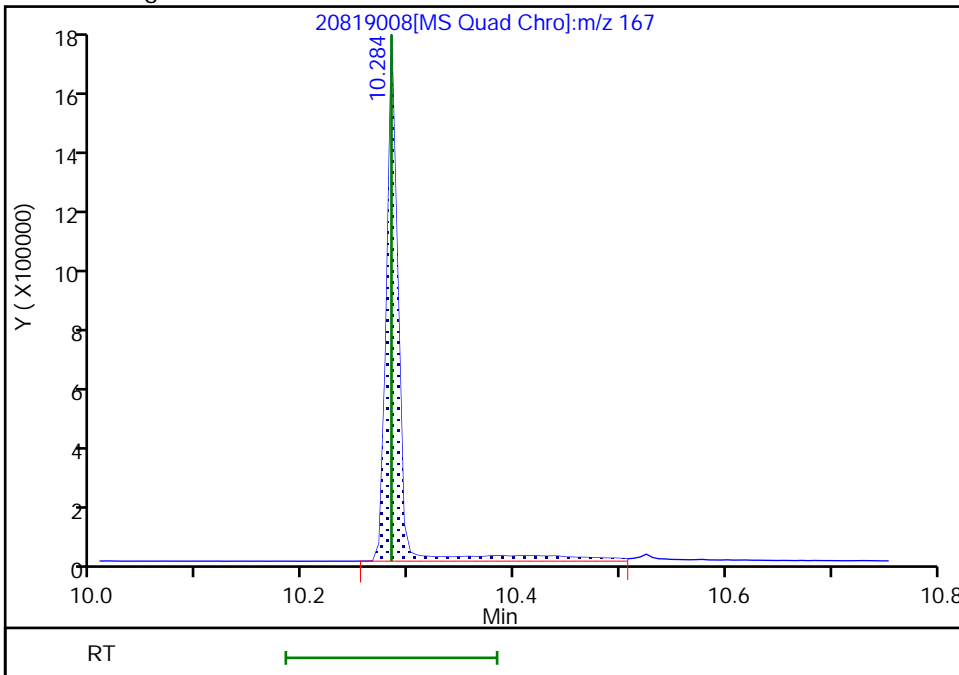
RT: 10.28
Area: 1261388
Amount: 13.559298
Amount Units: ng/ul

Processing Integration Results



RT: 10.28
Area: 1443524
Amount: 14.169272
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 14:12:24
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819009.D
 Lims ID: std8 lst1
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 19-Aug-2022 13:46:30 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-009
 Misc. Info.: STD8 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:54 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 19-Aug-2022 14:11:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.000	96	169917	4.00	4.00	
* 2 Naphthalene-d8	136	7.343	7.342	0.001	100	611418	4.00	4.00	
* 3 Acenaphthene-d10	164	8.843	8.842	0.001	92	358734	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.101	0.000	96	656421	4.00	4.00	
* 5 Chrysene-d12	240	12.789	12.783	0.006	99	587295	4.00	4.00	
* 6 Perylene-d12	264	14.972	14.971	0.001	98	549616	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.019	5.013	0.006	93	991406	20.0	19.6	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	75	1240503	20.0	19.8	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	89	1178165	20.0	20.7	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.243	8.242	0.001	100	2153302	20.0	19.6	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	288480	20.0	20.5	
\$ 12 Terphenyl-d14	244	11.495	11.495	0.000	97	2717070	20.0	19.2	
13 1,4-Dioxane	88	2.943	2.943	0.000	92	467208	20.0	20.7	
14 N-Nitrosodimethylamine	74	3.425	3.425	0.000	93	602643	20.0	20.1	
15 Pyridine	79	3.472	3.472	0.000	98	2079599	40.0	40.2	
30 Benzaldehyde	77	5.843	5.837	0.006	94	1647242	40.0	36.1	
31 Phenol	94	5.884	5.884	0.000	98	1321871	20.0	19.3	
32 Aniline	93	5.937	5.931	0.006	98	1600070	20.0	19.8	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	1068999	20.0	19.3	
36 2-Chlorophenol	128	6.049	6.048	0.001	96	1074397	20.0	19.5	
37 n-Decane	57	6.078	6.078	0.000	85	1032395	20.0	19.2	
39 1,3-Dichlorobenzene	146	6.190	6.190	0.000	96	1171434	20.0	19.1	
40 1,4-Dichlorobenzene	146	6.249	6.248	0.001	94	1207846	20.0	19.7	
41 Benzyl alcohol	108	6.337	6.337	0.000	92	720723	20.0	20.2	
44 1,2-Dichlorobenzene	146	6.390	6.390	0.000	95	1130354	20.0	19.5	
45 2-Methylphenol	108	6.425	6.419	0.006	95	1001028	20.0	19.8	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	89	1021911	20.0	19.2	
47 Indene	115	6.466	6.466	0.000	88	3742399	40.0	39.4	
48 3 & 4 Methylphenol	108	6.554	6.548	0.006	92	1027154	20.0	19.4	
50 N-Nitrosodi-n-propylamine	70	6.566	6.560	0.006	86	697760	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	98	1482599	20.0	19.4	
54 Hexachloroethane	117	6.690	6.690	0.000	93	466693	20.0	19.8	
55 Nitrobenzene	77	6.725	6.725	0.000	86	1113185	20.0	20.0	
57 Isophorone	82	6.925	6.925	0.000	99	2064304	20.0	19.7	
59 2-Nitrophenol	139	7.002	7.001	0.001	98	570176	20.0	21.4	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	96	1089648	20.0	19.3	
63 Benzoic acid	105	7.090	7.066	0.024	87	1540970	40.0	41.5	
64 Bis(2-chloroethoxy)methane	93	7.090	7.089	0.001	98	1198274	20.0	19.3	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	94	897253	20.0	20.1	
68 1,2,4-Trichlorobenzene	180	7.290	7.289	0.001	94	946113	20.0	19.4	
69 Naphthalene	128	7.360	7.360	0.000	98	2963702	20.0	19.1	
70 4-Chloroaniline	127	7.384	7.384	0.000	95	1266024	20.0	20.2	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	97	879335	20.0	20.0	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	596242	20.0	19.4	
78 Caprolactam	113	7.678	7.666	0.012	85	649215	40.0	40.7	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	96	953735	20.0	20.1	
82 2-Methylnaphthalene	142	7.949	7.948	0.001	93	2142954	20.0	19.7	
83 1-Methylnaphthalene	142	8.037	8.037	0.001	94	1931433	20.0	19.4	
85 Hexachlorocyclopentadiene	237	8.090	8.089	0.001	95	667689	20.0	21.9	
86 1,2,4,5-Tetrachlorobenzene	216	8.096	8.095	0.001	98	1022801	20.0	20.1	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	93	686291	20.0	20.4	
89 2,4,5-Trichlorophenol	196	8.213	8.207	0.006	94	722548	20.0	20.7	
92 1,1'-Biphenyl	154	8.337	8.331	0.006	94	2509723	20.0	19.7	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	97	1932455	20.0	19.7	
99 2-Nitroaniline	65	8.431	8.431	0.000	85	573227	20.0	20.0	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	2129325	20.0	19.3	
103 1,3-Dinitrobenzene	168	8.596	8.595	0.001	88	368397	20.0	20.4	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	95	533291	20.0	20.4	
105 Acenaphthylene	152	8.725	8.725	0.000	98	3168774	20.0	20.6	
106 3-Nitroaniline	138	8.778	8.772	0.006	96	350898	20.0	17.5	
108 2,4-Dinitrophenol	184	8.860	8.854	0.006	88	701747	40.0	41.6	
109 Acenaphthene	153	8.872	8.866	0.006	92	1901491	20.0	19.8	
110 4-Nitrophenol	109	8.890	8.884	0.006	89	768047	40.0	44.2	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	93	689546	20.0	20.4	
113 Dibenzofuran	168	9.013	9.013	0.000	97	2819451	20.0	19.9	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	72	588735	20.0	21.0	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	2138606	20.0	19.7	
117 Hexadecane	57	9.154	9.154	0.000	93	1189426	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	90	1166366	20.0	20.2	
125 4-Nitroaniline	138	9.296	9.295	0.001	83	404931	20.0	19.7	
126 Fluorene	166	9.301	9.301	0.000	95	2233564	20.0	19.7	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	89	858930	40.0	40.0	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	1594469	20.0	19.2	
129 Diphenylamine	169	9.372	9.372	0.000	96	1594469	17.0	16.3	
130 Azobenzene	77	9.413	9.413	0.000	99	2157911	20.0	19.1	
138 4-Bromophenyl phenyl ether	248	9.695	9.695	0.000	64	634092	20.0	19.1	
141 Hexachlorobenzene	284	9.784	9.783	0.001	94	674170	20.0	18.9	
140 Atrazine	200	9.801	9.795	0.006	95	1286376	40.0	38.5	
142 n-Octadecane	57	9.925	9.925	0.000	95	1088468	20.0	18.3	
145 Pentachlorophenol	266	9.937	9.936	0.001	92	947280	40.0	40.3	
149 Phenanthrene	178	10.125	10.125	0.000	97	3135900	20.0	18.8	
150 Anthracene	178	10.172	10.166	0.006	97	3204791	20.0	19.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.284	10.283	0.001	95	1710878	20.0	19.5	M
154 Di-n-butyl phthalate	149	10.525	10.525	0.000	100	3843086	20.0	20.8	
160 Fluoranthene	202	11.160	11.160	0.000	98	3694391	20.0	20.1	
161 Benzidine	184	11.248	11.242	0.006	99	1322988	40.0	39.8	
163 Pyrene	202	11.390	11.389	0.001	98	3744587	20.0	19.9	
171 Butyl benzyl phthalate	149	11.984	11.983	0.001	98	1650171	20.0	21.0	
176 Bis(2-ethylhexyl) phthalate	149	12.689	12.683	0.006	96	2429274	20.0	21.7	
178 3,3'-Dichlorobenzidine	252	12.695	12.695	0.000	74	1019299	40.0	36.1	
179 Benzo[a]anthracene	228	12.772	12.772	0.000	98	3446102	20.0	19.6	
180 Chrysene	228	12.825	12.824	0.001	97	3363466	20.0	19.3	
183 Di-n-octyl phthalate	149	13.625	13.624	0.001	99	4029320	20.0	19.8	
185 Benzo[b]fluoranthene	252	14.366	14.360	0.006	97	3368328	20.0	20.4	
186 Benzo[k]fluoranthene	252	14.407	14.401	0.006	99	3544678	20.0	19.9	
187 Benzo[a]pyrene	252	14.889	14.883	0.006	76	3315559	20.0	21.1	
191 Indeno[1,2,3-cd]pyrene	276	16.760	16.754	0.006	98	3355549	20.0	21.2	
192 Dibenz(a,h)anthracene	278	16.772	16.765	0.007	92	2886733	20.0	21.1	
193 Benzo[g,h,i]perylene	276	17.277	17.265	0.012	99	2919274	20.0	20.2	
S 219 Methyl Phenols, Total	100				0			39.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L8 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819009.D

Injection Date: 19-Aug-2022 13:46:30

Instrument ID: A4AG3

Operator ID:

Lims ID: std8 Ist1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

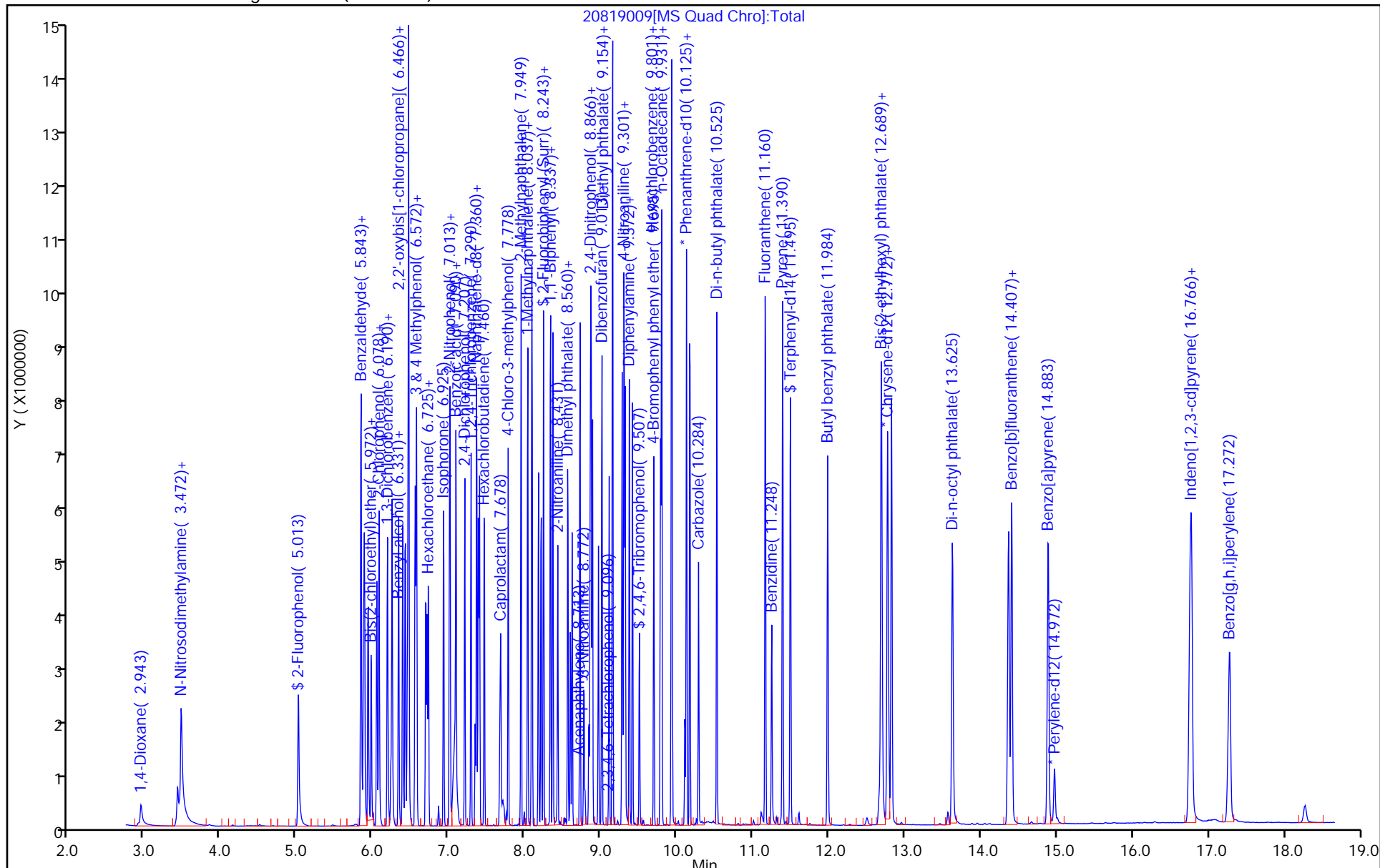
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

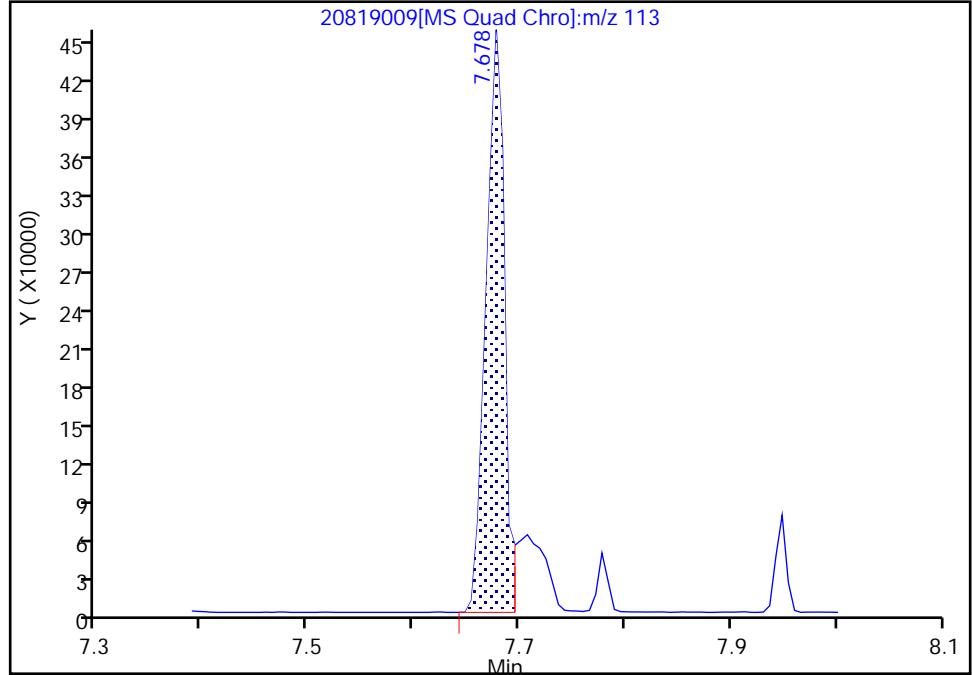
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Injection Date: 19-Aug-2022 13:46:30 Instrument ID: A4AG3
Lims ID: std8 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~) Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

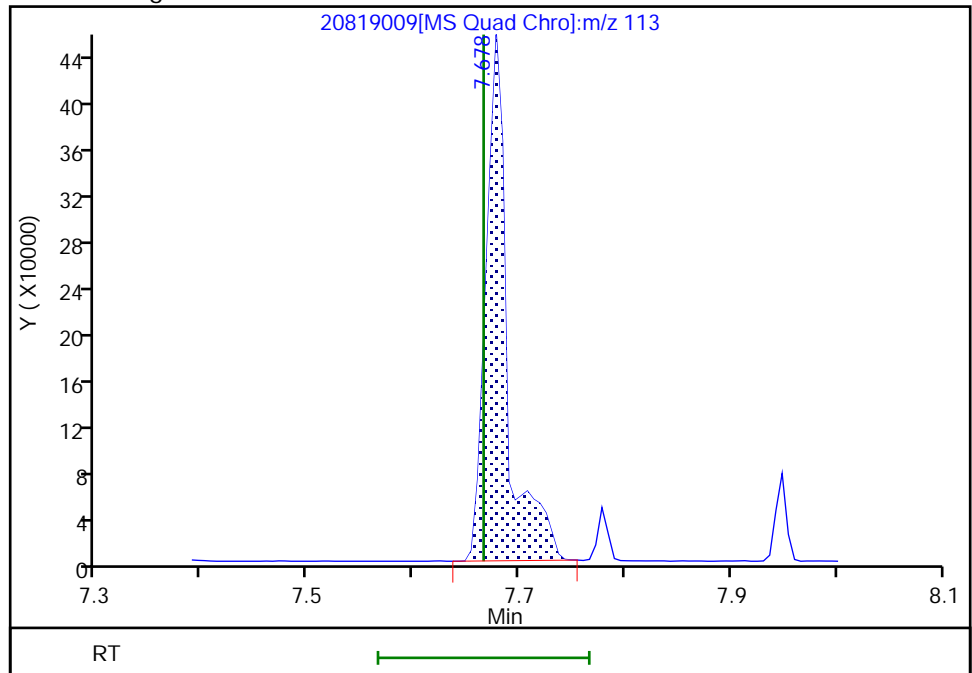
RT: 7.68
Area: 548731
Amount: 35.083968
Amount Units: ng/ul

Processing Integration Results



RT: 7.68
Area: 649215
Amount: 40.721745
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 14:08:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

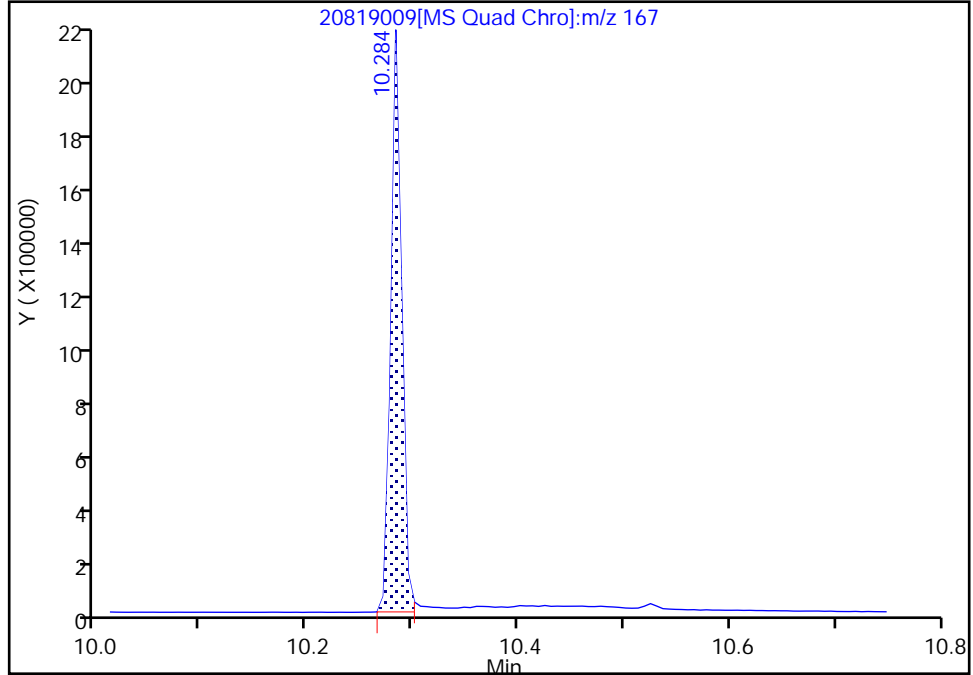
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Injection Date: 19-Aug-2022 13:46:30 Instrument ID: A4AG3
Lims ID: std8 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

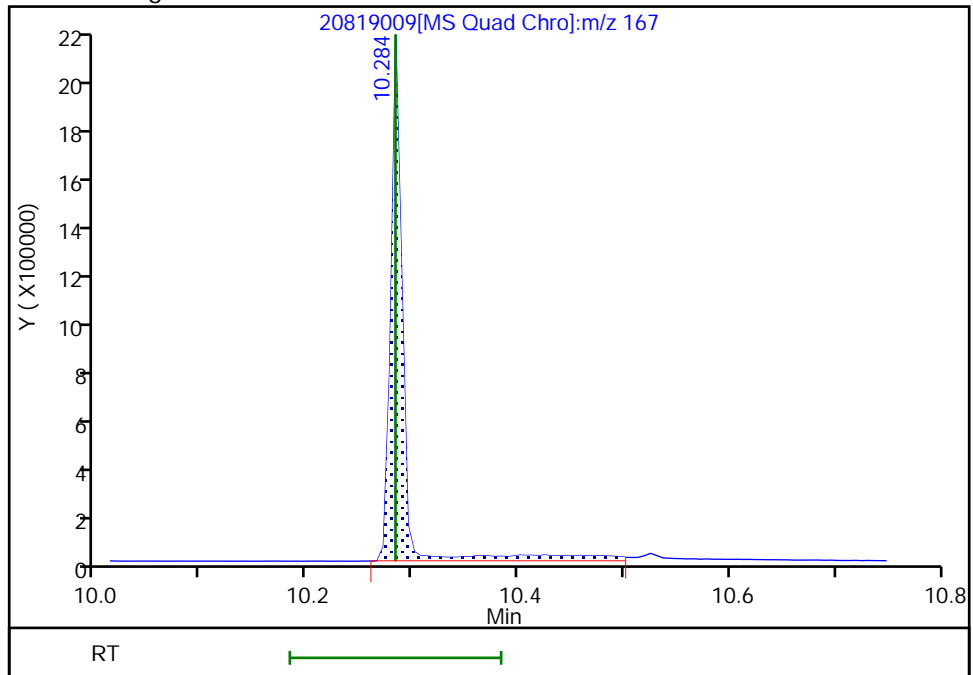
RT: 10.28
Area: 1488743
Amount: NaN
Amount Units: ng/ul

Processing Integration Results



RT: 10.28
Area: 1710878
Amount: 19.511583
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 19-Aug-2022 14:11:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819010.D
 Lims ID: std9 Ist1
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 19-Aug-2022 14:09:33 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-010
 Misc. Info.: STD9 LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 11:33:59 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 22-Aug-2022 09:51:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.237	6.237	0.000	96	166730	4.00	4.00	
* 2 Naphthalene-d8	136	7.342	7.342	0.000	100	602471	4.00	4.00	
* 3 Acenaphthene-d10	164	8.842	8.842	0.000	92	360645	4.00	4.00	
* 4 Phenanthrene-d10	188	10.107	10.101	0.006	96	658864	4.00	4.00	
* 5 Chrysene-d12	240	12.789	12.783	0.006	99	585791	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	98	540469	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.019	5.013	0.006	92	1216729	25.0	24.5	
\$ 8 Phenol-d5	99	5.878	5.872	0.006	75	1514857	25.0	24.7	
\$ 9 Nitrobenzene-d5	82	6.713	6.707	0.006	89	1411512	25.0	25.2	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.242	8.242	0.000	100	2622057	25.0	23.7	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	93	361628	25.0	25.5	
\$ 12 Terphenyl-d14	244	11.495	11.495	0.000	97	3344213	25.0	23.6	
13 1,4-Dioxane	88	2.943	2.943	0.000	95	547082	25.0	24.7	M
14 N-Nitrosodimethylamine	74	3.431	3.425	0.006	92	737886	25.0	25.1	
15 Pyridine	79	3.478	3.472	0.006	97	2533674	50.0	49.9	
30 Benzaldehyde	77	5.842	5.837	0.005	94	1917411	50.0	42.8	
31 Phenol	94	5.890	5.884	0.006	99	1659633	25.0	24.7	
32 Aniline	93	5.937	5.931	0.006	98	1942718	25.0	24.4	
33 Bis(2-chloroethyl)ether	93	5.978	5.972	0.006	98	1294243	25.0	23.8	
36 2-Chlorophenol	128	6.048	6.048	0.000	96	1328210	25.0	24.6	
37 n-Decane	57	6.078	6.078	0.000	85	1229432	25.0	23.4	
39 1,3-Dichlorobenzene	146	6.190	6.190	0.000	97	1455475	25.0	24.2	
40 1,4-Dichlorobenzene	146	6.248	6.248	0.000	92	1432416	25.0	23.8	
41 Benzyl alcohol	108	6.337	6.337	0.000	92	860869	25.0	24.6	
44 1,2-Dichlorobenzene	146	6.390	6.390	0.000	95	1379441	25.0	24.2	
45 2-Methylphenol	108	6.425	6.419	0.006	96	1191595	25.0	24.0	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	89	1206333	25.0	23.1	
47 Indene	115	6.466	6.466	0.000	90	4393833	50.0	47.2	
48 3 & 4 Methylphenol	108	6.554	6.548	0.006	91	1272758	25.0	24.5	
50 N-Nitrosodi-n-propylamine	70	6.566	6.560	0.006	86	825864	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	98	1727640	25.0	23.1	
54 Hexachloroethane	117	6.689	6.690	-0.001	92	566508	25.0	24.5	
55 Nitrobenzene	77	6.731	6.725	0.006	86	1320917	25.0	24.1	
57 Isophorone	82	6.931	6.925	0.006	99	2546867	25.0	24.6	
59 2-Nitrophenol	139	7.007	7.001	0.006	97	704819	25.0	26.9	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	97	1347286	25.0	24.2	
63 Benzoic acid	105	7.095	7.066	0.029	87	1891345	50.0	49.3	
64 Bis(2-chloroethoxy)methane	93	7.089	7.089	0.000	100	1437398	25.0	23.5	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	94	1084030	25.0	24.7	
68 1,2,4-Trichlorobenzene	180	7.289	7.289	0.000	94	1156477	25.0	24.1	
69 Naphthalene	128	7.360	7.360	0.000	98	3554745	25.0	23.3	
70 4-Chloroaniline	127	7.384	7.384	0.000	95	1519825	25.0	24.6	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	99	1055464	25.0	24.4	
73 Hexachlorobutadiene	225	7.466	7.466	0.000	96	722002	25.0	23.9	
78 Caprolactam	113	7.684	7.666	0.018	85	780817	50.0	49.7	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	96	1147348	25.0	24.6	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	93	2547446	25.0	23.8	
83 1-Methylnaphthalene	142	8.036	8.037	0.000	93	2346492	25.0	23.9	
85 Hexachlorocyclopentadiene	237	8.089	8.089	0.000	95	806006	25.0	26.3	
86 1,2,4,5-Tetrachlorobenzene	216	8.095	8.095	0.000	98	1222140	25.0	23.9	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	92	856106	25.0	25.3	
89 2,4,5-Trichlorophenol	196	8.213	8.207	0.006	95	888216	25.0	25.3	
92 1,1'-Biphenyl	154	8.336	8.331	0.005	94	3051804	25.0	23.8	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	97	2337631	25.0	23.7	
99 2-Nitroaniline	65	8.431	8.431	0.000	84	714028	25.0	24.8	
102 Dimethyl phthalate	163	8.566	8.560	0.006	99	2646238	25.0	23.8	
103 1,3-Dinitrobenzene	168	8.601	8.595	0.006	91	452345	25.0	24.9	
104 2,6-Dinitrotoluene	165	8.625	8.619	0.006	94	647637	25.0	24.7	
105 Acenaphthylene	152	8.725	8.725	0.000	98	3801082	25.0	24.6	
106 3-Nitroaniline	138	8.778	8.772	0.006	94	422743	25.0	21.0	
108 2,4-Dinitrophenol	184	8.860	8.854	0.006	86	852454	50.0	50.0	
109 Acenaphthene	153	8.872	8.866	0.006	94	2307900	25.0	23.9	
110 4-Nitrophenol	109	8.889	8.884	0.005	91	938476	50.0	53.7	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	93	852548	25.0	25.0	
113 Dibenzofuran	168	9.013	9.013	0.000	96	3316858	25.0	23.3	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	73	716164	25.0	25.4	
118 Diethyl phthalate	149	9.154	9.148	0.006	98	2652121	25.0	24.4	
117 Hexadecane	57	9.154	9.154	0.000	93	1422935	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	91	1390429	25.0	24.0	
125 4-Nitroaniline	138		9.295				ND	ND	U
126 Fluorene	166	9.301	9.301	0.000	96	2724188	25.0	23.9	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	89	1073388	50.0	49.6	
129 Diphenylamine	169	9.372	9.372	0.000	96	1907034	21.3	19.4	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	1907034	25.0	22.9	
130 Azobenzene	77	9.413	9.413	0.000	99	2587842	25.0	22.8	
138 4-Bromophenyl phenyl ether	248	9.695	9.695	0.000	64	768187	25.0	23.0	
141 Hexachlorobenzene	284	9.783	9.783	0.000	93	806751	25.0	22.6	
140 Atrazine	200	9.801	9.795	0.006	95	1571633	50.0	46.9	
142 n-Octadecane	57	9.925	9.925	0.000	92	1311035	25.0	22.0	
145 Pentachlorophenol	266	9.936	9.936	0.000	92	1168461	50.0	49.5	
149 Phenanthrene	178	10.125	10.125	0.000	97	3924972	25.0	23.4	
150 Anthracene	178	10.172	10.166	0.006	97	3898017	25.0	23.9	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.283	10.283	0.000	95	1929681	25.0	26.3	M
154 Di-n-butyl phthalate	149	10.525	10.525	0.000	100	4695628	25.0	25.3	
160 Fluoranthene	202	11.166	11.160	0.006	97	4504995	25.0	24.4	
161 Benzidine	184		11.242				ND	ND	U
163 Pyrene	202	11.389	11.389	0.000	97	4559255	25.0	24.3	
171 Butyl benzyl phthalate	149	11.983	11.983	0.000	98	2057105	25.0	26.2	
176 Bis(2-ethylhexyl) phthalate	149	12.689	12.683	0.006	95	3006887	25.0	26.9	
178 3,3'-Dichlorobenzidine	252	12.701	12.695	0.006	74	1323408	50.0	46.9	
179 Benzo[a]anthracene	228	12.772	12.772	0.000	98	4217479	25.0	24.0	
180 Chrysene	228	12.830	12.824	0.006	97	4141777	25.0	23.9	
183 Di-n-octyl phthalate	149	13.630	13.624	0.006	99	5055698	25.0	25.2	
185 Benzo[b]fluoranthene	252	14.366	14.360	0.006	97	4168578	25.0	25.7	
186 Benzo[k]fluoranthene	252	14.413	14.401	0.012	99	4248629	25.0	24.2	
187 Benzo[a]pyrene	252	14.889	14.883	0.006	77	4041671	25.0	26.1	
191 Indeno[1,2,3-cd]pyrene	276	16.765	16.754	0.011	99	4108365	25.0	26.4	
192 Dibenz(a,h)anthracene	278	16.783	16.765	0.018	91	3566999	25.0	26.5	
193 Benzo[g,h,i]perylene	276	17.283	17.265	0.018	99	3623054	25.0	25.4	
S 219 Methyl Phenols, Total	100				0			48.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

SMLIST1 L9 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819010.D

Injection Date: 19-Aug-2022 14:09:33

Instrument ID: A4AG3

Operator ID:

Lims ID: std9 Ist1

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

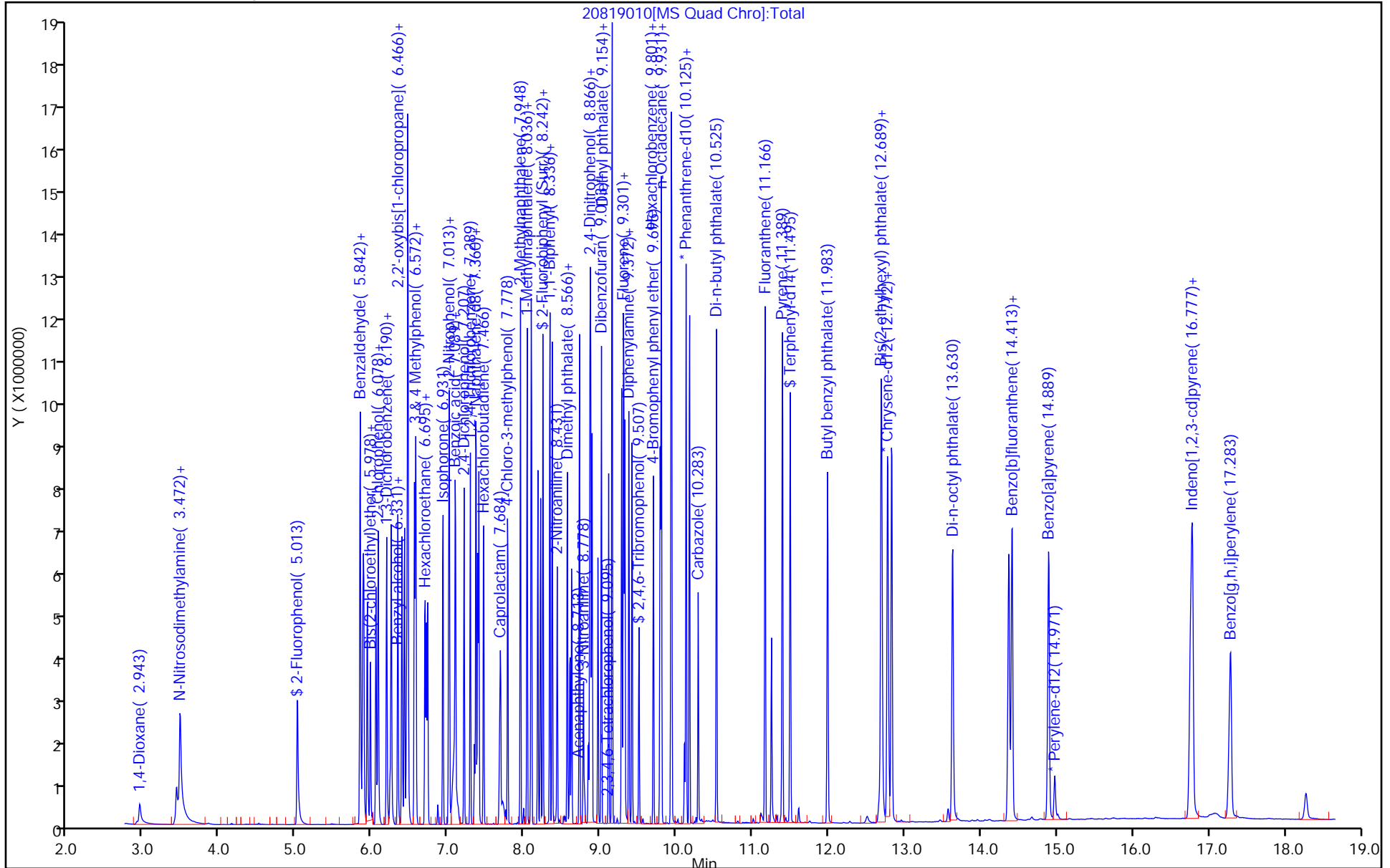
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

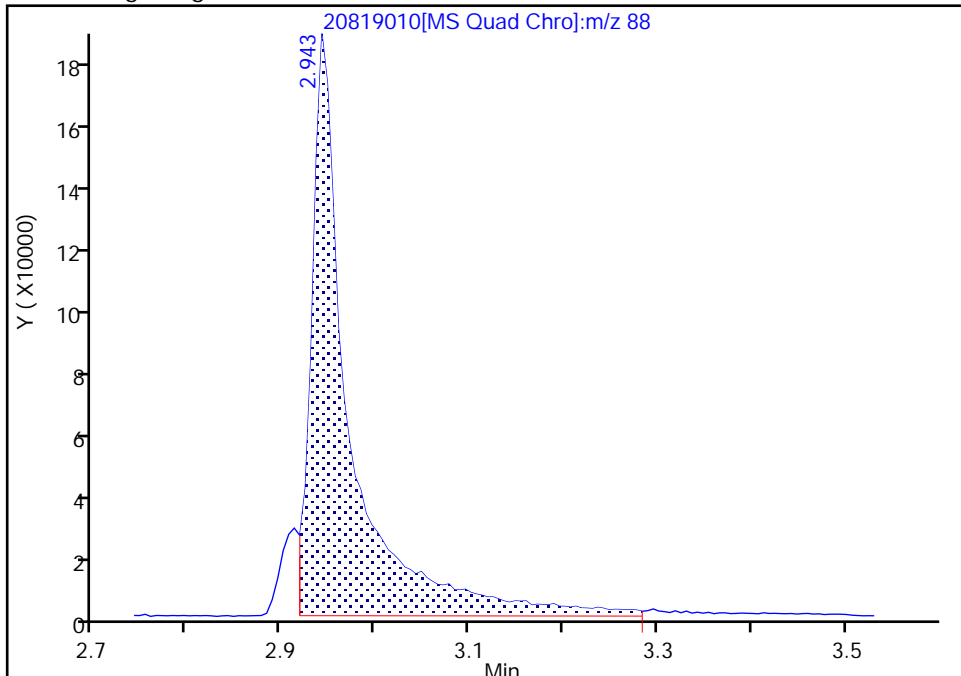
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Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

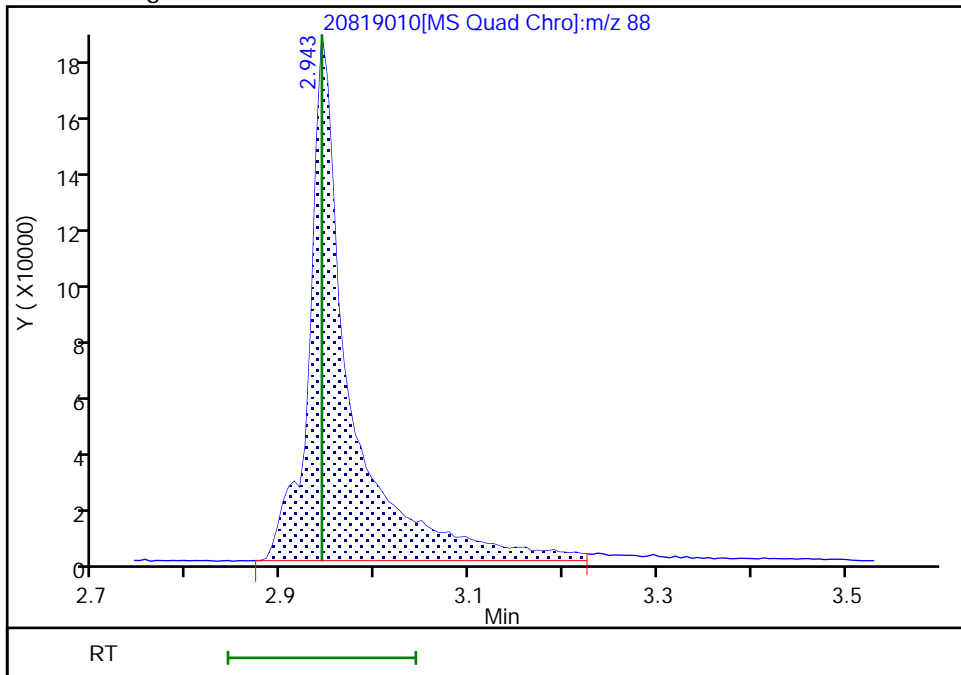
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Area: 523219
Amount: 23.755509
Amount Units: ng/ul

Processing Integration Results



RT: 2.94
Area: 547082
Amount: 24.705119
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 09:45:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

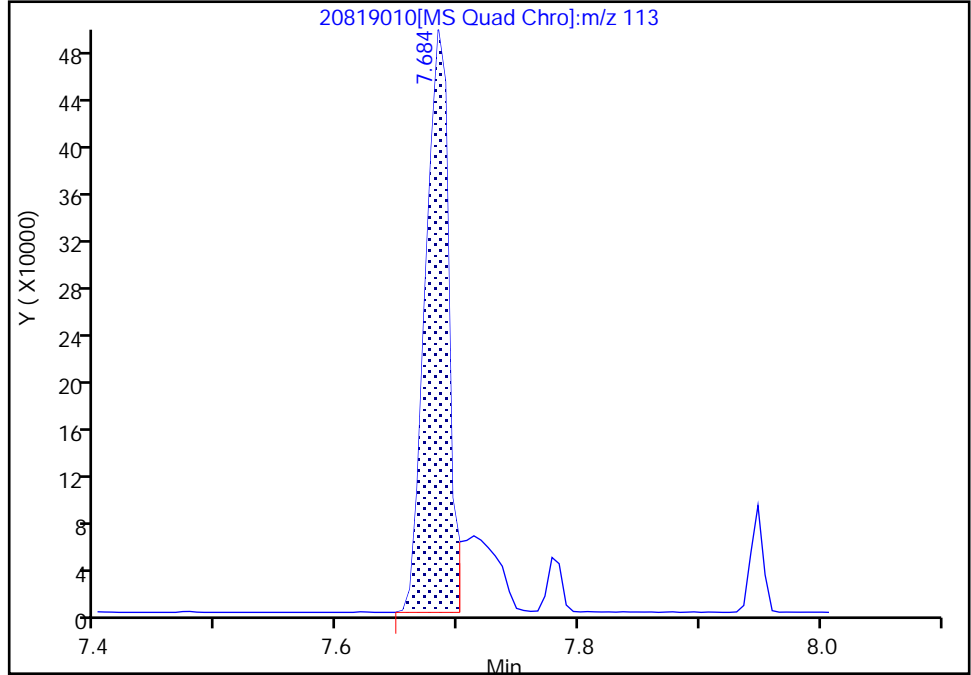
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Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

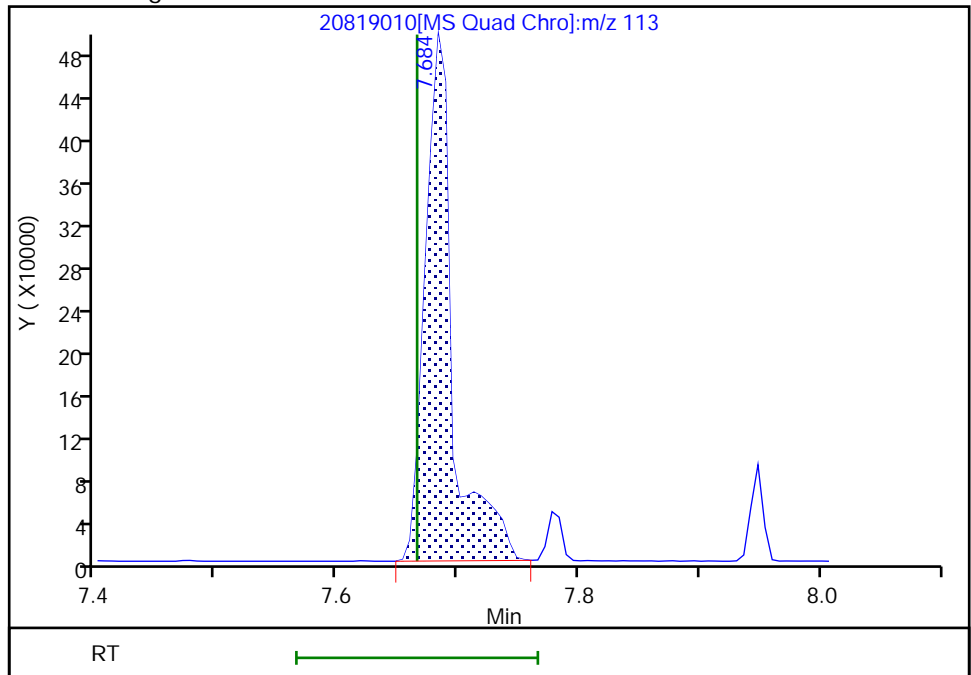
RT: 7.68
Area: 659999
Amount: 42.743465
Amount Units: ng/ul

Processing Integration Results



RT: 7.68
Area: 780817
Amount: 49.703751
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 09:46:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

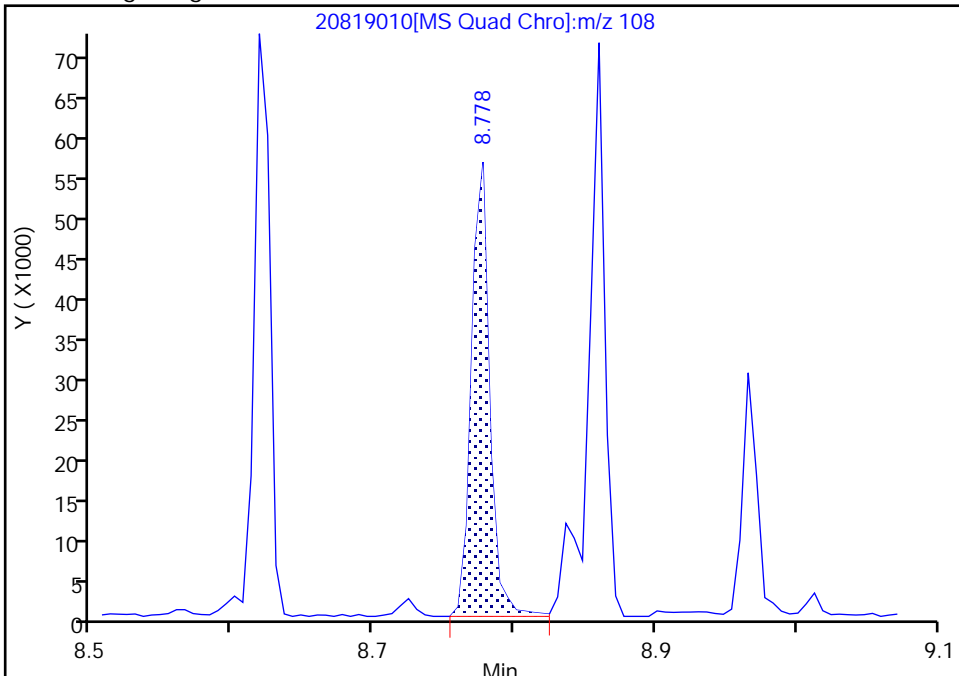
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 Lims ID: std9 lst1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~in~~) Detector MS SCAN

106 3-Nitroaniline, CAS: 99-09-2

Signal: 2

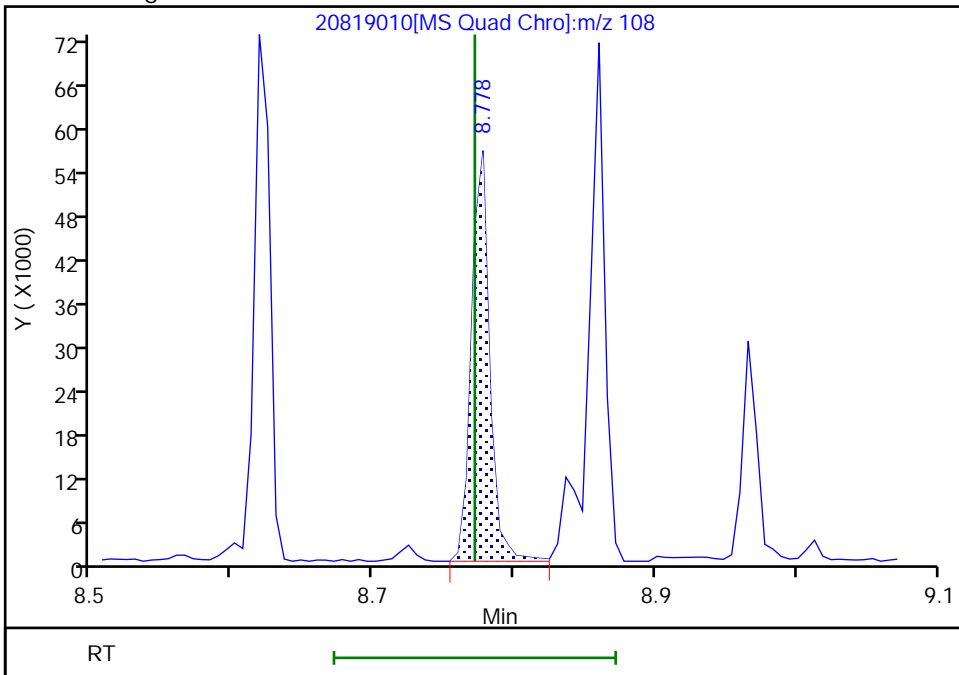
RT: 8.78
 Area: 50929
 Amount: 20.986103
 Amount Units: ng/ul

Processing Integration Results



RT: 8.78
 Area: 50929
 Amount: 20.986103
 Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 10:06:01
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Canton

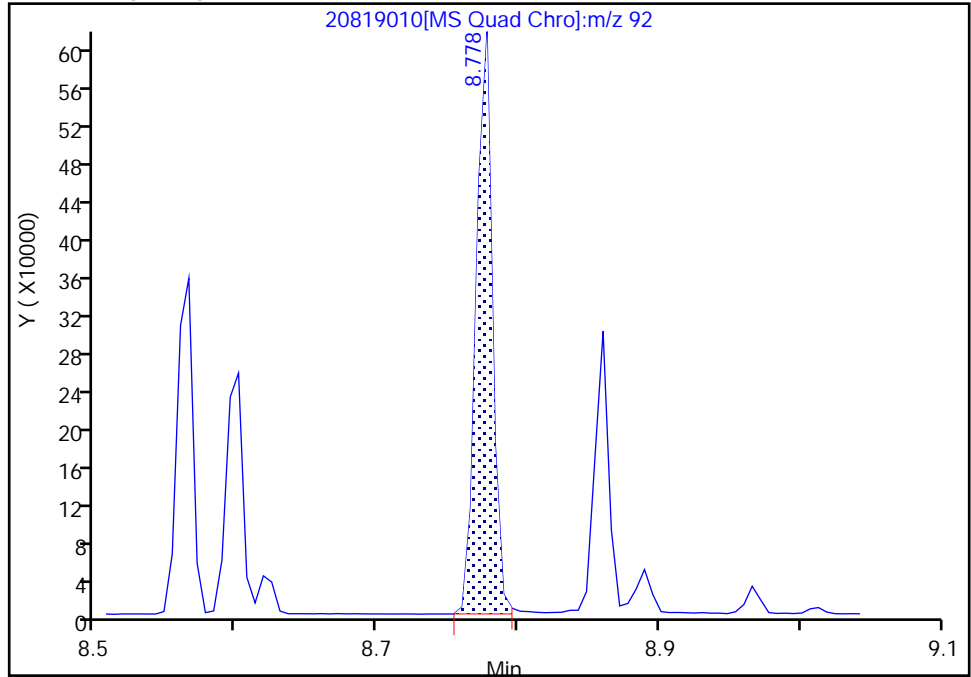
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Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~µm~~) Detector: MS SCAN

106 3-Nitroaniline, CAS: 99-09-2

Signal: 3

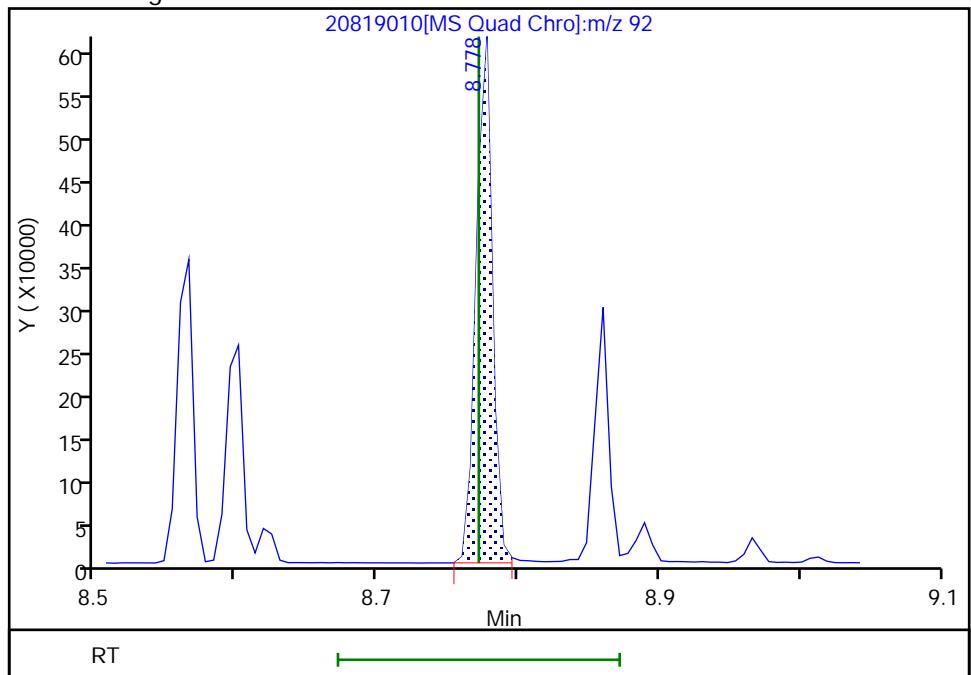
RT: 8.78
Area: 494543
Amount: 20.986103
Amount Units: ng/ul

Processing Integration Results



RT: 8.78
Area: 494543
Amount: 20.986103
Amount Units: ng/ul

Manual Integration Results



Eurofins Canton

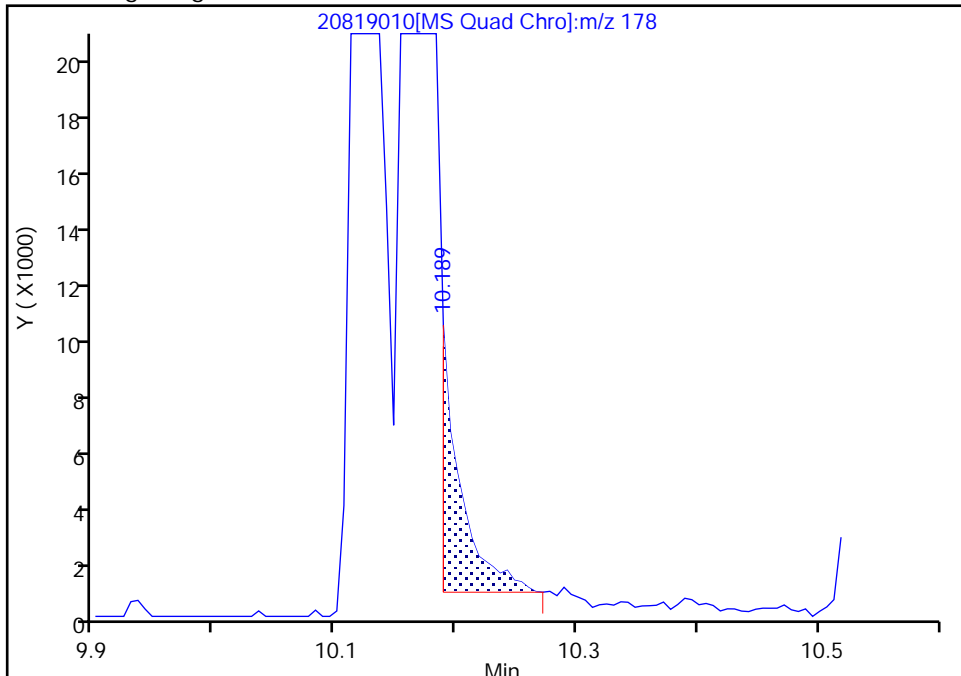
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Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

150 Anthracene, CAS: 120-12-7

Signal: 1

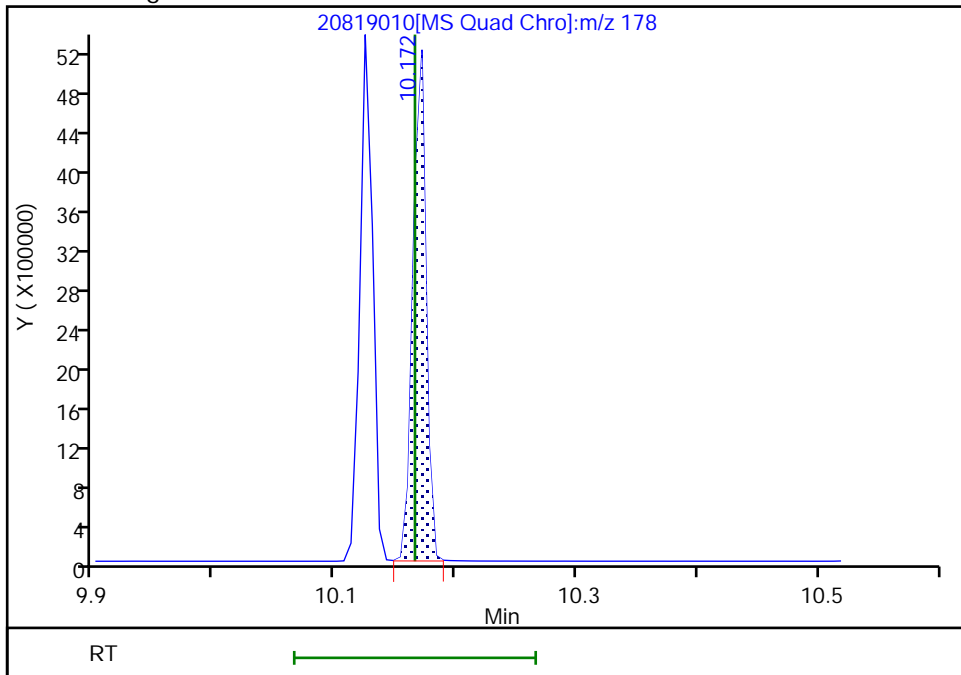
RT: 10.19
Area: 10739
Amount: 0.073743
Amount Units: ng/ul

Processing Integration Results



RT: 10.17
Area: 3898017
Amount: 23.928217
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 09:46:34
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins Canton

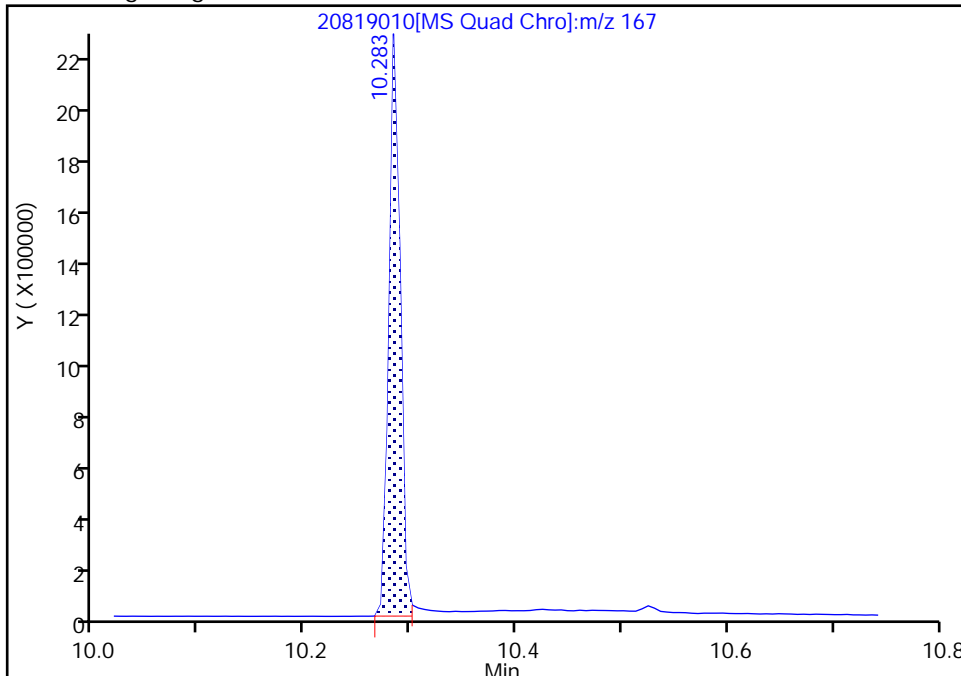
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Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

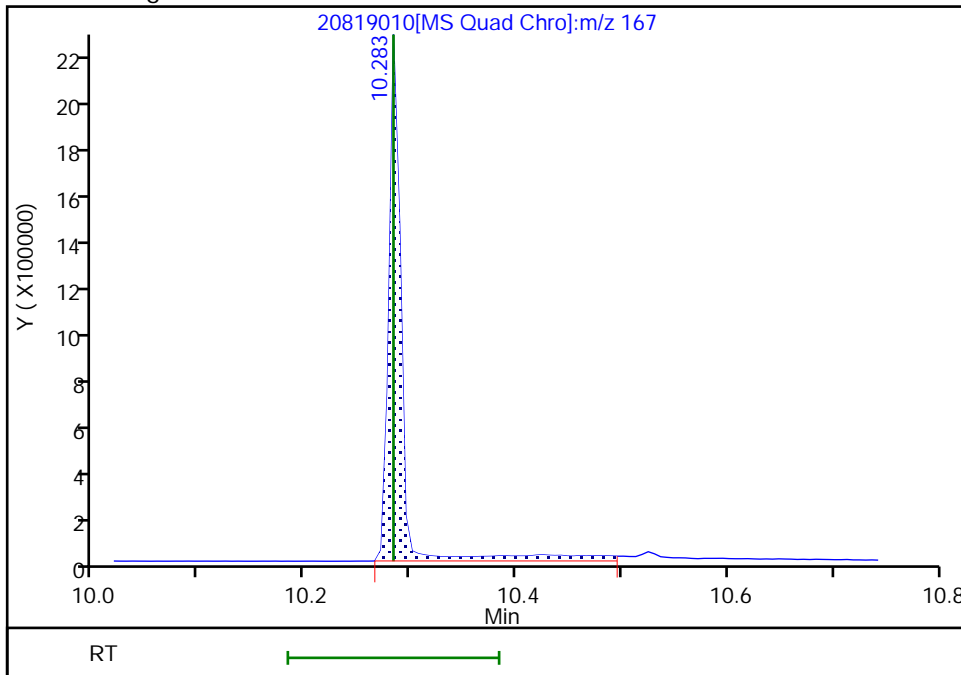
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Area: 1681332
Amount: 14.554034
Amount Units: ng/ul

Processing Integration Results



RT: 10.28
Area: 1929681
Amount: 26.251069
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 09:47:05
Audit Action: Manually Integrated

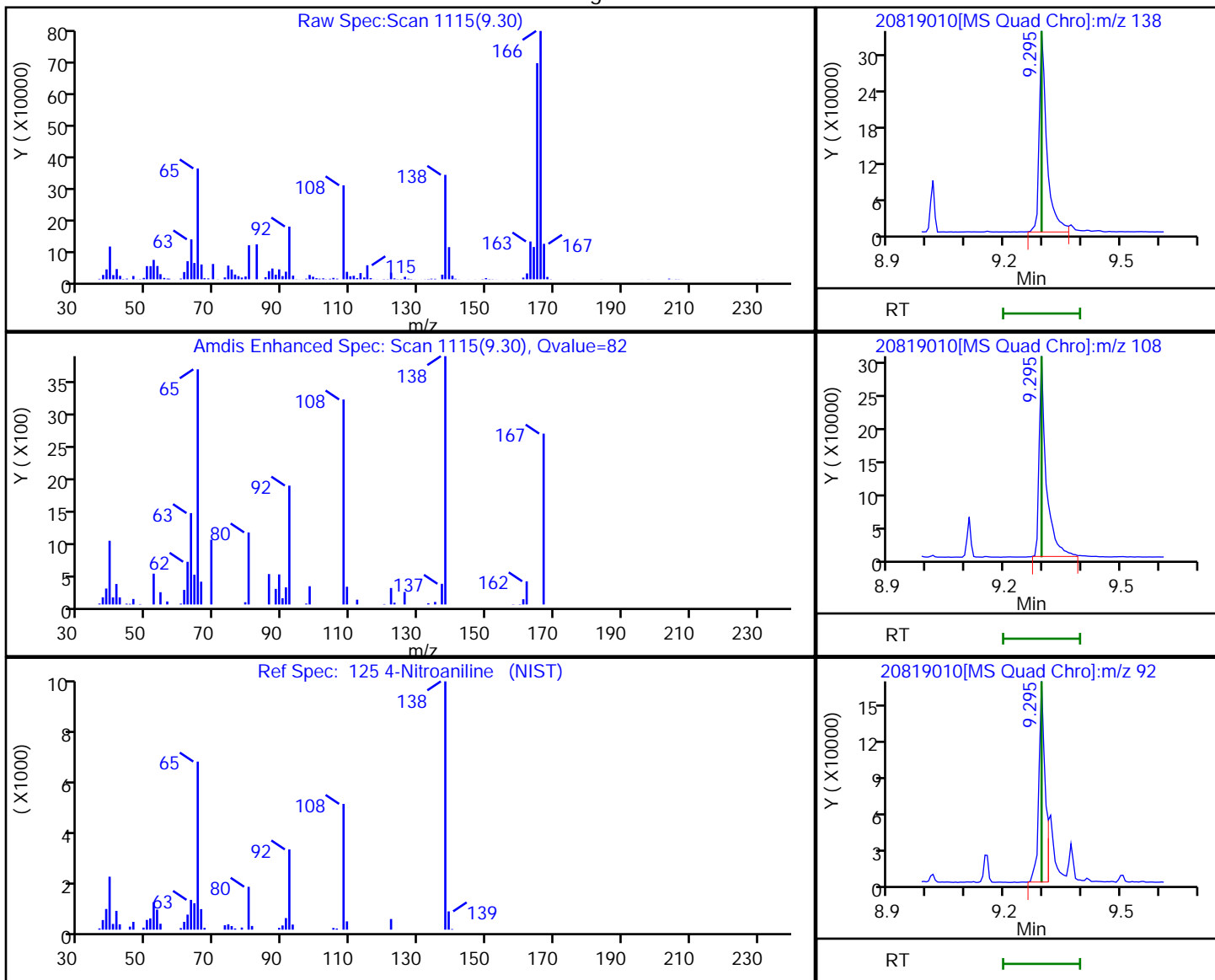
Audit Reason: Poor chromatography

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819010.D
 Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
 Lims ID: std9 Ist1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Processing Results



RT	Mass	Response	Amount
9.30	138.00	460163	22.603898
9.30	108.00	384235	
9.30	92.00	191116	

Reviewer: KDZ4, 22-Aug-2022 09:53:00

Audit Action: Marked Compound Undetected

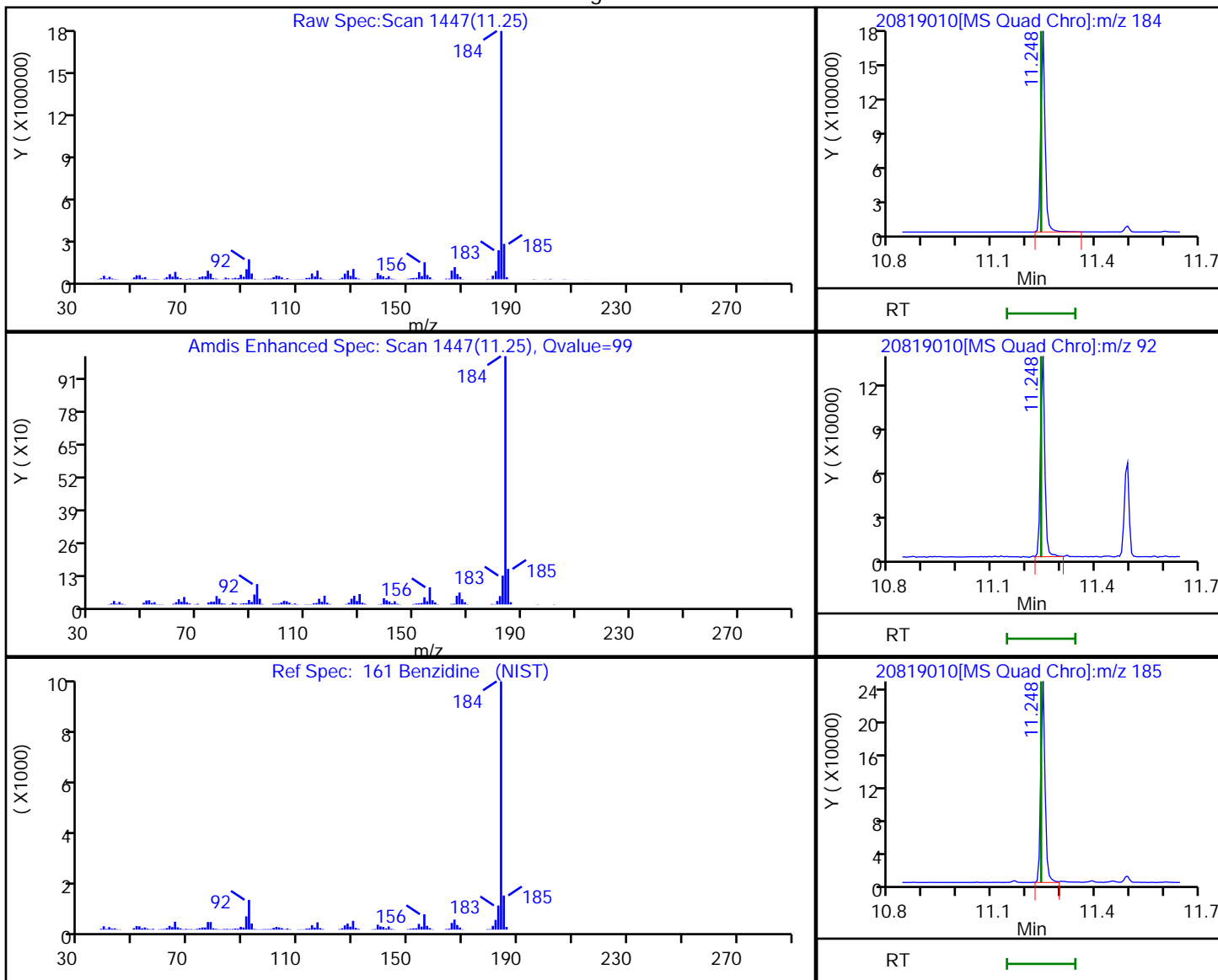
Audit Reason: Invalid Compound ID

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819010.D
Injection Date: 19-Aug-2022 14:09:33 Instrument ID: A4AG3
Lims ID: std9 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector MS SCAN

161 Benzidine, CAS: 92-87-5

Processing Results



RT	Mass	Response	Amount
11.25	184.00	1477285	64.847599
11.25	92.00	121013	
11.25	185.00	211608	

Reviewer: KDZ4, 22-Aug-2022 09:54:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Calibration

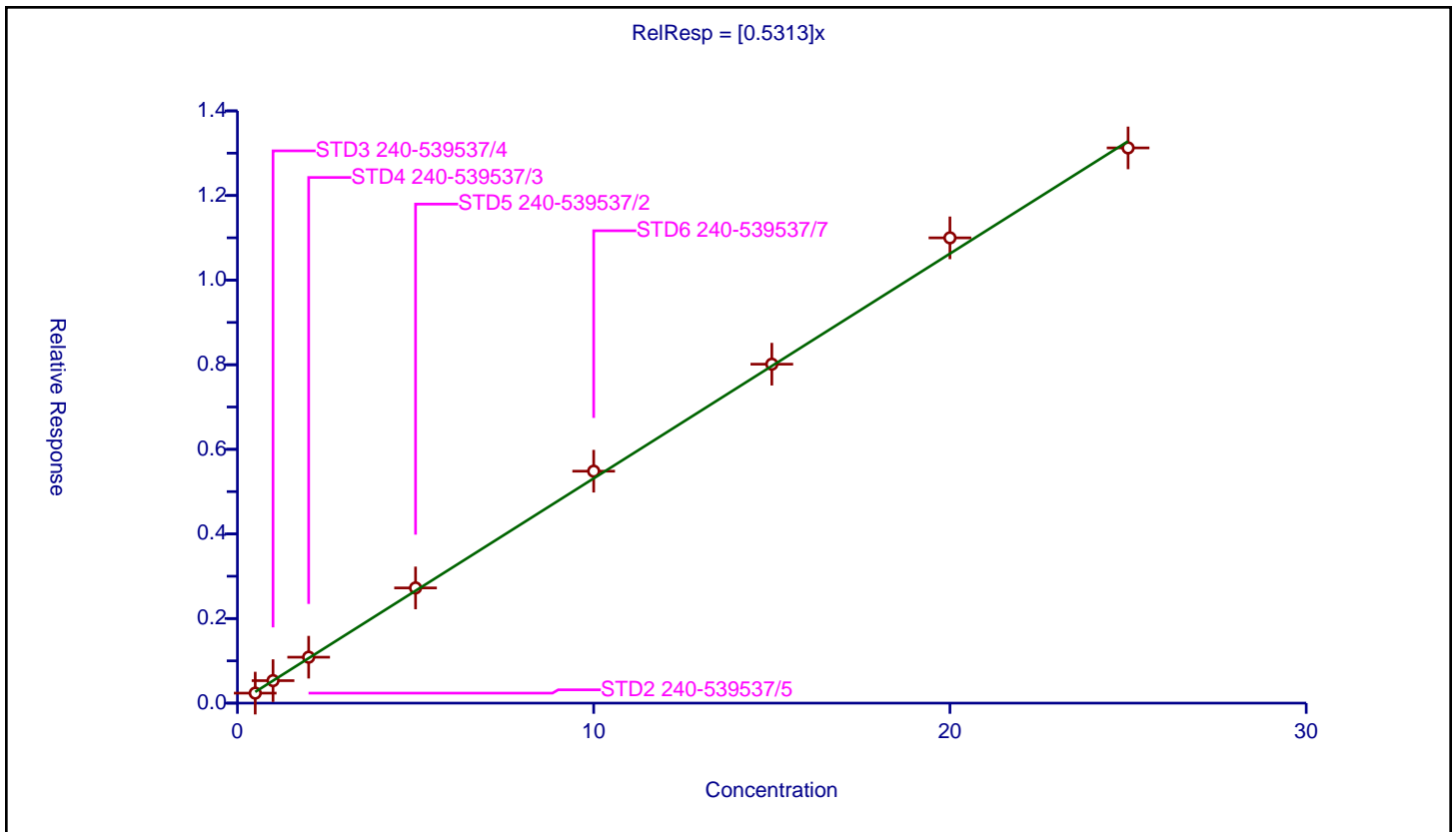
/ 1,4-Dioxane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5313

Error Coefficients	
Standard Error:	318000
Relative Standard Error:	4.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.236725	4.0	177320.0	0.473449	Y
2	STD3 240-539537/4	1.0	0.531804	4.0	183248.0	0.531804	Y
3	STD4 240-539537/3	2.0	1.085605	4.0	179277.0	0.542802	Y
4	STD5 240-539537/2	5.0	2.723617	4.0	160328.0	0.544723	Y
5	STD6 240-539537/7	10.0	5.482544	4.0	170971.0	0.548254	Y
6	STD7 240-539537/8	15.0	8.012516	4.0	172585.0	0.534168	Y
7	STD8 240-539537/9	20.0	10.998499	4.0	169917.0	0.549925	Y
8	STD9 240-539537/10	25.0	13.124981	4.0	166730.0	0.524999	Y



Calibration

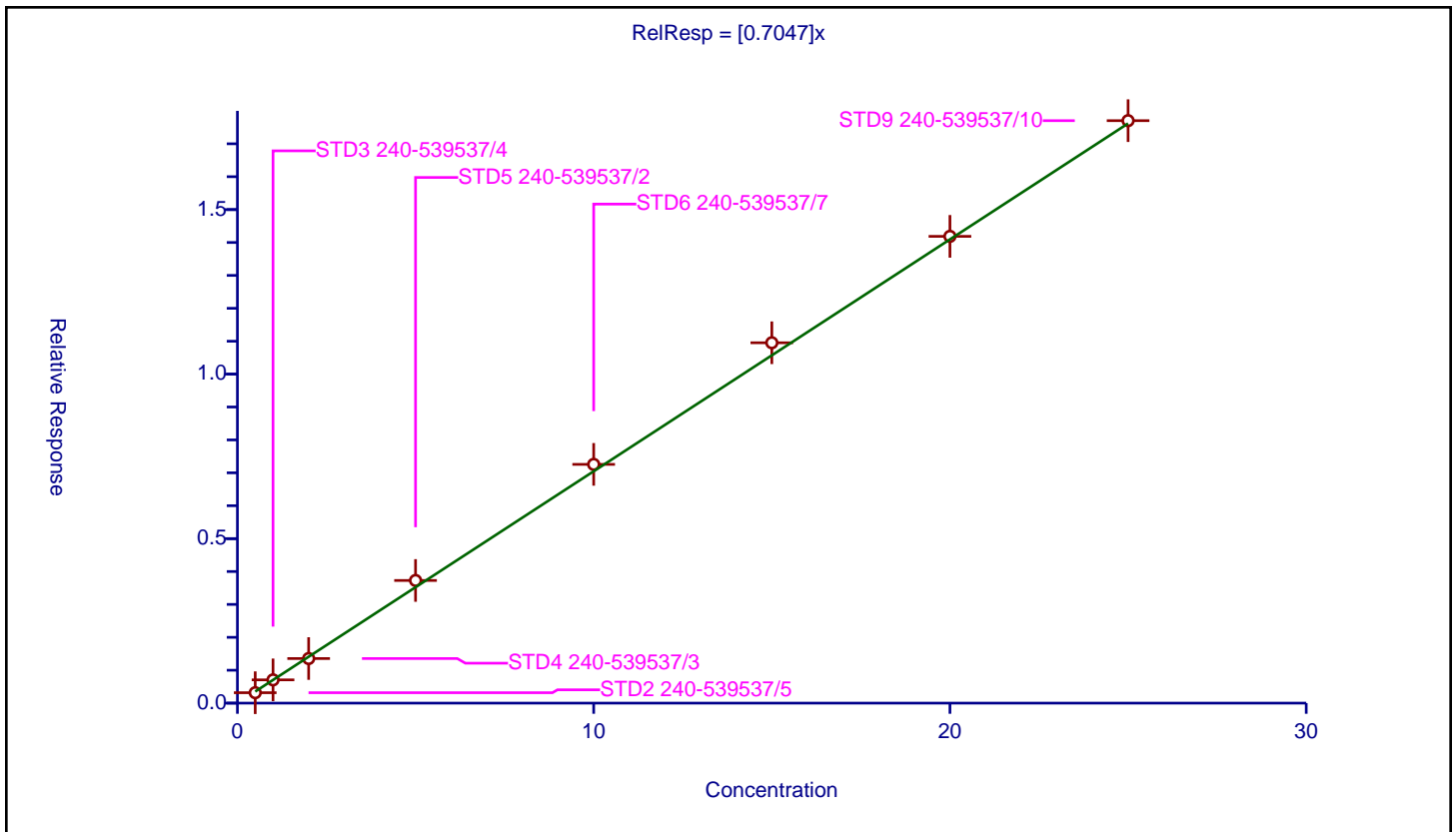
/ N-Nitrosodimethylamine

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7047

Error Coefficients	
Standard Error:	423000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.317167	4.0	177320.0	0.634333	Y
2	STD3 240-539537/4	1.0	0.706802	4.0	183248.0	0.706802	Y
3	STD4 240-539537/3	2.0	1.355154	4.0	179277.0	0.677577	Y
4	STD5 240-539537/2	5.0	3.728382	4.0	160328.0	0.745676	Y
5	STD6 240-539537/7	10.0	7.256505	4.0	170971.0	0.725651	Y
6	STD7 240-539537/8	15.0	10.952748	4.0	172585.0	0.730183	Y
7	STD8 240-539537/9	20.0	14.186762	4.0	169917.0	0.709338	Y
8	STD9 240-539537/10	25.0	17.702537	4.0	166730.0	0.708101	Y



Calibration

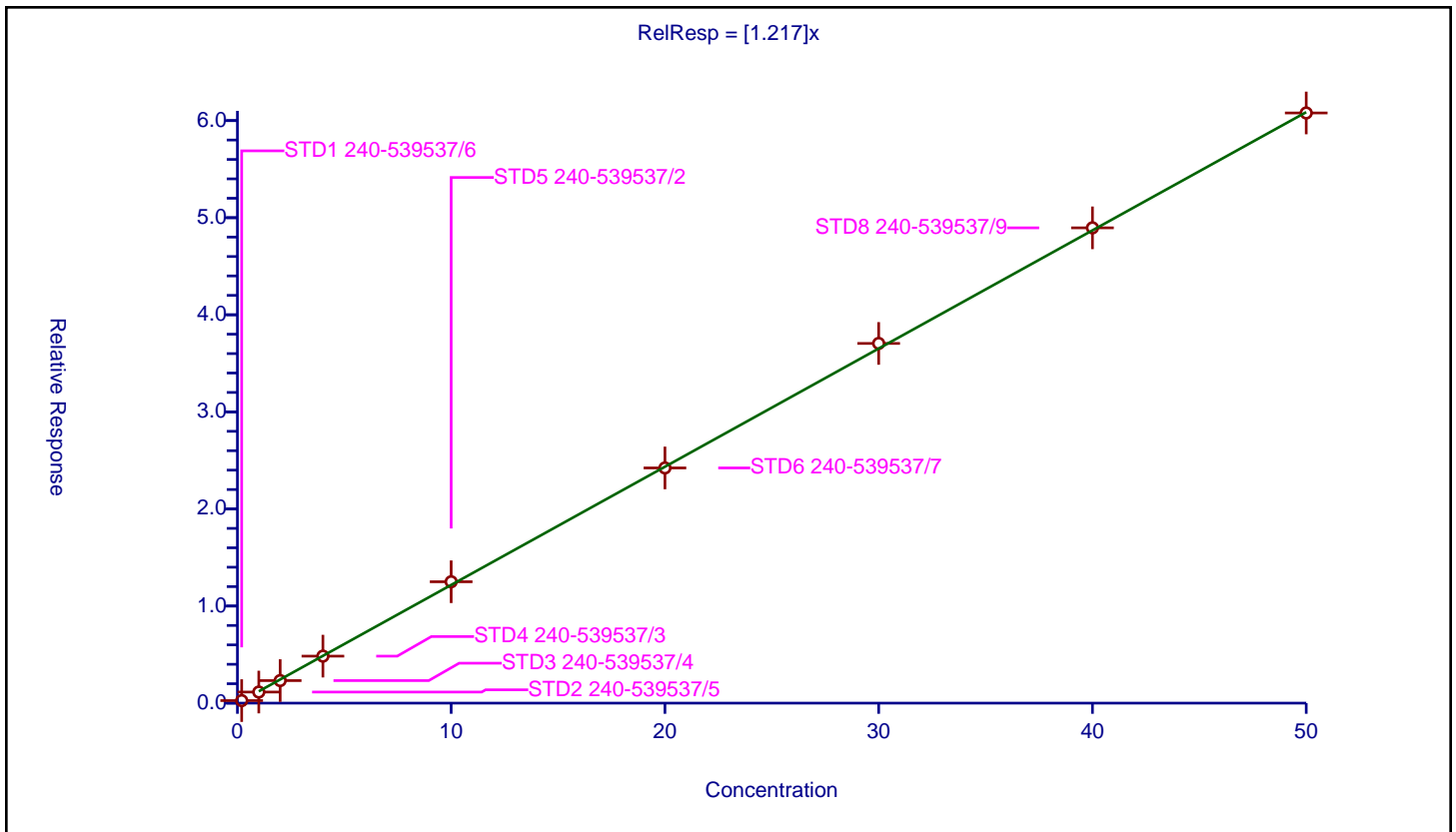
/ Pyridine

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.217

Error Coefficients	
Standard Error:	1350000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.2	0.261368	4.0	174895.0	1.306841	Y
2	STD2 240-539537/5	1.0	1.142251	4.0	177320.0	1.142251	Y
3	STD3 240-539537/4	2.0	2.322339	4.0	183248.0	1.16117	Y
4	STD4 240-539537/3	4.0	4.840286	4.0	179277.0	1.210072	Y
5	STD5 240-539537/2	10.0	12.501771	4.0	160328.0	1.250177	Y
6	STD6 240-539537/7	20.0	24.225465	4.0	170971.0	1.211273	Y
7	STD7 240-539537/8	30.0	37.049593	4.0	172585.0	1.234986	Y
8	STD8 240-539537/9	40.0	48.955643	4.0	169917.0	1.223891	Y
9	STD9 240-539537/10	50.0	60.785078	4.0	166730.0	1.215702	Y



Calibration

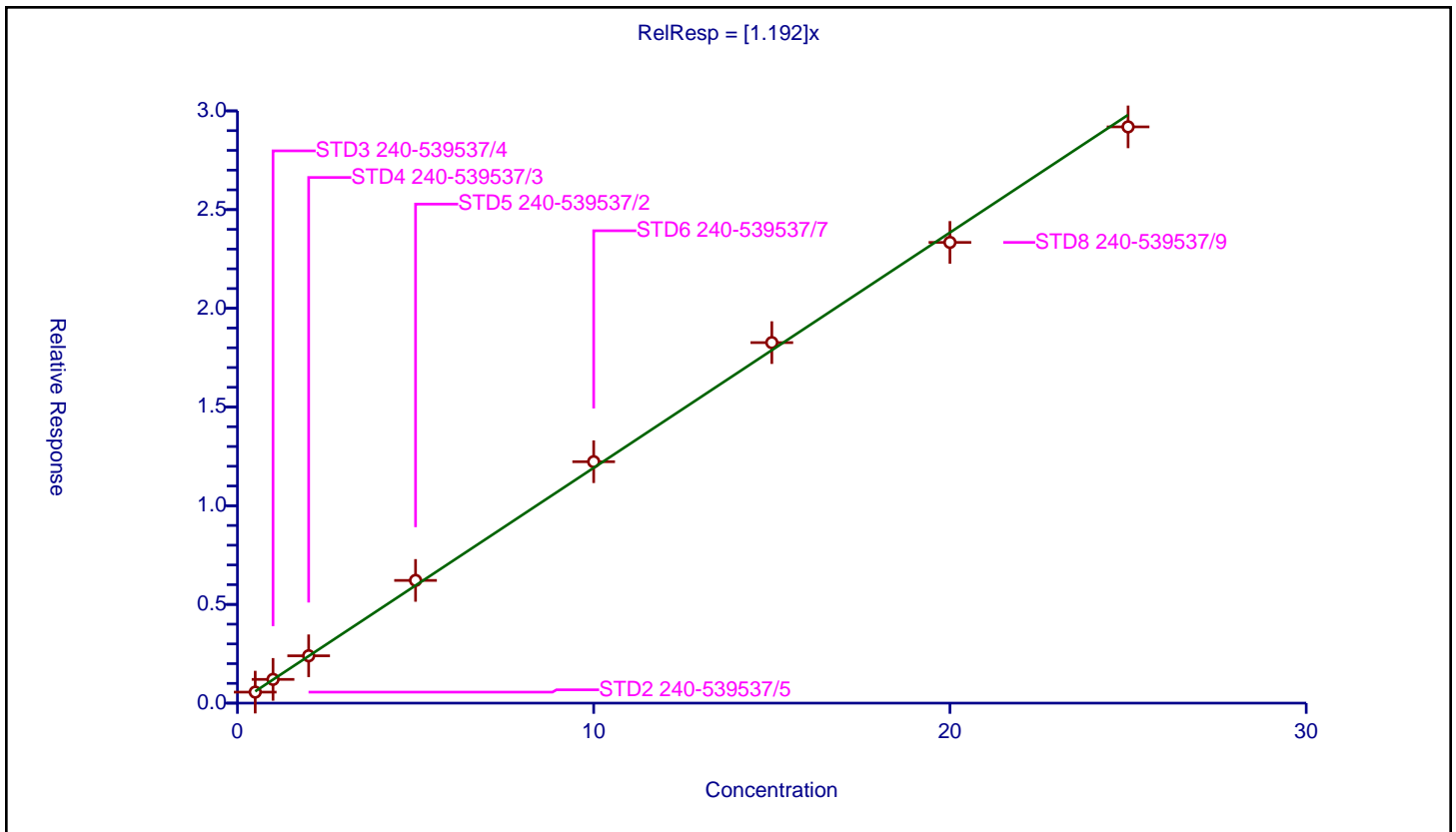
/ 2-Fluorophenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.192

Error Coefficients	
Standard Error:	700000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.557343	4.0	177320.0	1.114685	Y
2	STD3 240-539537/4	1.0	1.203418	4.0	183248.0	1.203418	Y
3	STD4 240-539537/3	2.0	2.397452	4.0	179277.0	1.198726	Y
4	STD5 240-539537/2	5.0	6.215533	4.0	160328.0	1.243107	Y
5	STD6 240-539537/7	10.0	12.228741	4.0	170971.0	1.222874	Y
6	STD7 240-539537/8	15.0	18.262769	4.0	172585.0	1.217518	Y
7	STD8 240-539537/9	20.0	23.338595	4.0	169917.0	1.16693	Y
8	STD9 240-539537/10	25.0	29.190404	4.0	166730.0	1.167616	Y



Calibration

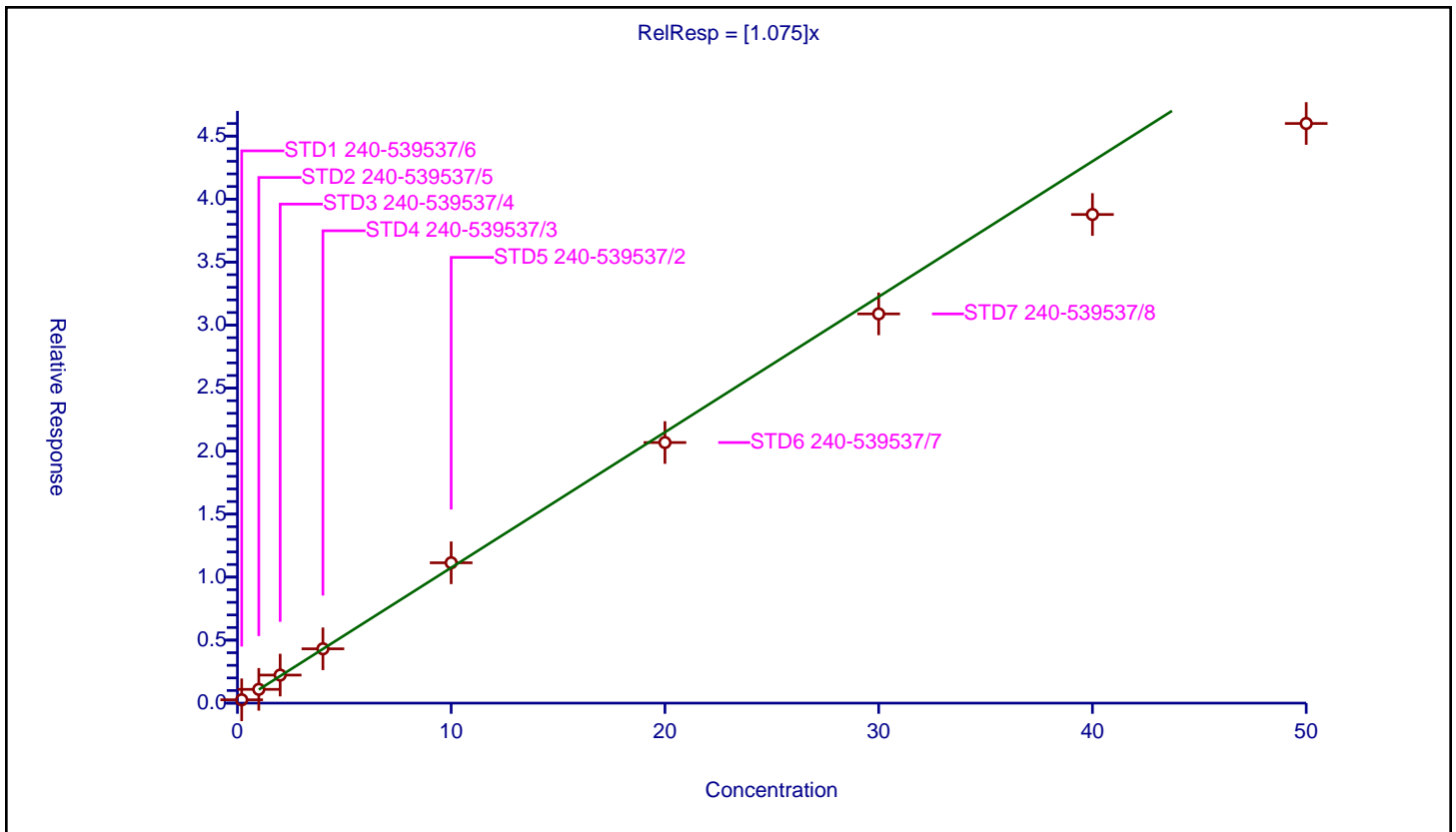
/ Benzaldehyde

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.075

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	10.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.2	0.264433	4.0	174895.0	1.322165	Y
2	STD2 240-539537/5	1.0	1.094157	4.0	177320.0	1.094157	Y
3	STD3 240-539537/4	2.0	2.227408	4.0	183248.0	1.113704	Y
4	STD4 240-539537/3	4.0	4.311786	4.0	179277.0	1.077946	Y
5	STD5 240-539537/2	10.0	11.138142	4.0	160328.0	1.113814	Y
6	STD6 240-539537/7	20.0	20.679881	4.0	170971.0	1.033994	Y
7	STD7 240-539537/8	30.0	30.889011	4.0	172585.0	1.029634	Y
8	STD8 240-539537/9	40.0	38.777568	4.0	169917.0	0.969439	Y
9	STD9 240-539537/10	50.0	46.000384	4.0	166730.0	0.920008	Y



Calibration

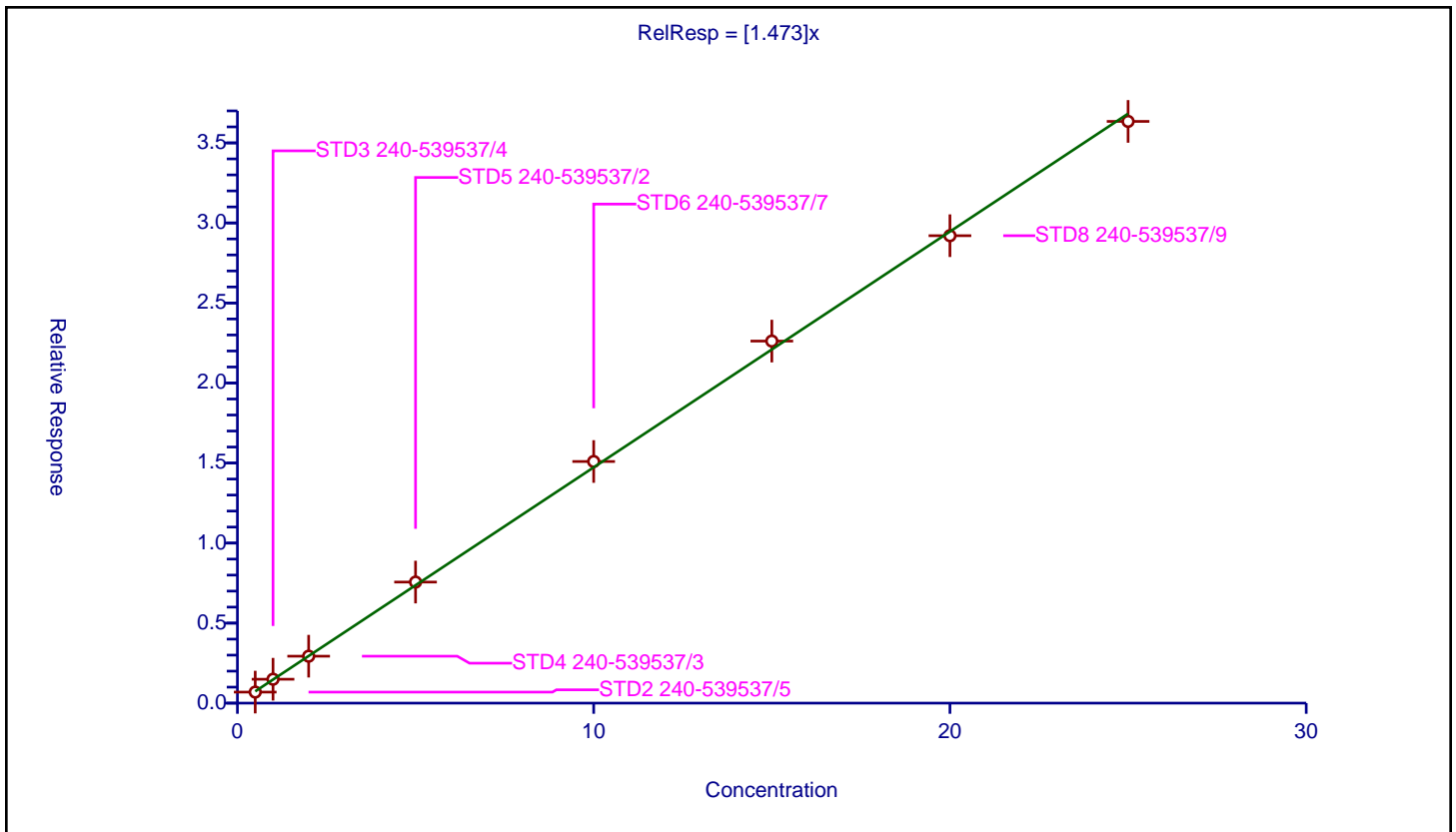
/ Phenol-d5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.473

Error Coefficients	
Standard Error:	872000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.689894	4.0	177320.0	1.379788	Y
2	STD3 240-539537/4	1.0	1.493582	4.0	183248.0	1.493582	Y
3	STD4 240-539537/3	2.0	2.933338	4.0	179277.0	1.466669	Y
4	STD5 240-539537/2	5.0	7.563195	4.0	160328.0	1.512639	Y
5	STD6 240-539537/7	10.0	15.096174	4.0	170971.0	1.509617	Y
6	STD7 240-539537/8	15.0	22.618003	4.0	172585.0	1.507867	Y
7	STD8 240-539537/9	20.0	29.202564	4.0	169917.0	1.460128	Y
8	STD9 240-539537/10	25.0	36.342758	4.0	166730.0	1.45371	Y



Calibration

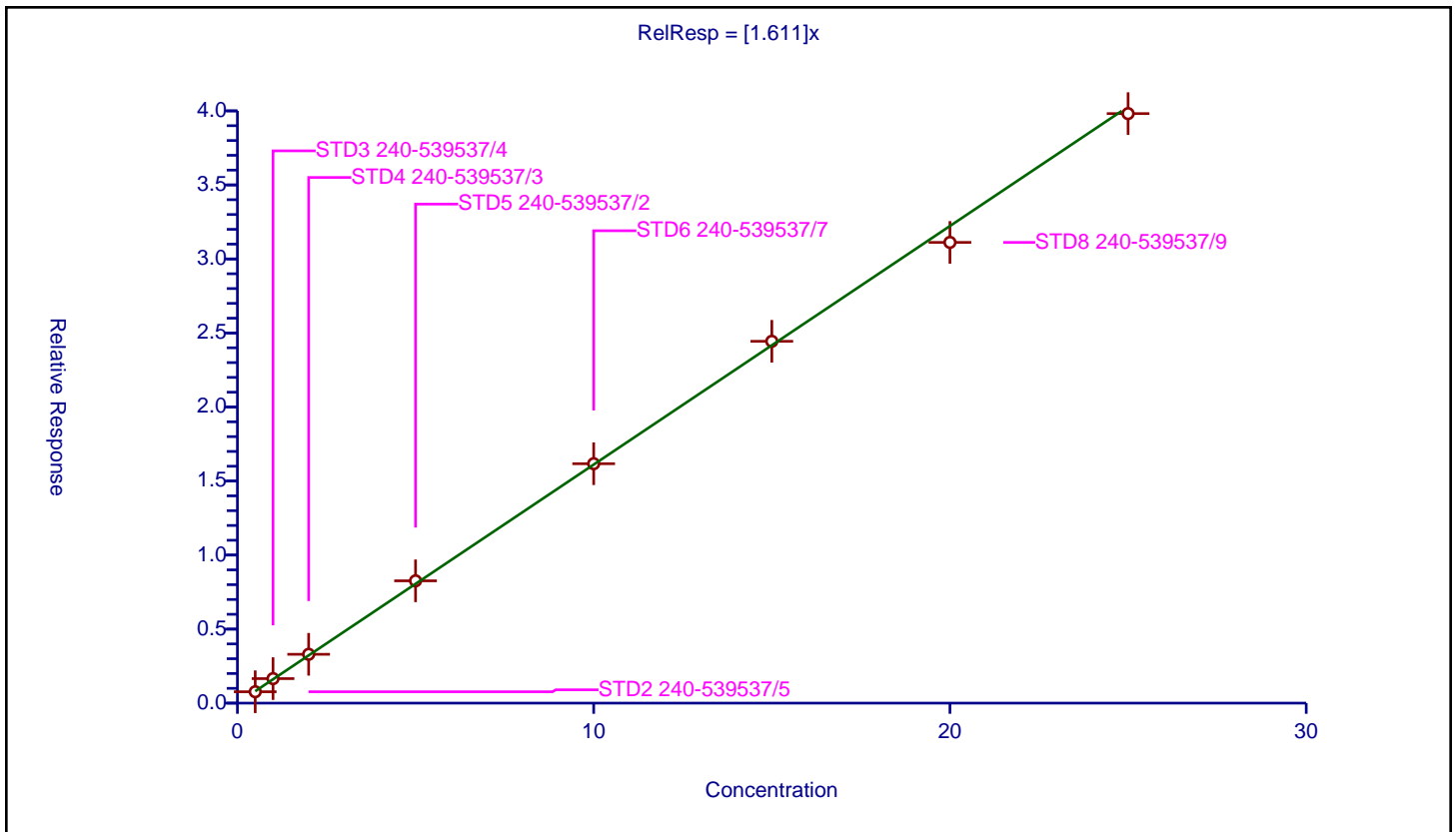
/ Phenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.611

Error Coefficients	
Standard Error:	943000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.769186	4.0	177320.0	1.538371	Y
2	STD3 240-539537/4	1.0	1.655287	4.0	183248.0	1.655287	Y
3	STD4 240-539537/3	2.0	3.298114	4.0	179277.0	1.649057	Y
4	STD5 240-539537/2	5.0	8.260765	4.0	160328.0	1.652153	Y
5	STD6 240-539537/7	10.0	16.170602	4.0	170971.0	1.61706	Y
6	STD7 240-539537/8	15.0	24.438416	4.0	172585.0	1.629228	Y
7	STD8 240-539537/9	20.0	31.11804	4.0	169917.0	1.555902	Y
8	STD9 240-539537/10	25.0	39.816062	4.0	166730.0	1.592642	Y



Calibration

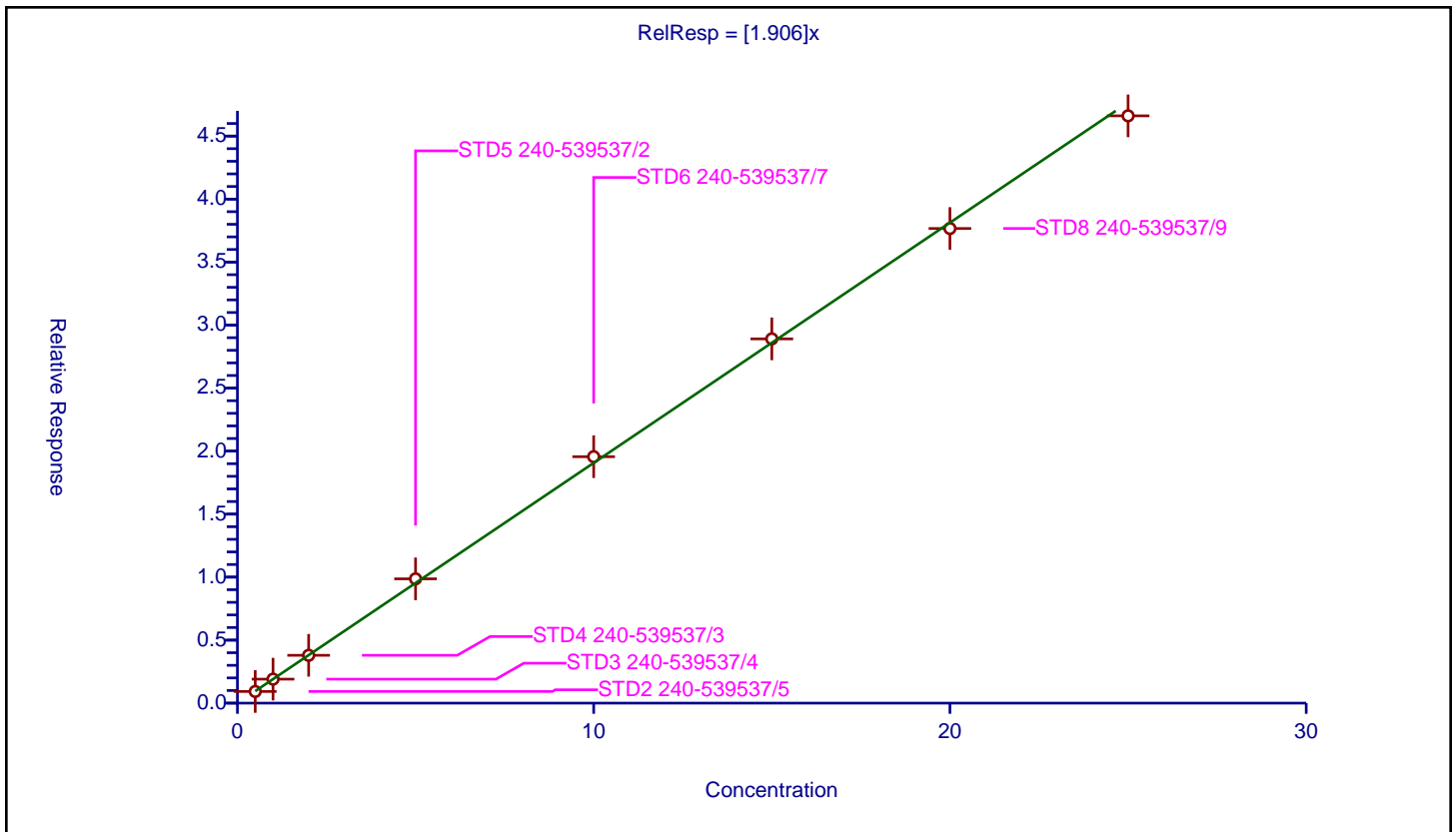
/ Aniline

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.906

Error Coefficients	
Standard Error:	1120000
Relative Standard Error:	2.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.92425	4.0	177320.0	1.8485	Y
2	STD3 240-539537/4	1.0	1.902908	4.0	183248.0	1.902908	Y
3	STD4 240-539537/3	2.0	3.794731	4.0	179277.0	1.897366	Y
4	STD5 240-539537/2	5.0	9.863081	4.0	160328.0	1.972616	Y
5	STD6 240-539537/7	10.0	19.556463	4.0	170971.0	1.955646	Y
6	STD7 240-539537/8	15.0	28.906637	4.0	172585.0	1.927109	Y
7	STD8 240-539537/9	20.0	37.667096	4.0	169917.0	1.883355	Y
8	STD9 240-539537/10	25.0	46.607521	4.0	166730.0	1.864301	Y



Calibration

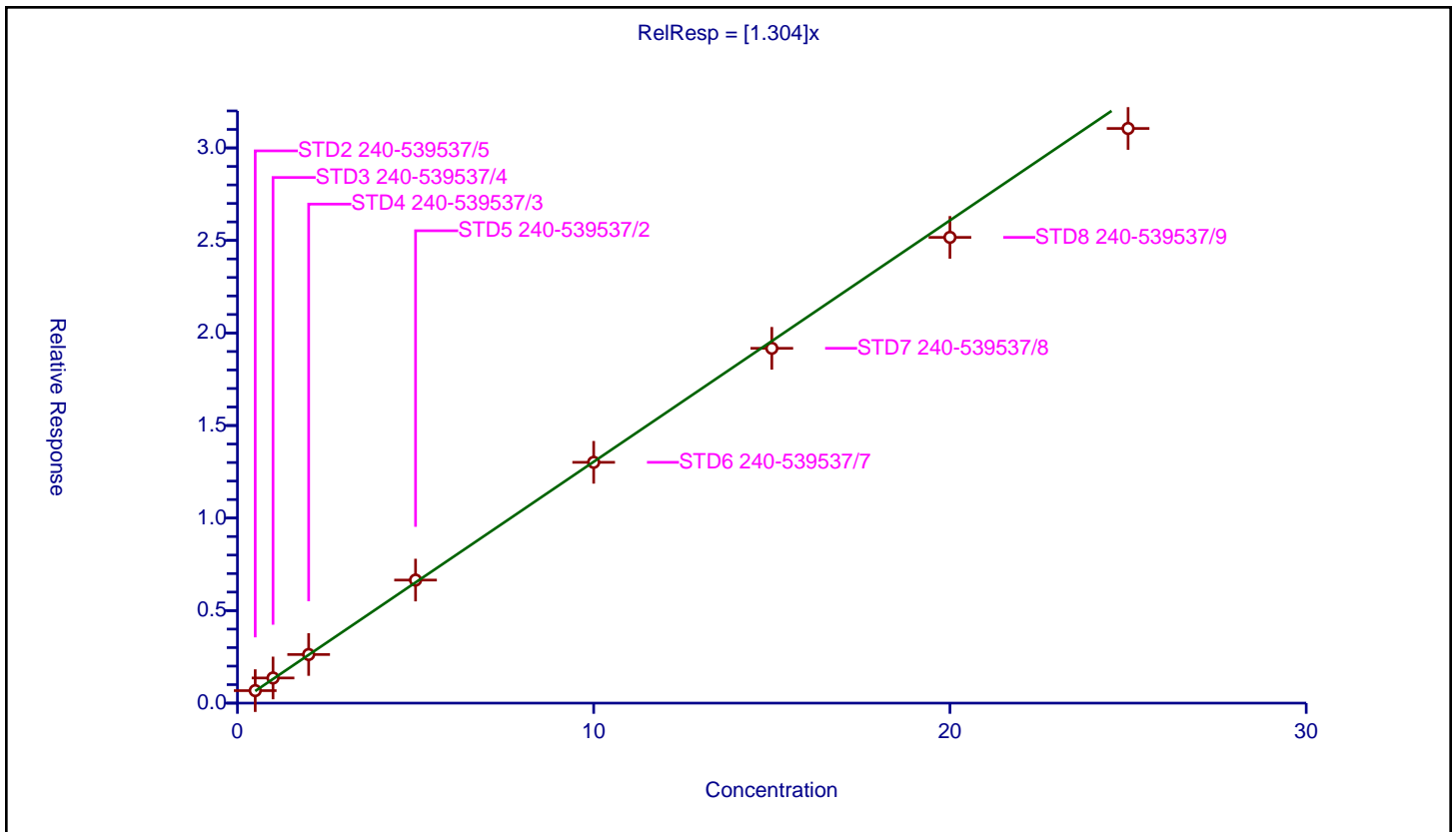
/ Bis(2-chloroethyl)ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.304

Error Coefficients	
Standard Error:	747000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.675186	4.0	177320.0	1.350372	Y
2	STD3 240-539537/4	1.0	1.359818	4.0	183248.0	1.359818	Y
3	STD4 240-539537/3	2.0	2.627353	4.0	179277.0	1.313677	Y
4	STD5 240-539537/2	5.0	6.649294	4.0	160328.0	1.329859	Y
5	STD6 240-539537/7	10.0	13.011002	4.0	170971.0	1.3011	Y
6	STD7 240-539537/8	15.0	19.172072	4.0	172585.0	1.278138	Y
7	STD8 240-539537/9	20.0	25.165204	4.0	169917.0	1.25826	Y
8	STD9 240-539537/10	25.0	31.050033	4.0	166730.0	1.242001	Y



Calibration

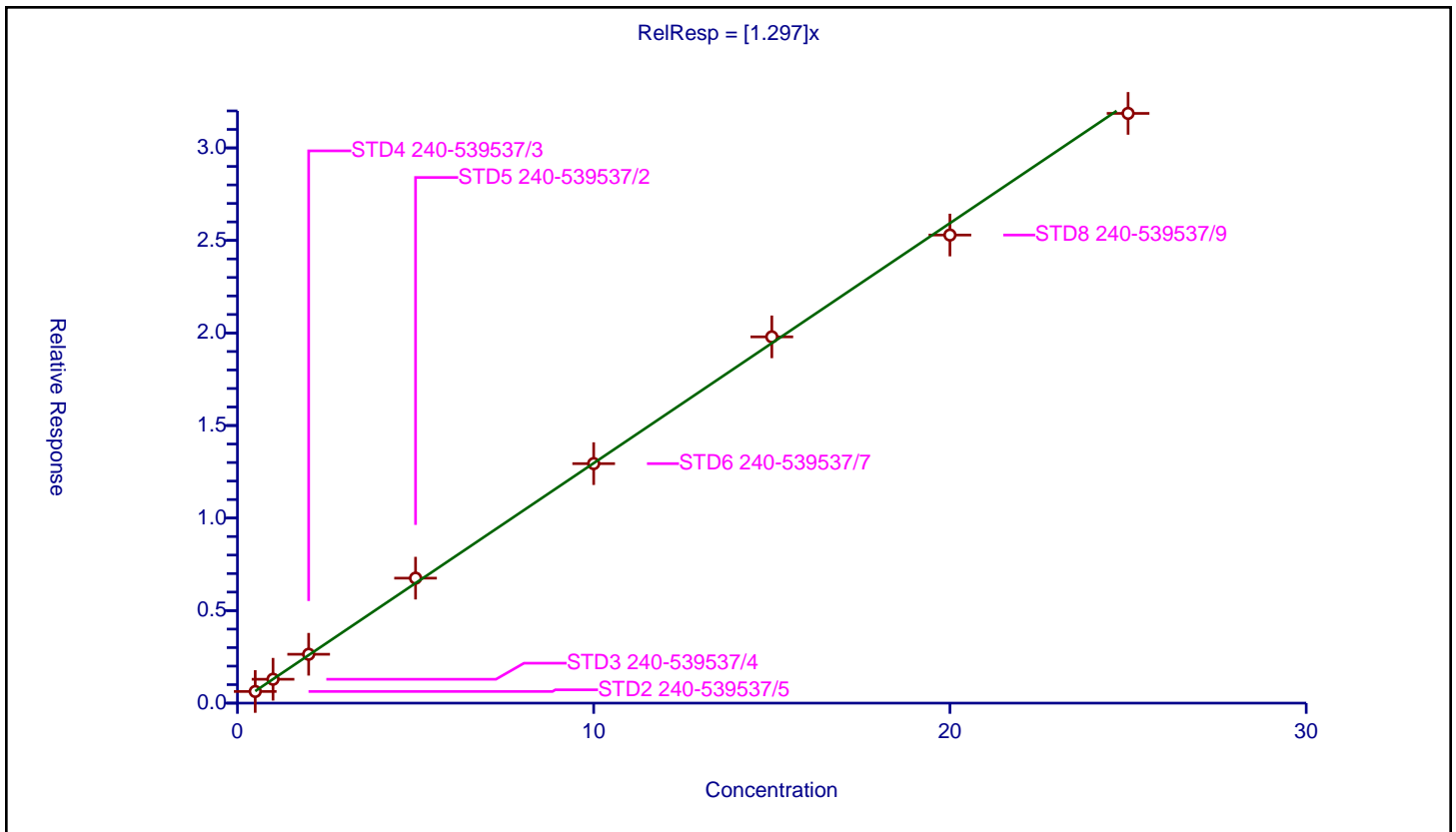
/ 2-Chlorophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.297

Error Coefficients	
Standard Error:	760000
Relative Standard Error:	2.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.629551	4.0	177320.0	1.259102	Y
2	STD3 240-539537/4	1.0	1.29047	4.0	183248.0	1.29047	Y
3	STD4 240-539537/3	2.0	2.640517	4.0	179277.0	1.320259	Y
4	STD5 240-539537/2	5.0	6.753006	4.0	160328.0	1.350601	Y
5	STD6 240-539537/7	10.0	12.941306	4.0	170971.0	1.294131	Y
6	STD7 240-539537/8	15.0	19.791222	4.0	172585.0	1.319415	Y
7	STD8 240-539537/9	20.0	25.292278	4.0	169917.0	1.264614	Y
8	STD9 240-539537/10	25.0	31.864931	4.0	166730.0	1.274597	Y



Calibration

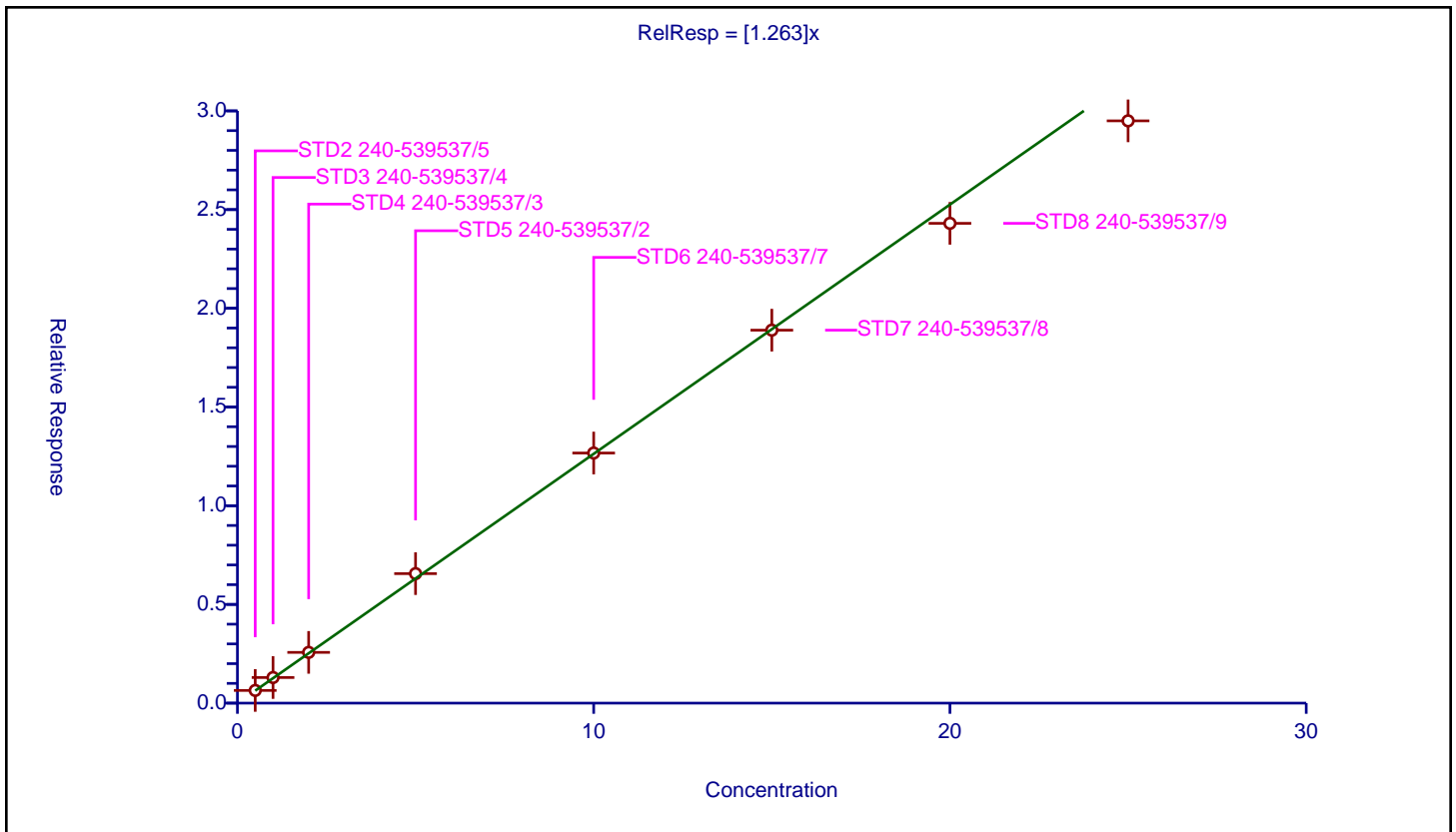
/ n-Decane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.263

Error Coefficients	
Standard Error:	719000
Relative Standard Error:	3.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.642951	4.0	177320.0	1.285901	Y
2	STD3 240-539537/4	1.0	1.296647	4.0	183248.0	1.296647	Y
3	STD4 240-539537/3	2.0	2.570659	4.0	179277.0	1.285329	Y
4	STD5 240-539537/2	5.0	6.560351	4.0	160328.0	1.31207	Y
5	STD6 240-539537/7	10.0	12.668605	4.0	170971.0	1.26686	Y
6	STD7 240-539537/8	15.0	18.893114	4.0	172585.0	1.259541	Y
7	STD8 240-539537/9	20.0	24.303513	4.0	169917.0	1.215176	Y
8	STD9 240-539537/10	25.0	29.49516	4.0	166730.0	1.179806	Y



Calibration

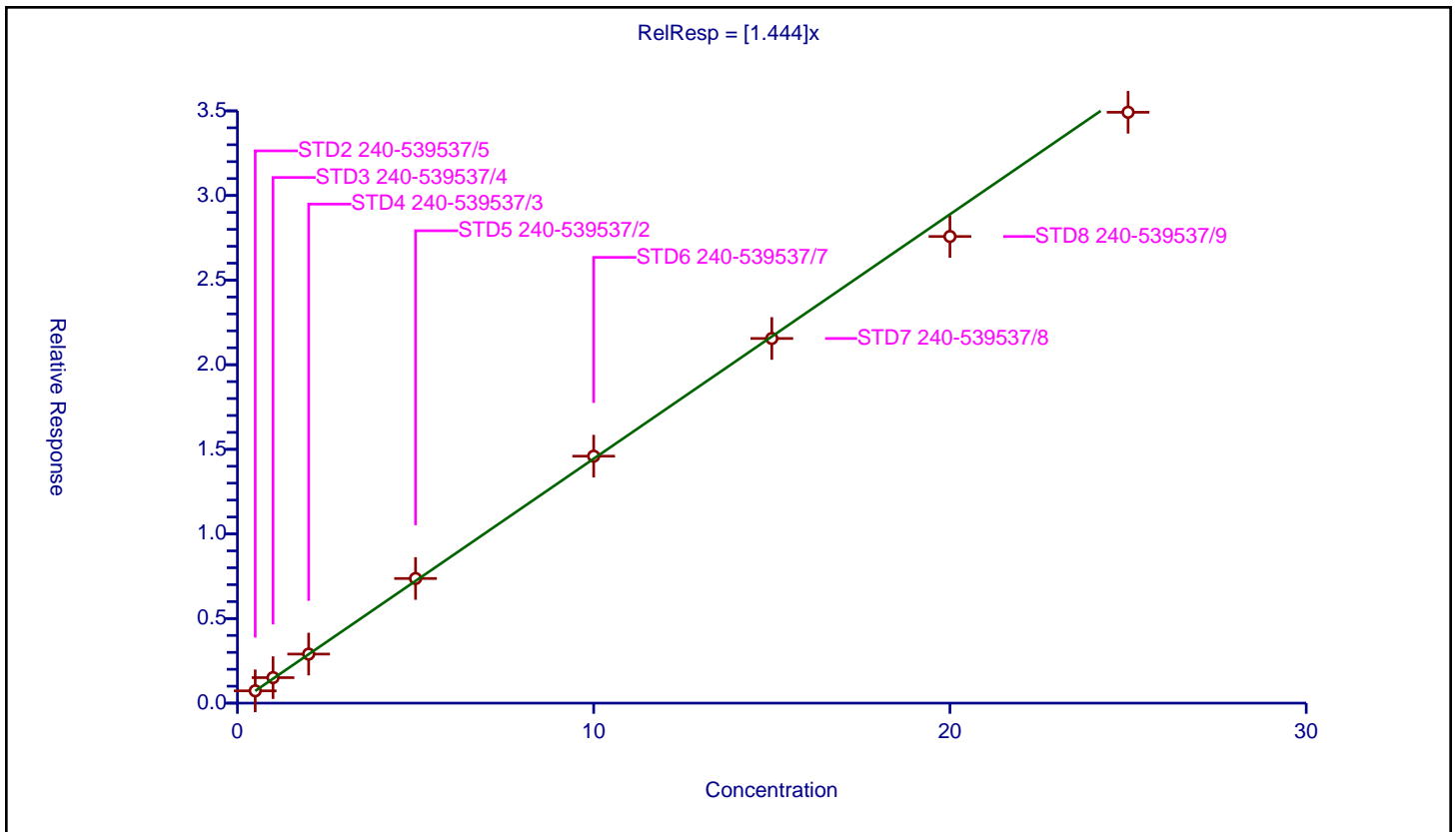
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.444

Error Coefficients	
Standard Error:	833000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.726506	4.0	177320.0	1.453012	Y
2	STD3 240-539537/4	1.0	1.507291	4.0	183248.0	1.507291	Y
3	STD4 240-539537/3	2.0	2.898888	4.0	179277.0	1.449444	Y
4	STD5 240-539537/2	5.0	7.36575	4.0	160328.0	1.47315	Y
5	STD6 240-539537/7	10.0	14.595271	4.0	170971.0	1.459527	Y
6	STD7 240-539537/8	15.0	21.550123	4.0	172585.0	1.436675	Y
7	STD8 240-539537/9	20.0	27.576617	4.0	169917.0	1.378831	Y
8	STD9 240-539537/10	25.0	34.918131	4.0	166730.0	1.396725	Y



Calibration

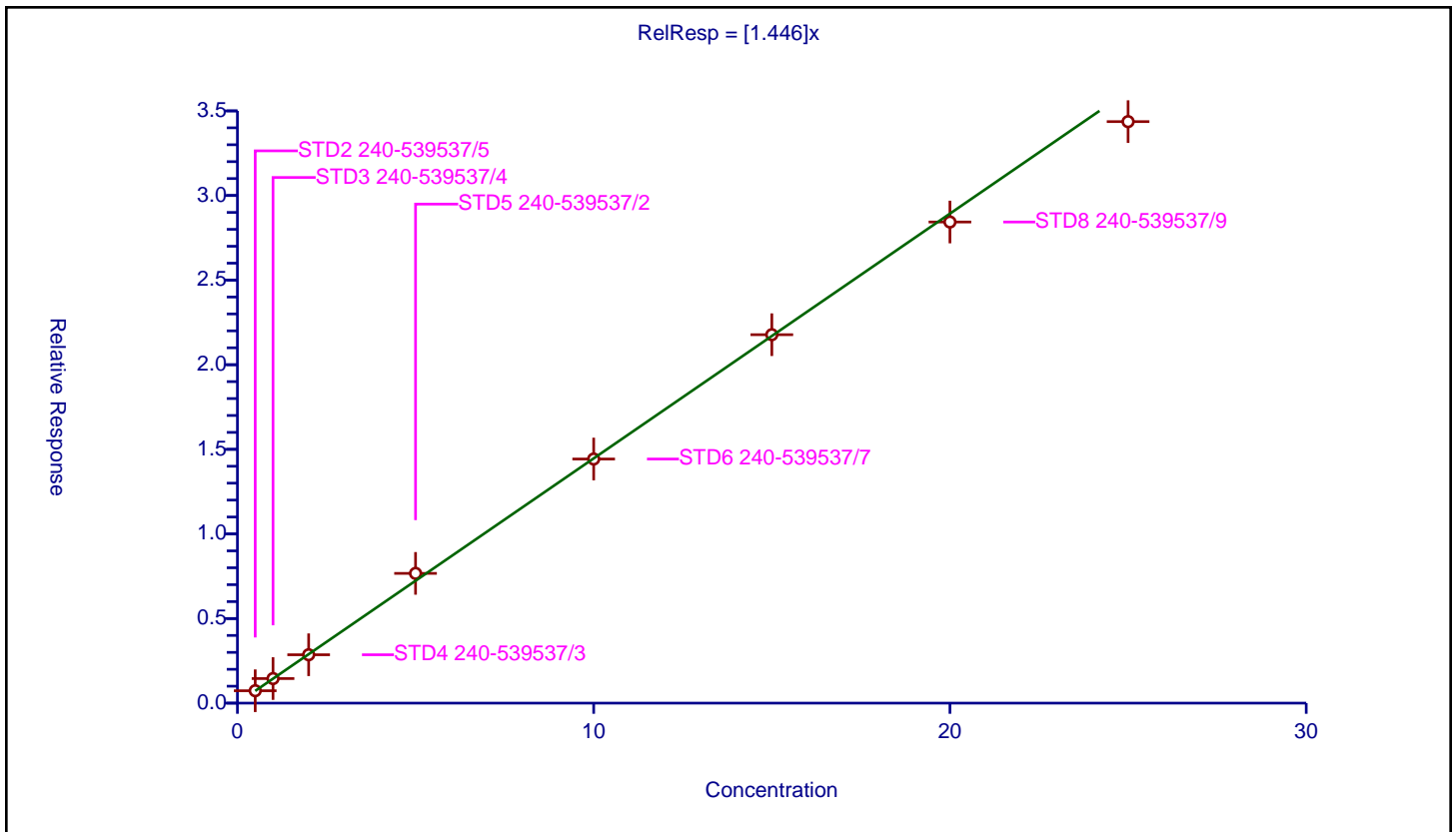
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.446

Error Coefficients	
Standard Error:	836000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.733048	4.0	177320.0	1.466095	Y
2	STD3 240-539537/4	1.0	1.451345	4.0	183248.0	1.451345	Y
3	STD4 240-539537/3	2.0	2.859553	4.0	179277.0	1.429776	Y
4	STD5 240-539537/2	5.0	7.667532	4.0	160328.0	1.533506	Y
5	STD6 240-539537/7	10.0	14.426119	4.0	170971.0	1.442612	Y
6	STD7 240-539537/8	15.0	21.773781	4.0	172585.0	1.451585	Y
7	STD8 240-539537/9	20.0	28.433788	4.0	169917.0	1.421689	Y
8	STD9 240-539537/10	25.0	34.364925	4.0	166730.0	1.374597	Y



Calibration

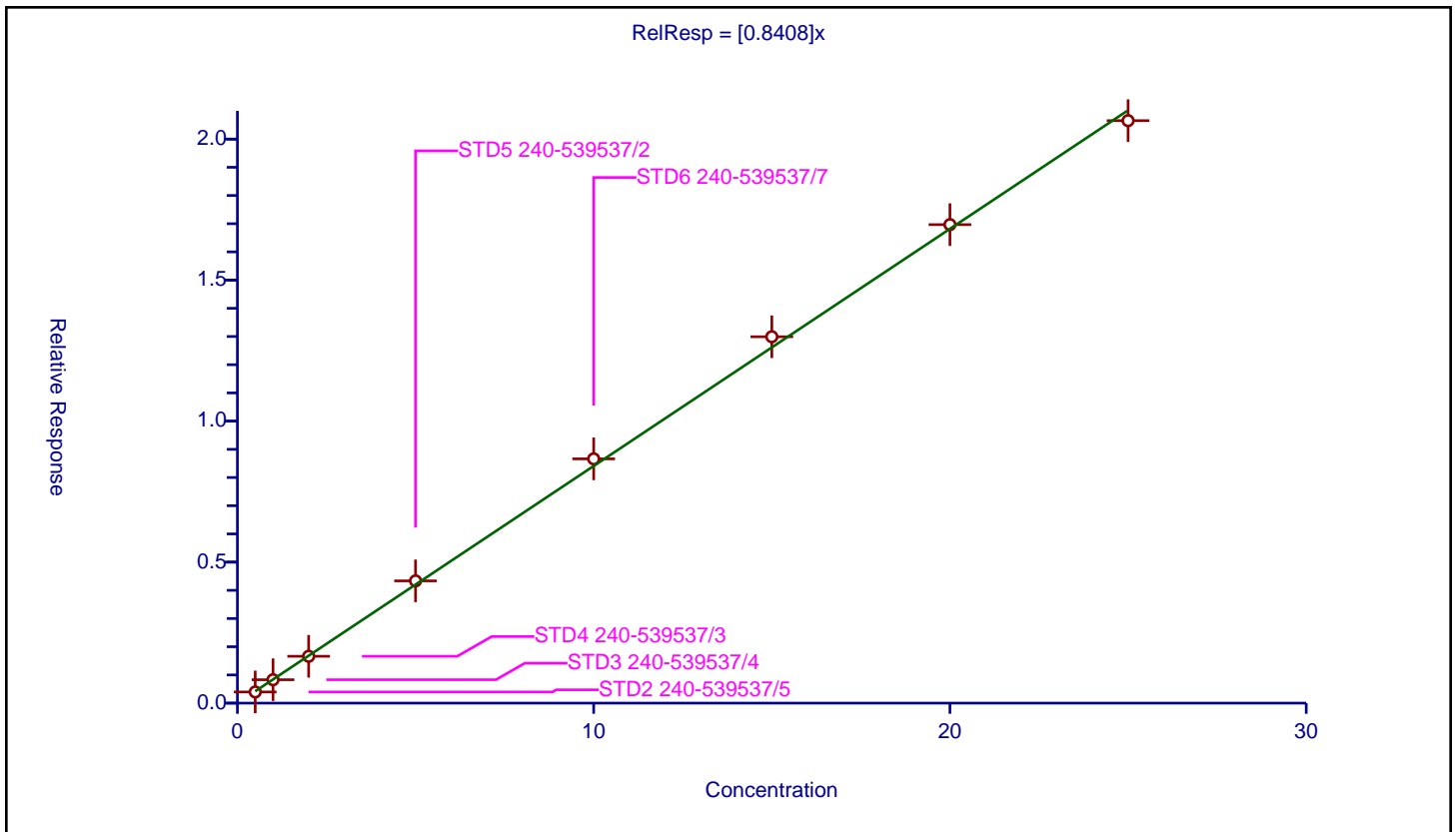
/ Benzyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8408

Error Coefficients	
Standard Error:	500000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.396188	4.0	177320.0	0.792375	Y
2	STD3 240-539537/4	1.0	0.829848	4.0	183248.0	0.829848	Y
3	STD4 240-539537/3	2.0	1.661563	4.0	179277.0	0.830781	Y
4	STD5 240-539537/2	5.0	4.335188	4.0	160328.0	0.867038	Y
5	STD6 240-539537/7	10.0	8.661703	4.0	170971.0	0.86617	Y
6	STD7 240-539537/8	15.0	12.991766	4.0	172585.0	0.866118	Y
7	STD8 240-539537/9	20.0	16.966472	4.0	169917.0	0.848324	Y
8	STD9 240-539537/10	25.0	20.653008	4.0	166730.0	0.82612	Y



Calibration

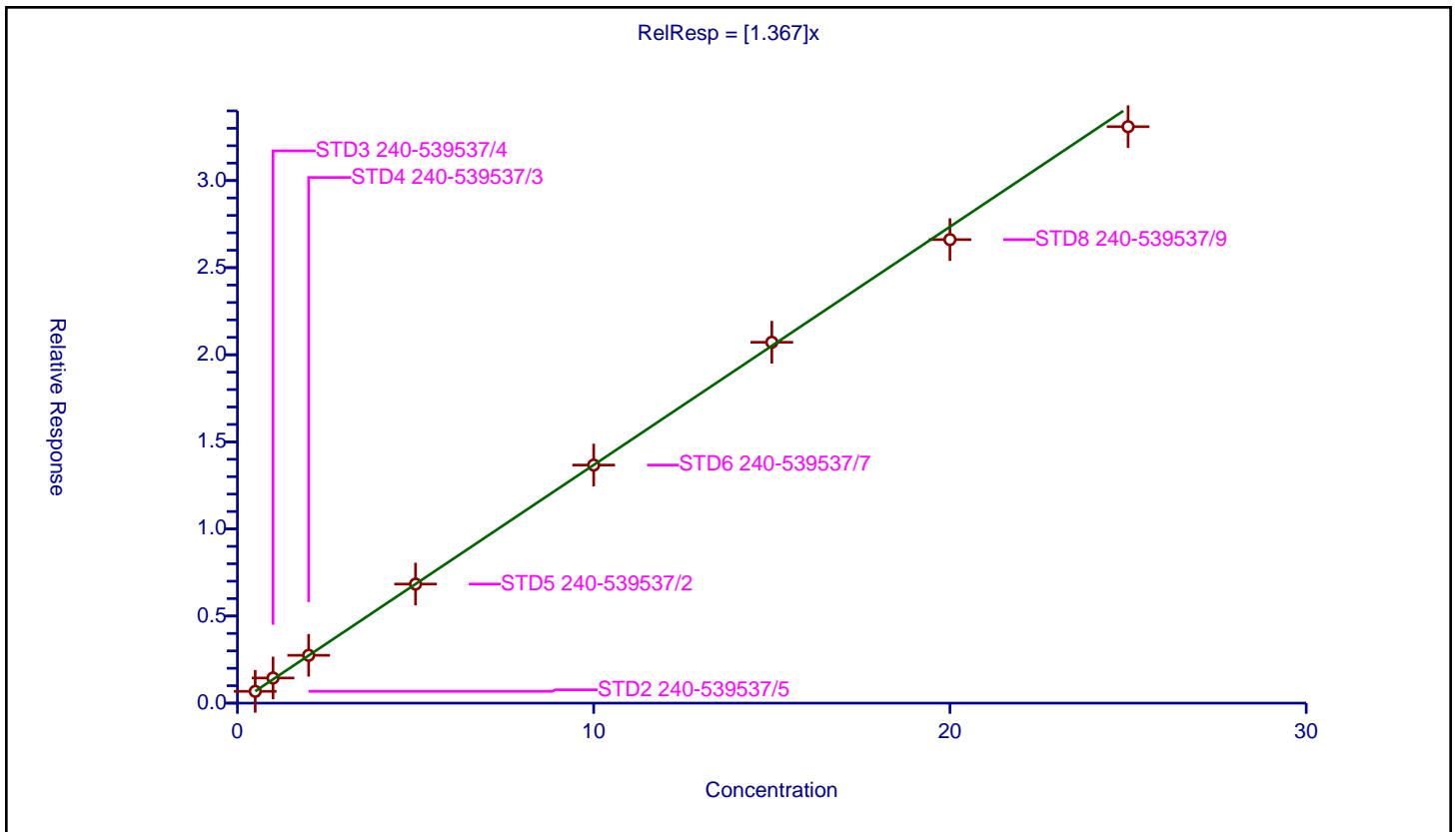
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.367

Error Coefficients	
Standard Error:	794000
Relative Standard Error:	2.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.67672	4.0	177320.0	1.35344	Y
2	STD3 240-539537/4	1.0	1.44305	4.0	183248.0	1.44305	Y
3	STD4 240-539537/3	2.0	2.74574	4.0	179277.0	1.37287	Y
4	STD5 240-539537/2	5.0	6.835986	4.0	160328.0	1.367197	Y
5	STD6 240-539537/7	10.0	13.666926	4.0	170971.0	1.366693	Y
6	STD7 240-539537/8	15.0	20.718162	4.0	172585.0	1.381211	Y
7	STD8 240-539537/9	20.0	26.609556	4.0	169917.0	1.330478	Y
8	STD9 240-539537/10	25.0	33.094008	4.0	166730.0	1.32376	Y



Calibration

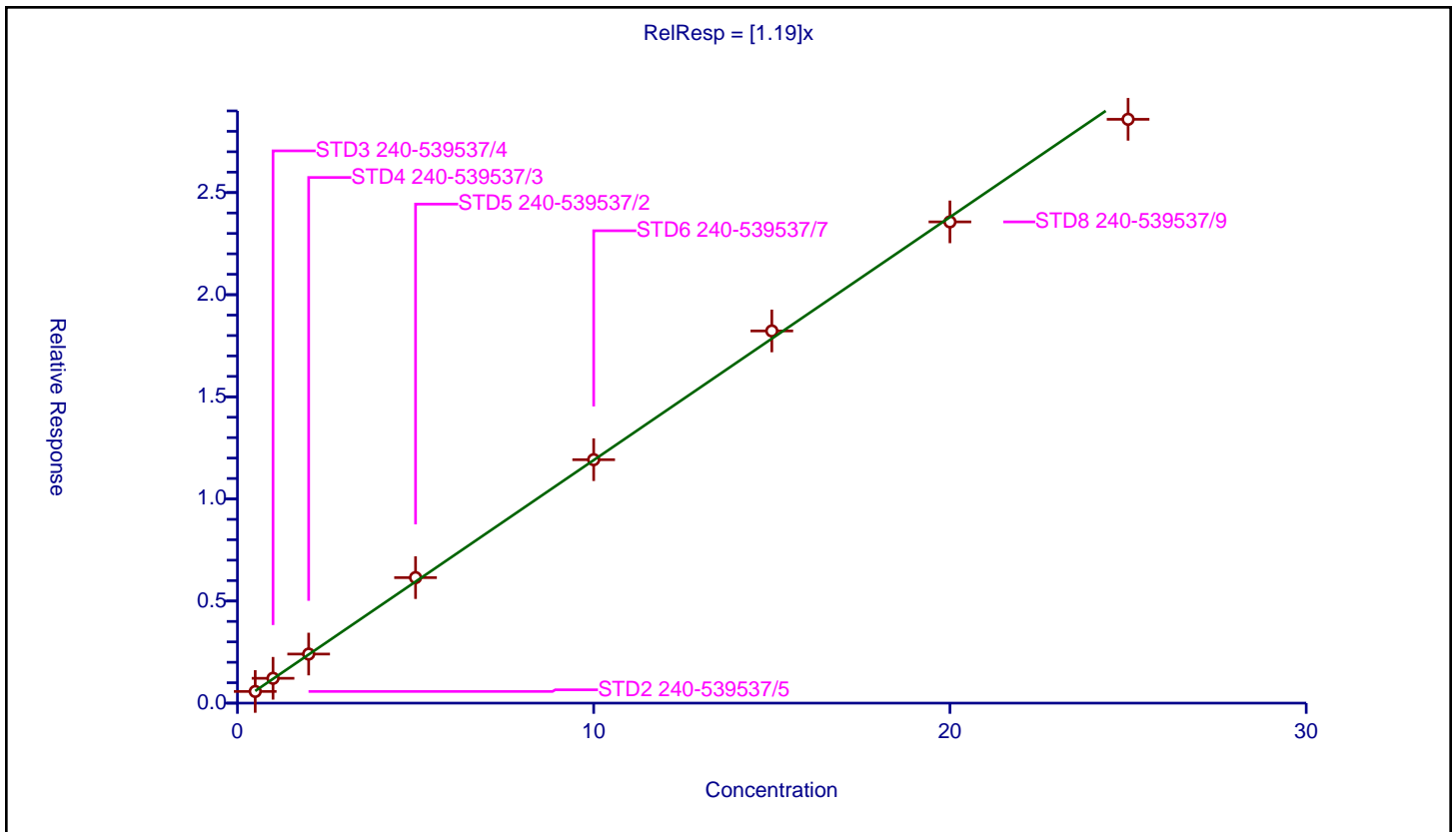
/ 2-Methylphenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.19

Error Coefficients	
Standard Error:	694000
Relative Standard Error:	2.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.571487	4.0	177320.0	1.142973	Y
2	STD3 240-539537/4	1.0	1.216712	4.0	183248.0	1.216712	Y
3	STD4 240-539537/3	2.0	2.402316	4.0	179277.0	1.201158	Y
4	STD5 240-539537/2	5.0	6.14645	4.0	160328.0	1.22929	Y
5	STD6 240-539537/7	10.0	11.920431	4.0	170971.0	1.192043	Y
6	STD7 240-539537/8	15.0	18.225037	4.0	172585.0	1.215002	Y
7	STD8 240-539537/9	20.0	23.565105	4.0	169917.0	1.178255	Y
8	STD9 240-539537/10	25.0	28.587417	4.0	166730.0	1.143497	Y



Calibration

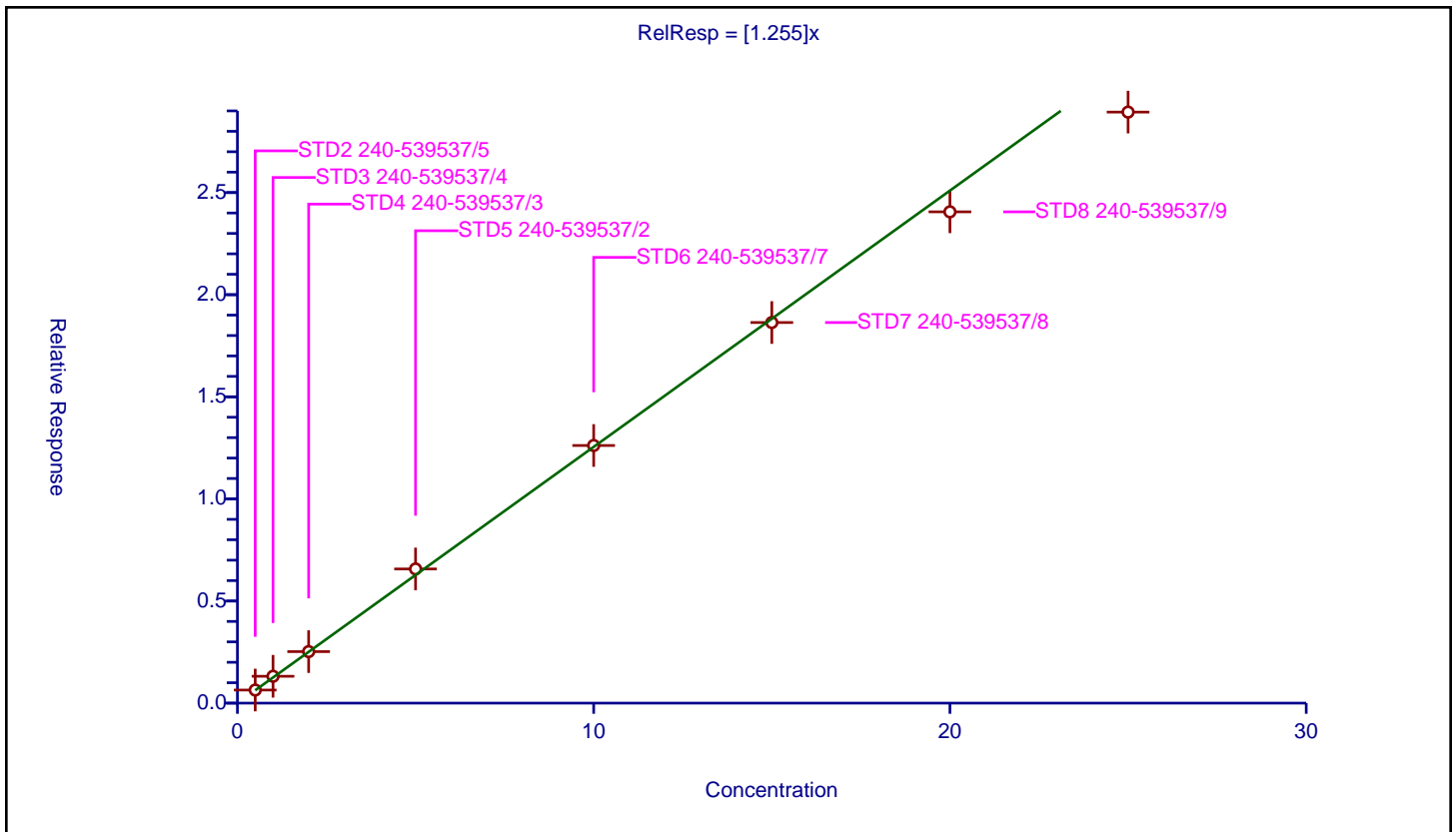
/ 2,2'-oxybis[1-chloropropane]

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.255

Error Coefficients	
Standard Error:	709000
Relative Standard Error:	4.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.641552	4.0	177320.0	1.283104	Y
2	STD3 240-539537/4	1.0	1.315179	4.0	183248.0	1.315179	Y
3	STD4 240-539537/3	2.0	2.523514	4.0	179277.0	1.261757	Y
4	STD5 240-539537/2	5.0	6.569932	4.0	160328.0	1.313986	Y
5	STD6 240-539537/7	10.0	12.615683	4.0	170971.0	1.261568	Y
6	STD7 240-539537/8	15.0	18.636683	4.0	172585.0	1.242446	Y
7	STD8 240-539537/9	20.0	24.05671	4.0	169917.0	1.202836	Y
8	STD9 240-539537/10	25.0	28.940994	4.0	166730.0	1.15764	Y



Calibration

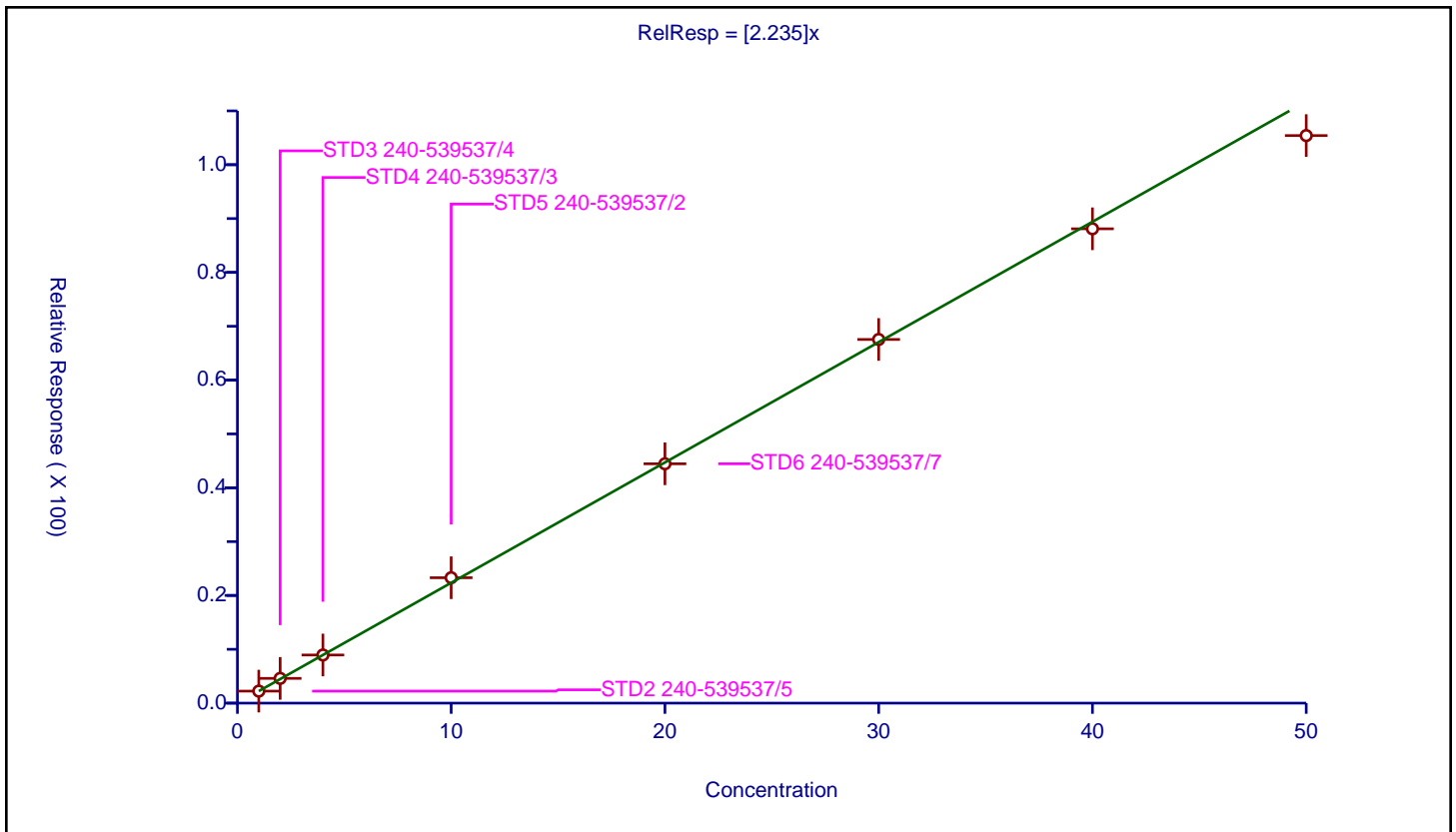
/ Indene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.235

Error Coefficients	
Standard Error:	2580000
Relative Standard Error:	3.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	2.231017	4.0	177320.0	2.231017	Y
2	STD3 240-539537/4	2.0	4.598555	4.0	183248.0	2.299277	Y
3	STD4 240-539537/3	4.0	8.943769	4.0	179277.0	2.235942	Y
4	STD5 240-539537/2	10.0	23.29255	4.0	160328.0	2.329255	Y
5	STD6 240-539537/7	20.0	44.452825	4.0	170971.0	2.222641	Y
6	STD7 240-539537/8	30.0	67.544549	4.0	172585.0	2.251485	Y
7	STD8 240-539537/9	40.0	88.09946	4.0	169917.0	2.202487	Y
8	STD9 240-539537/10	50.0	105.411935	4.0	166730.0	2.108239	Y



Calibration

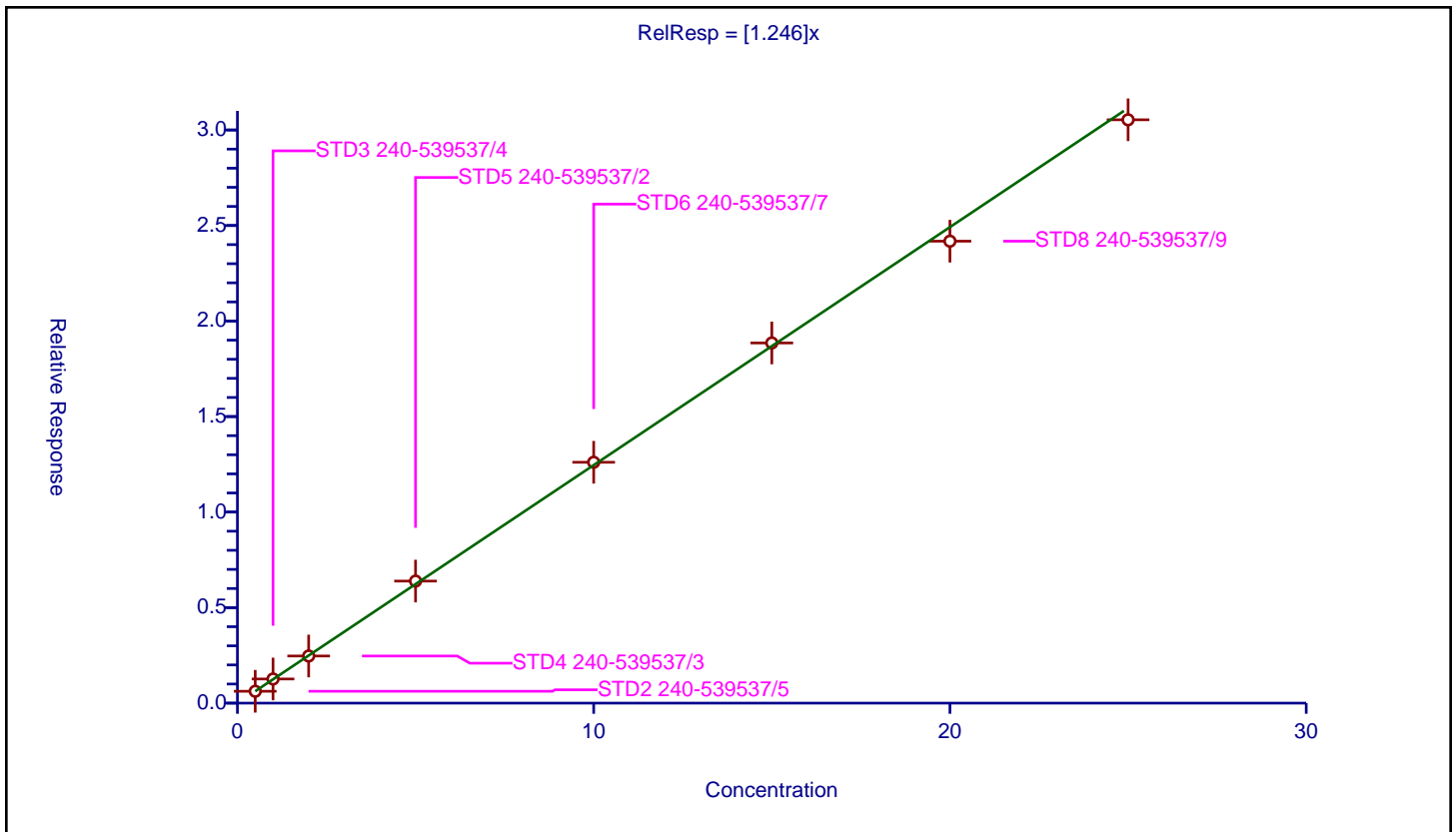
/ 3 & 4 Methylphenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.246

Error Coefficients	
Standard Error:	728000
Relative Standard Error:	1.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.621656	4.0	177320.0	1.243312	Y
2	STD3 240-539537/4	1.0	1.263817	4.0	183248.0	1.263817	Y
3	STD4 240-539537/3	2.0	2.46673	4.0	179277.0	1.233365	Y
4	STD5 240-539537/2	5.0	6.388054	4.0	160328.0	1.277611	Y
5	STD6 240-539537/7	10.0	12.60822	4.0	170971.0	1.260822	Y
6	STD7 240-539537/8	15.0	18.85318	4.0	172585.0	1.256879	Y
7	STD8 240-539537/9	20.0	24.180135	4.0	169917.0	1.209007	Y
8	STD9 240-539537/10	25.0	30.534589	4.0	166730.0	1.221384	Y



Calibration

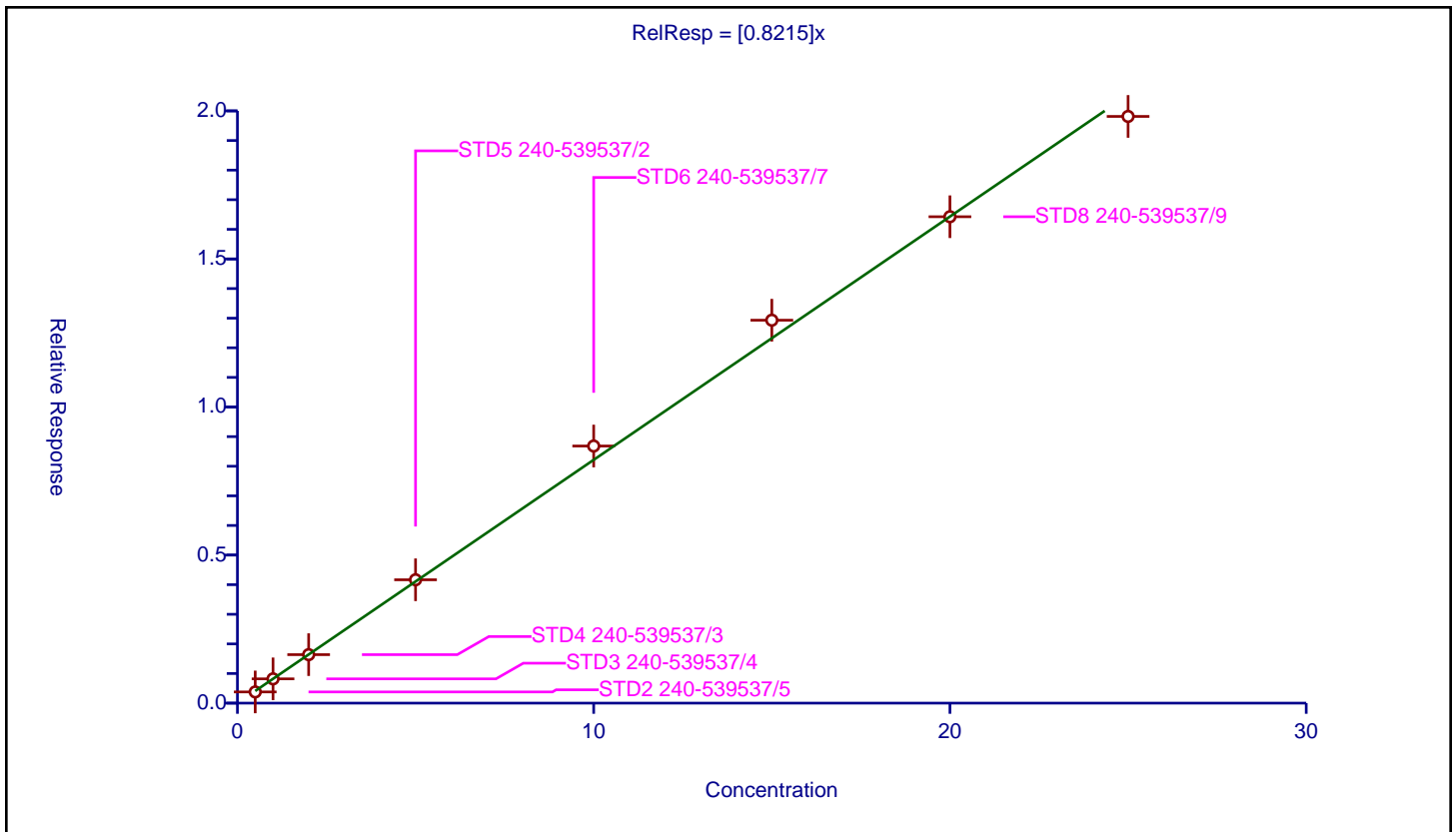
/ N-Nitrosodi-n-propylamine

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8215

Error Coefficients	
Standard Error:	486000
Relative Standard Error:	4.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.378434	4.0	177320.0	0.756869	Y
2	STD3 240-539537/4	1.0	0.819436	4.0	183248.0	0.819436	Y
3	STD4 240-539537/3	2.0	1.637399	4.0	179277.0	0.8187	Y
4	STD5 240-539537/2	5.0	4.166109	4.0	160328.0	0.833222	Y
5	STD6 240-539537/7	10.0	8.682221	4.0	170971.0	0.868222	Y
6	STD7 240-539537/8	15.0	12.931645	4.0	172585.0	0.86211	Y
7	STD8 240-539537/9	20.0	16.425902	4.0	169917.0	0.821295	Y
8	STD9 240-539537/10	25.0	19.813207	4.0	166730.0	0.792528	Y



Calibration

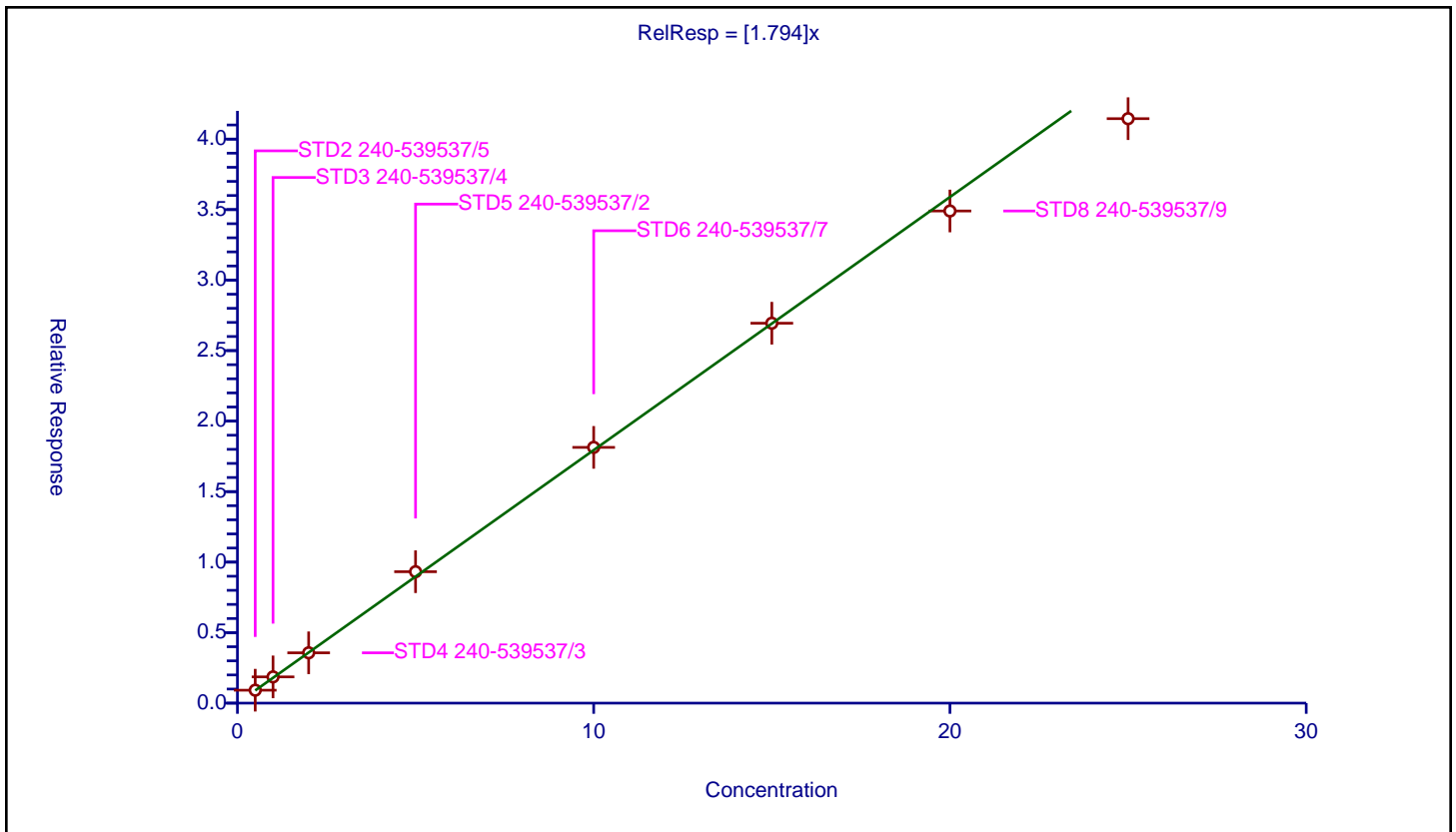
/ Acetophenone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.794

Error Coefficients	
Standard Error:	1020000
Relative Standard Error:	3.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.916783	4.0	177320.0	1.833566	Y
2	STD3 240-539537/4	1.0	1.860626	4.0	183248.0	1.860626	Y
3	STD4 240-539537/3	2.0	3.568534	4.0	179277.0	1.784267	Y
4	STD5 240-539537/2	5.0	9.321117	4.0	160328.0	1.864223	Y
5	STD6 240-539537/7	10.0	18.137439	4.0	170971.0	1.813744	Y
6	STD7 240-539537/8	15.0	26.942295	4.0	172585.0	1.796153	Y
7	STD8 240-539537/9	20.0	34.901723	4.0	169917.0	1.745086	Y
8	STD9 240-539537/10	25.0	41.44761	4.0	166730.0	1.657904	Y



Calibration

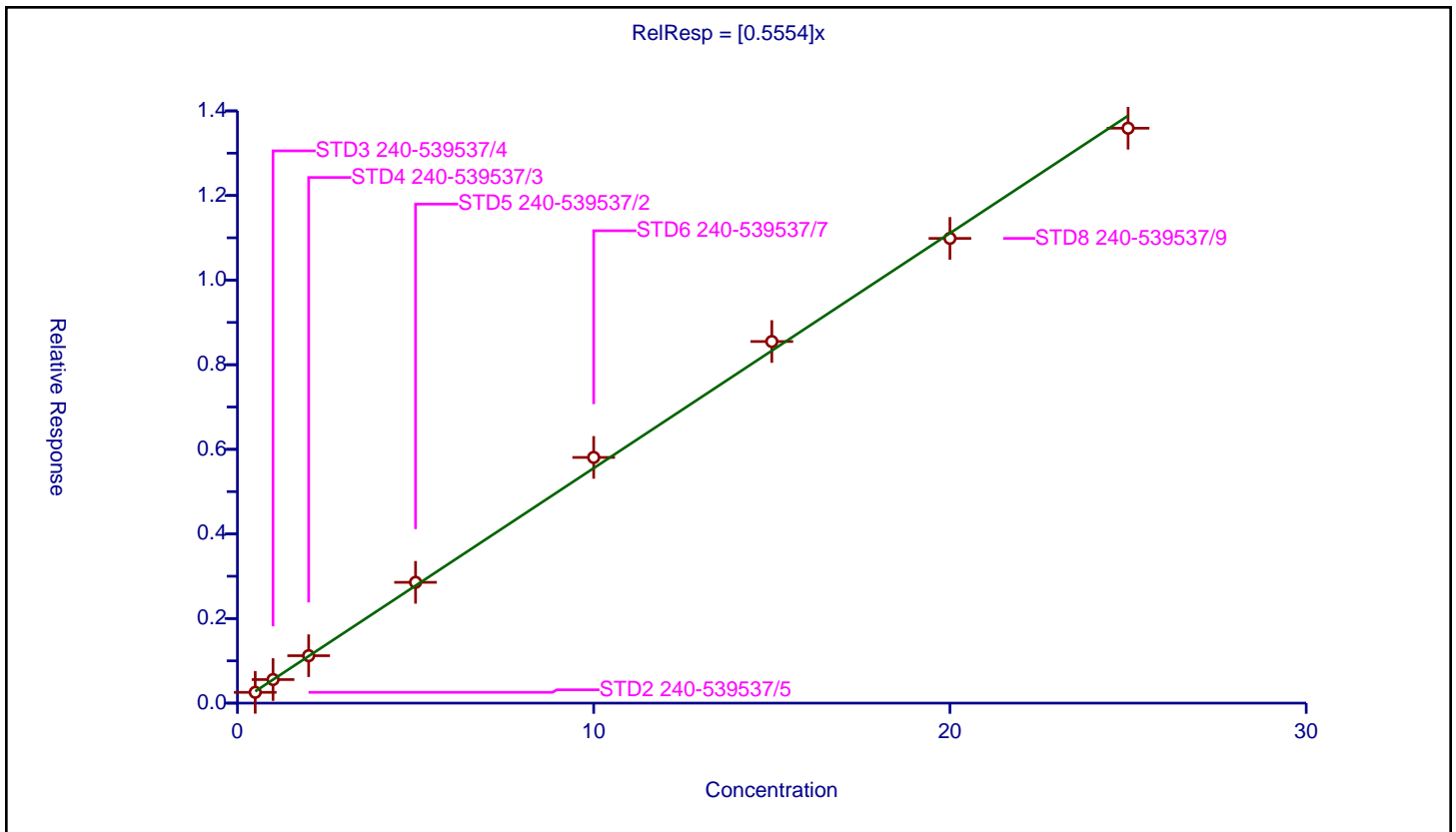
/ Hexachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5554

Error Coefficients	
Standard Error:	328000
Relative Standard Error:	3.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.255448	4.0	177320.0	0.510896	Y
2	STD3 240-539537/4	1.0	0.557168	4.0	183248.0	0.557168	Y
3	STD4 240-539537/3	2.0	1.121058	4.0	179277.0	0.560529	Y
4	STD5 240-539537/2	5.0	2.855646	4.0	160328.0	0.571129	Y
5	STD6 240-539537/7	10.0	5.808564	4.0	170971.0	0.580856	Y
6	STD7 240-539537/8	15.0	8.548066	4.0	172585.0	0.569871	Y
7	STD8 240-539537/9	20.0	10.986376	4.0	169917.0	0.549319	Y
8	STD9 240-539537/10	25.0	13.591027	4.0	166730.0	0.543641	Y



Calibration

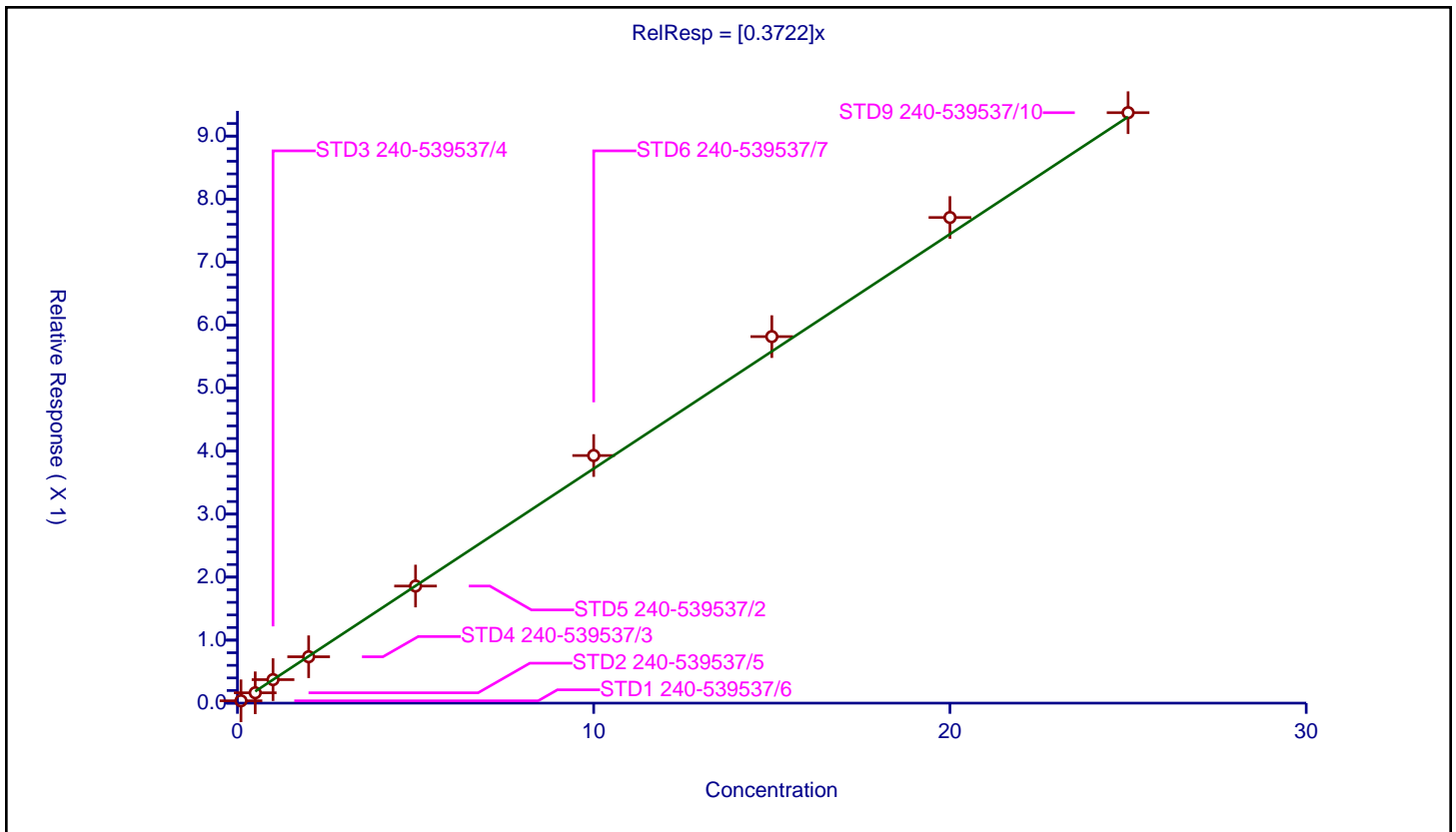
/ Nitrobenzene-d5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3722

Error Coefficients	
Standard Error:	768000
Relative Standard Error:	5.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.036784	4.0	633319.0	0.36784	Y
2	STD2 240-539537/5	0.5	0.164032	4.0	649363.0	0.328063	Y
3	STD3 240-539537/4	1.0	0.372996	4.0	665187.0	0.372996	Y
4	STD4 240-539537/3	2.0	0.736354	4.0	660530.0	0.368177	Y
5	STD5 240-539537/2	5.0	1.858469	4.0	575282.0	0.371694	Y
6	STD6 240-539537/7	10.0	3.929746	4.0	625272.0	0.392975	Y
7	STD7 240-539537/8	15.0	5.817576	4.0	639718.0	0.387838	Y
8	STD8 240-539537/9	20.0	7.707755	4.0	611418.0	0.385388	Y
9	STD9 240-539537/10	25.0	9.371485	4.0	602471.0	0.374859	Y



Calibration

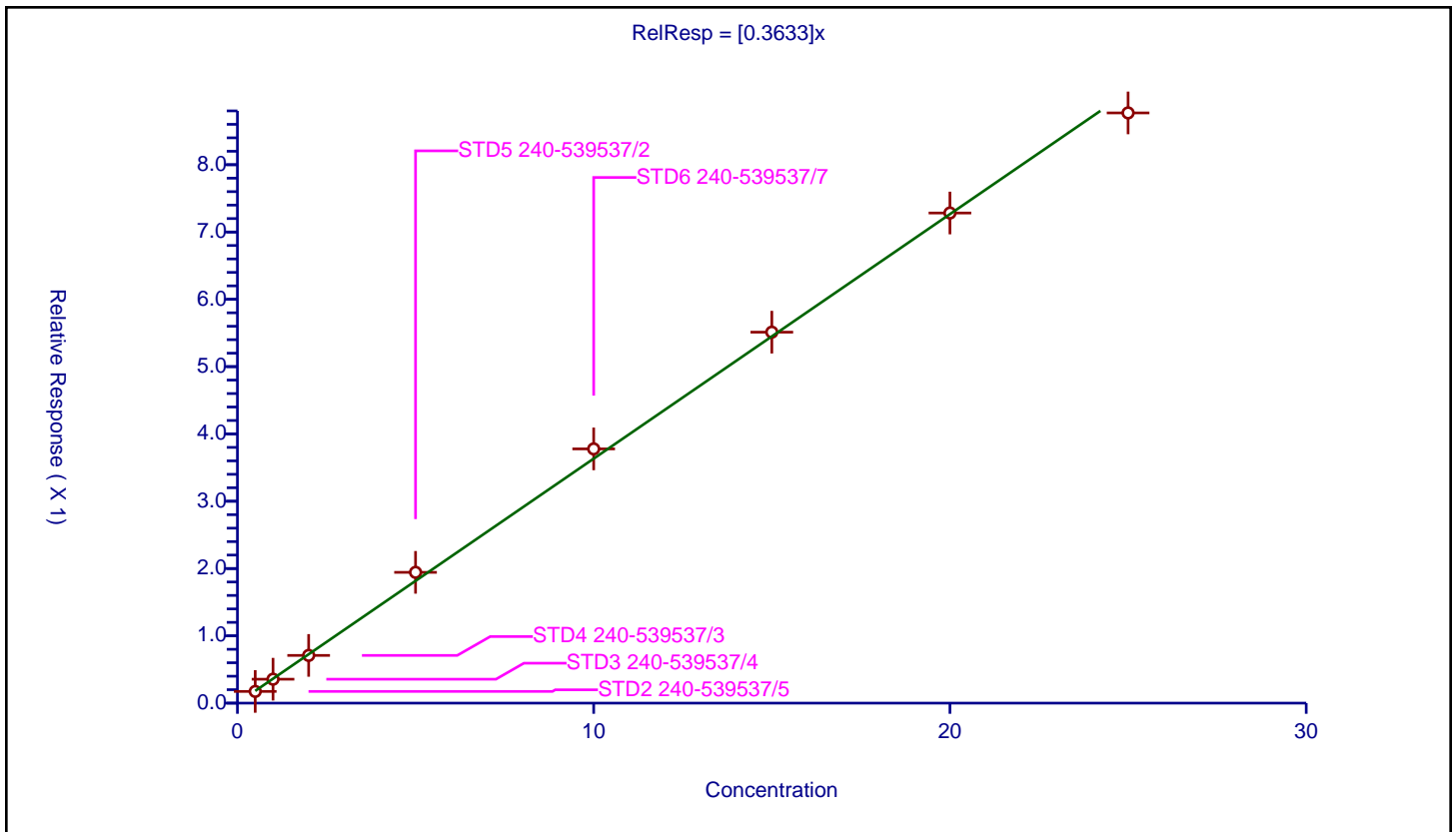
/ Nitrobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3633

Error Coefficients	
Standard Error:	775000
Relative Standard Error:	3.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.173764	4.0	649363.0	0.347528	Y
2	STD3 240-539537/4	1.0	0.355539	4.0	665187.0	0.355539	Y
3	STD4 240-539537/3	2.0	0.708801	4.0	660530.0	0.3544	Y
4	STD5 240-539537/2	5.0	1.943388	4.0	575282.0	0.388678	Y
5	STD6 240-539537/7	10.0	3.777665	4.0	625272.0	0.377766	Y
6	STD7 240-539537/8	15.0	5.512029	4.0	639718.0	0.367469	Y
7	STD8 240-539537/9	20.0	7.282645	4.0	611418.0	0.364132	Y
8	STD9 240-539537/10	25.0	8.769996	4.0	602471.0	0.3508	Y



Calibration

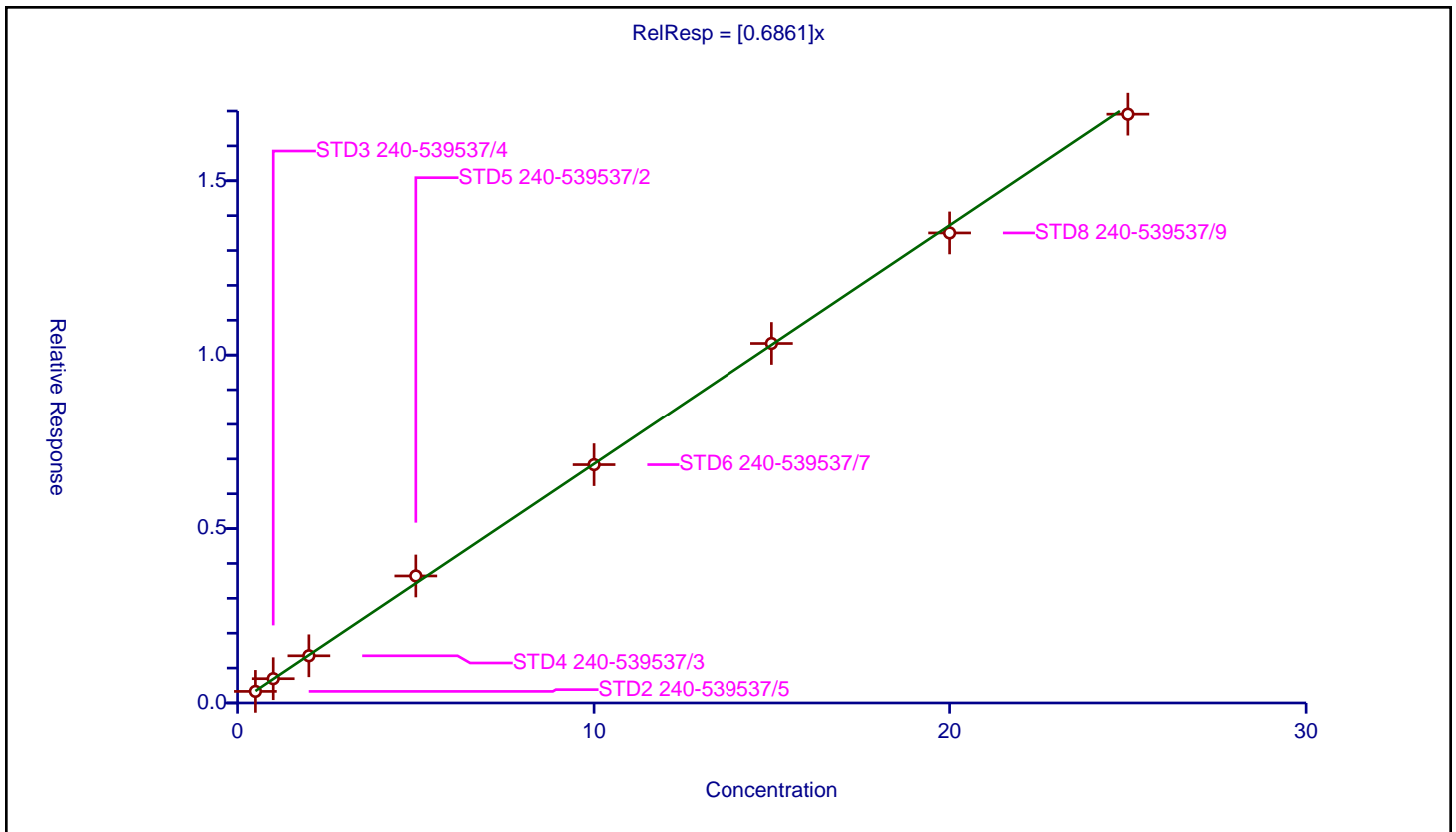
/ Isophorone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6861

Error Coefficients	
Standard Error:	1460000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.331975	4.0	649363.0	0.663949	Y
2	STD3 240-539537/4	1.0	0.696424	4.0	665187.0	0.696424	Y
3	STD4 240-539537/3	2.0	1.352574	4.0	660530.0	0.676287	Y
4	STD5 240-539537/2	5.0	3.641755	4.0	575282.0	0.728351	Y
5	STD6 240-539537/7	10.0	6.835873	4.0	625272.0	0.683587	Y
6	STD7 240-539537/8	15.0	10.333878	4.0	639718.0	0.688925	Y
7	STD8 240-539537/9	20.0	13.505026	4.0	611418.0	0.675251	Y
8	STD9 240-539537/10	25.0	16.909474	4.0	602471.0	0.676379	Y



Calibration

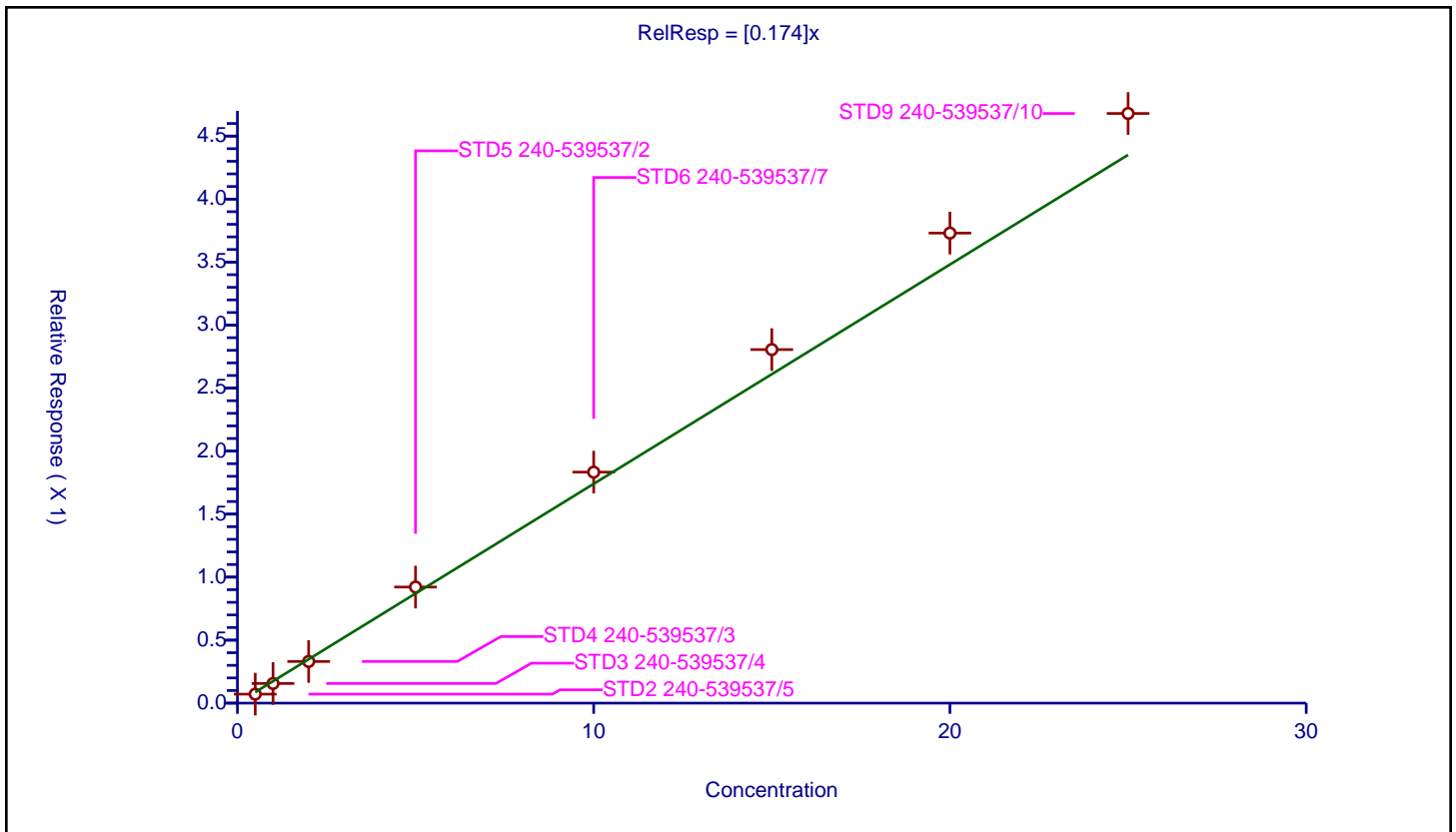
/ 2-Nitrophenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.174

Error Coefficients	
Standard Error:	401000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.071412	4.0	649363.0	0.142823	Y
2	STD3 240-539537/4	1.0	0.15586	4.0	665187.0	0.15586	Y
3	STD4 240-539537/3	2.0	0.330553	4.0	660530.0	0.165276	Y
4	STD5 240-539537/2	5.0	0.921315	4.0	575282.0	0.184263	Y
5	STD6 240-539537/7	10.0	1.833161	4.0	625272.0	0.183316	Y
6	STD7 240-539537/8	15.0	2.805824	4.0	639718.0	0.187055	Y
7	STD8 240-539537/9	20.0	3.730188	4.0	611418.0	0.186509	Y
8	STD9 240-539537/10	25.0	4.679522	4.0	602471.0	0.187181	Y



Calibration

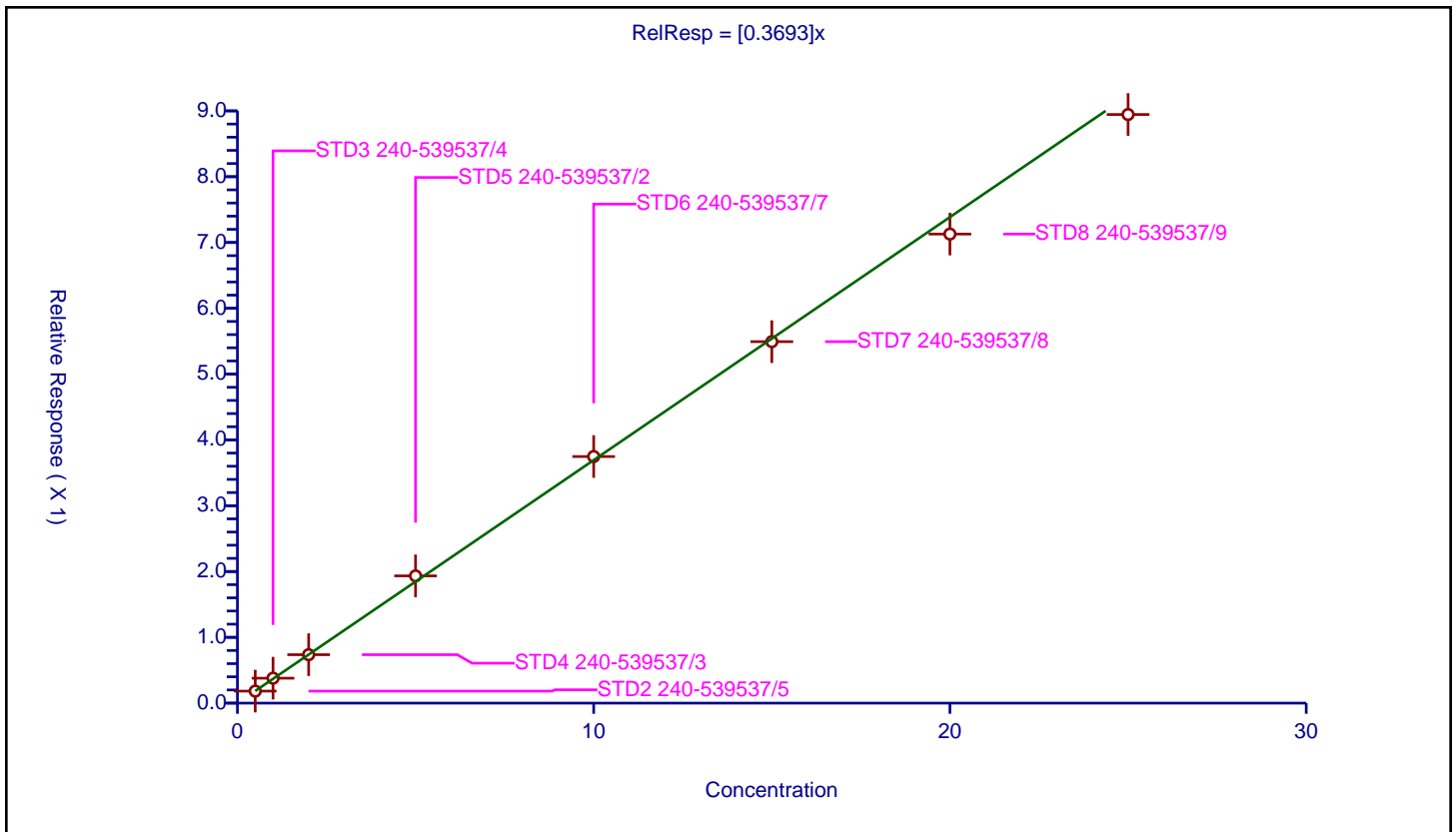
/ 2,4-Dimethylphenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3693

Error Coefficients	
Standard Error:	776000
Relative Standard Error:	2.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.182616	4.0	649363.0	0.365232	Y
2	STD3 240-539537/4	1.0	0.379214	4.0	665187.0	0.379214	Y
3	STD4 240-539537/3	2.0	0.73613	4.0	660530.0	0.368065	Y
4	STD5 240-539537/2	5.0	1.933633	4.0	575282.0	0.386727	Y
5	STD6 240-539537/7	10.0	3.747329	4.0	625272.0	0.374733	Y
6	STD7 240-539537/8	15.0	5.493158	4.0	639718.0	0.366211	Y
7	STD8 240-539537/9	20.0	7.128662	4.0	611418.0	0.356433	Y
8	STD9 240-539537/10	25.0	8.945068	4.0	602471.0	0.357803	Y



Calibration

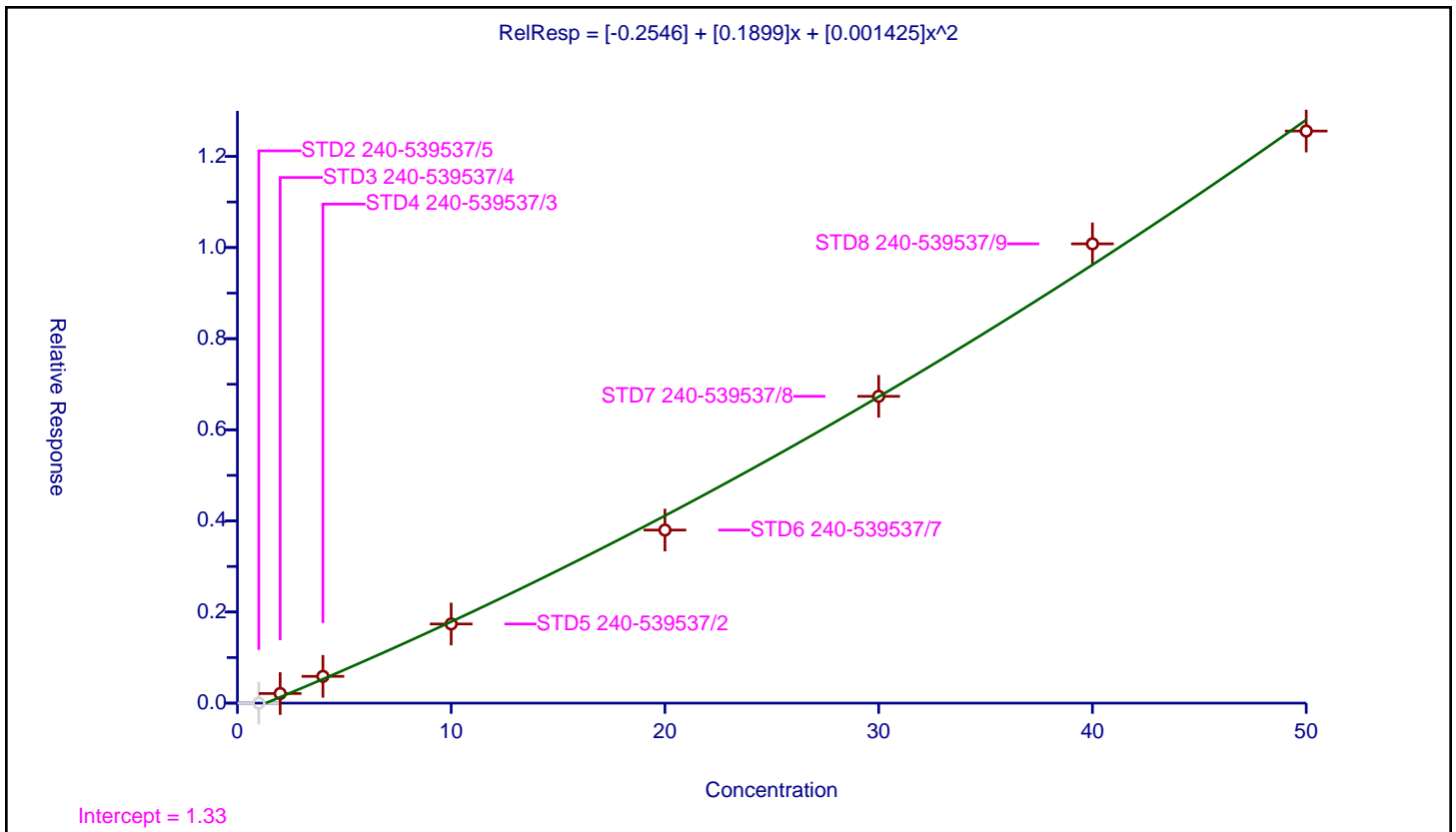
/ Benzoic acid

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.2546
Slope:	0.1899
Second Order:	0.001425

Error Coefficients	
Standard Error:	1370000
Relative Standard Error:	11.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.0	4.0	649363.0	0.0	N
2	STD3 240-539537/4	2.0	0.210912	4.0	665187.0	0.105456	Y
3	STD4 240-539537/3	4.0	0.588037	4.0	660530.0	0.147009	Y
4	STD5 240-539537/2	10.0	1.738062	4.0	575282.0	0.173806	Y
5	STD6 240-539537/7	20.0	3.799083	4.0	625272.0	0.189954	Y
6	STD7 240-539537/8	30.0	6.73433	4.0	639718.0	0.224478	Y
7	STD8 240-539537/9	40.0	10.081286	4.0	611418.0	0.252032	Y
8	STD9 240-539537/10	50.0	12.557252	4.0	602471.0	0.251145	Y



Calibration

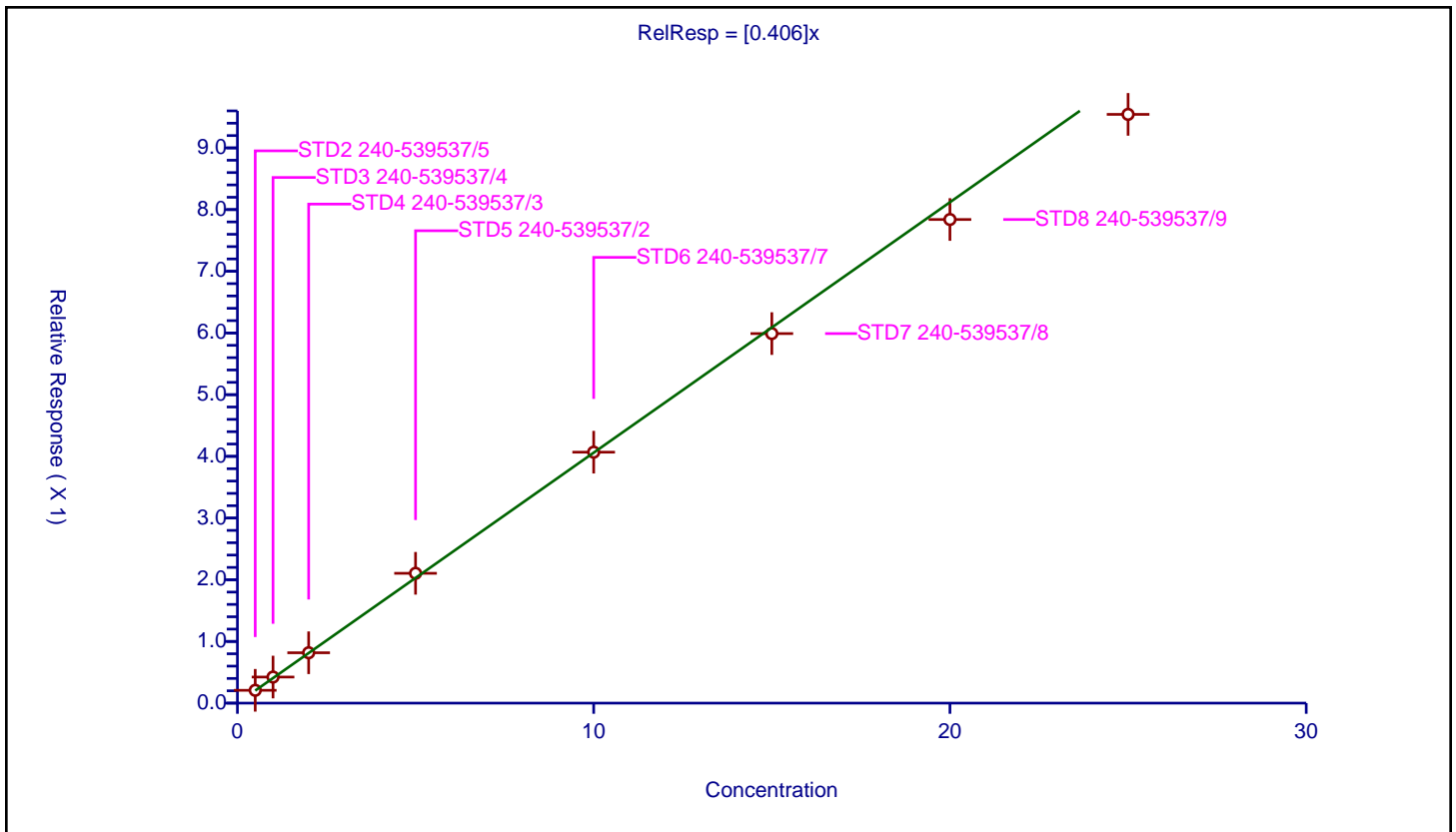
/ Bis(2-chloroethoxy)methane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.406

Error Coefficients	
Standard Error:	840000
Relative Standard Error:	3.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.207847	4.0	649363.0	0.415694	Y
2	STD3 240-539537/4	1.0	0.423027	4.0	665187.0	0.423027	Y
3	STD4 240-539537/3	2.0	0.816514	4.0	660530.0	0.408257	Y
4	STD5 240-539537/2	5.0	2.104255	4.0	575282.0	0.420851	Y
5	STD6 240-539537/7	10.0	4.067708	4.0	625272.0	0.406771	Y
6	STD7 240-539537/8	15.0	5.990171	4.0	639718.0	0.399345	Y
7	STD8 240-539537/9	20.0	7.839311	4.0	611418.0	0.391966	Y
8	STD9 240-539537/10	25.0	9.543351	4.0	602471.0	0.381734	Y



Calibration

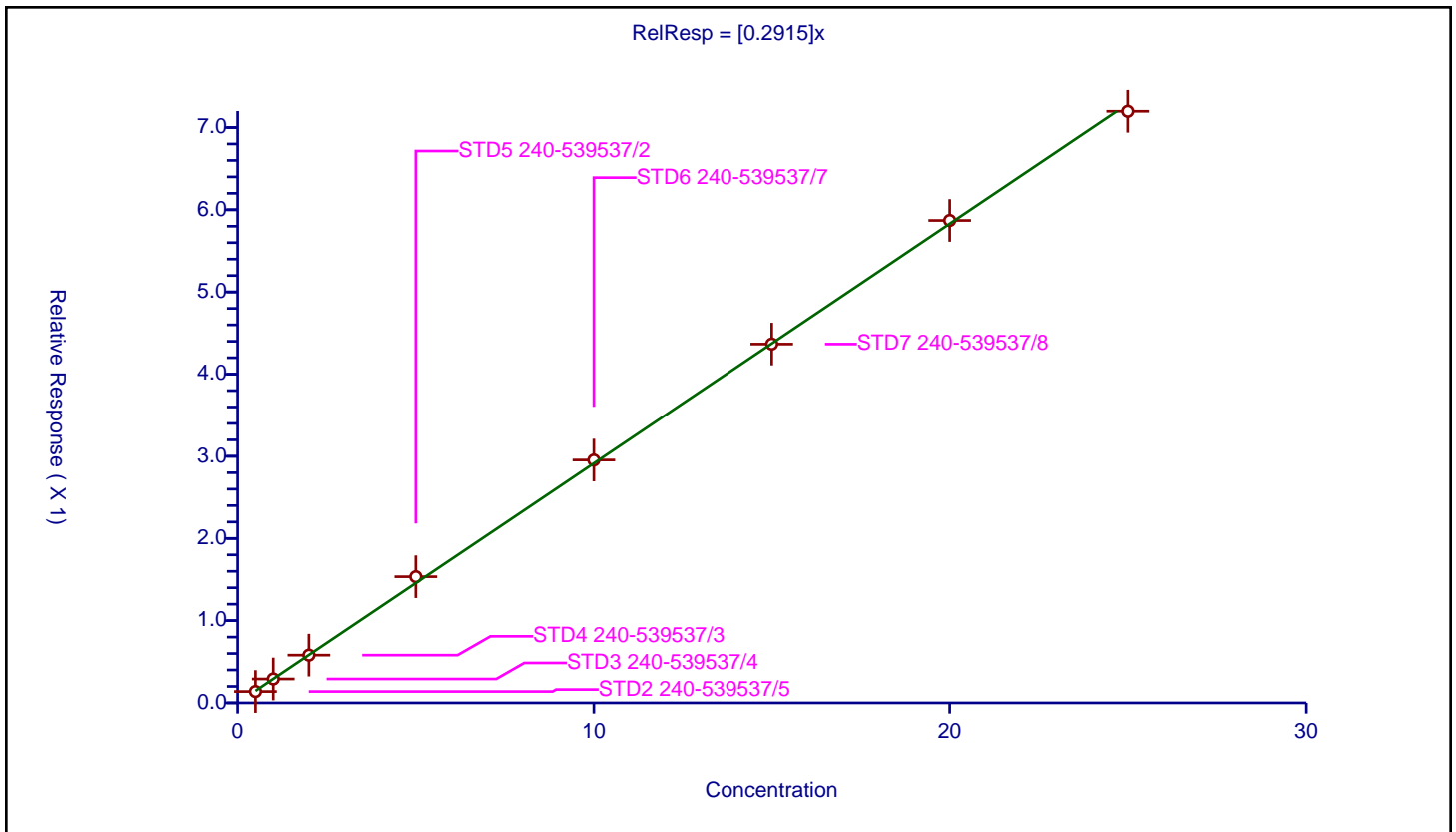
/ 2,4-Dichlorophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2915

Error Coefficients	
Standard Error:	626000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.138209	4.0	649363.0	0.276419	Y
2	STD3 240-539537/4	1.0	0.290457	4.0	665187.0	0.290457	Y
3	STD4 240-539537/3	2.0	0.580255	4.0	660530.0	0.290128	Y
4	STD5 240-539537/2	5.0	1.534524	4.0	575282.0	0.306905	Y
5	STD6 240-539537/7	10.0	2.954759	4.0	625272.0	0.295476	Y
6	STD7 240-539537/8	15.0	4.366261	4.0	639718.0	0.291084	Y
7	STD8 240-539537/9	20.0	5.869981	4.0	611418.0	0.293499	Y
8	STD9 240-539537/10	25.0	7.197226	4.0	602471.0	0.287889	Y



Calibration

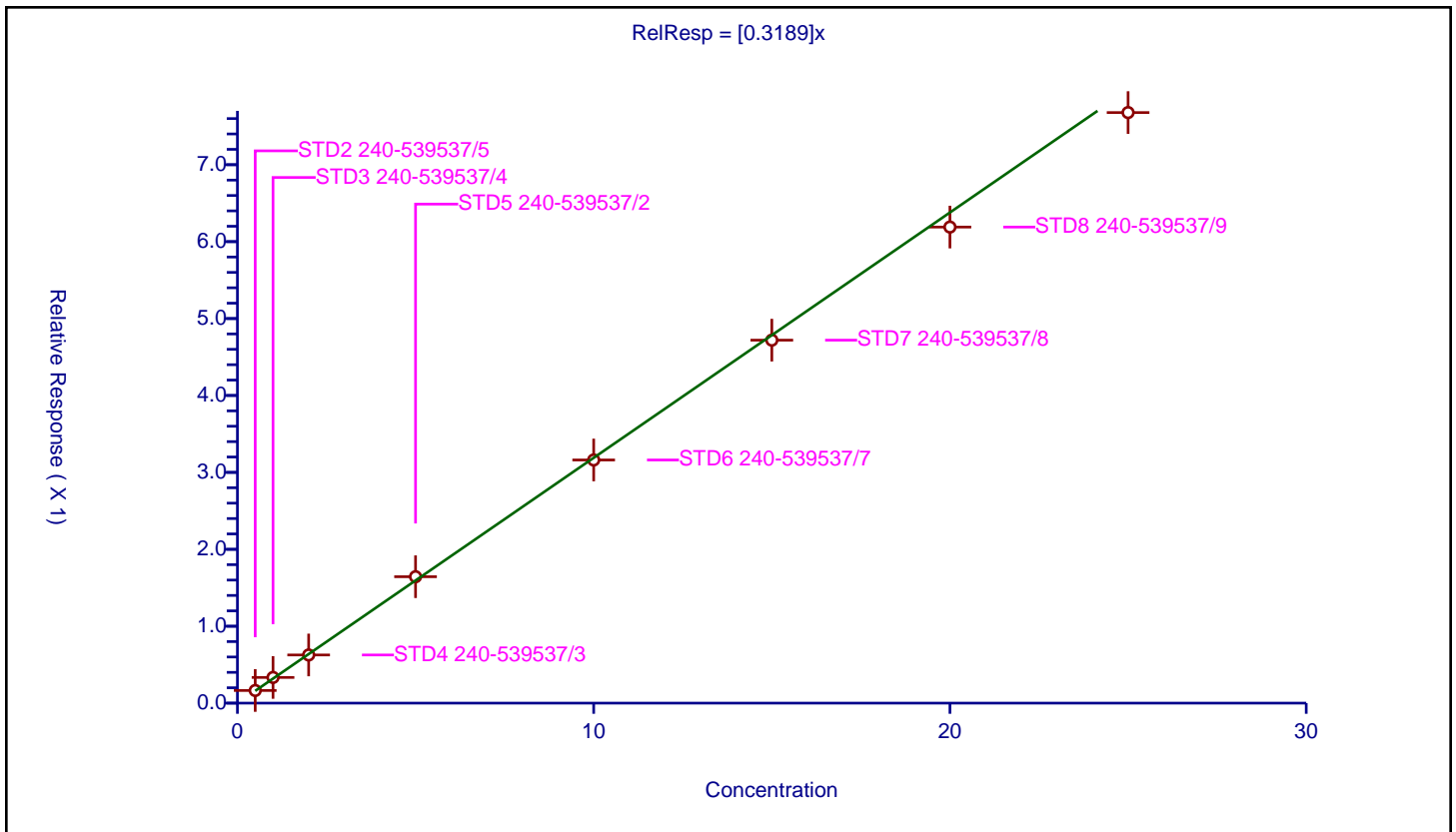
/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3189

Error Coefficients	
Standard Error:	667000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.164173	4.0	649363.0	0.328346	Y
2	STD3 240-539537/4	1.0	0.333969	4.0	665187.0	0.333969	Y
3	STD4 240-539537/3	2.0	0.62623	4.0	660530.0	0.313115	Y
4	STD5 240-539537/2	5.0	1.643716	4.0	575282.0	0.328743	Y
5	STD6 240-539537/7	10.0	3.16121	4.0	625272.0	0.316121	Y
6	STD7 240-539537/8	15.0	4.719279	4.0	639718.0	0.314619	Y
7	STD8 240-539537/9	20.0	6.189631	4.0	611418.0	0.309482	Y
8	STD9 240-539537/10	25.0	7.678225	4.0	602471.0	0.307129	Y



Calibration

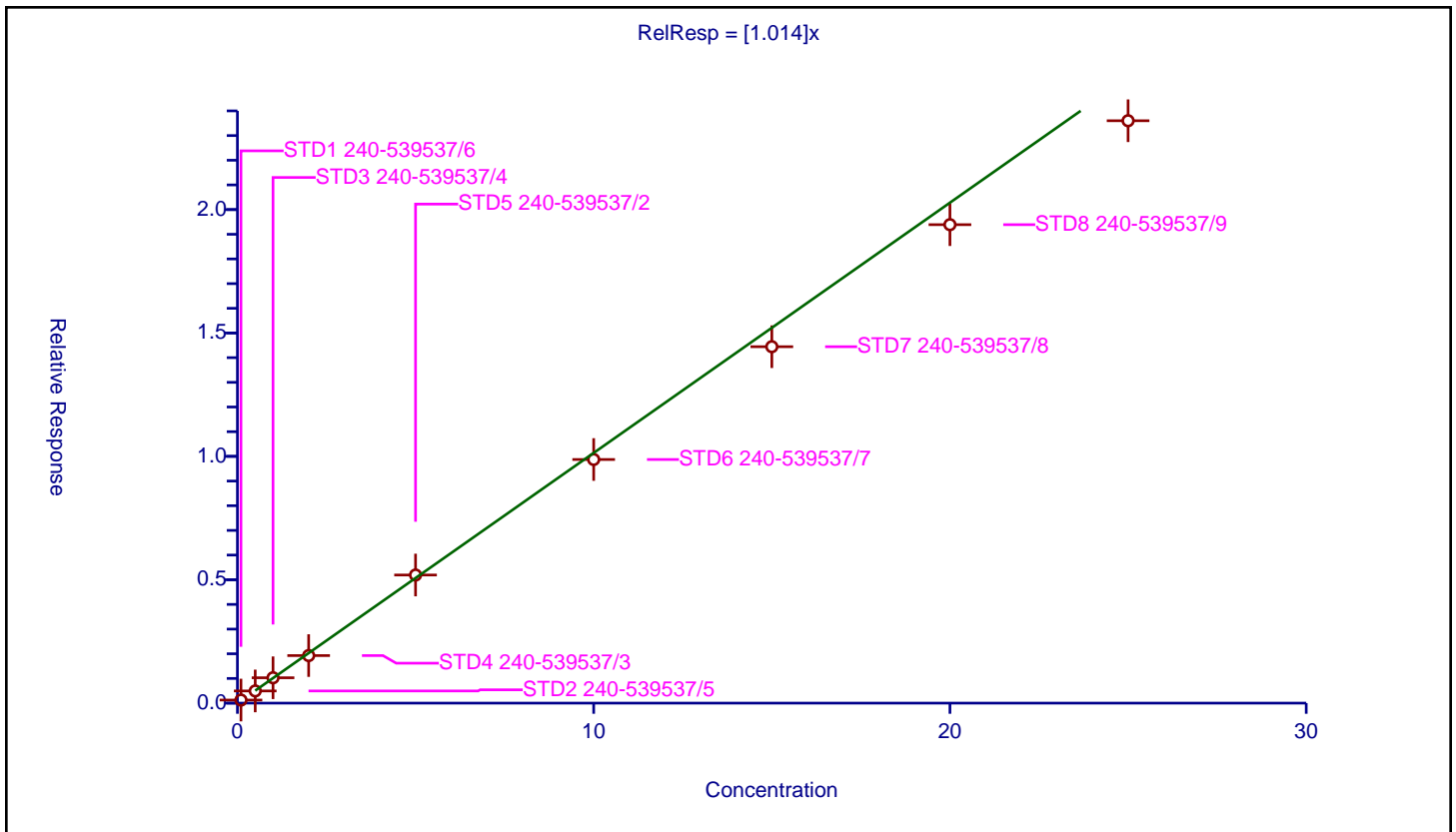
/ Naphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.014

Error Coefficients	
Standard Error:	1930000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.124487	4.0	633319.0	1.24487	Y
2	STD2 240-539537/5	0.5	0.493838	4.0	649363.0	0.987676	Y
3	STD3 240-539537/4	1.0	1.027837	4.0	665187.0	1.027837	Y
4	STD4 240-539537/3	2.0	1.926653	4.0	660530.0	0.963326	Y
5	STD5 240-539537/2	5.0	5.191631	4.0	575282.0	1.038326	Y
6	STD6 240-539537/7	10.0	9.872727	4.0	625272.0	0.987273	Y
7	STD7 240-539537/8	15.0	14.443802	4.0	639718.0	0.96292	Y
8	STD8 240-539537/9	20.0	19.38904	4.0	611418.0	0.969452	Y
9	STD9 240-539537/10	25.0	23.601103	4.0	602471.0	0.944044	Y



Calibration

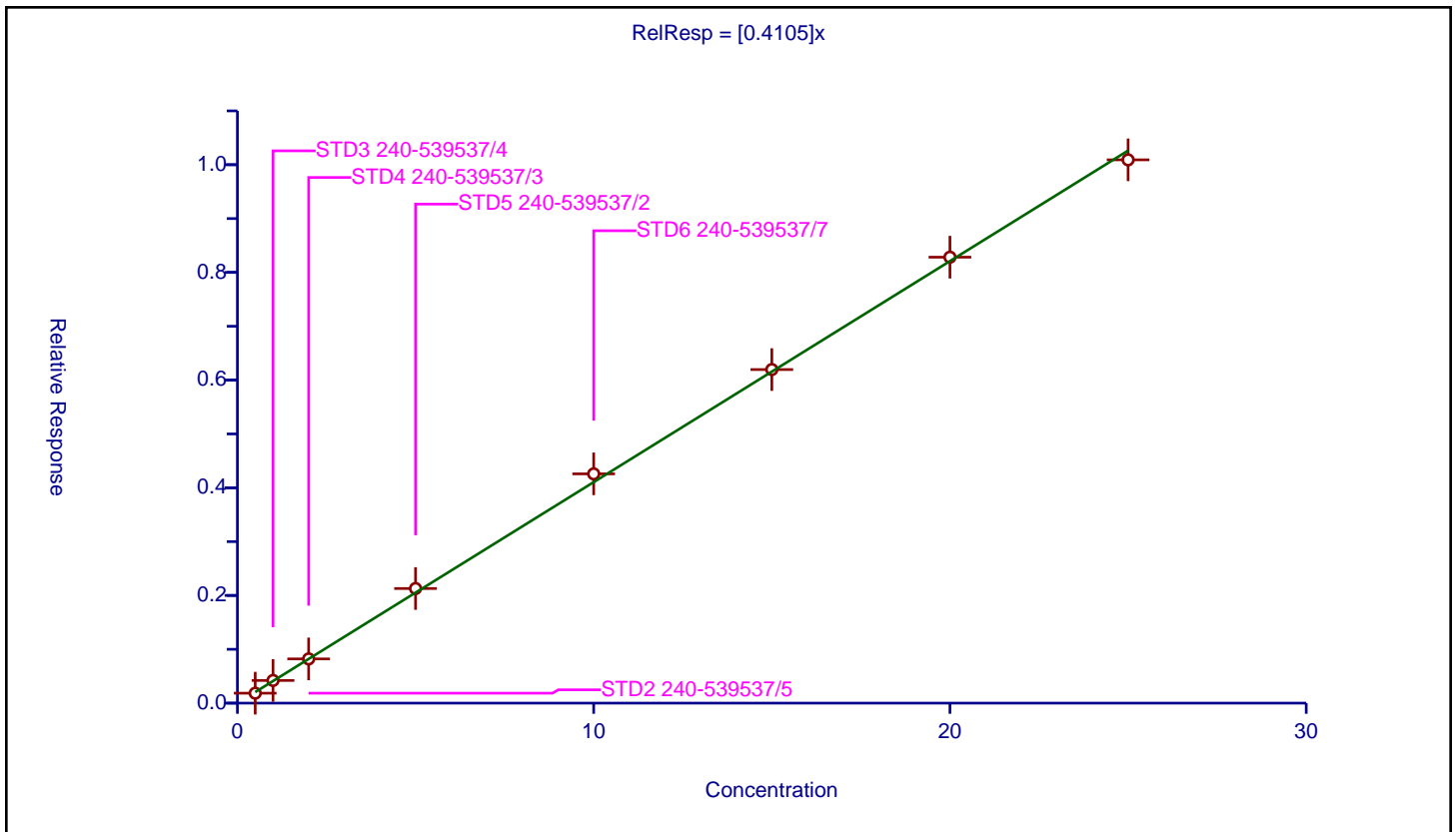
/ 4-Chloroaniline

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4105

Error Coefficients	
Standard Error:	883000
Relative Standard Error:	4.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.18471	4.0	649363.0	0.36942	Y
2	STD3 240-539537/4	1.0	0.421169	4.0	665187.0	0.421169	Y
3	STD4 240-539537/3	2.0	0.821619	4.0	660530.0	0.41081	Y
4	STD5 240-539537/2	5.0	2.128626	4.0	575282.0	0.425725	Y
5	STD6 240-539537/7	10.0	4.258499	4.0	625272.0	0.42585	Y
6	STD7 240-539537/8	15.0	6.195624	4.0	639718.0	0.413042	Y
7	STD8 240-539537/9	20.0	8.282543	4.0	611418.0	0.414127	Y
8	STD9 240-539537/10	25.0	10.09061	4.0	602471.0	0.403624	Y



Calibration

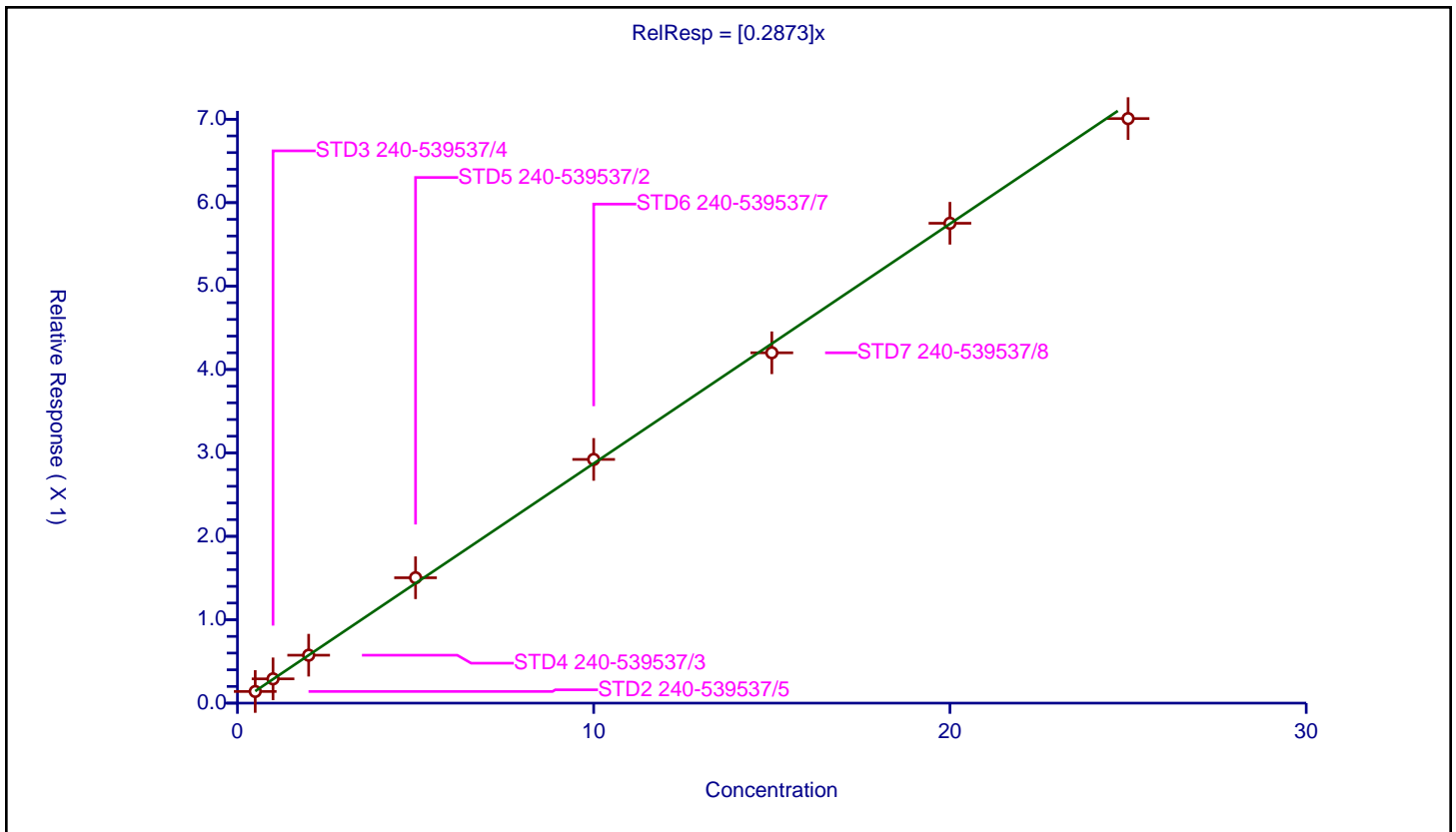
/ 2,6-Dichlorophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2873

Error Coefficients	
Standard Error:	610000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.139755	4.0	649363.0	0.279511	Y
2	STD3 240-539537/4	1.0	0.291004	4.0	665187.0	0.291004	Y
3	STD4 240-539537/3	2.0	0.574508	4.0	660530.0	0.287254	Y
4	STD5 240-539537/2	5.0	1.503005	4.0	575282.0	0.300601	Y
5	STD6 240-539537/7	10.0	2.921647	4.0	625272.0	0.292165	Y
6	STD7 240-539537/8	15.0	4.200113	4.0	639718.0	0.280008	Y
7	STD8 240-539537/9	20.0	5.752758	4.0	611418.0	0.287638	Y
8	STD9 240-539537/10	25.0	7.007567	4.0	602471.0	0.280303	Y



Calibration

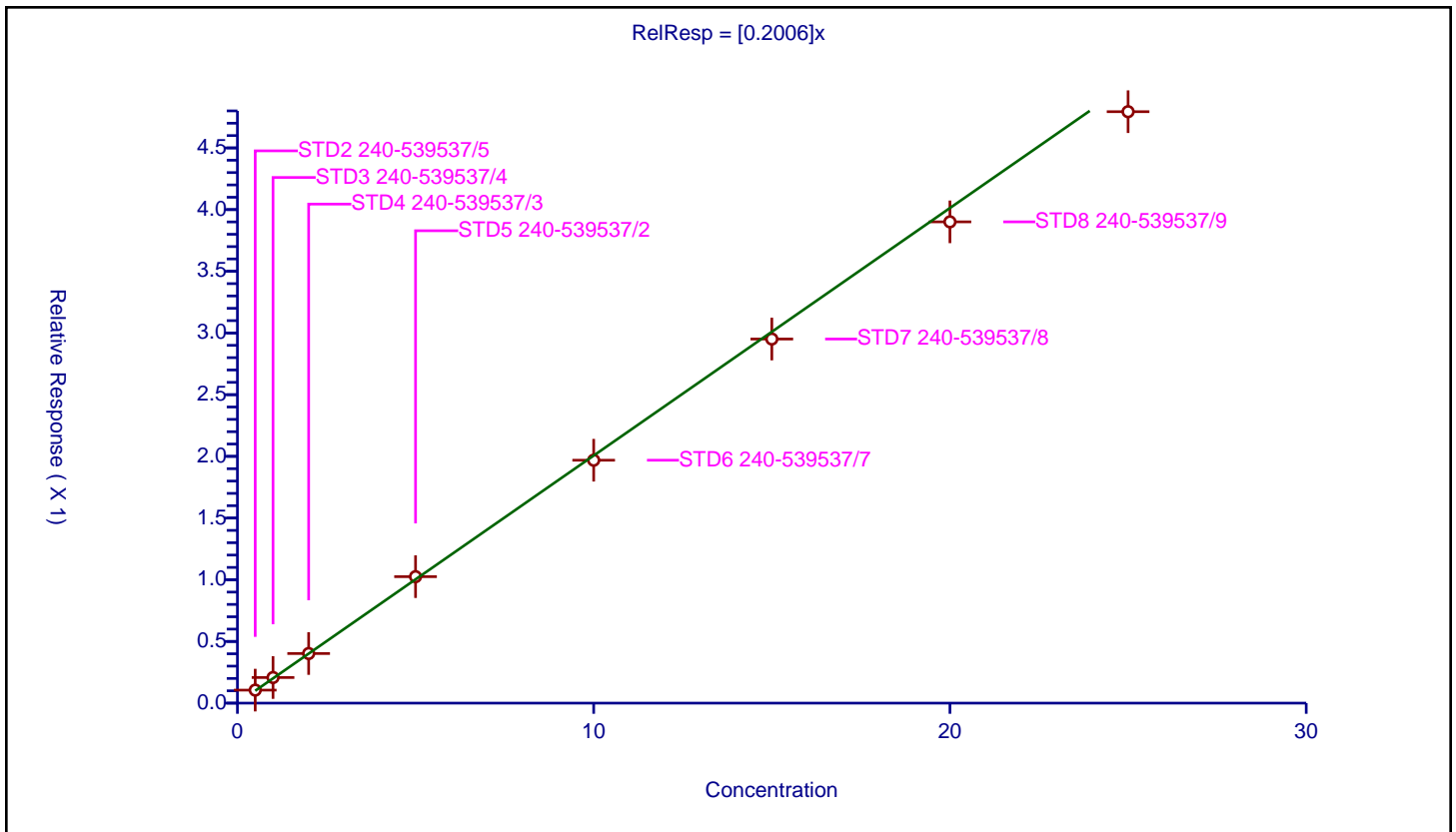
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2006

Error Coefficients	
Standard Error:	418000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.105488	4.0	649363.0	0.210976	Y
2	STD3 240-539537/4	1.0	0.207617	4.0	665187.0	0.207617	Y
3	STD4 240-539537/3	2.0	0.402144	4.0	660530.0	0.201072	Y
4	STD5 240-539537/2	5.0	1.024986	4.0	575282.0	0.204997	Y
5	STD6 240-539537/7	10.0	1.968833	4.0	625272.0	0.196883	Y
6	STD7 240-539537/8	15.0	2.951007	4.0	639718.0	0.196734	Y
7	STD8 240-539537/9	20.0	3.900716	4.0	611418.0	0.195036	Y
8	STD9 240-539537/10	25.0	4.793605	4.0	602471.0	0.191744	Y



Calibration

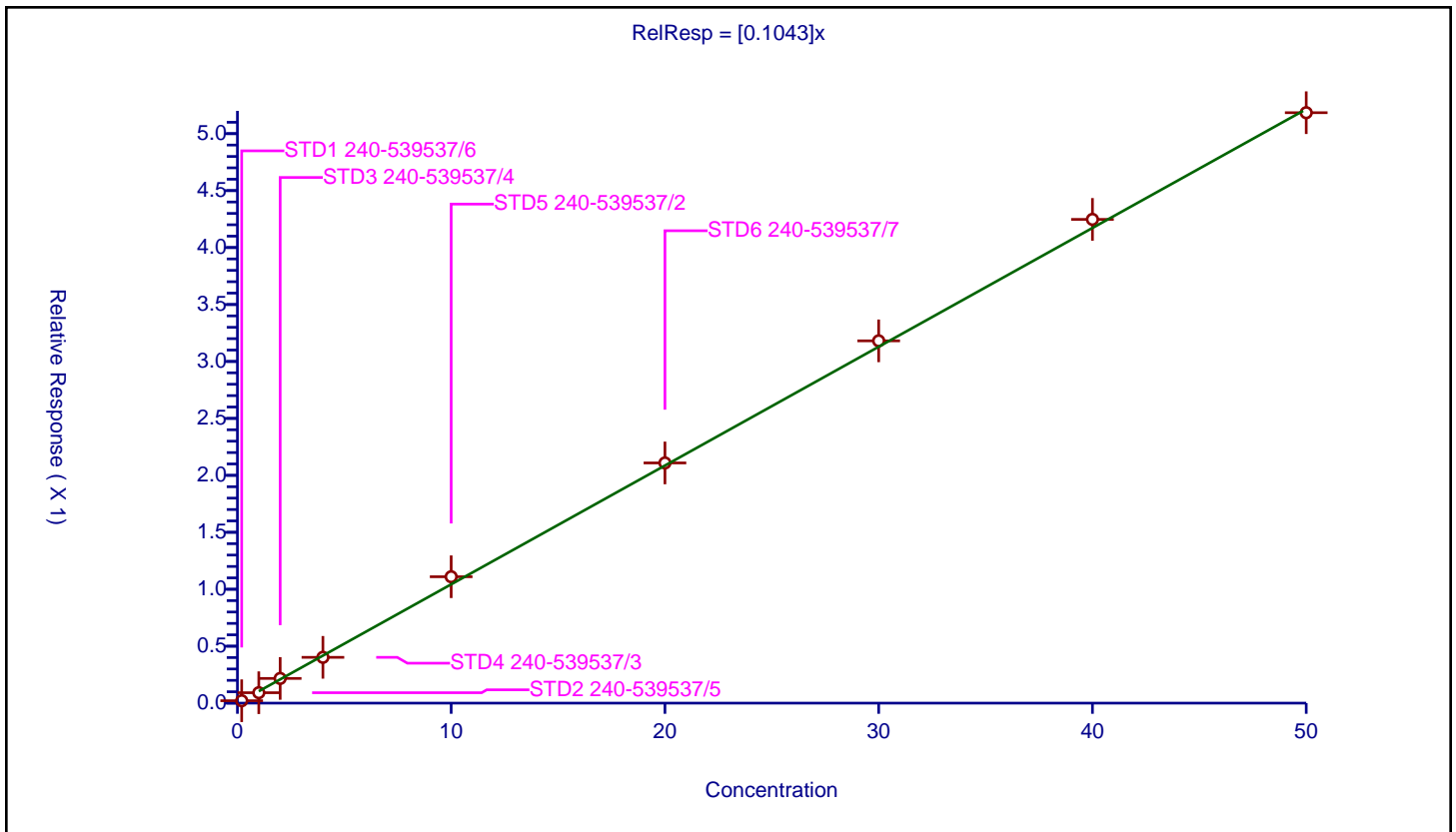
/ Caprolactam

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1043

Error Coefficients	
Standard Error:	423000
Relative Standard Error:	5.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.2	0.021184	4.0	633319.0	0.105918	Y
2	STD2 240-539537/5	1.0	0.091542	4.0	649363.0	0.091542	Y
3	STD3 240-539537/4	2.0	0.216853	4.0	665187.0	0.108427	Y
4	STD4 240-539537/3	4.0	0.401998	4.0	660530.0	0.1005	Y
5	STD5 240-539537/2	10.0	1.109696	4.0	575282.0	0.11097	Y
6	STD6 240-539537/7	20.0	2.108945	4.0	625272.0	0.105447	Y
7	STD7 240-539537/8	30.0	3.180964	4.0	639718.0	0.106032	Y
8	STD8 240-539537/9	40.0	4.247274	4.0	611418.0	0.106182	Y
9	STD9 240-539537/10	50.0	5.184097	4.0	602471.0	0.103682	Y



Calibration

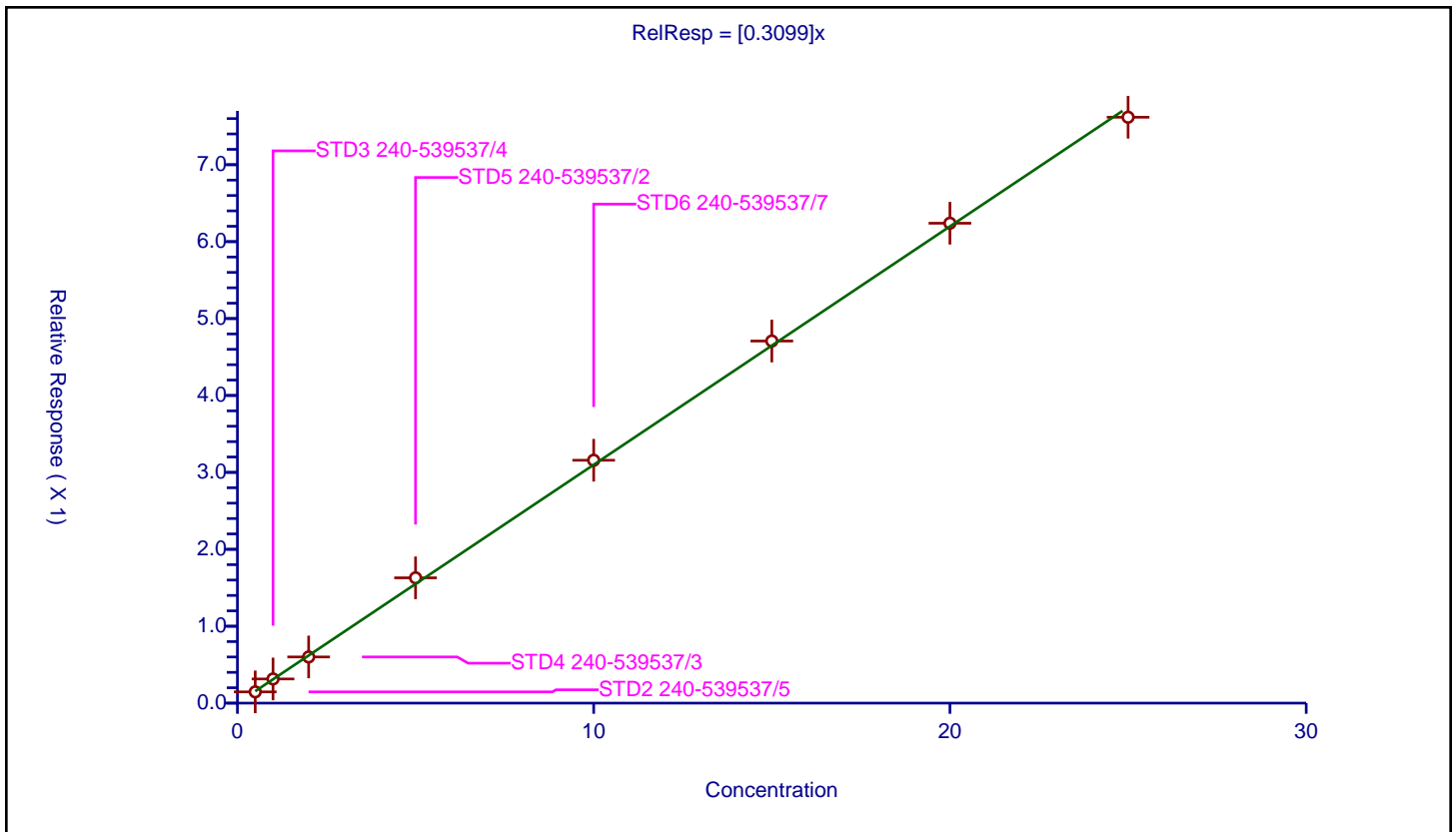
/ 4-Chloro-3-methylphenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3099

Error Coefficients	
Standard Error:	666000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.146439	4.0	649363.0	0.292878	Y
2	STD3 240-539537/4	1.0	0.314276	4.0	665187.0	0.314276	Y
3	STD4 240-539537/3	2.0	0.600124	4.0	660530.0	0.300062	Y
4	STD5 240-539537/2	5.0	1.628912	4.0	575282.0	0.325782	Y
5	STD6 240-539537/7	10.0	3.157755	4.0	625272.0	0.315776	Y
6	STD7 240-539537/8	15.0	4.707887	4.0	639718.0	0.313859	Y
7	STD8 240-539537/9	20.0	6.239496	4.0	611418.0	0.311975	Y
8	STD9 240-539537/10	25.0	7.617615	4.0	602471.0	0.304705	Y



Calibration

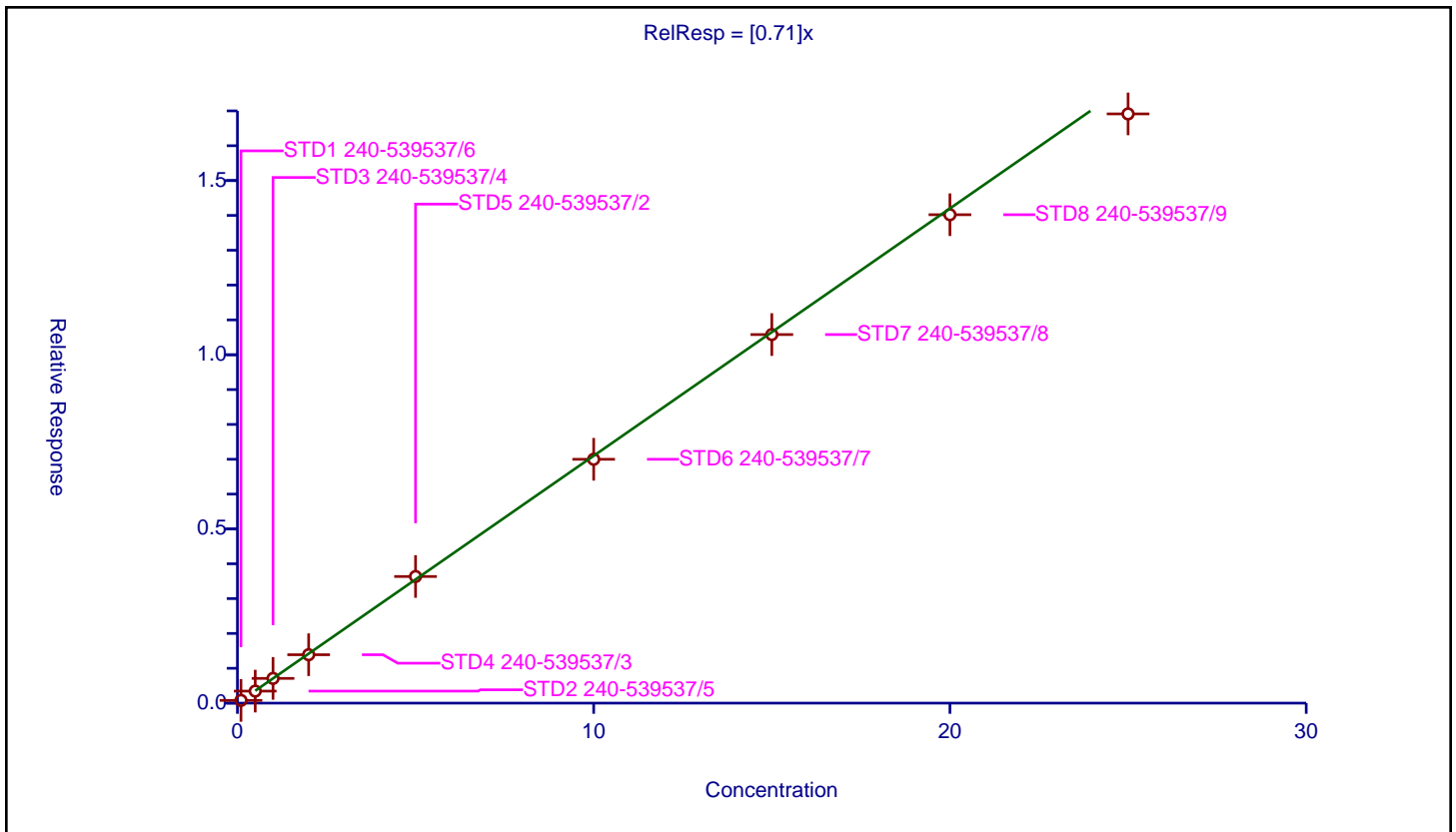
/ 2-Methylnaphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.71

Error Coefficients	
Standard Error:	1390000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.078431	4.0	633319.0	0.784312	Y
2	STD2 240-539537/5	0.5	0.345372	4.0	649363.0	0.690745	Y
3	STD3 240-539537/4	1.0	0.709984	4.0	665187.0	0.709984	Y
4	STD4 240-539537/3	2.0	1.389678	4.0	660530.0	0.694839	Y
5	STD5 240-539537/2	5.0	3.635017	4.0	575282.0	0.727003	Y
6	STD6 240-539537/7	10.0	6.999712	4.0	625272.0	0.699971	Y
7	STD7 240-539537/8	15.0	10.579668	4.0	639718.0	0.705311	Y
8	STD8 240-539537/9	20.0	14.019568	4.0	611418.0	0.700978	Y
9	STD9 240-539537/10	25.0	16.913319	4.0	602471.0	0.676533	Y



Calibration

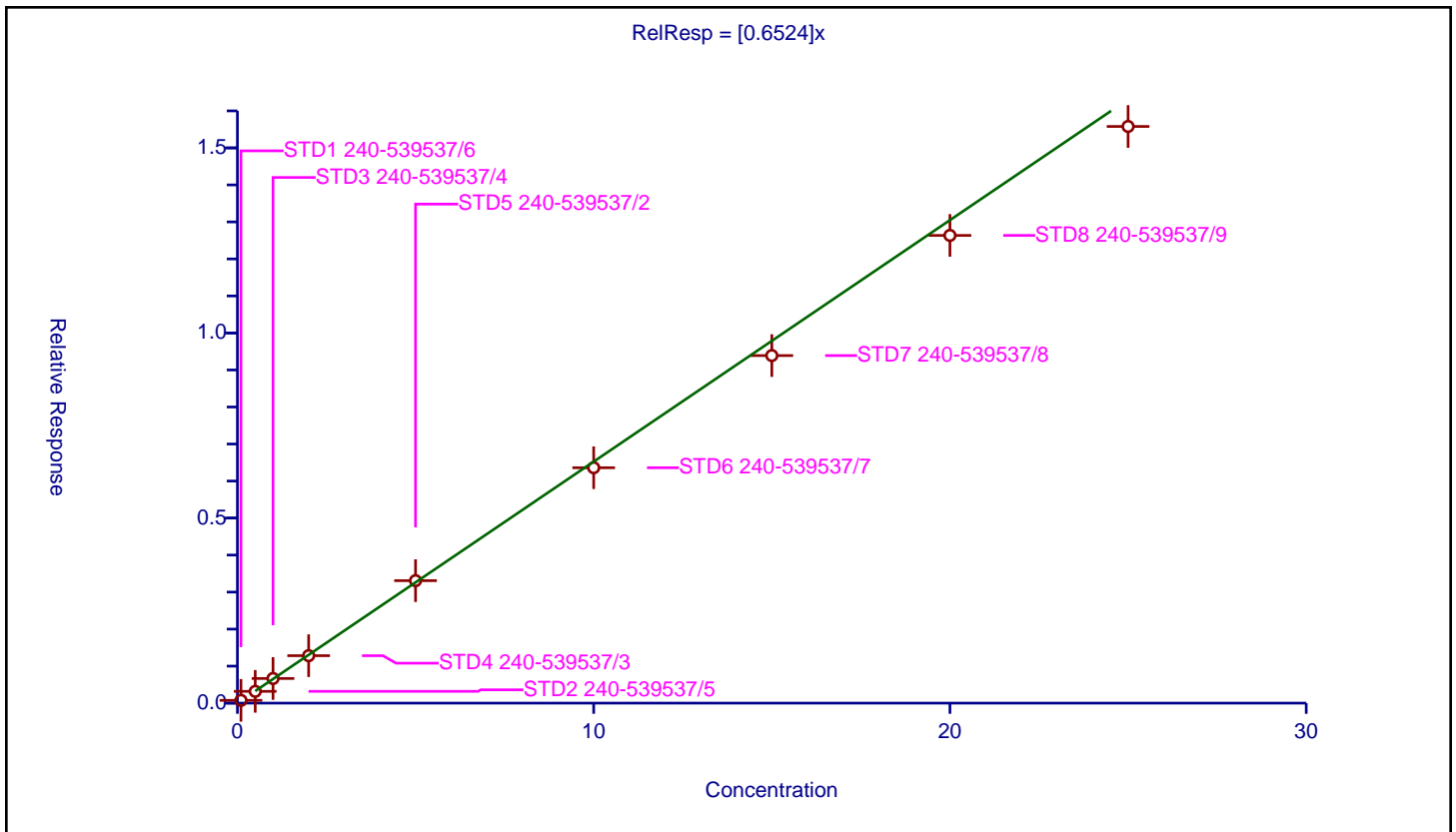
/ 1-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6524

Error Coefficients	
Standard Error:	1260000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.074983	4.0	633319.0	0.749827	Y
2	STD2 240-539537/5	0.5	0.318232	4.0	649363.0	0.636464	Y
3	STD3 240-539537/4	1.0	0.665768	4.0	665187.0	0.665768	Y
4	STD4 240-539537/3	2.0	1.282182	4.0	660530.0	0.641091	Y
5	STD5 240-539537/2	5.0	3.308972	4.0	575282.0	0.661794	Y
6	STD6 240-539537/7	10.0	6.359863	4.0	625272.0	0.635986	Y
7	STD7 240-539537/8	15.0	9.389581	4.0	639718.0	0.625972	Y
8	STD8 240-539537/9	20.0	12.635761	4.0	611418.0	0.631788	Y
9	STD9 240-539537/10	25.0	15.57912	4.0	602471.0	0.623165	Y



Calibration

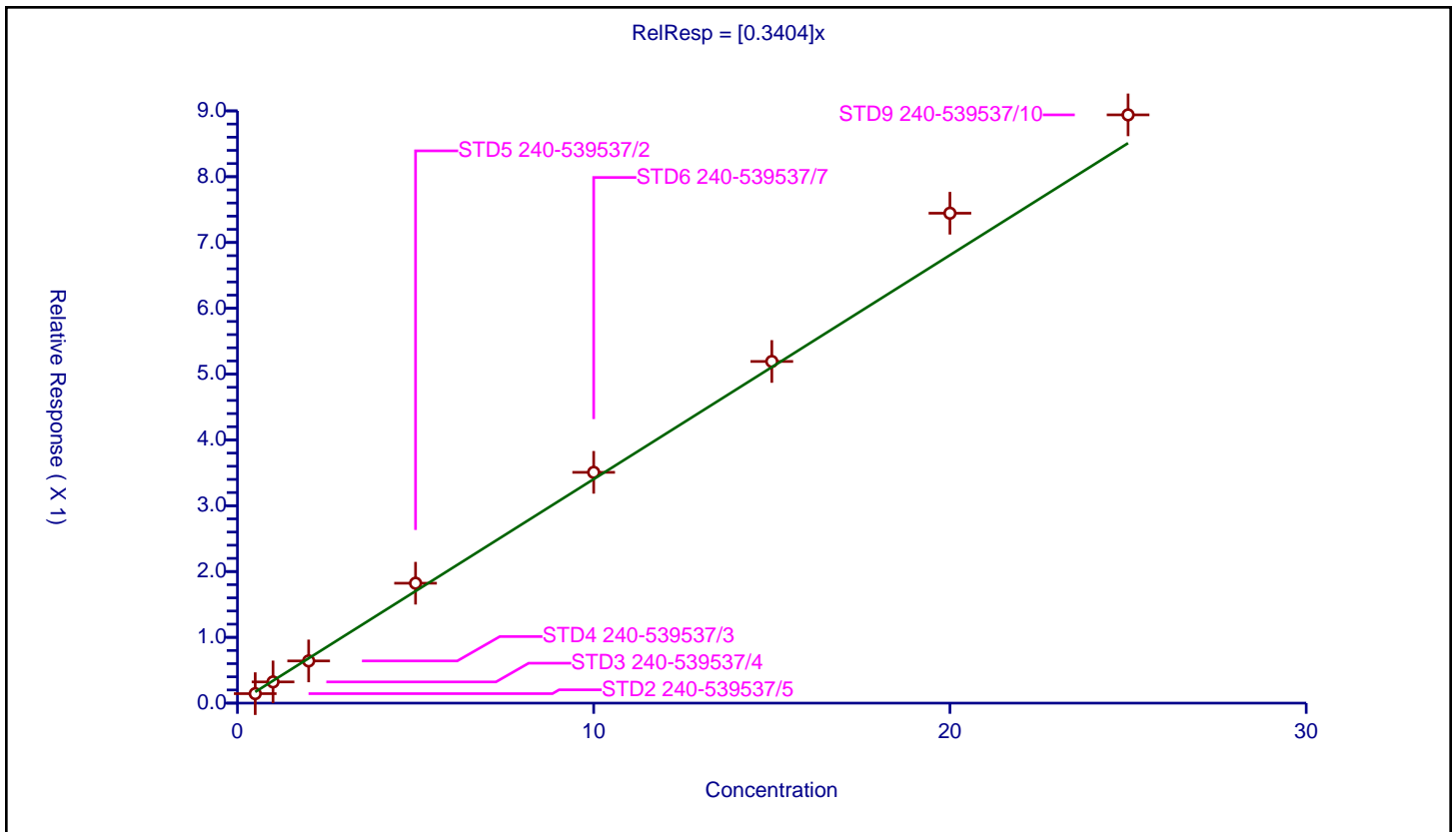
/ Hexachlorocyclopentadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3404

Error Coefficients	
Standard Error:	462000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.144425	4.0	391235.0	0.288849	Y
2	STD3 240-539537/4	1.0	0.32246	4.0	398176.0	0.32246	Y
3	STD4 240-539537/3	2.0	0.64148	4.0	398684.0	0.32074	Y
4	STD5 240-539537/2	5.0	1.82216	4.0	341487.0	0.364432	Y
5	STD6 240-539537/7	10.0	3.507243	4.0	378864.0	0.350724	Y
6	STD7 240-539537/8	15.0	5.192279	4.0	391583.0	0.346152	Y
7	STD8 240-539537/9	20.0	7.444948	4.0	358734.0	0.372247	Y
8	STD9 240-539537/10	25.0	8.939605	4.0	360645.0	0.357584	Y



Calibration

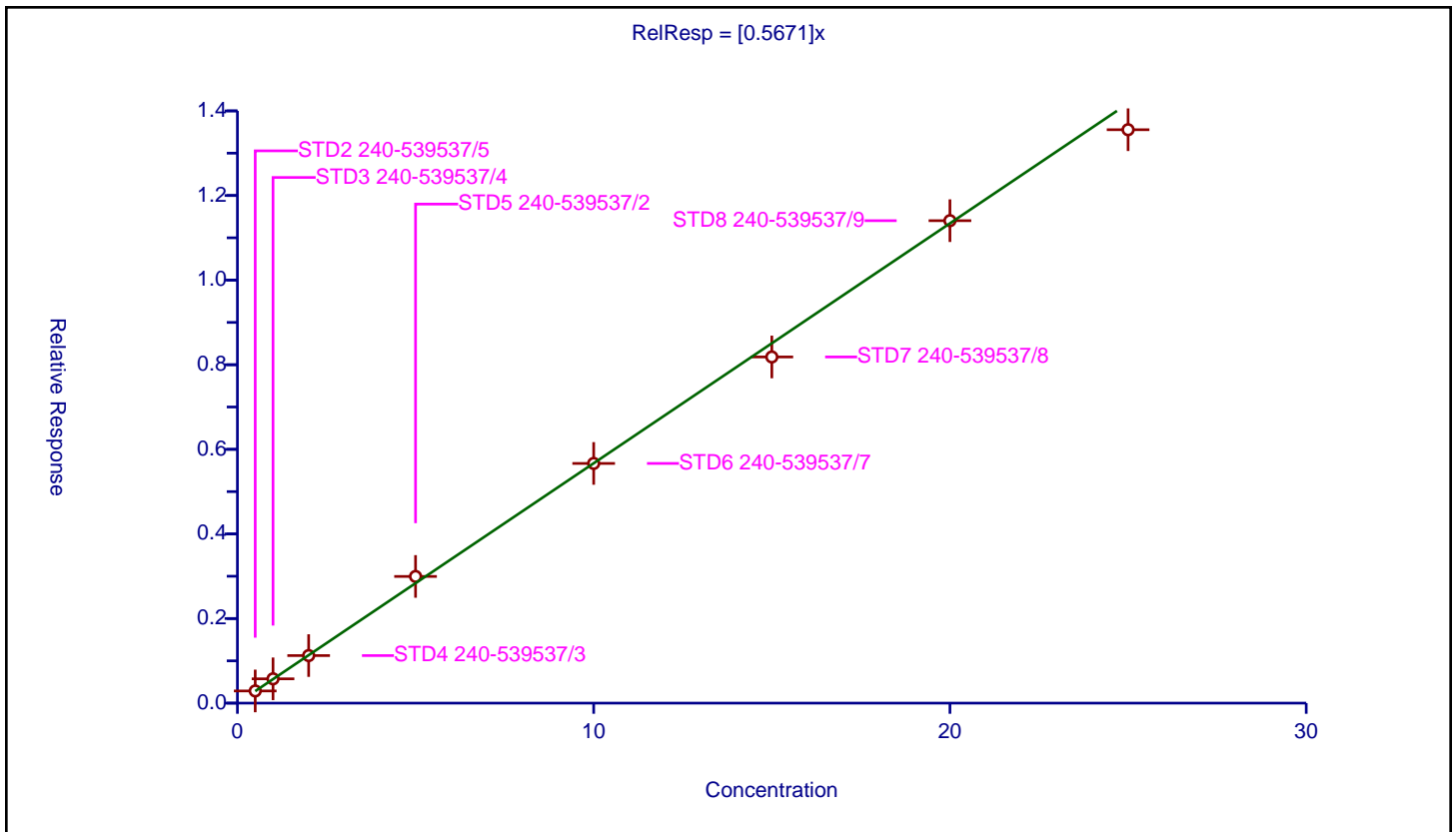
/ 1,2,4,5-Tetrachlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5671

Error Coefficients	
Standard Error:	712000
Relative Standard Error:	3.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.288236	4.0	391235.0	0.576472	Y
2	STD3 240-539537/4	1.0	0.574721	4.0	398176.0	0.574721	Y
3	STD4 240-539537/3	2.0	1.123908	4.0	398684.0	0.561954	Y
4	STD5 240-539537/2	5.0	2.994457	4.0	341487.0	0.598891	Y
5	STD6 240-539537/7	10.0	5.666033	4.0	378864.0	0.566603	Y
6	STD7 240-539537/8	15.0	8.183052	4.0	391583.0	0.545537	Y
7	STD8 240-539537/9	20.0	11.404562	4.0	358734.0	0.570228	Y
8	STD9 240-539537/10	25.0	13.555047	4.0	360645.0	0.542202	Y



Calibration

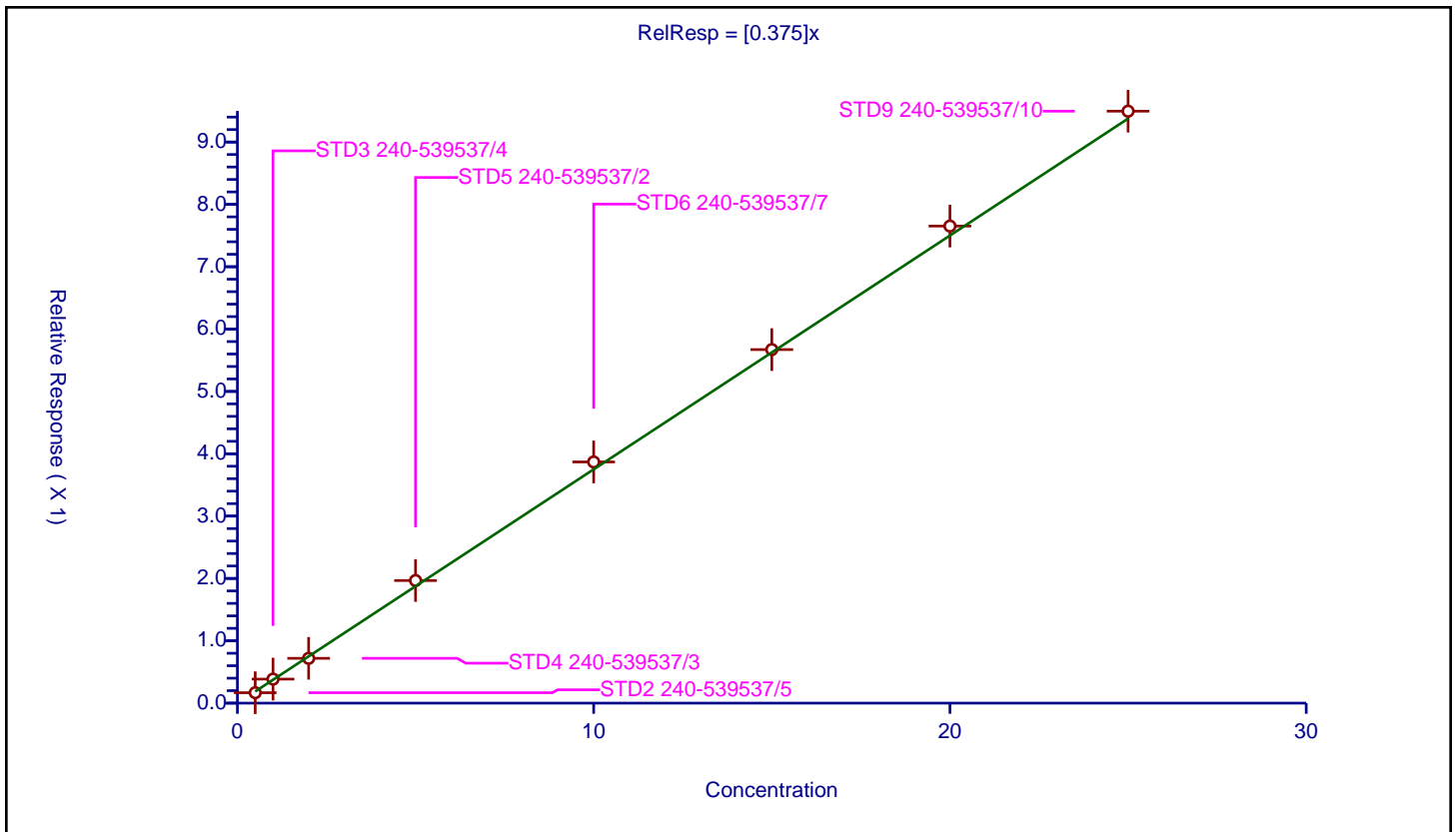
/ 2,4,6-Trichlorophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.375

Error Coefficients	
Standard Error:	490000
Relative Standard Error:	5.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.167275	4.0	391235.0	0.334551	Y
2	STD3 240-539537/4	1.0	0.385578	4.0	398176.0	0.385578	Y
3	STD4 240-539537/3	2.0	0.718785	4.0	398684.0	0.359392	Y
4	STD5 240-539537/2	5.0	1.966587	4.0	341487.0	0.393317	Y
5	STD6 240-539537/7	10.0	3.868723	4.0	378864.0	0.386872	Y
6	STD7 240-539537/8	15.0	5.671166	4.0	391583.0	0.378078	Y
7	STD8 240-539537/9	20.0	7.652366	4.0	358734.0	0.382618	Y
8	STD9 240-539537/10	25.0	9.495277	4.0	360645.0	0.379811	Y



Calibration

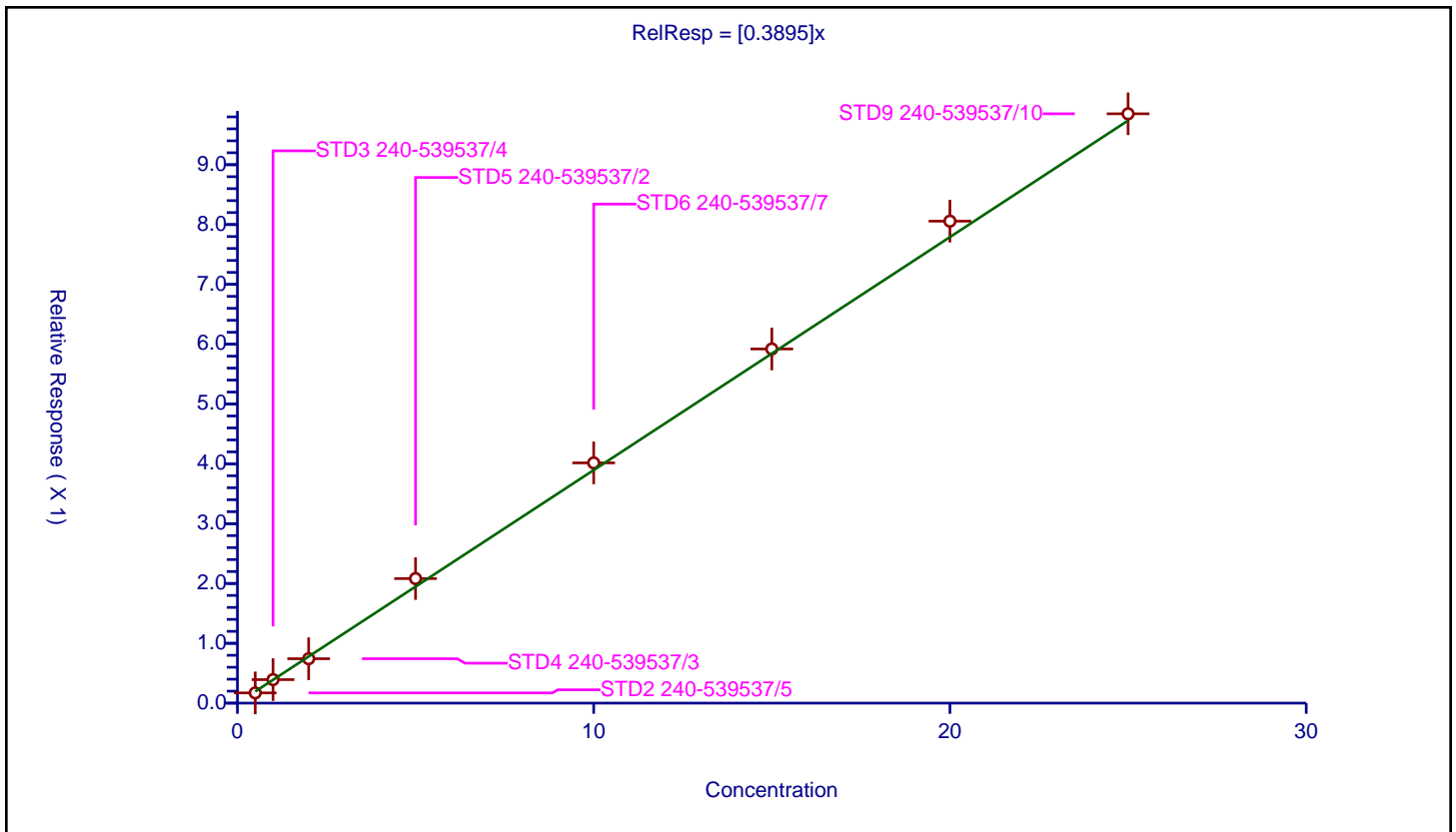
/ 2,4,5-Trichlorophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3895

Error Coefficients	
Standard Error:	511000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.171345	4.0	391235.0	0.342689	Y
2	STD3 240-539537/4	1.0	0.392972	4.0	398176.0	0.392972	Y
3	STD4 240-539537/3	2.0	0.742242	4.0	398684.0	0.371121	Y
4	STD5 240-539537/2	5.0	2.081906	4.0	341487.0	0.416381	Y
5	STD6 240-539537/7	10.0	4.016259	4.0	378864.0	0.401626	Y
6	STD7 240-539537/8	15.0	5.920196	4.0	391583.0	0.39468	Y
7	STD8 240-539537/9	20.0	8.056644	4.0	358734.0	0.402832	Y
8	STD9 240-539537/10	25.0	9.851416	4.0	360645.0	0.394057	Y



Calibration

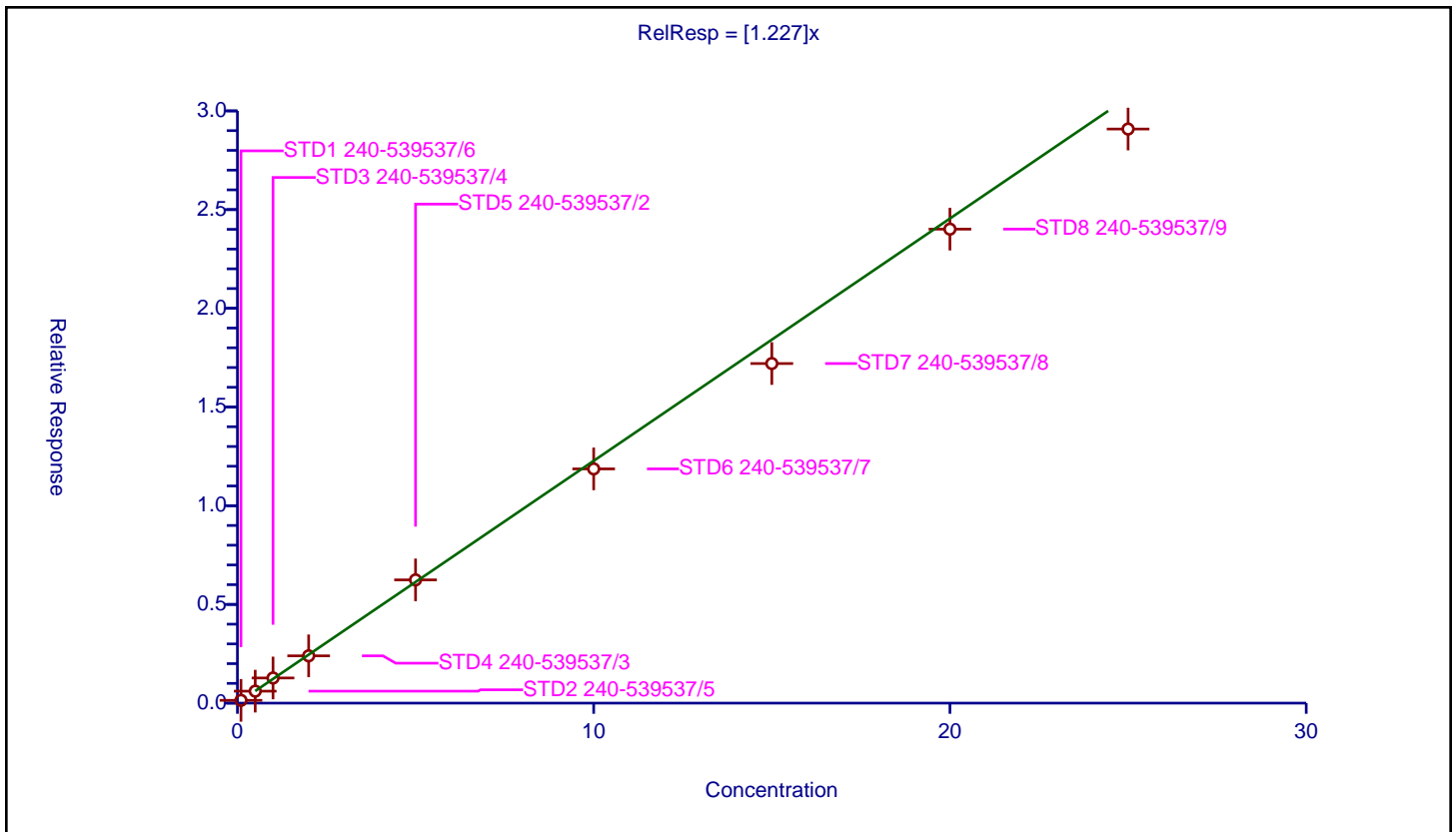
/ 2-Fluorobiphenyl (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.227

Error Coefficients	
Standard Error:	1410000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.141603	4.0	381348.0	1.416029	Y
2	STD2 240-539537/5	0.5	0.606694	4.0	391235.0	1.213388	Y
3	STD3 240-539537/4	1.0	1.273638	4.0	398176.0	1.273638	Y
4	STD4 240-539537/3	2.0	2.395531	4.0	398684.0	1.197766	Y
5	STD5 240-539537/2	5.0	6.24347	4.0	341487.0	1.248694	Y
6	STD6 240-539537/7	10.0	11.865165	4.0	378864.0	1.186517	Y
7	STD7 240-539537/8	15.0	17.201574	4.0	391583.0	1.146772	Y
8	STD8 240-539537/9	20.0	24.010013	4.0	358734.0	1.200501	Y
9	STD9 240-539537/10	25.0	29.081862	4.0	360645.0	1.163274	Y



Calibration

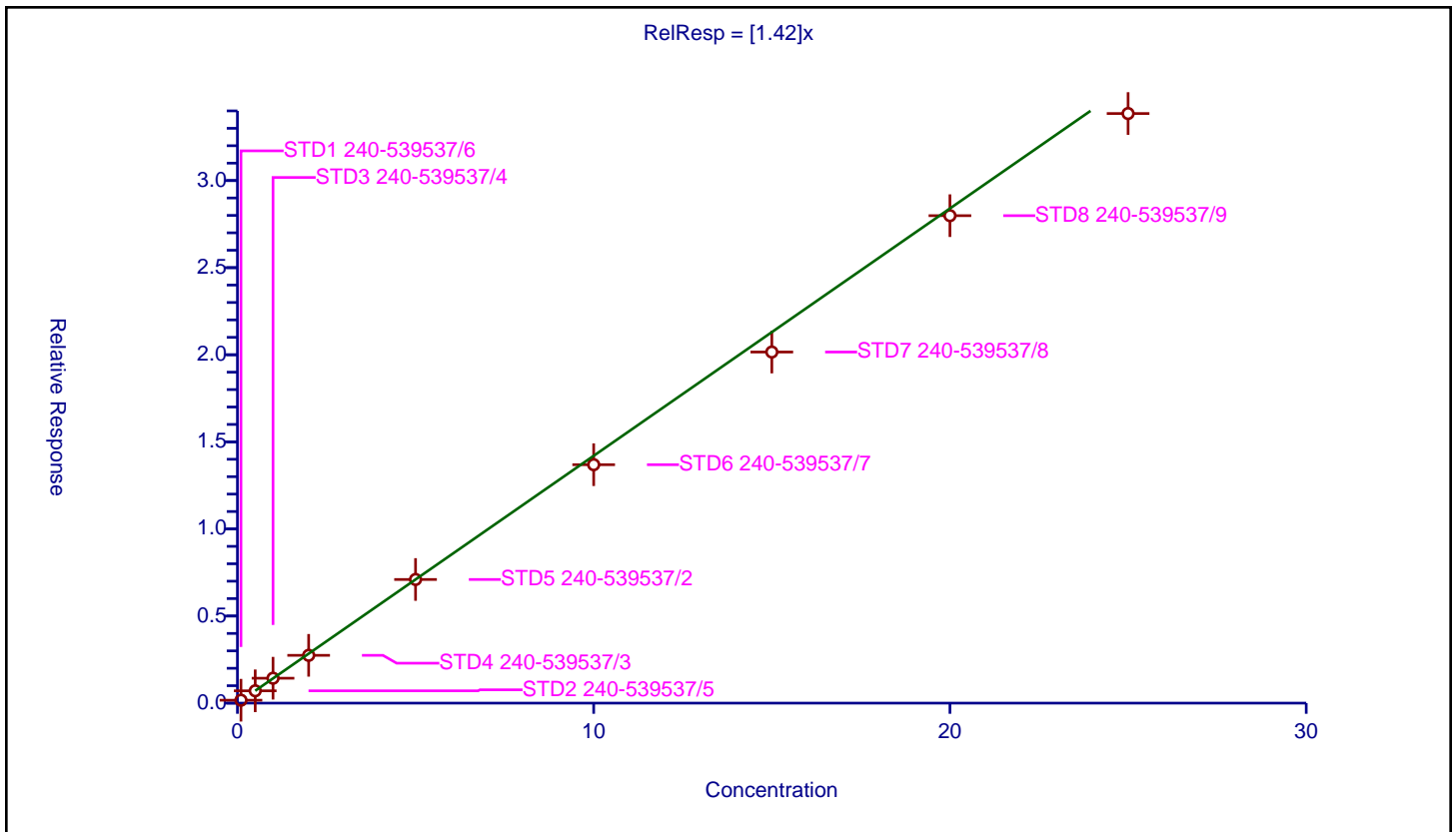
/ 1,1'-Biphenyl

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.42

Error Coefficients	
Standard Error:	1650000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.167668	4.0	381348.0	1.676684	Y
2	STD2 240-539537/5	0.5	0.707033	4.0	391235.0	1.414066	Y
3	STD3 240-539537/4	1.0	1.430825	4.0	398176.0	1.430825	Y
4	STD4 240-539537/3	2.0	2.743466	4.0	398684.0	1.371733	Y
5	STD5 240-539537/2	5.0	7.098156	4.0	341487.0	1.419631	Y
6	STD6 240-539537/7	10.0	13.688975	4.0	378864.0	1.368898	Y
7	STD7 240-539537/8	15.0	20.156401	4.0	391583.0	1.34376	Y
8	STD8 240-539537/9	20.0	27.984222	4.0	358734.0	1.399211	Y
9	STD9 240-539537/10	25.0	33.848288	4.0	360645.0	1.353932	Y



Calibration

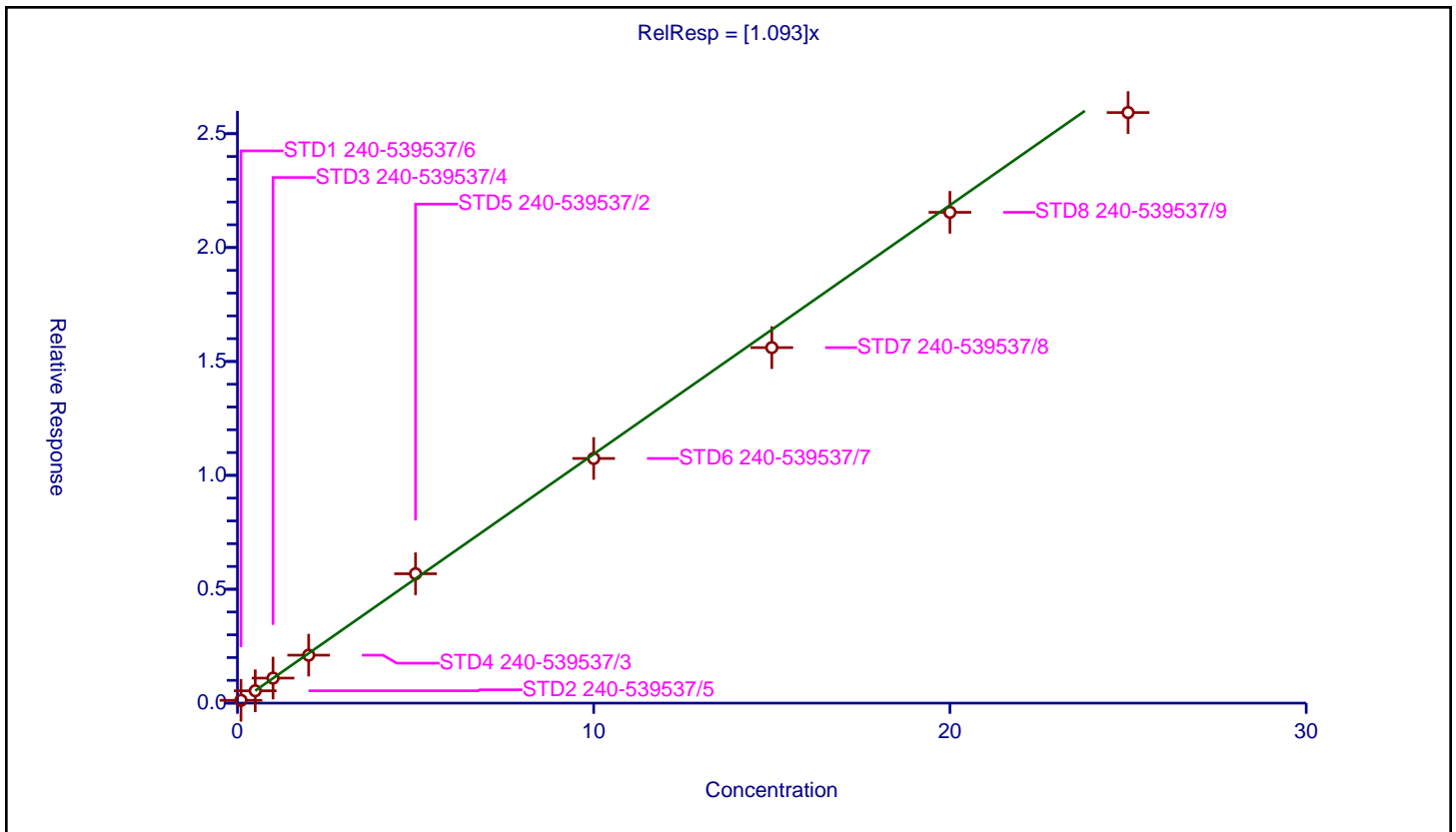
/ 2-Chloronaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.093

Error Coefficients	
Standard Error:	1270000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.123646	4.0	381348.0	1.236456	Y
2	STD2 240-539537/5	0.5	0.542324	4.0	391235.0	1.084647	Y
3	STD3 240-539537/4	1.0	1.09867	4.0	398176.0	1.09867	Y
4	STD4 240-539537/3	2.0	2.105658	4.0	398684.0	1.052829	Y
5	STD5 240-539537/2	5.0	5.679127	4.0	341487.0	1.135825	Y
6	STD6 240-539537/7	10.0	10.74091	4.0	378864.0	1.074091	Y
7	STD7 240-539537/8	15.0	15.607297	4.0	391583.0	1.040486	Y
8	STD8 240-539537/9	20.0	21.547498	4.0	358734.0	1.077375	Y
9	STD9 240-539537/10	25.0	25.927225	4.0	360645.0	1.037089	Y



Calibration

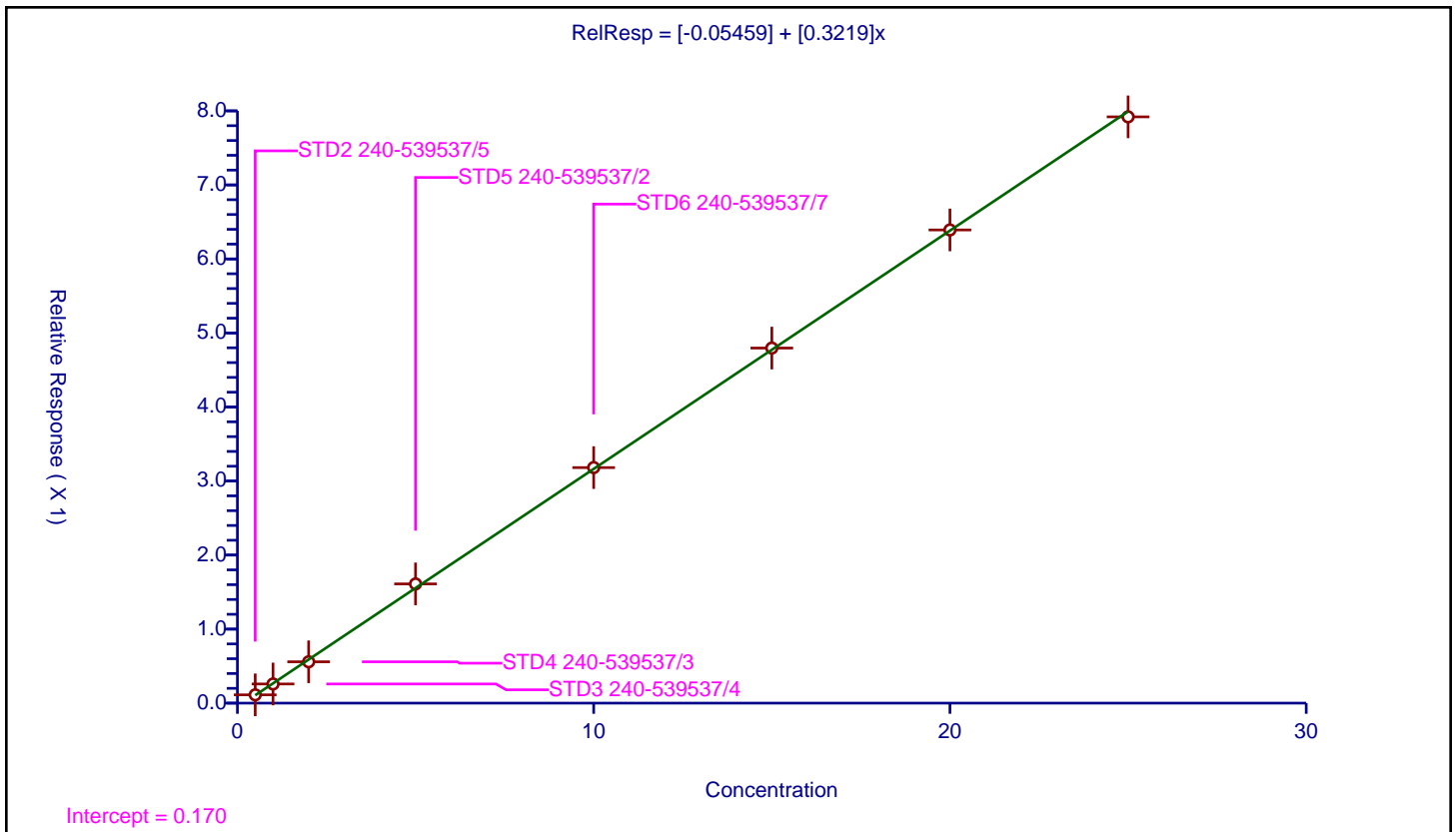
/ 2-Nitroaniline

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-0.05459
Slope:	0.3219

Error Coefficients	
Standard Error:	442000
Relative Standard Error:	3.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.112137	4.0	391235.0	0.224274	Y
2	STD3 240-539537/4	1.0	0.258991	4.0	398176.0	0.258991	Y
3	STD4 240-539537/3	2.0	0.558518	4.0	398684.0	0.279259	Y
4	STD5 240-539537/2	5.0	1.610322	4.0	341487.0	0.322064	Y
5	STD6 240-539537/7	10.0	3.181754	4.0	378864.0	0.318175	Y
6	STD7 240-539537/8	15.0	4.796419	4.0	391583.0	0.319761	Y
7	STD8 240-539537/9	20.0	6.391666	4.0	358734.0	0.319583	Y
8	STD9 240-539537/10	25.0	7.919455	4.0	360645.0	0.316778	Y



Calibration

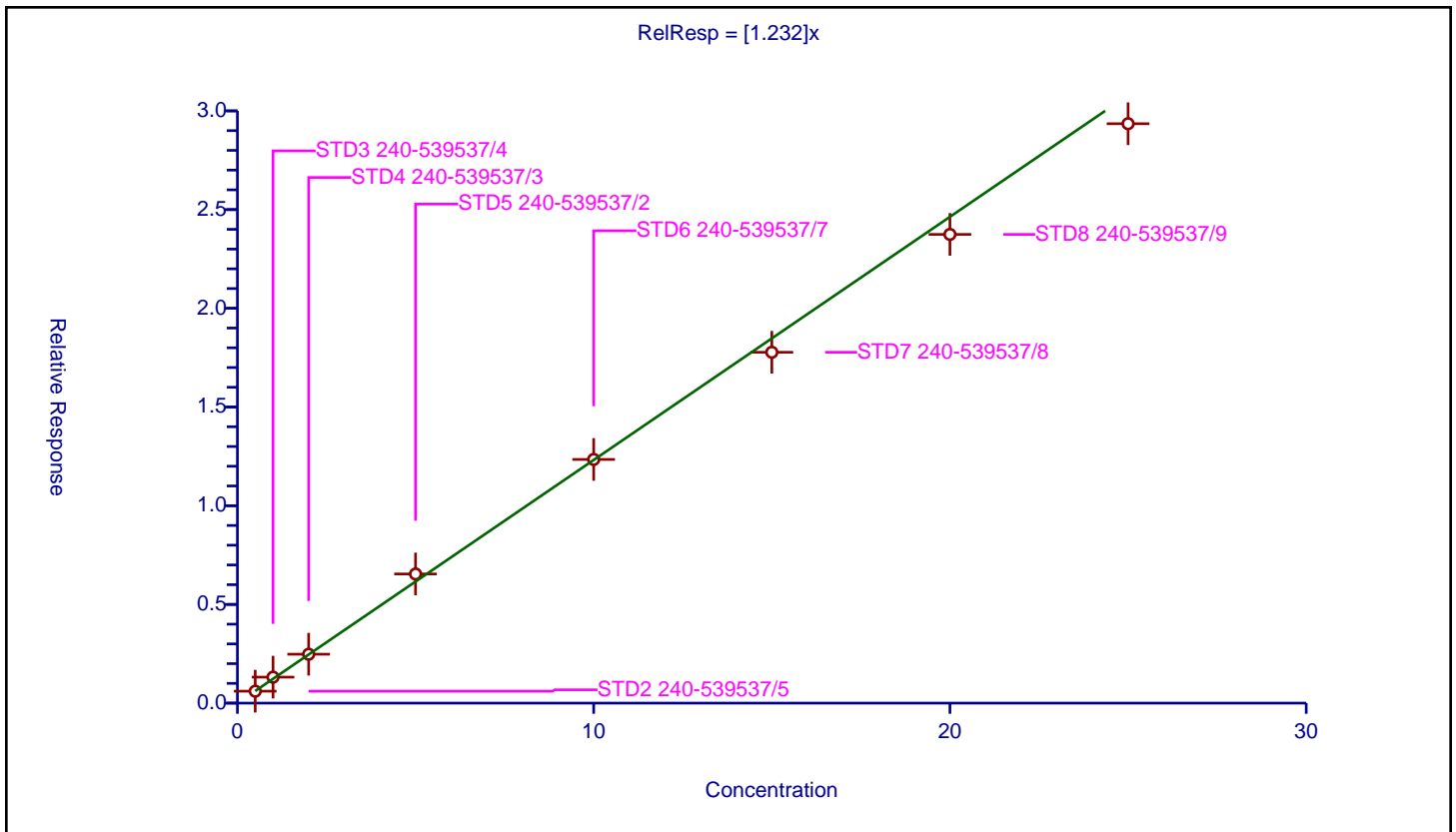
/ Dimethyl phthalate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.232

Error Coefficients	
Standard Error:	1530000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.605017	4.0	391235.0	1.210035	Y
2	STD3 240-539537/4	1.0	1.31584	4.0	398176.0	1.31584	Y
3	STD4 240-539537/3	2.0	2.477581	4.0	398684.0	1.238791	Y
4	STD5 240-539537/2	5.0	6.542398	4.0	341487.0	1.30848	Y
5	STD6 240-539537/7	10.0	12.343648	4.0	378864.0	1.234365	Y
6	STD7 240-539537/8	15.0	17.77258	4.0	391583.0	1.184839	Y
7	STD8 240-539537/9	20.0	23.742662	4.0	358734.0	1.187133	Y
8	STD9 240-539537/10	25.0	29.350059	4.0	360645.0	1.174002	Y



Calibration

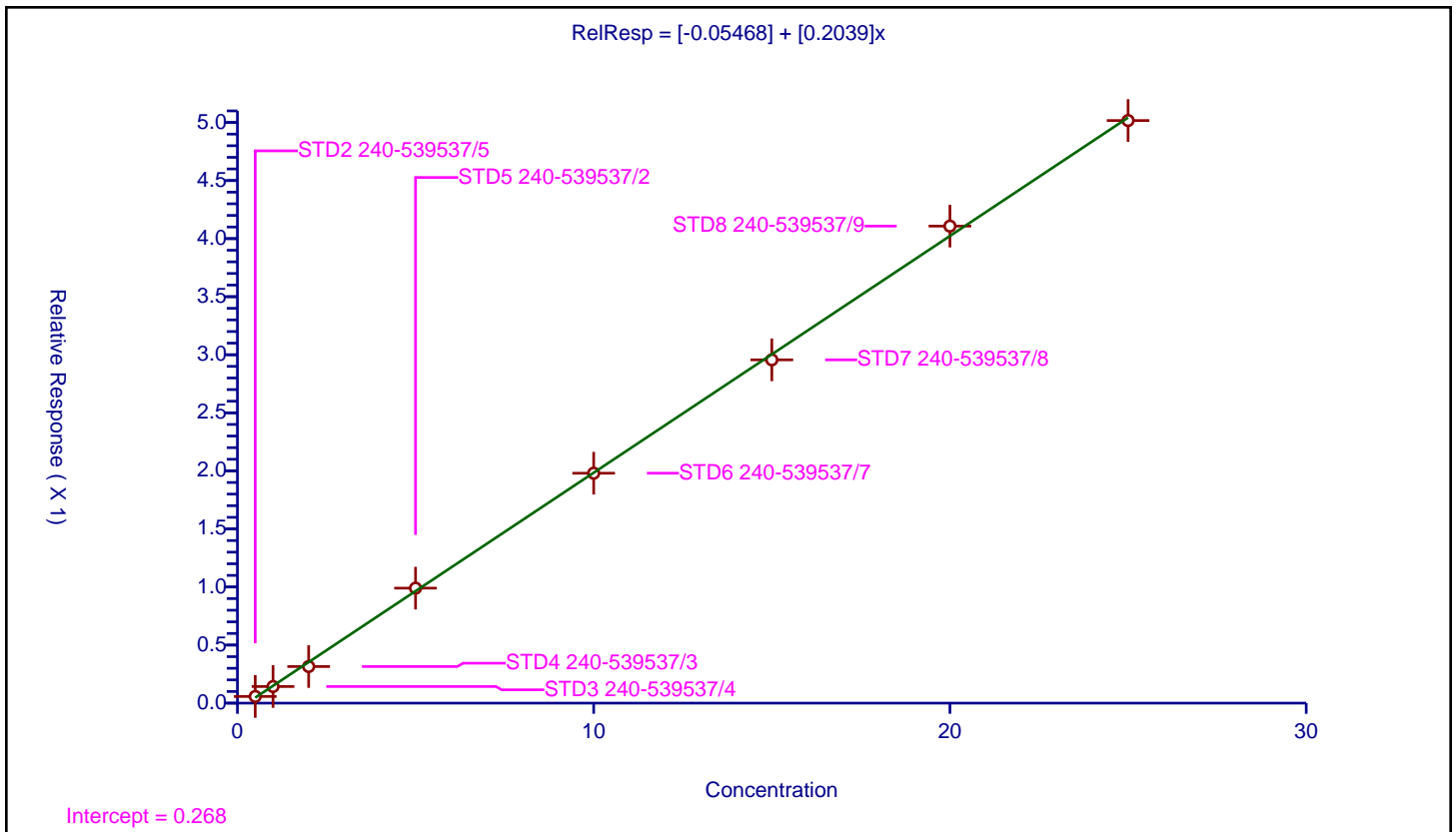
/ 1,3-Dinitrobenzene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.05468
Slope:	0.2039

Error Coefficients	
Standard Error:	279000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.0575	4.0	391235.0	0.115	Y
2	STD3 240-539537/4	1.0	0.142932	4.0	398176.0	0.142932	Y
3	STD4 240-539537/3	2.0	0.315067	4.0	398684.0	0.157533	Y
4	STD5 240-539537/2	5.0	0.99021	4.0	341487.0	0.198042	Y
5	STD6 240-539537/7	10.0	1.979813	4.0	378864.0	0.197981	Y
6	STD7 240-539537/8	15.0	2.956329	4.0	391583.0	0.197089	Y
7	STD8 240-539537/9	20.0	4.107746	4.0	358734.0	0.205387	Y
8	STD9 240-539537/10	25.0	5.017067	4.0	360645.0	0.200683	Y



Calibration

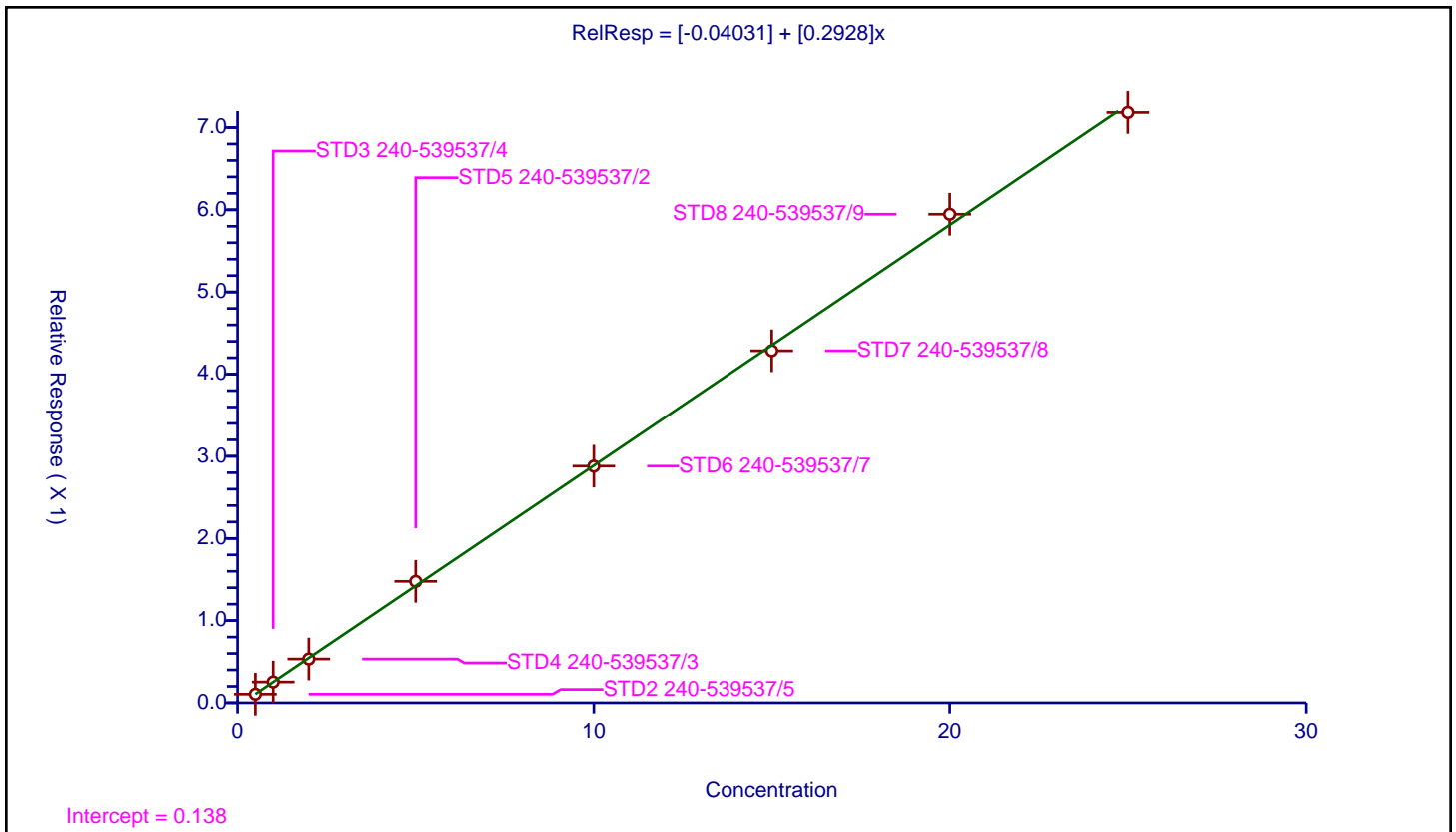
/ 2,6-Dinitrotoluene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.04031
Slope:	0.2928

Error Coefficients	
Standard Error:	403000
Relative Standard Error:	2.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.104939	4.0	391235.0	0.209879	Y
2	STD3 240-539537/4	1.0	0.252883	4.0	398176.0	0.252883	Y
3	STD4 240-539537/3	2.0	0.532723	4.0	398684.0	0.266361	Y
4	STD5 240-539537/2	5.0	1.477515	4.0	341487.0	0.295503	Y
5	STD6 240-539537/7	10.0	2.879957	4.0	378864.0	0.287996	Y
6	STD7 240-539537/8	15.0	4.284834	4.0	391583.0	0.285656	Y
7	STD8 240-539537/9	20.0	5.946367	4.0	358734.0	0.297318	Y
8	STD9 240-539537/10	25.0	7.183097	4.0	360645.0	0.287324	Y



Calibration

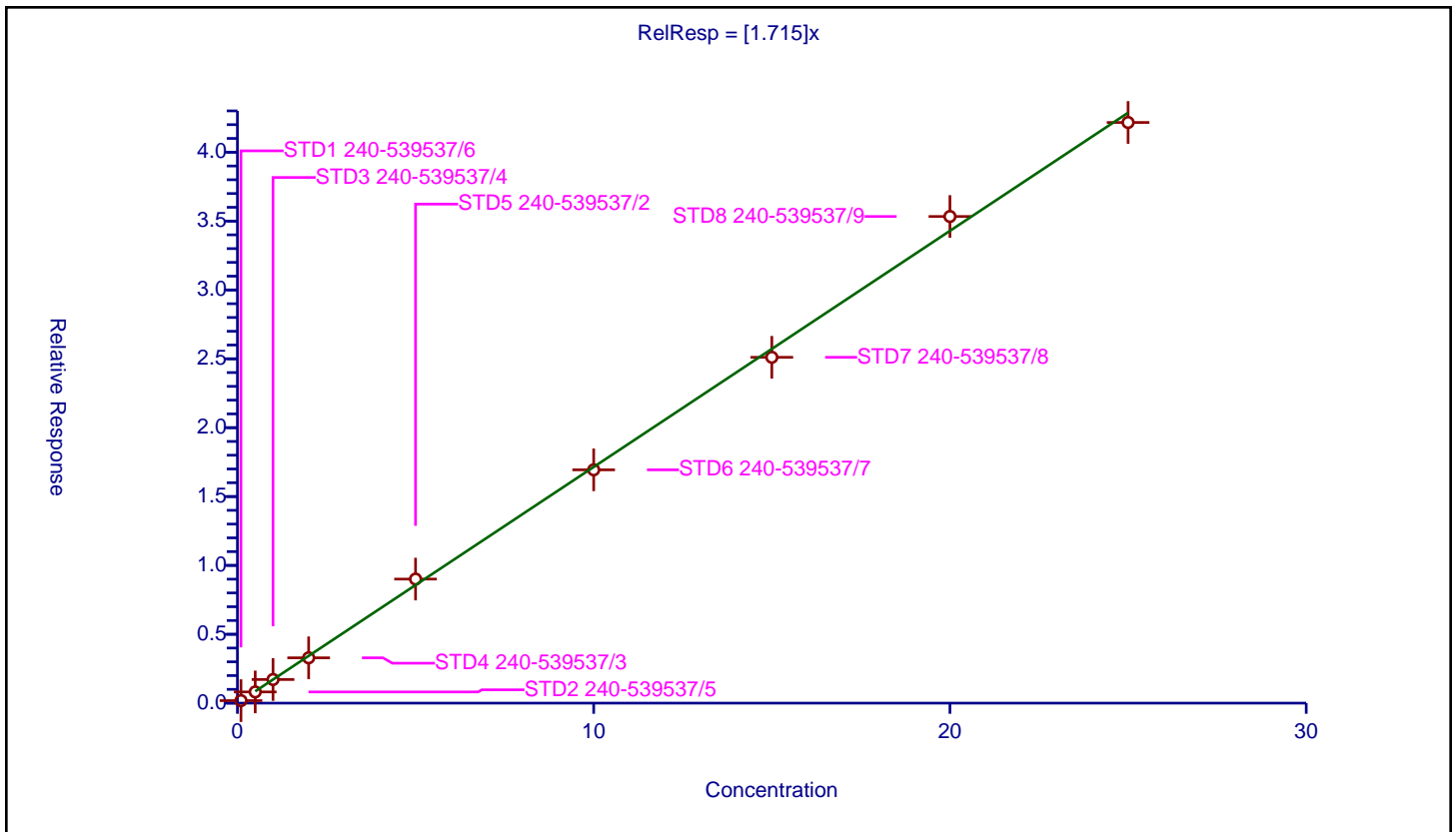
/ Acenaphthylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.715

Error Coefficients	
Standard Error:	2060000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.182091	4.0	381348.0	1.820909	Y
2	STD2 240-539537/5	0.5	0.813854	4.0	391235.0	1.627707	Y
3	STD3 240-539537/4	1.0	1.71482	4.0	398176.0	1.71482	Y
4	STD4 240-539537/3	2.0	3.290175	4.0	398684.0	1.645087	Y
5	STD5 240-539537/2	5.0	9.007019	4.0	341487.0	1.801404	Y
6	STD6 240-539537/7	10.0	16.938733	4.0	378864.0	1.693873	Y
7	STD7 240-539537/8	15.0	25.109374	4.0	391583.0	1.673958	Y
8	STD8 240-539537/9	20.0	35.332854	4.0	358734.0	1.766643	Y
9	STD9 240-539537/10	25.0	42.15871	4.0	360645.0	1.686348	Y



Calibration

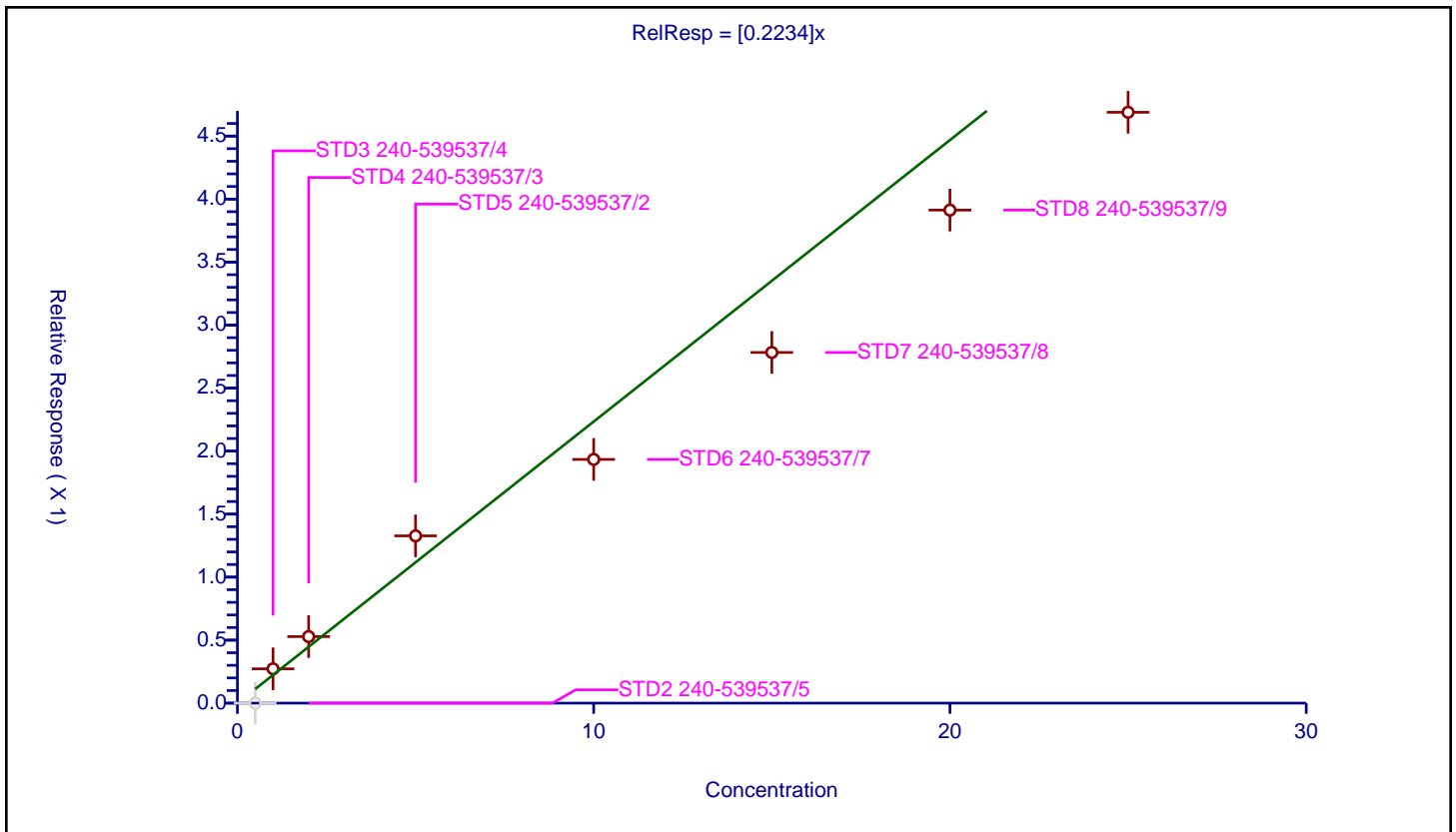
/ 3-Nitroaniline

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2234

Error Coefficients	
Standard Error:	266000
Relative Standard Error:	18.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.938

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.0	4.0	391235.0	0.0	N
2	STD3 240-539537/4	1.0	0.272322	4.0	398176.0	0.272322	Y
3	STD4 240-539537/3	2.0	0.528047	4.0	398684.0	0.264024	Y
4	STD5 240-539537/2	5.0	1.327441	4.0	341487.0	0.265488	Y
5	STD6 240-539537/7	10.0	1.934129	4.0	378864.0	0.193413	Y
6	STD7 240-539537/8	15.0	2.782828	4.0	391583.0	0.185522	Y
7	STD8 240-539537/9	20.0	3.912626	4.0	358734.0	0.195631	Y
8	STD9 240-539537/10	25.0	4.688744	4.0	360645.0	0.18755	Y



Calibration

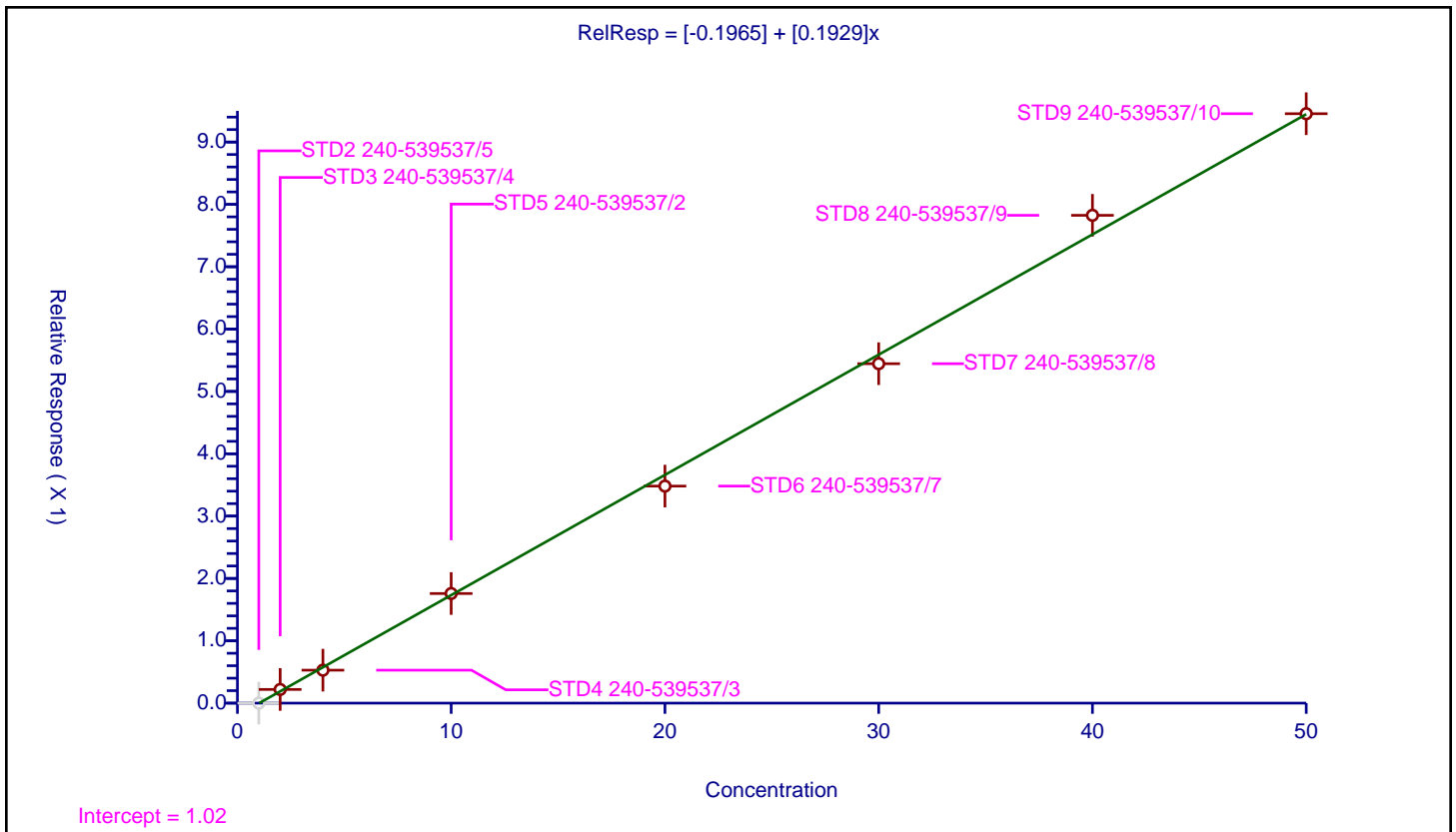
/ 2,4-Dinitrophenol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.1965
Slope:	0.1929

Error Coefficients	
Standard Error:	572000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.0	4.0	391235.0	0.0	N
2	STD3 240-539537/4	2.0	0.21919	4.0	398176.0	0.109595	Y
3	STD4 240-539537/3	4.0	0.528549	4.0	398684.0	0.132137	Y
4	STD5 240-539537/2	10.0	1.75824	4.0	341487.0	0.175824	Y
5	STD6 240-539537/7	20.0	3.481365	4.0	378864.0	0.174068	Y
6	STD7 240-539537/8	30.0	5.444731	4.0	391583.0	0.181491	Y
7	STD8 240-539537/9	40.0	7.824706	4.0	358734.0	0.195618	Y
8	STD9 240-539537/10	50.0	9.454771	4.0	360645.0	0.189095	Y



Calibration

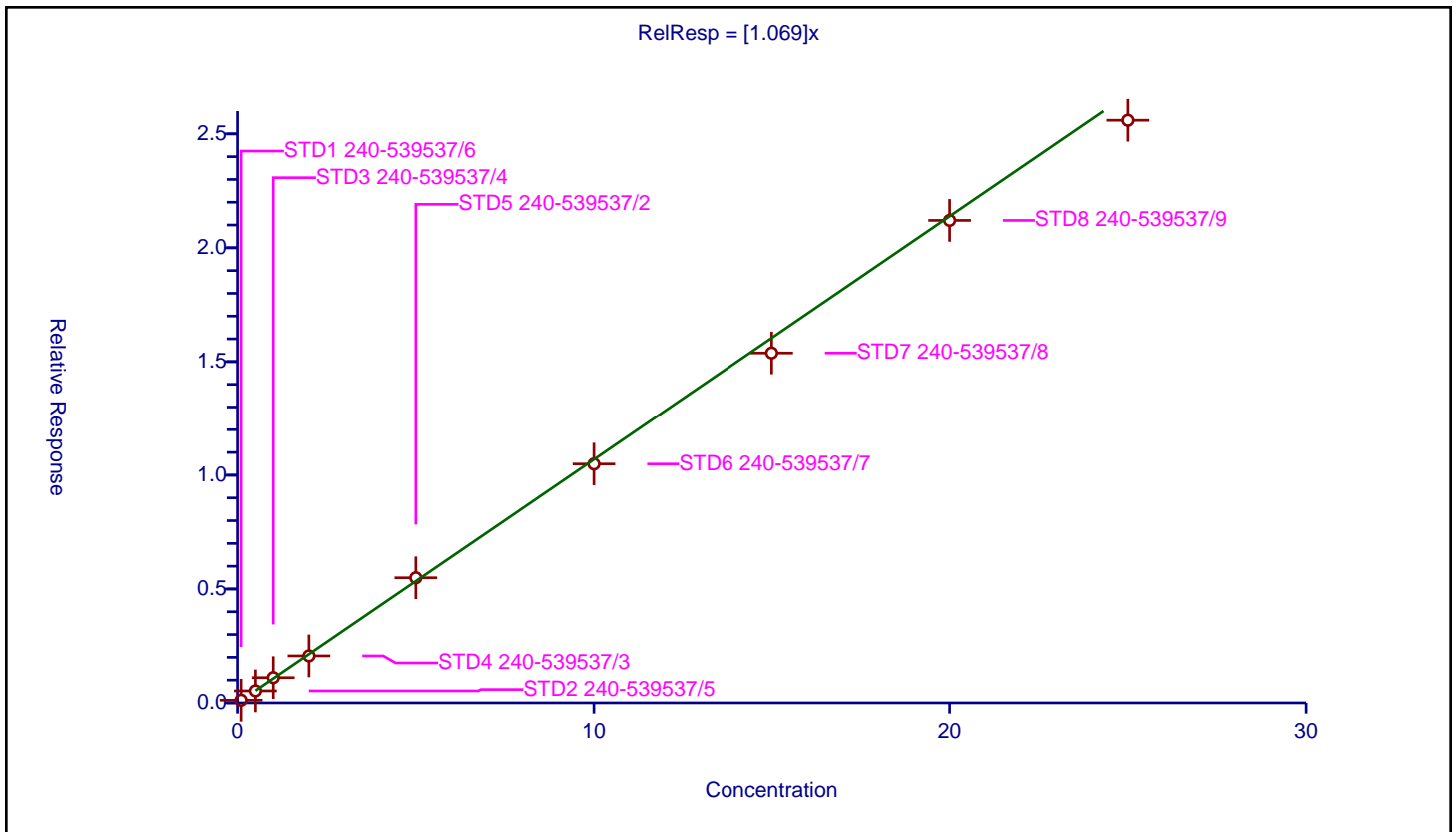
/ Acenaphthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.069

Error Coefficients	
Standard Error:	1250000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.117384	4.0	381348.0	1.173836	Y
2	STD2 240-539537/5	0.5	0.527172	4.0	391235.0	1.054343	Y
3	STD3 240-539537/4	1.0	1.106224	4.0	398176.0	1.106224	Y
4	STD4 240-539537/3	2.0	2.062285	4.0	398684.0	1.031142	Y
5	STD5 240-539537/2	5.0	5.492227	4.0	341487.0	1.098445	Y
6	STD6 240-539537/7	10.0	10.491459	4.0	378864.0	1.049146	Y
7	STD7 240-539537/8	15.0	15.378747	4.0	391583.0	1.02525	Y
8	STD8 240-539537/9	20.0	21.202239	4.0	358734.0	1.060112	Y
9	STD9 240-539537/10	25.0	25.597471	4.0	360645.0	1.023899	Y



Calibration

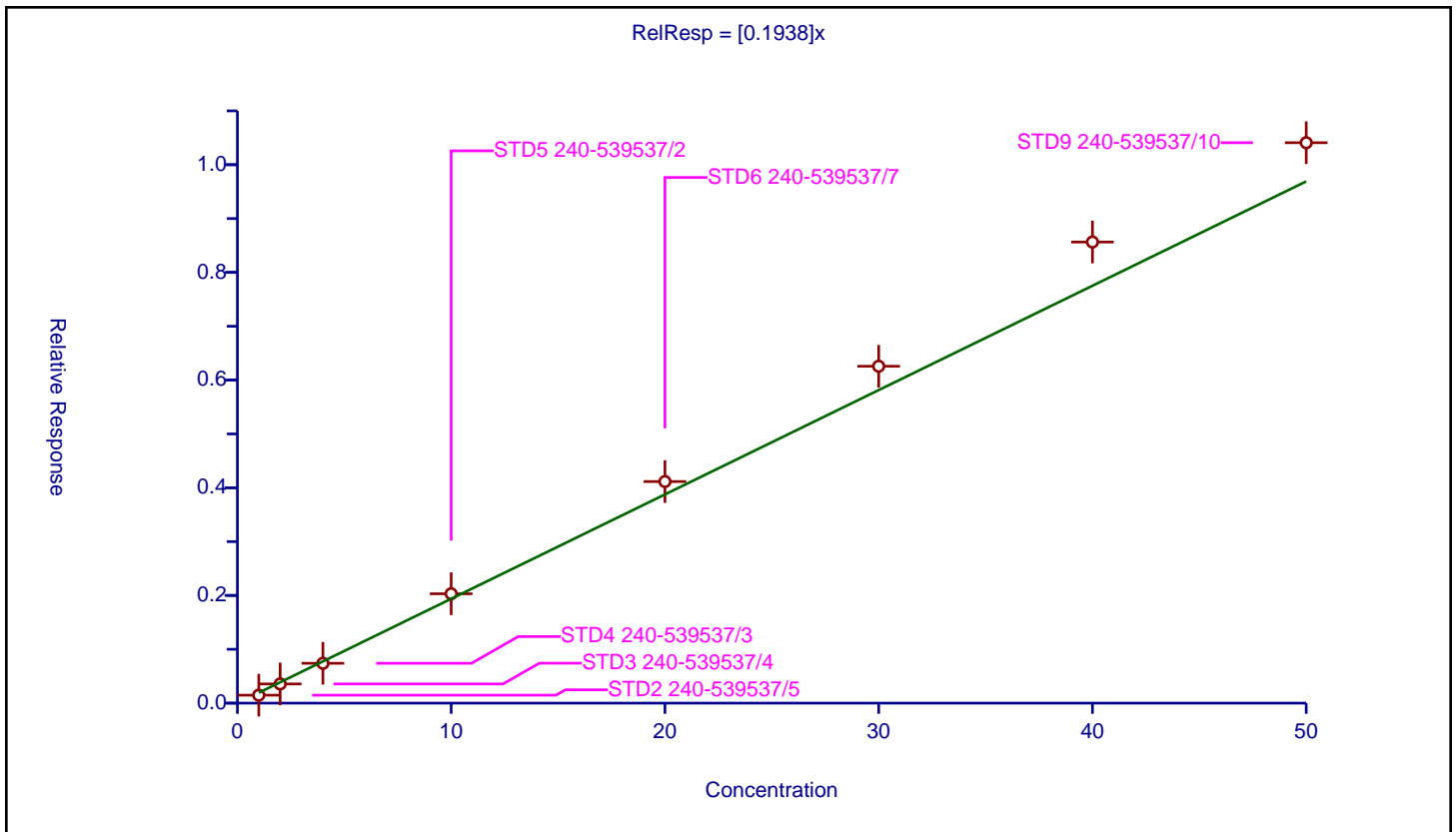
/ 4-Nitrophenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1938

Error Coefficients	
Standard Error:	539000
Relative Standard Error:	11.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.147574	4.0	391235.0	0.147574	Y
2	STD3 240-539537/4	2.0	0.356345	4.0	398176.0	0.178172	Y
3	STD4 240-539537/3	4.0	0.739663	4.0	398684.0	0.184916	Y
4	STD5 240-539537/2	10.0	2.031269	4.0	341487.0	0.203127	Y
5	STD6 240-539537/7	20.0	4.115524	4.0	378864.0	0.205776	Y
6	STD7 240-539537/8	30.0	6.257034	4.0	391583.0	0.208568	Y
7	STD8 240-539537/9	40.0	8.563972	4.0	358734.0	0.214099	Y
8	STD9 240-539537/10	50.0	10.408862	4.0	360645.0	0.208177	Y



Calibration

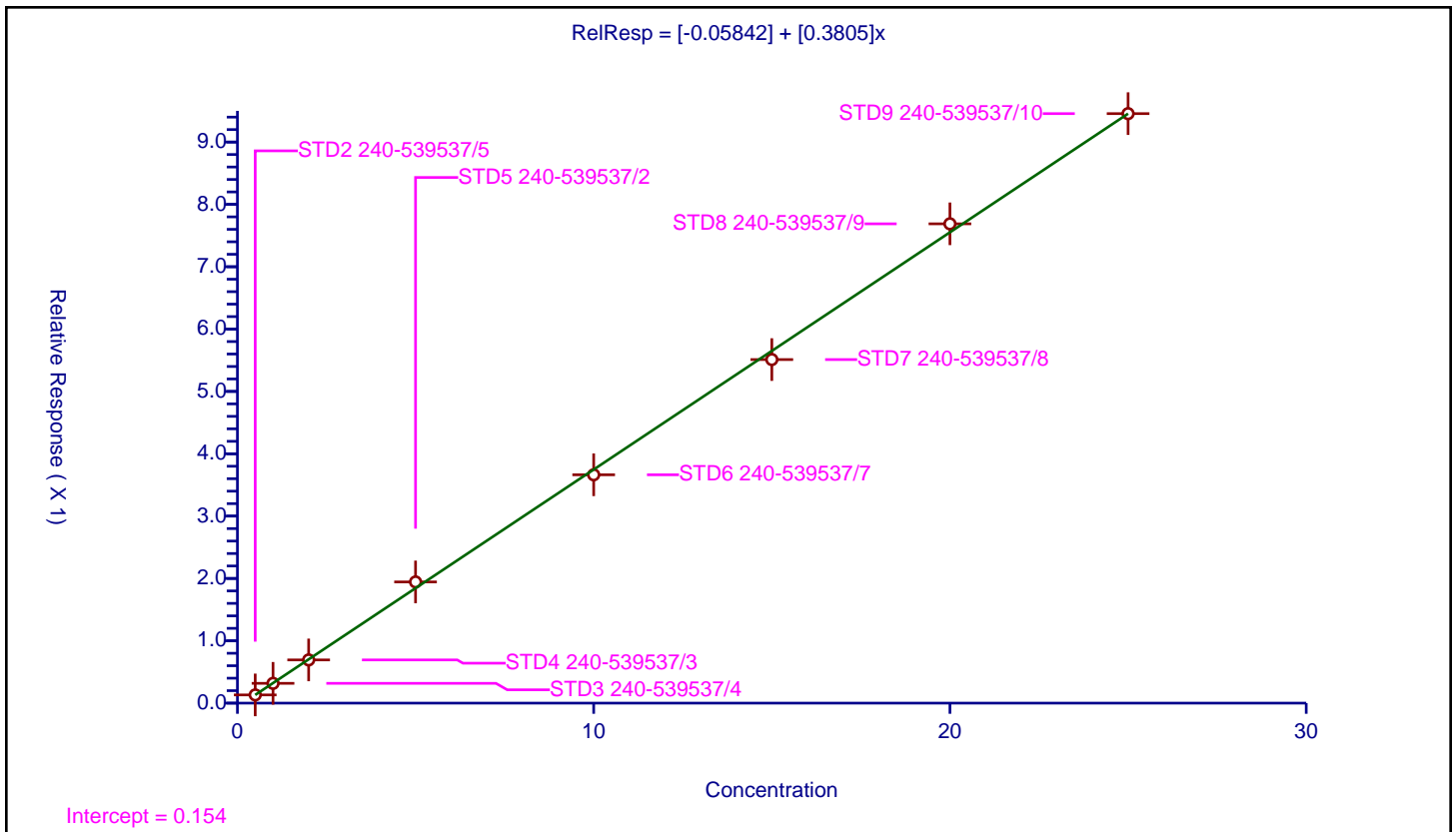
/ 2,4-Dinitrotoluene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.05842
Slope:	0.3805

Error Coefficients	
Standard Error:	524000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.131982	4.0	391235.0	0.263964	Y
2	STD3 240-539537/4	1.0	0.317427	4.0	398176.0	0.317427	Y
3	STD4 240-539537/3	2.0	0.693231	4.0	398684.0	0.346615	Y
4	STD5 240-539537/2	5.0	1.944191	4.0	341487.0	0.388838	Y
5	STD6 240-539537/7	10.0	3.662876	4.0	378864.0	0.366288	Y
6	STD7 240-539537/8	15.0	5.511179	4.0	391583.0	0.367412	Y
7	STD8 240-539537/9	20.0	7.688661	4.0	358734.0	0.384433	Y
8	STD9 240-539537/10	25.0	9.455814	4.0	360645.0	0.378233	Y



Calibration

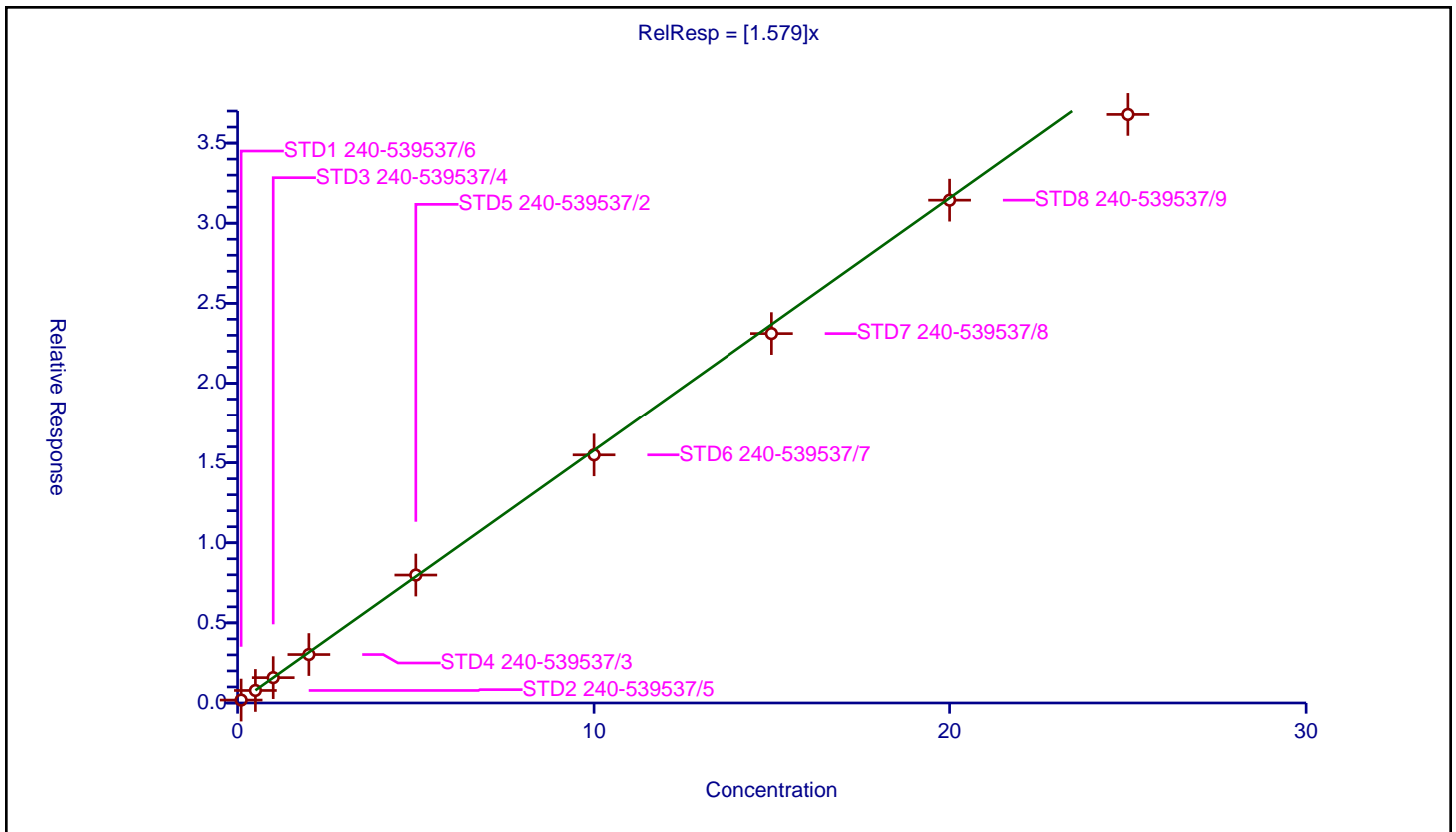
/ Dibenzofuran

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.579

Error Coefficients	
Standard Error:	1830000
Relative Standard Error:	6.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.182206	4.0	381348.0	1.822063	Y
2	STD2 240-539537/5	0.5	0.781065	4.0	391235.0	1.56213	Y
3	STD3 240-539537/4	1.0	1.581441	4.0	398176.0	1.581441	Y
4	STD4 240-539537/3	2.0	3.022424	4.0	398684.0	1.511212	Y
5	STD5 240-539537/2	5.0	7.984023	4.0	341487.0	1.596805	Y
6	STD6 240-539537/7	10.0	15.489199	4.0	378864.0	1.54892	Y
7	STD7 240-539537/8	15.0	23.109737	4.0	391583.0	1.540649	Y
8	STD8 240-539537/9	20.0	31.43779	4.0	358734.0	1.571889	Y
9	STD9 240-539537/10	25.0	36.788066	4.0	360645.0	1.471523	Y



Calibration

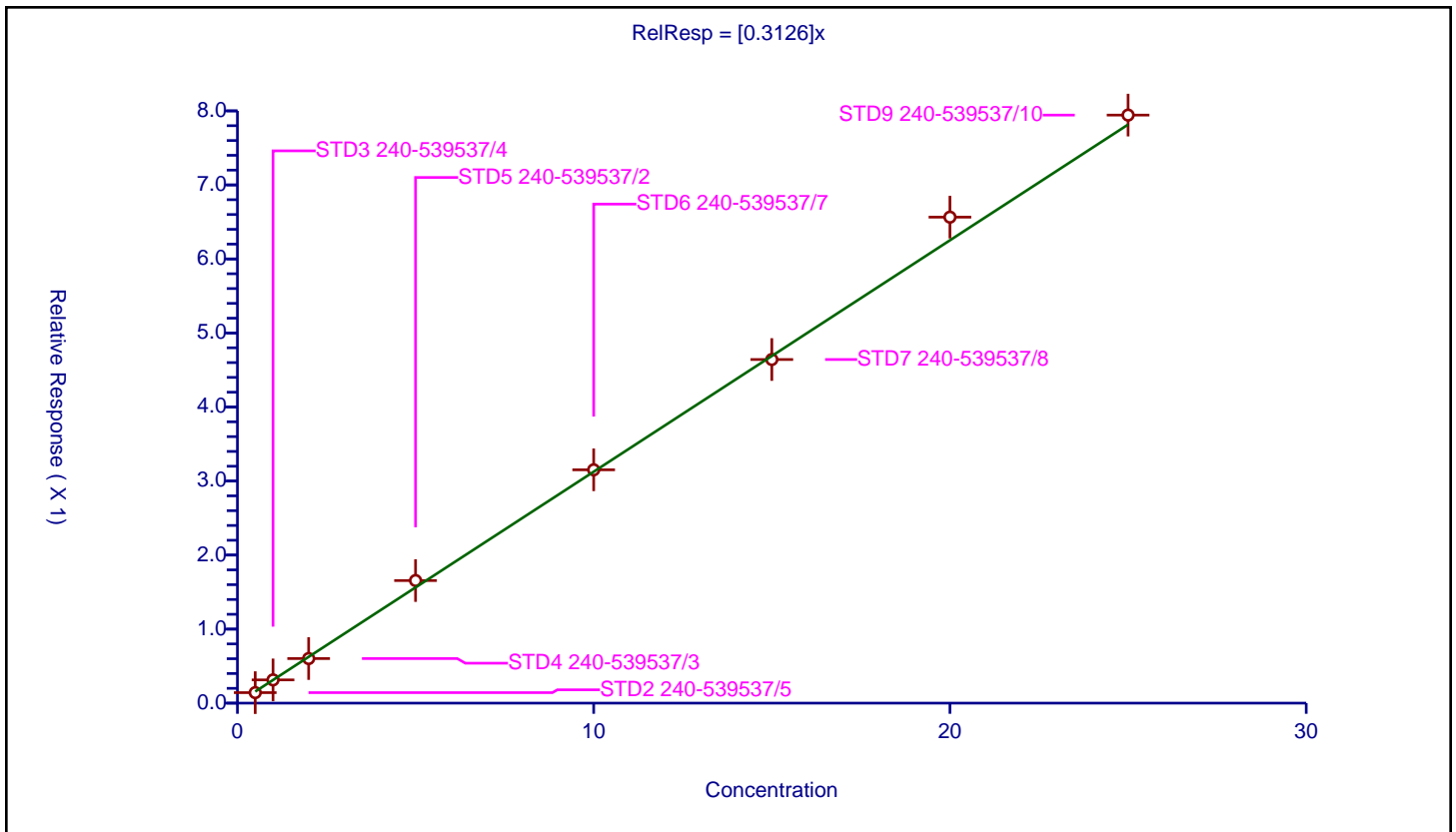
/ 2,3,4,6-Tetrachlorophenol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3126

Error Coefficients	
Standard Error:	411000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.141961	4.0	391235.0	0.283921	Y
2	STD3 240-539537/4	1.0	0.314032	4.0	398176.0	0.314032	Y
3	STD4 240-539537/3	2.0	0.602211	4.0	398684.0	0.301106	Y
4	STD5 240-539537/2	5.0	1.655712	4.0	341487.0	0.331142	Y
5	STD6 240-539537/7	10.0	3.151717	4.0	378864.0	0.315172	Y
6	STD7 240-539537/8	15.0	4.641713	4.0	391583.0	0.309448	Y
7	STD8 240-539537/9	20.0	6.564585	4.0	358734.0	0.328229	Y
8	STD9 240-539537/10	25.0	7.943146	4.0	360645.0	0.317726	Y



Calibration

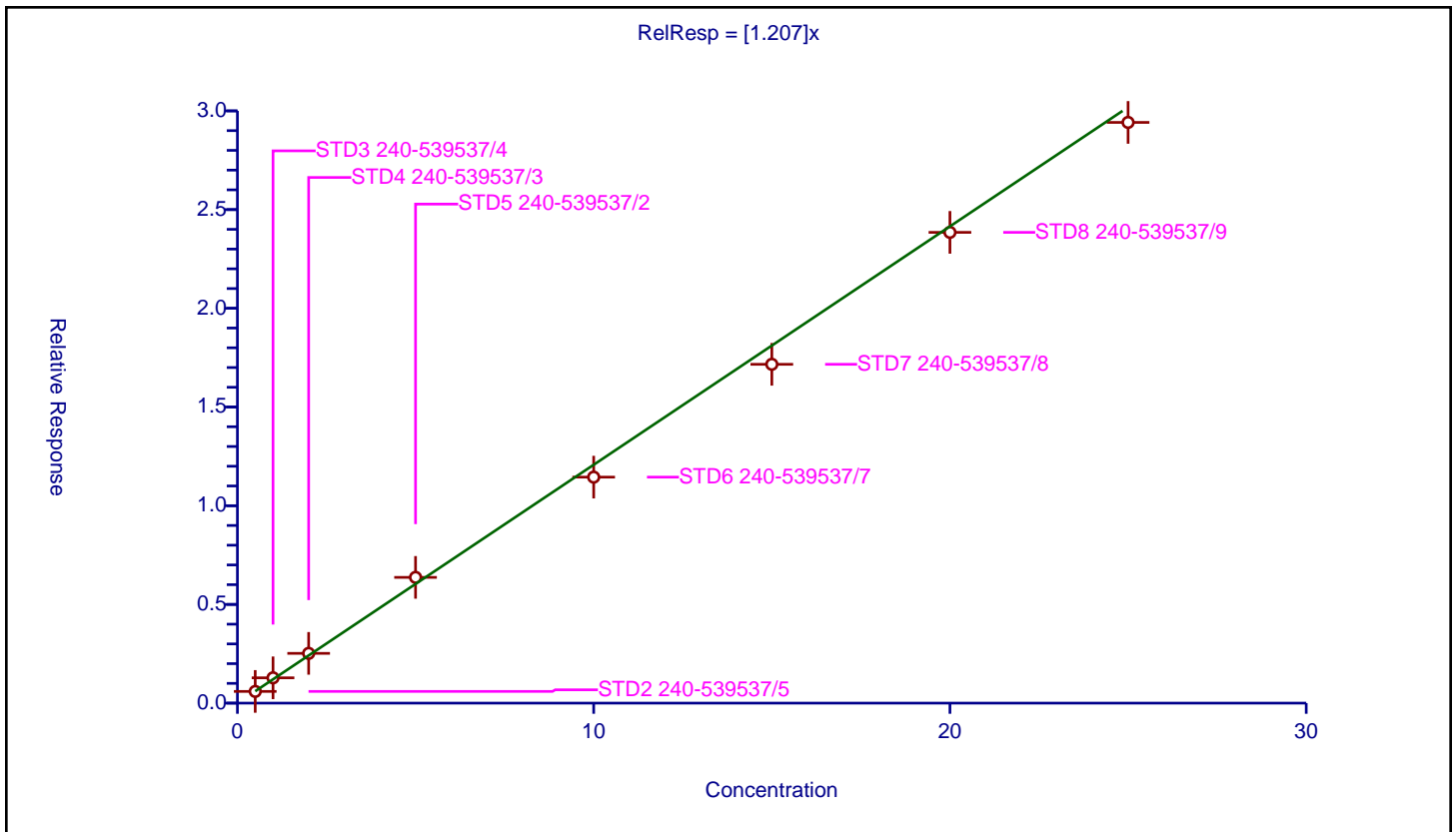
/ Diethyl phthalate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.207

Error Coefficients	
Standard Error:	1510000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.592411	4.0	391235.0	1.184822	Y
2	STD3 240-539537/4	1.0	1.282297	4.0	398176.0	1.282297	Y
3	STD4 240-539537/3	2.0	2.521124	4.0	398684.0	1.260562	Y
4	STD5 240-539537/2	5.0	6.370398	4.0	341487.0	1.27408	Y
5	STD6 240-539537/7	10.0	11.447485	4.0	378864.0	1.144749	Y
6	STD7 240-539537/8	15.0	17.163472	4.0	391583.0	1.144231	Y
7	STD8 240-539537/9	20.0	23.846148	4.0	358734.0	1.192307	Y
8	STD9 240-539537/10	25.0	29.415309	4.0	360645.0	1.176612	Y



Calibration

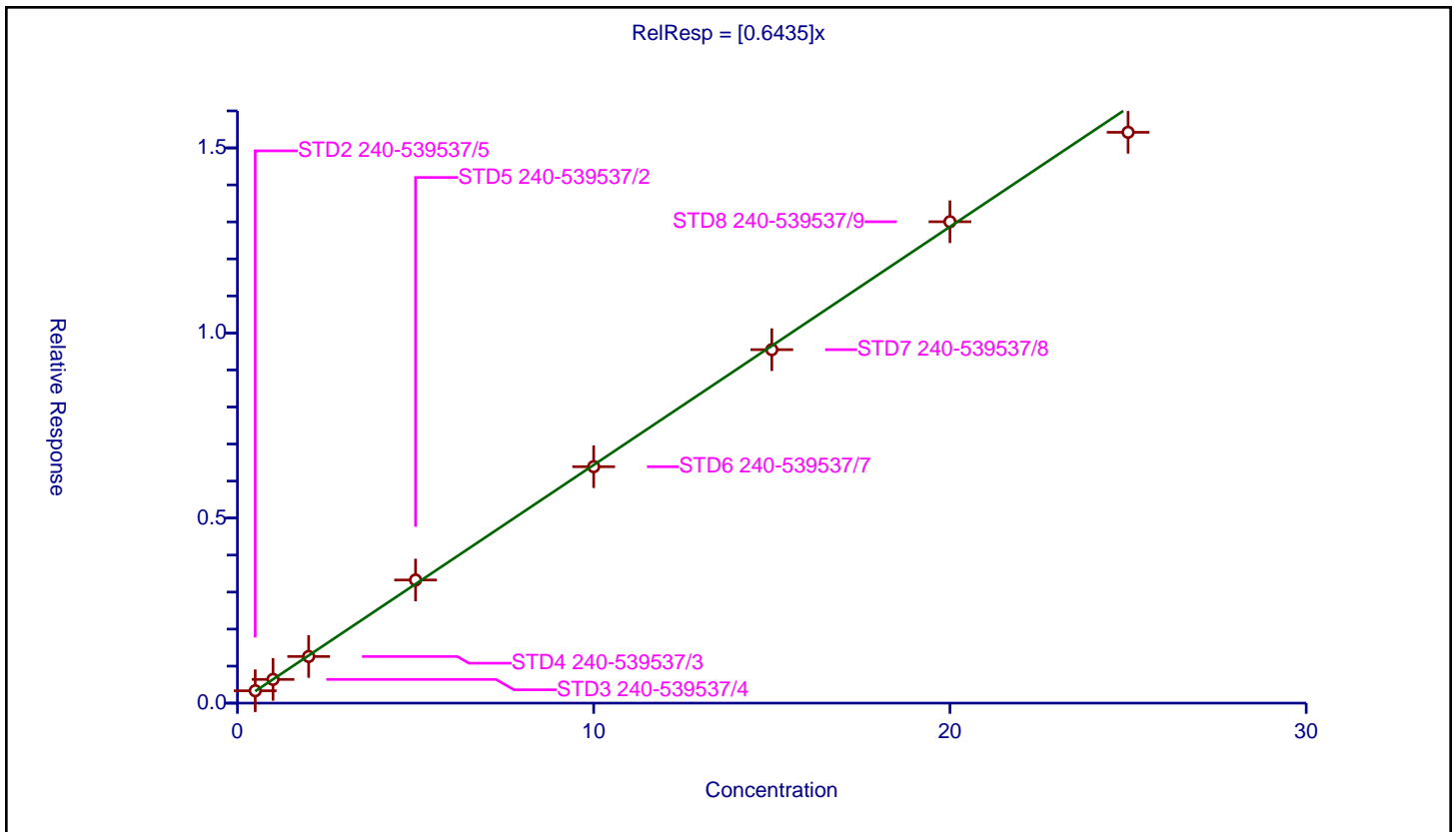
/ 4-Chlorophenyl phenyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6435

Error Coefficients	
Standard Error:	814000
Relative Standard Error:	2.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.334387	4.0	391235.0	0.668775	Y
2	STD3 240-539537/4	1.0	0.640782	4.0	398176.0	0.640782	Y
3	STD4 240-539537/3	2.0	1.260607	4.0	398684.0	0.630304	Y
4	STD5 240-539537/2	5.0	3.326756	4.0	341487.0	0.665351	Y
5	STD6 240-539537/7	10.0	6.388023	4.0	378864.0	0.638802	Y
6	STD7 240-539537/8	15.0	9.549005	4.0	391583.0	0.6366	Y
7	STD8 240-539537/9	20.0	13.005358	4.0	358734.0	0.650268	Y
8	STD9 240-539537/10	25.0	15.421581	4.0	360645.0	0.616863	Y



Calibration

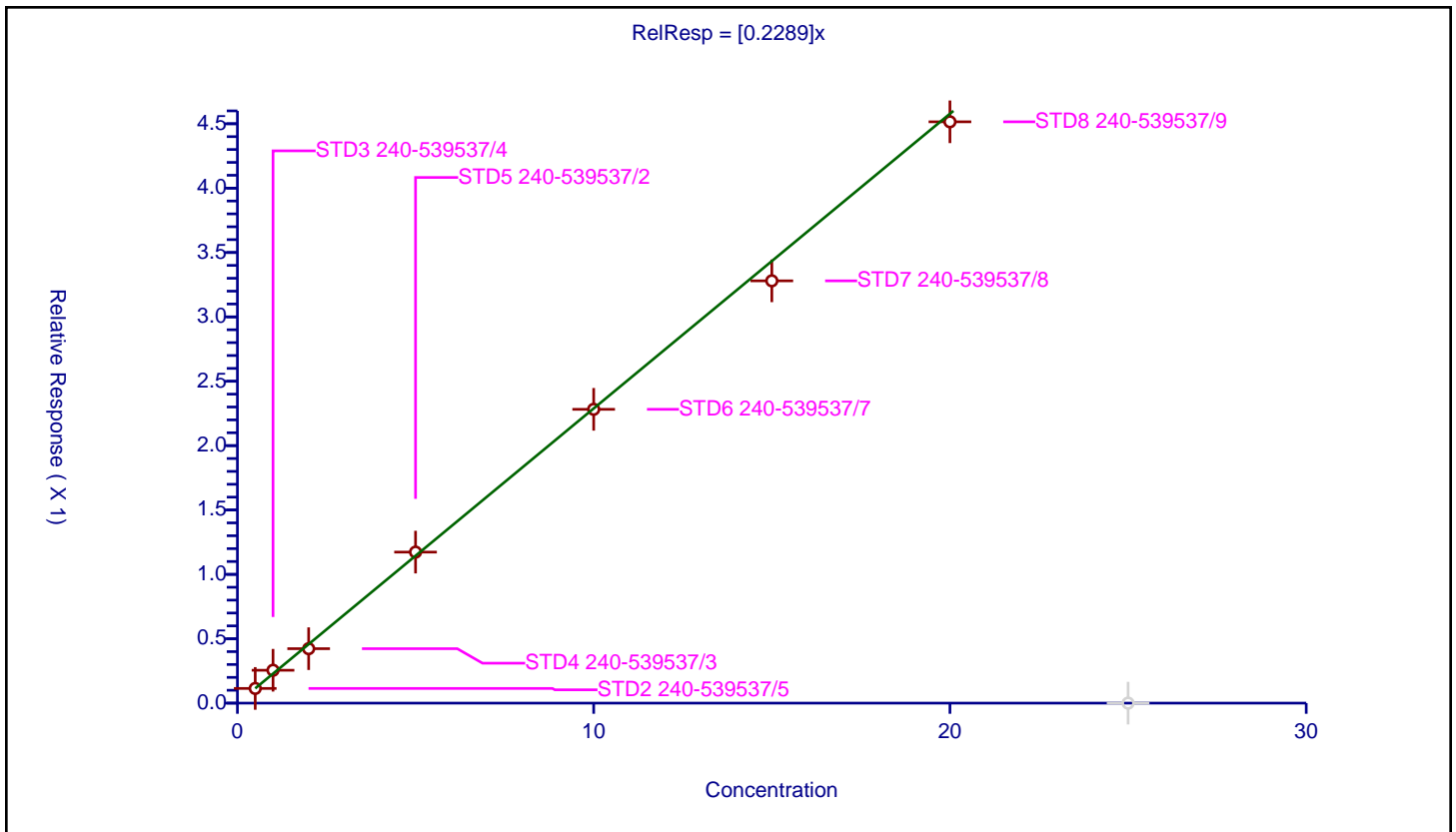
/ 4-Nitroaniline

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2289

Error Coefficients	
Standard Error:	233000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.11407	4.0	391235.0	0.228139	Y
2	STD3 240-539537/4	1.0	0.255364	4.0	398176.0	0.255364	Y
3	STD4 240-539537/3	2.0	0.422851	4.0	398684.0	0.211426	Y
4	STD5 240-539537/2	5.0	1.173093	4.0	341487.0	0.234619	Y
5	STD6 240-539537/7	10.0	2.282117	4.0	378864.0	0.228212	Y
6	STD7 240-539537/8	15.0	3.28004	4.0	391583.0	0.218669	Y
7	STD8 240-539537/9	20.0	4.515111	4.0	358734.0	0.225756	Y
8	STD9 240-539537/10	25.0	0.0	4.0	360645.0	0.0	N



Calibration

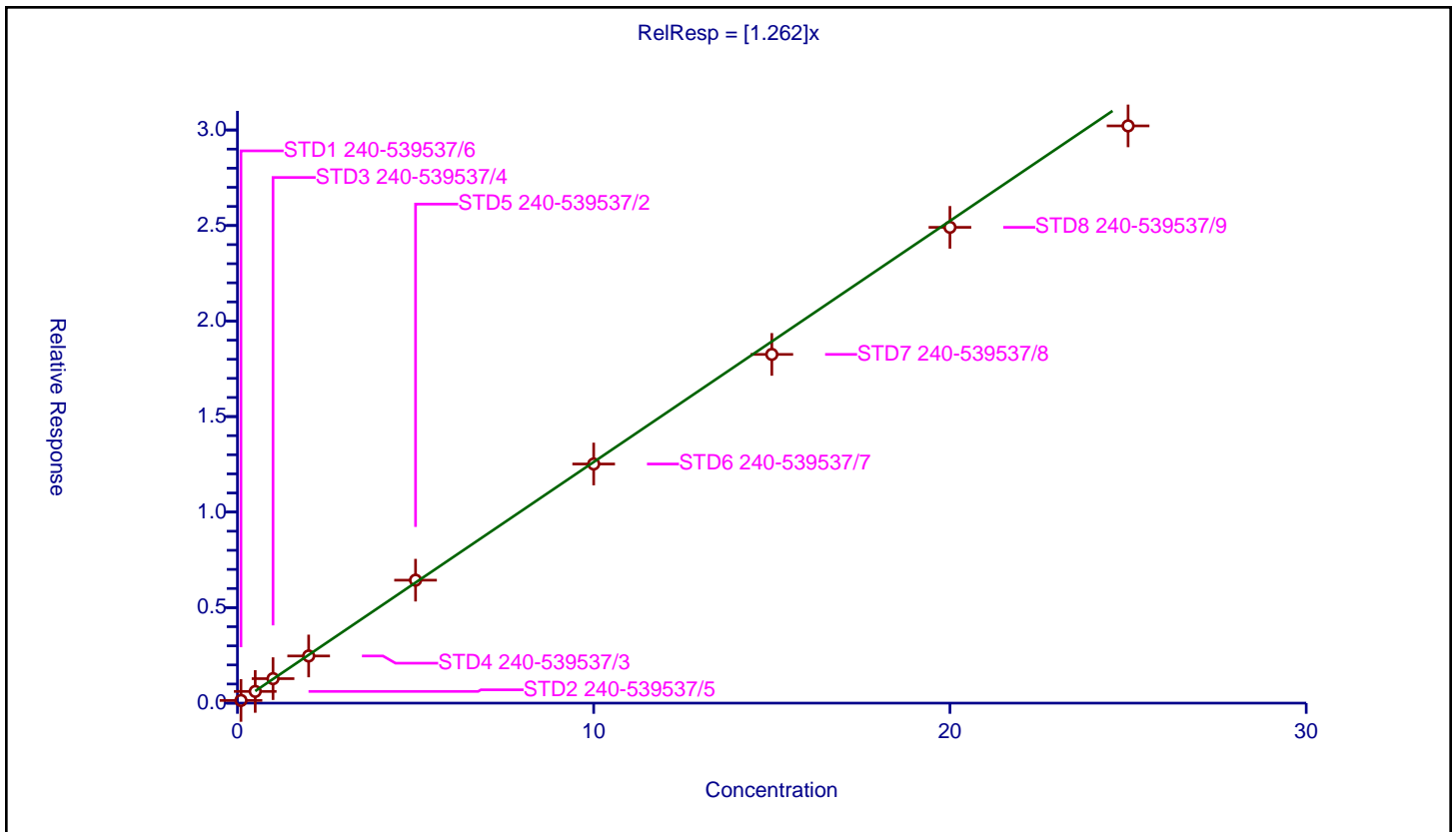
/ Fluorene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.262

Error Coefficients	
Standard Error:	1470000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.140606	4.0	381348.0	1.406065	Y
2	STD2 240-539537/5	0.5	0.61337	4.0	391235.0	1.226741	Y
3	STD3 240-539537/4	1.0	1.281453	4.0	398176.0	1.281453	Y
4	STD4 240-539537/3	2.0	2.46823	4.0	398684.0	1.234115	Y
5	STD5 240-539537/2	5.0	6.43652	4.0	341487.0	1.287304	Y
6	STD6 240-539537/7	10.0	12.516618	4.0	378864.0	1.251662	Y
7	STD7 240-539537/8	15.0	18.25307	4.0	391583.0	1.216871	Y
8	STD8 240-539537/9	20.0	24.90496	4.0	358734.0	1.245248	Y
9	STD9 240-539537/10	25.0	30.214621	4.0	360645.0	1.208585	Y



Calibration

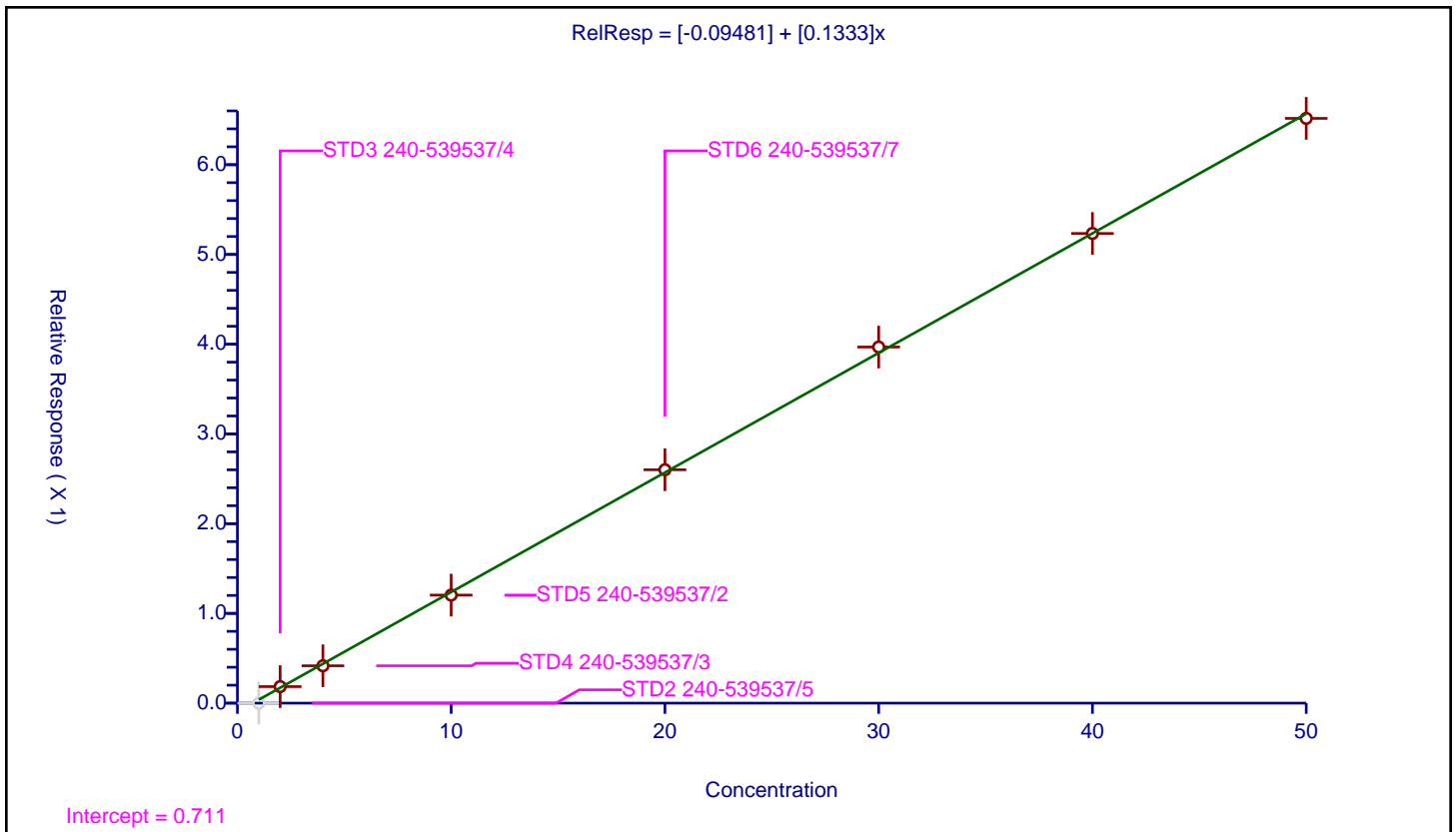
/ 4,6-Dinitro-2-methylphenol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.09481
Slope:	0.1333

Error Coefficients	
Standard Error:	715000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.0	4.0	717841.0	0.0	N
2	STD3 240-539537/4	2.0	0.184178	4.0	735765.0	0.092089	Y
3	STD4 240-539537/3	4.0	0.416205	4.0	708199.0	0.104051	Y
4	STD5 240-539537/2	10.0	1.203872	4.0	595658.0	0.120387	Y
5	STD6 240-539537/7	20.0	2.600912	4.0	652888.0	0.130046	Y
6	STD7 240-539537/8	30.0	3.968396	4.0	672565.0	0.13228	Y
7	STD8 240-539537/9	40.0	5.234019	4.0	656421.0	0.13085	Y
8	STD9 240-539537/10	50.0	6.516598	4.0	658864.0	0.130332	Y



Calibration

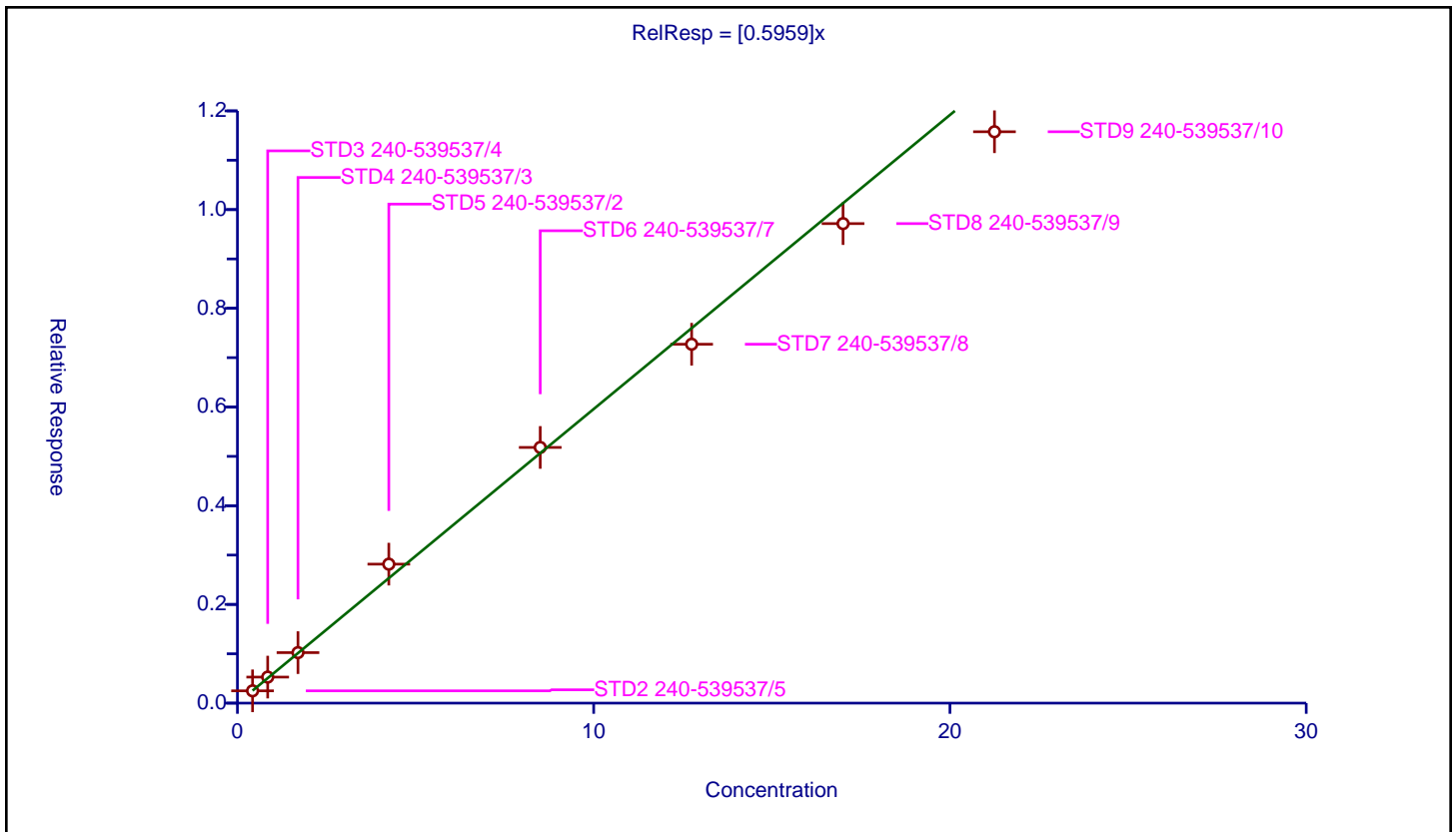
/ Diphenylamine

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5959

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.425	0.248824	4.0	717841.0	0.585468	Y
2	STD3 240-539537/4	0.85	0.52775	4.0	735765.0	0.620882	Y
3	STD4 240-539537/3	1.7	1.023283	4.0	708199.0	0.601931	Y
4	STD5 240-539537/2	4.25	2.815985	4.0	595658.0	0.662585	Y
5	STD6 240-539537/7	8.5	5.180974	4.0	652888.0	0.609526	Y
6	STD7 240-539537/8	12.75	7.271904	4.0	672565.0	0.570345	Y
7	STD8 240-539537/9	17.0	9.716136	4.0	656421.0	0.571537	Y
8	STD9 240-539537/10	21.25	11.57771	4.0	658864.0	0.544833	Y



Calibration

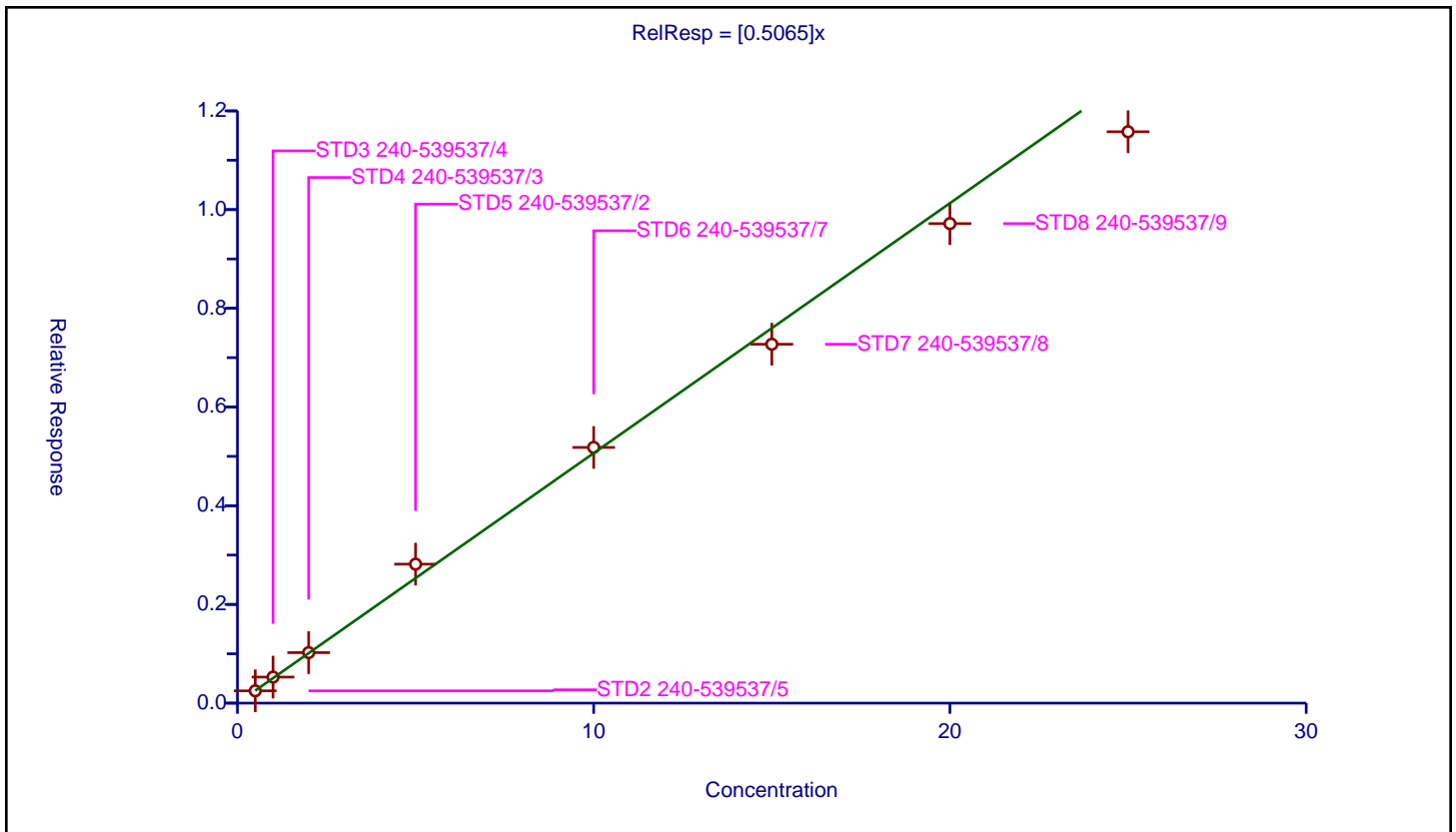
/ N-Nitrosodiphenylamine

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5065

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.248824	4.0	717841.0	0.497648	Y
2	STD3 240-539537/4	1.0	0.52775	4.0	735765.0	0.52775	Y
3	STD4 240-539537/3	2.0	1.023283	4.0	708199.0	0.511642	Y
4	STD5 240-539537/2	5.0	2.815985	4.0	595658.0	0.563197	Y
5	STD6 240-539537/7	10.0	5.180974	4.0	652888.0	0.518097	Y
6	STD7 240-539537/8	15.0	7.271904	4.0	672565.0	0.484794	Y
7	STD8 240-539537/9	20.0	9.716136	4.0	656421.0	0.485807	Y
8	STD9 240-539537/10	25.0	11.57771	4.0	658864.0	0.463108	Y



Calibration

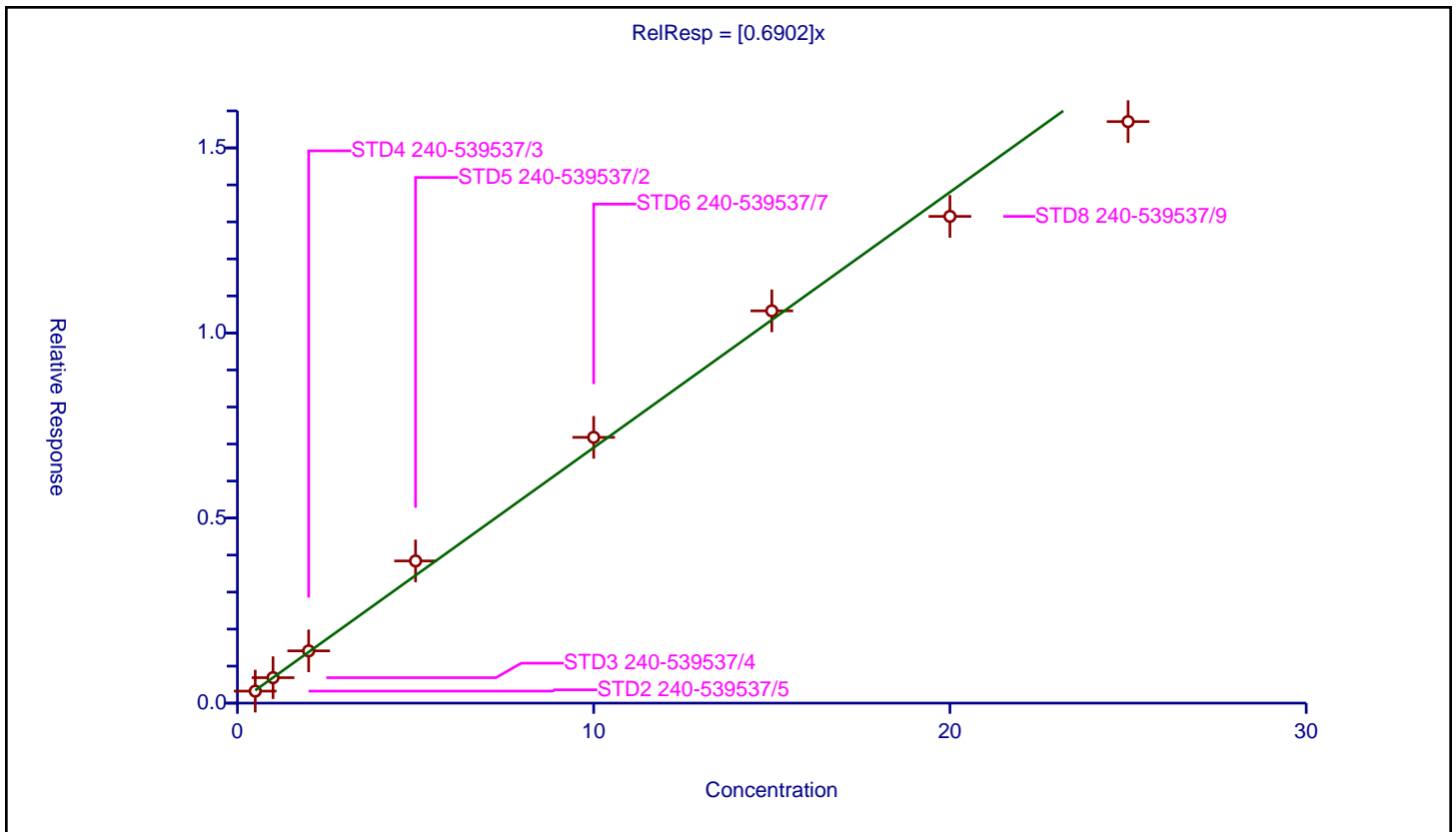
/ Azobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6902

Error Coefficients	
Standard Error:	1530000
Relative Standard Error:	6.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.324674	4.0	717841.0	0.649347	Y
2	STD3 240-539537/4	1.0	0.687643	4.0	735765.0	0.687643	Y
3	STD4 240-539537/3	2.0	1.412145	4.0	708199.0	0.706073	Y
4	STD5 240-539537/2	5.0	3.841171	4.0	595658.0	0.768234	Y
5	STD6 240-539537/7	10.0	7.180846	4.0	652888.0	0.718085	Y
6	STD7 240-539537/8	15.0	10.598054	4.0	672565.0	0.706537	Y
7	STD8 240-539537/9	20.0	13.149555	4.0	656421.0	0.657478	Y
8	STD9 240-539537/10	25.0	15.710933	4.0	658864.0	0.628437	Y



Calibration

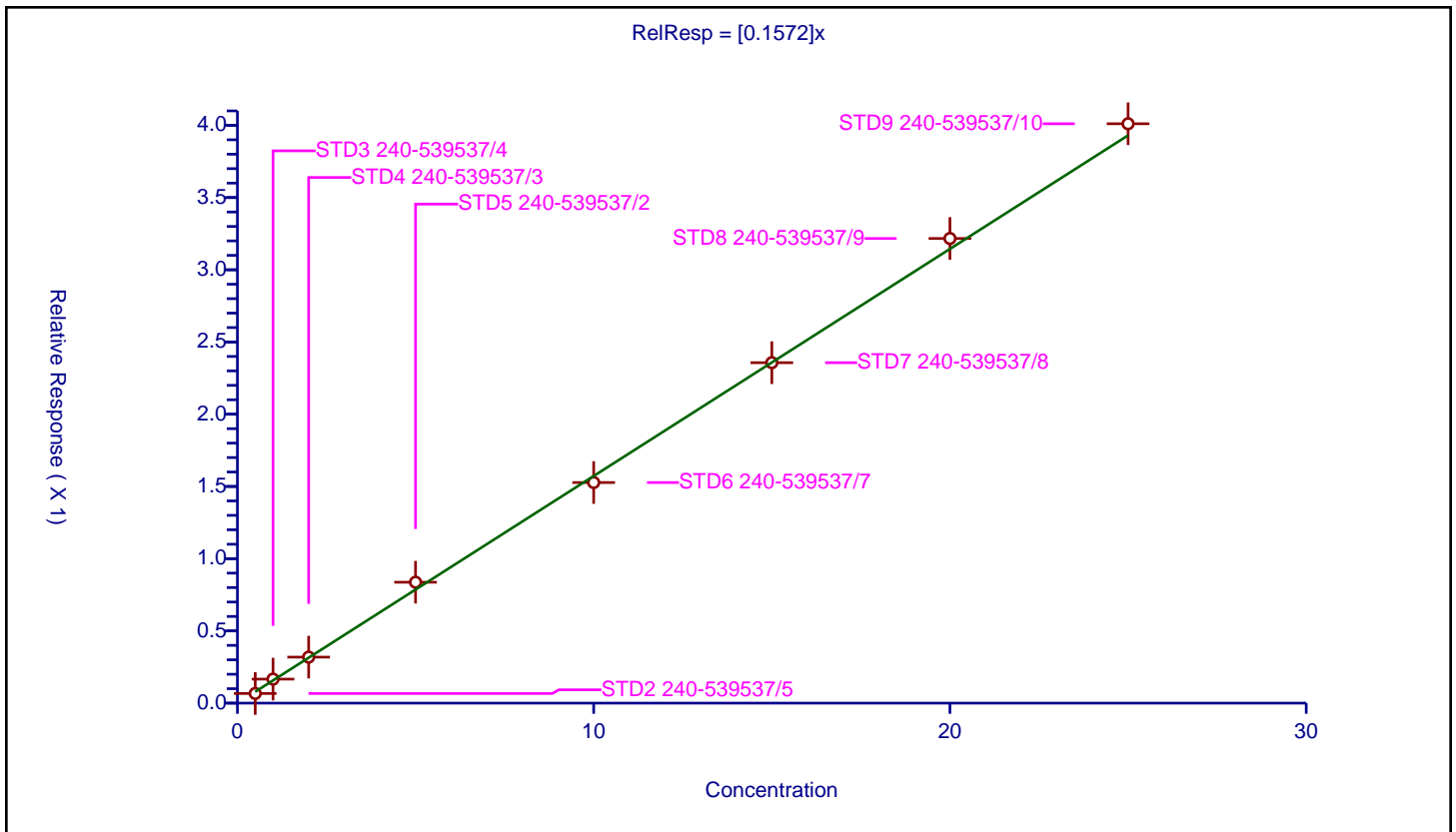
/ 2,4,6-Tribromophenol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1572

Error Coefficients	
Standard Error:	205000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.066855	4.0	391235.0	0.13371	Y
2	STD3 240-539537/4	1.0	0.166258	4.0	398176.0	0.166258	Y
3	STD4 240-539537/3	2.0	0.318538	4.0	398684.0	0.159269	Y
4	STD5 240-539537/2	5.0	0.836963	4.0	341487.0	0.167393	Y
5	STD6 240-539537/7	10.0	1.527229	4.0	378864.0	0.152723	Y
6	STD7 240-539537/8	15.0	2.356834	4.0	391583.0	0.157122	Y
7	STD8 240-539537/9	20.0	3.216645	4.0	358734.0	0.160832	Y
8	STD9 240-539537/10	25.0	4.010903	4.0	360645.0	0.160436	Y



Calibration

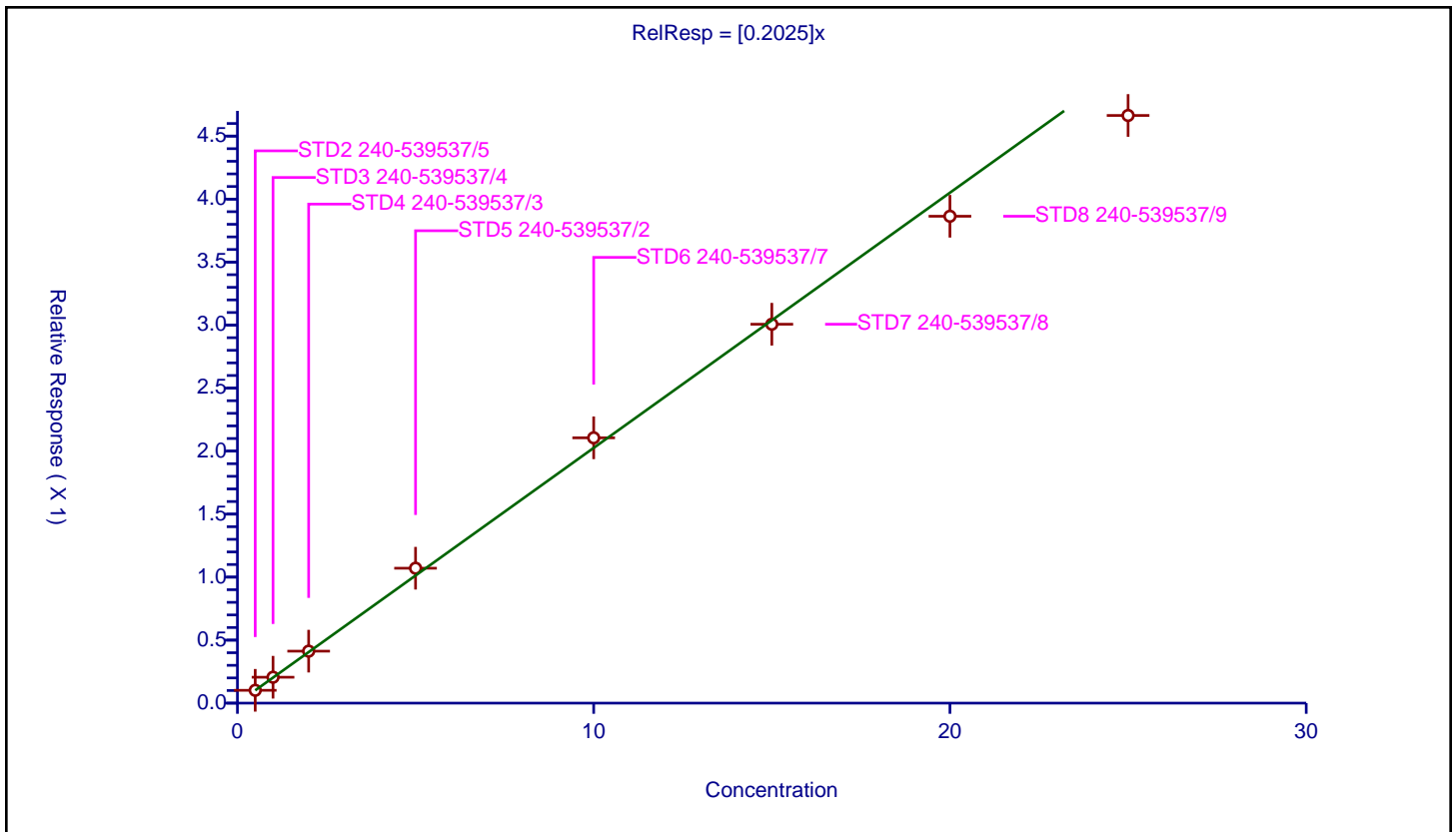
/ 4-Bromophenyl phenyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2025

Error Coefficients	
Standard Error:	447000
Relative Standard Error:	4.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.101738	4.0	717841.0	0.203477	Y
2	STD3 240-539537/4	1.0	0.205609	4.0	735765.0	0.205609	Y
3	STD4 240-539537/3	2.0	0.412551	4.0	708199.0	0.206275	Y
4	STD5 240-539537/2	5.0	1.070749	4.0	595658.0	0.21415	Y
5	STD6 240-539537/7	10.0	2.105476	4.0	652888.0	0.210548	Y
6	STD7 240-539537/8	15.0	3.006871	4.0	672565.0	0.200458	Y
7	STD8 240-539537/9	20.0	3.863935	4.0	656421.0	0.193197	Y
8	STD9 240-539537/10	25.0	4.663706	4.0	658864.0	0.186548	Y



Calibration

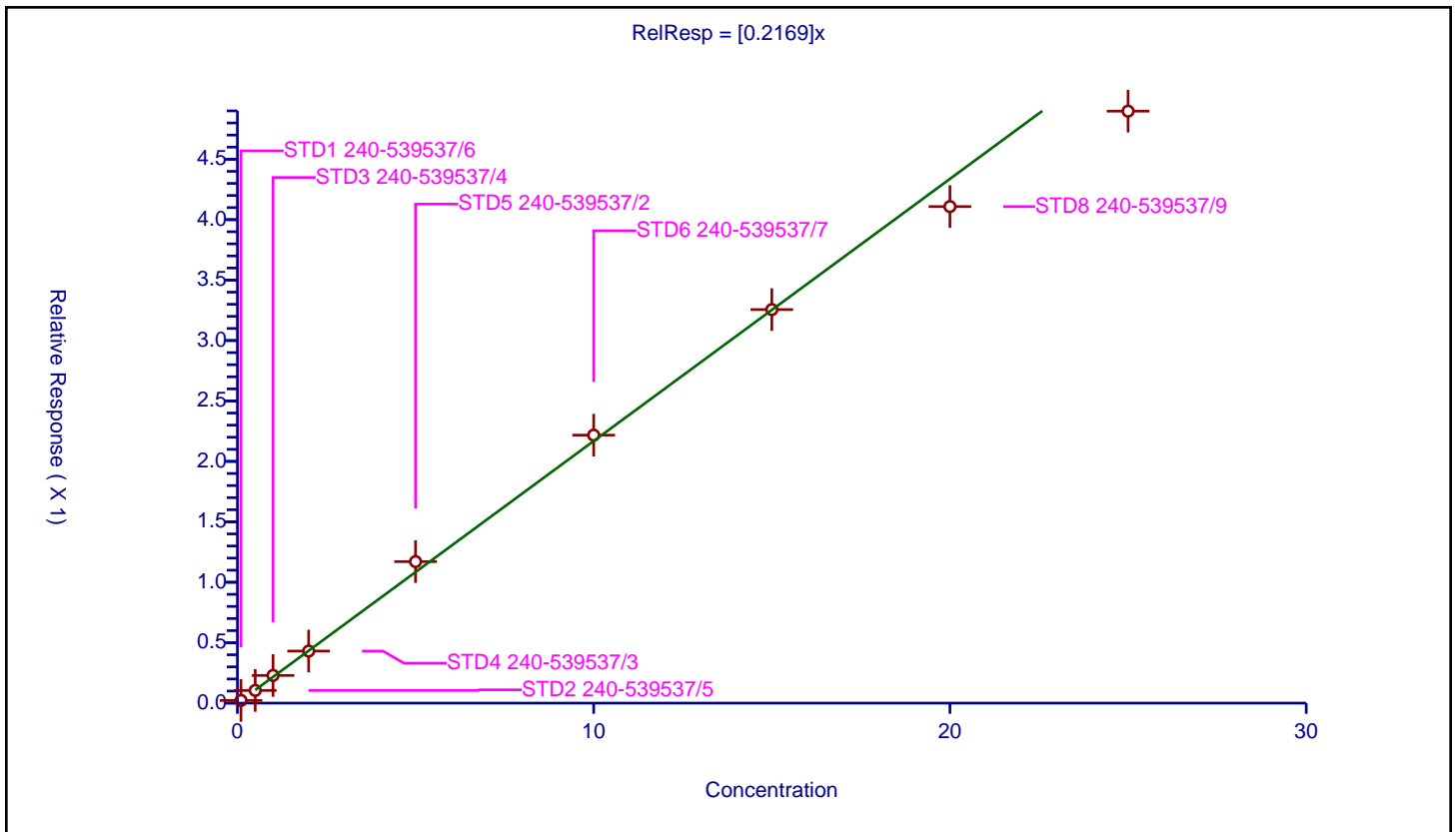
/ Hexachlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2169

Error Coefficients	
Standard Error:	444000
Relative Standard Error:	5.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.022313	4.0	705413.0	0.223132	Y
2	STD2 240-539537/5	0.5	0.104965	4.0	717841.0	0.209929	Y
3	STD3 240-539537/4	1.0	0.229089	4.0	735765.0	0.229089	Y
4	STD4 240-539537/3	2.0	0.430687	4.0	708199.0	0.215343	Y
5	STD5 240-539537/2	5.0	1.170961	4.0	595658.0	0.234192	Y
6	STD6 240-539537/7	10.0	2.217226	4.0	652888.0	0.221723	Y
7	STD7 240-539537/8	15.0	3.256108	4.0	672565.0	0.217074	Y
8	STD8 240-539537/9	20.0	4.108156	4.0	656421.0	0.205408	Y
9	STD9 240-539537/10	25.0	4.89783	4.0	658864.0	0.195913	Y



Calibration

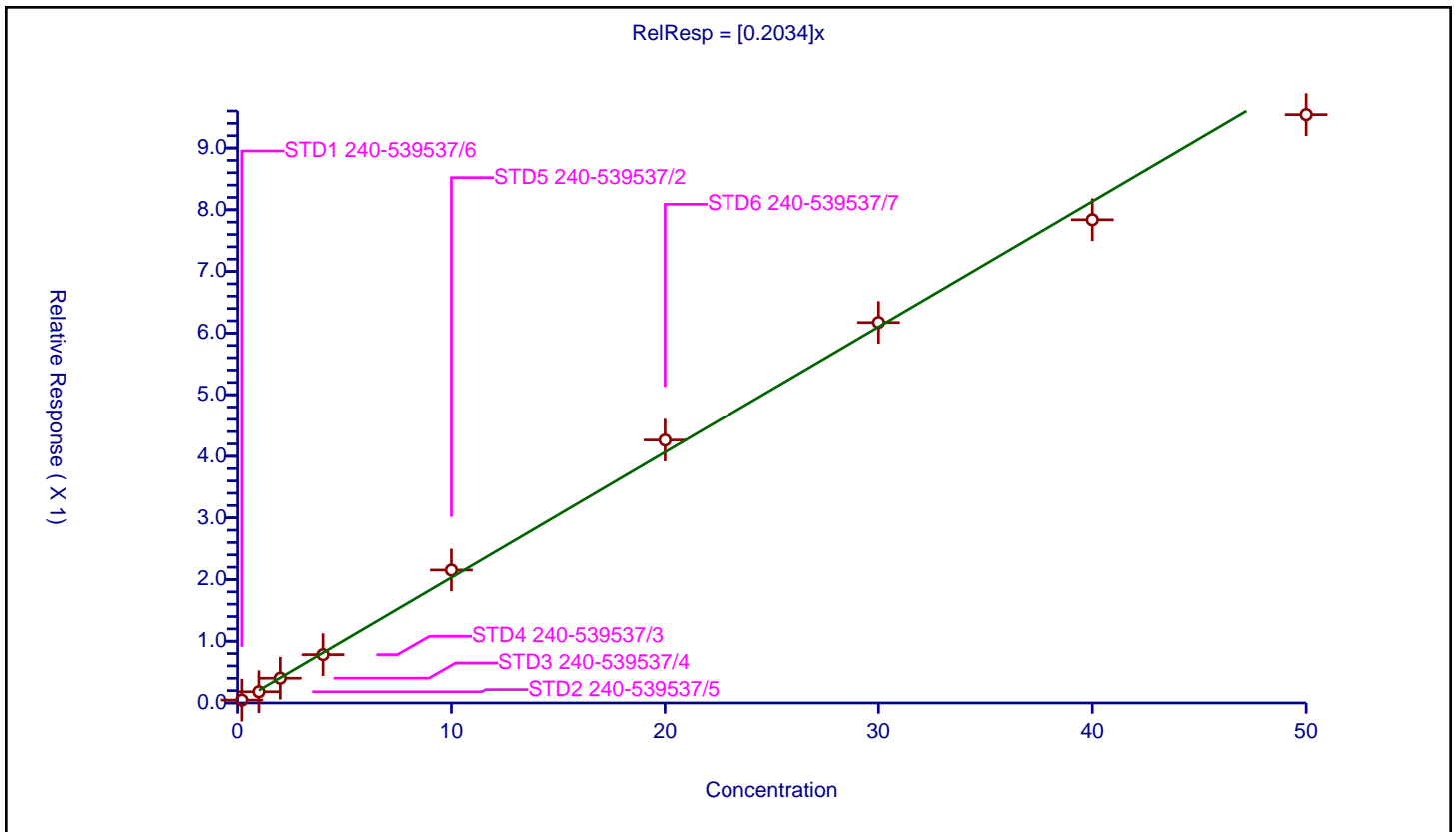
/ Atrazine

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2034

Error Coefficients	
Standard Error:	853000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.2	0.046225	4.0	705413.0	0.231127	Y
2	STD2 240-539537/5	1.0	0.181706	4.0	717841.0	0.181706	Y
3	STD3 240-539537/4	2.0	0.400878	4.0	735765.0	0.200439	Y
4	STD4 240-539537/3	4.0	0.783034	4.0	708199.0	0.195759	Y
5	STD5 240-539537/2	10.0	2.154532	4.0	595658.0	0.215453	Y
6	STD6 240-539537/7	20.0	4.263065	4.0	652888.0	0.213153	Y
7	STD7 240-539537/8	30.0	6.172162	4.0	672565.0	0.205739	Y
8	STD8 240-539537/9	40.0	7.838725	4.0	656421.0	0.195968	Y
9	STD9 240-539537/10	50.0	9.541471	4.0	658864.0	0.190829	Y



Calibration

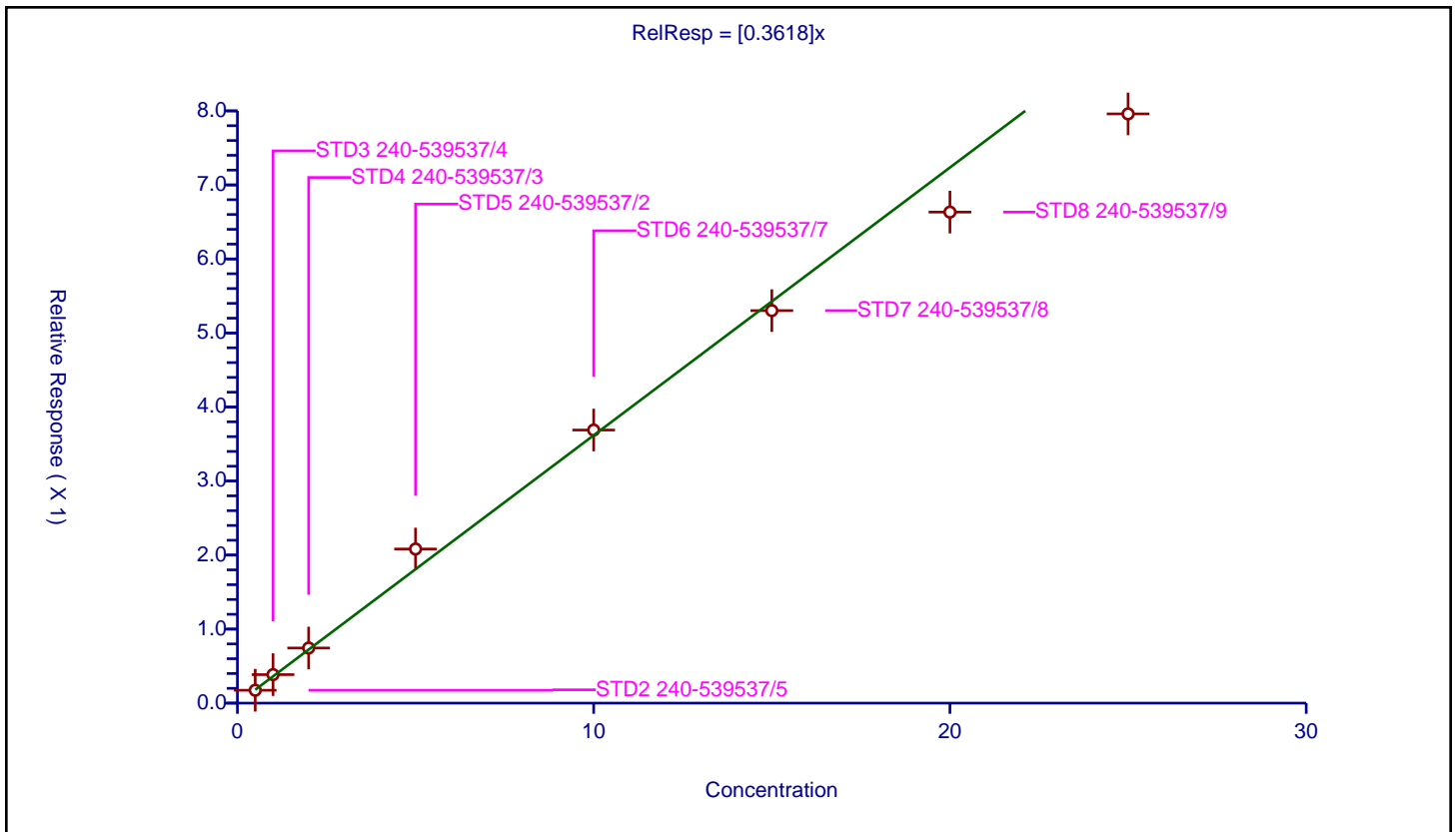
/ n-Octadecane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3618

Error Coefficients	
Standard Error:	773000
Relative Standard Error:	8.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.174022	4.0	717841.0	0.348044	Y
2	STD3 240-539537/4	1.0	0.384992	4.0	735765.0	0.384992	Y
3	STD4 240-539537/3	2.0	0.744395	4.0	708199.0	0.372198	Y
4	STD5 240-539537/2	5.0	2.081966	4.0	595658.0	0.416393	Y
5	STD6 240-539537/7	10.0	3.688896	4.0	652888.0	0.36889	Y
6	STD7 240-539537/8	15.0	5.30209	4.0	672565.0	0.353473	Y
7	STD8 240-539537/9	20.0	6.632743	4.0	656421.0	0.331637	Y
8	STD9 240-539537/10	25.0	7.959366	4.0	658864.0	0.318375	Y



Calibration

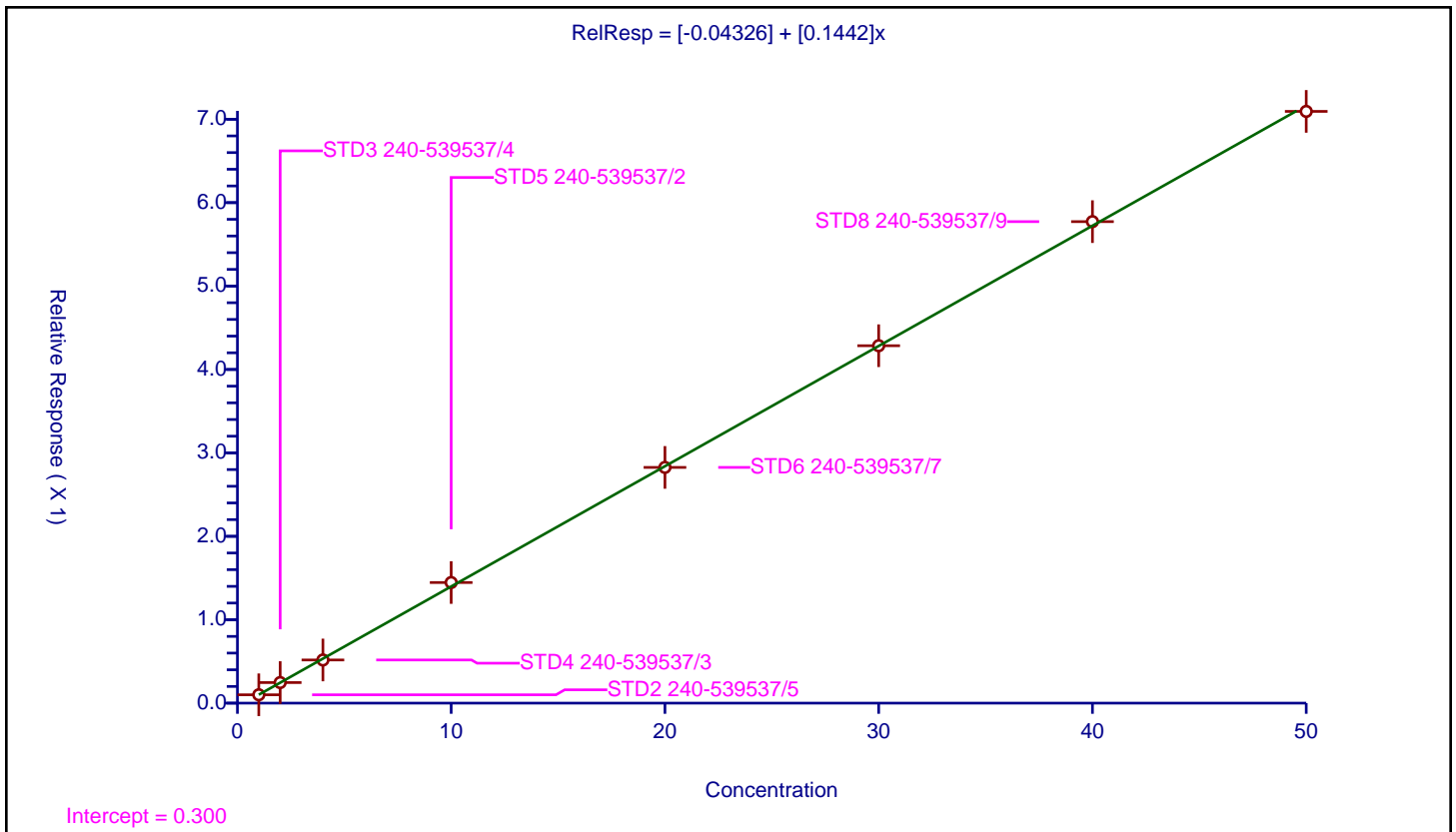
/ Pentachlorophenol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.04326
Slope:	0.1442

Error Coefficients	
Standard Error:	713000
Relative Standard Error:	1.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.10015	4.0	717841.0	0.10015	Y
2	STD3 240-539537/4	2.0	0.246617	4.0	735765.0	0.123308	Y
3	STD4 240-539537/3	4.0	0.517301	4.0	708199.0	0.129325	Y
4	STD5 240-539537/2	10.0	1.446058	4.0	595658.0	0.144606	Y
5	STD6 240-539537/7	20.0	2.825894	4.0	652888.0	0.141295	Y
6	STD7 240-539537/8	30.0	4.284856	4.0	672565.0	0.142829	Y
7	STD8 240-539537/9	40.0	5.772393	4.0	656421.0	0.14431	Y
8	STD9 240-539537/10	50.0	7.093792	4.0	658864.0	0.141876	Y



Calibration

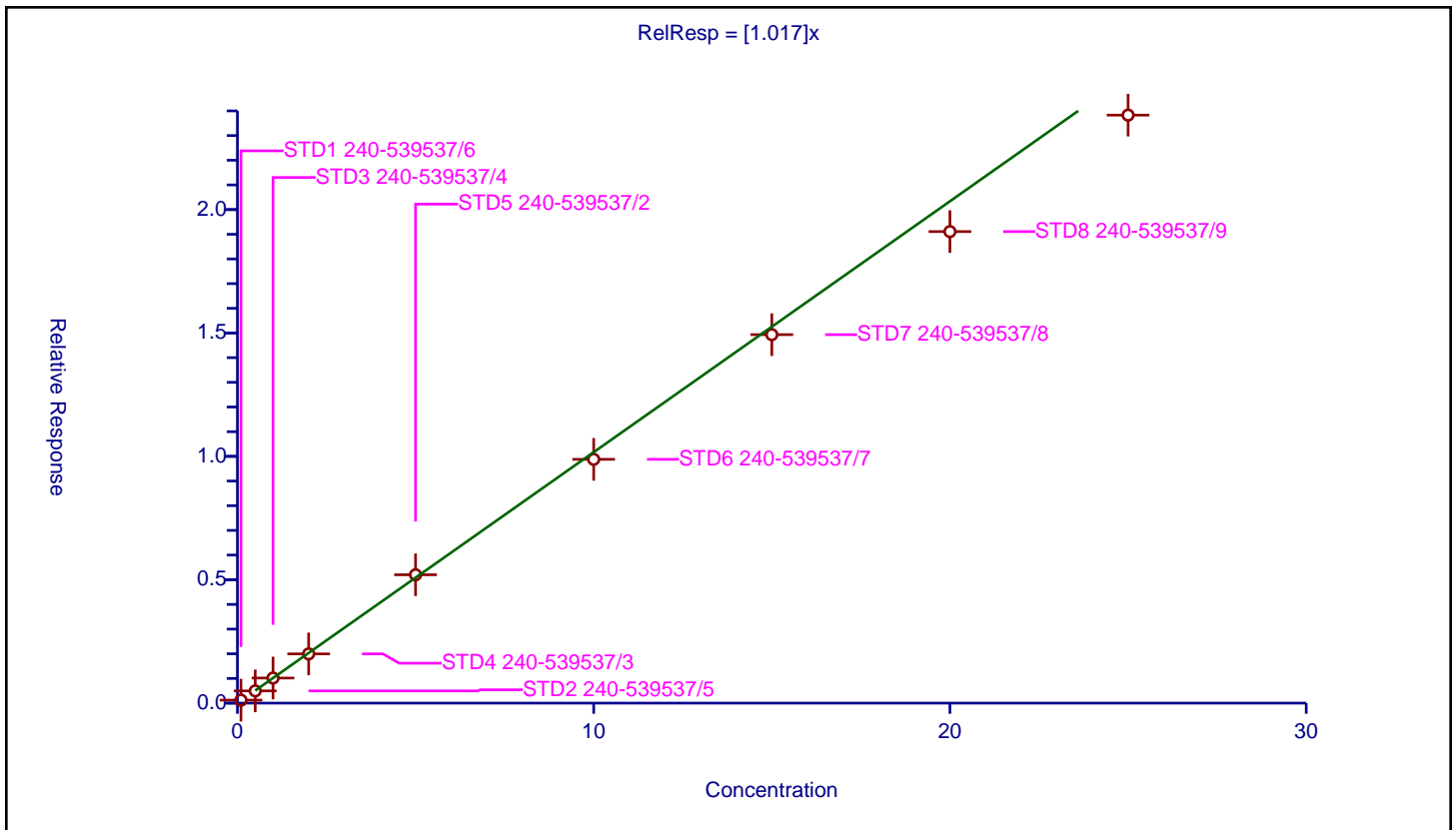
/ Phenanthrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.017

Error Coefficients	
Standard Error:	2090000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.121319	4.0	705413.0	1.21319	Y
2	STD2 240-539537/5	0.5	0.495725	4.0	717841.0	0.991451	Y
3	STD3 240-539537/4	1.0	1.017167	4.0	735765.0	1.017167	Y
4	STD4 240-539537/3	2.0	1.995208	4.0	708199.0	0.997604	Y
5	STD5 240-539537/2	5.0	5.201394	4.0	595658.0	1.040279	Y
6	STD6 240-539537/7	10.0	9.879747	4.0	652888.0	0.987975	Y
7	STD7 240-539537/8	15.0	14.932457	4.0	672565.0	0.995497	Y
8	STD8 240-539537/9	20.0	19.109078	4.0	656421.0	0.955454	Y
9	STD9 240-539537/10	25.0	23.828723	4.0	658864.0	0.953149	Y



Calibration

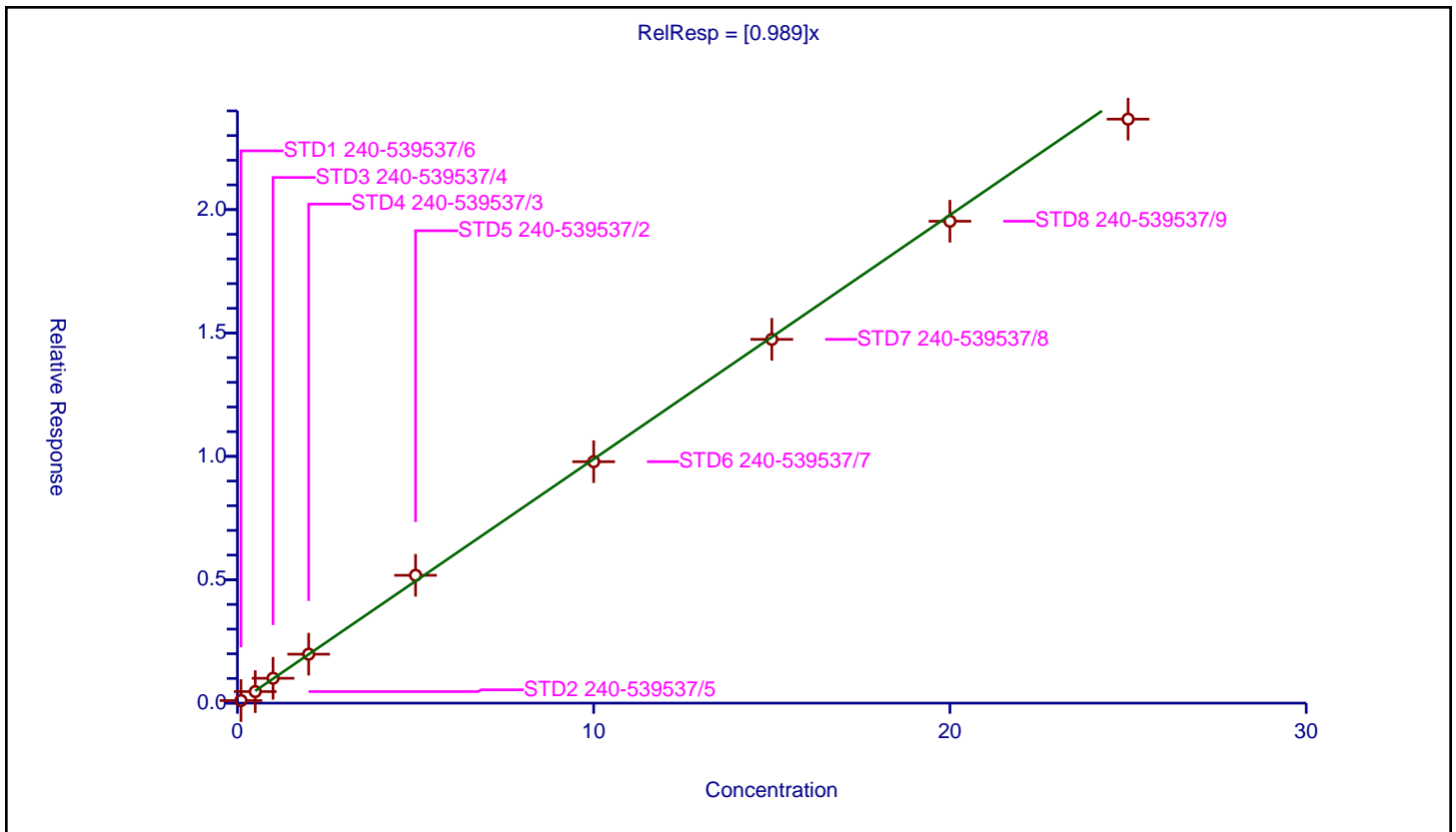
/ Anthracene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.989

Error Coefficients	
Standard Error:	2090000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.104563	4.0	705413.0	1.045629	Y
2	STD2 240-539537/5	0.5	0.467981	4.0	717841.0	0.935962	Y
3	STD3 240-539537/4	1.0	1.0073	4.0	735765.0	1.0073	Y
4	STD4 240-539537/3	2.0	1.983708	4.0	708199.0	0.991854	Y
5	STD5 240-539537/2	5.0	5.180147	4.0	595658.0	1.036029	Y
6	STD6 240-539537/7	10.0	9.784196	4.0	652888.0	0.97842	Y
7	STD7 240-539537/8	15.0	14.741796	4.0	672565.0	0.982786	Y
8	STD8 240-539537/9	20.0	19.528876	4.0	656421.0	0.976444	Y
9	STD9 240-539537/10	25.0	23.665078	4.0	658864.0	0.946603	Y



Calibration

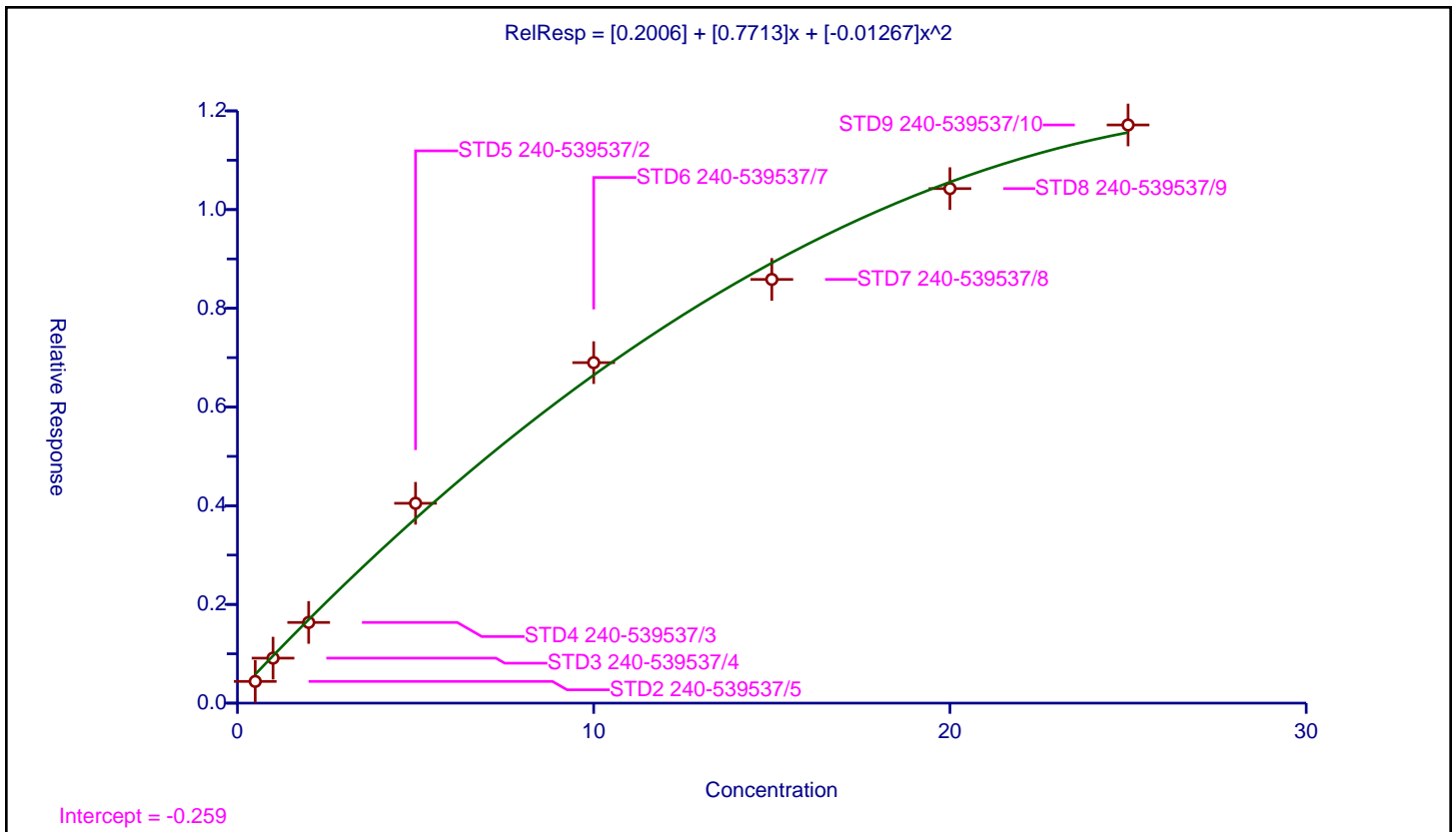
/ Carbazole

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.2006
Slope:	0.7713
Second Order:	-0.01267

Error Coefficients	
Standard Error:	1450000
Relative Standard Error:	18.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.440025	4.0	717841.0	0.88005	Y
2	STD3 240-539537/4	1.0	0.911633	4.0	735765.0	0.911633	Y
3	STD4 240-539537/3	2.0	1.634863	4.0	708199.0	0.817431	Y
4	STD5 240-539537/2	5.0	4.049183	4.0	595658.0	0.809837	Y
5	STD6 240-539537/7	10.0	6.899235	4.0	652888.0	0.689924	Y
6	STD7 240-539537/8	15.0	8.585187	4.0	672565.0	0.572346	Y
7	STD8 240-539537/9	20.0	10.425492	4.0	656421.0	0.521275	Y
8	STD9 240-539537/10	25.0	11.715201	4.0	658864.0	0.468608	Y



Calibration

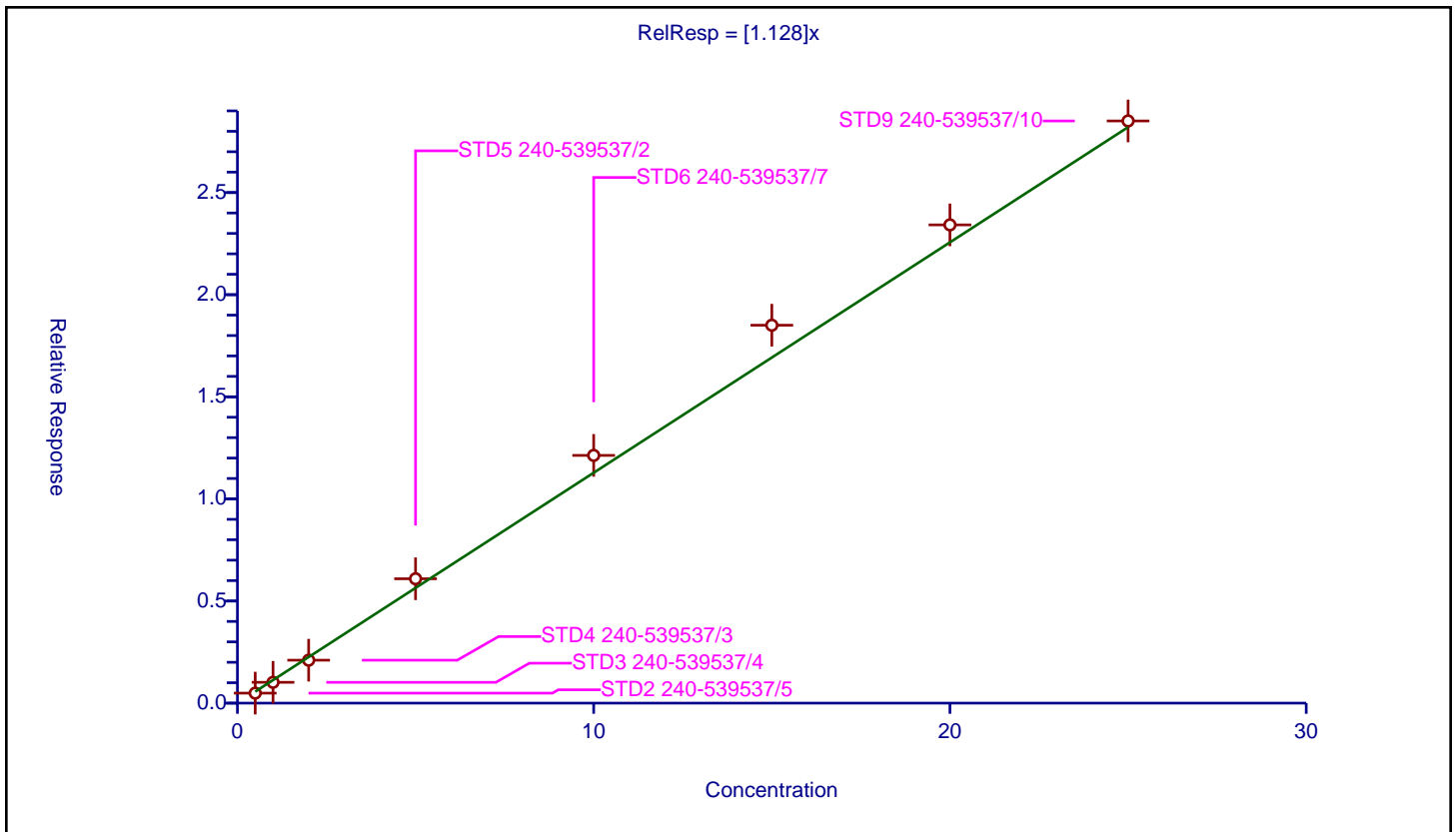
/ Di-n-butyl phthalate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.128

Error Coefficients	
Standard Error:	2710000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.489217	4.0	717841.0	0.978434	Y
2	STD3 240-539537/4	1.0	1.019532	4.0	735765.0	1.019532	Y
3	STD4 240-539537/3	2.0	2.102336	4.0	708199.0	1.051168	Y
4	STD5 240-539537/2	5.0	6.089548	4.0	595658.0	1.21791	Y
5	STD6 240-539537/7	10.0	12.130356	4.0	652888.0	1.213036	Y
6	STD7 240-539537/8	15.0	18.504751	4.0	672565.0	1.23365	Y
7	STD8 240-539537/9	20.0	23.418422	4.0	656421.0	1.170921	Y
8	STD9 240-539537/10	25.0	28.507419	4.0	658864.0	1.140297	Y



Calibration

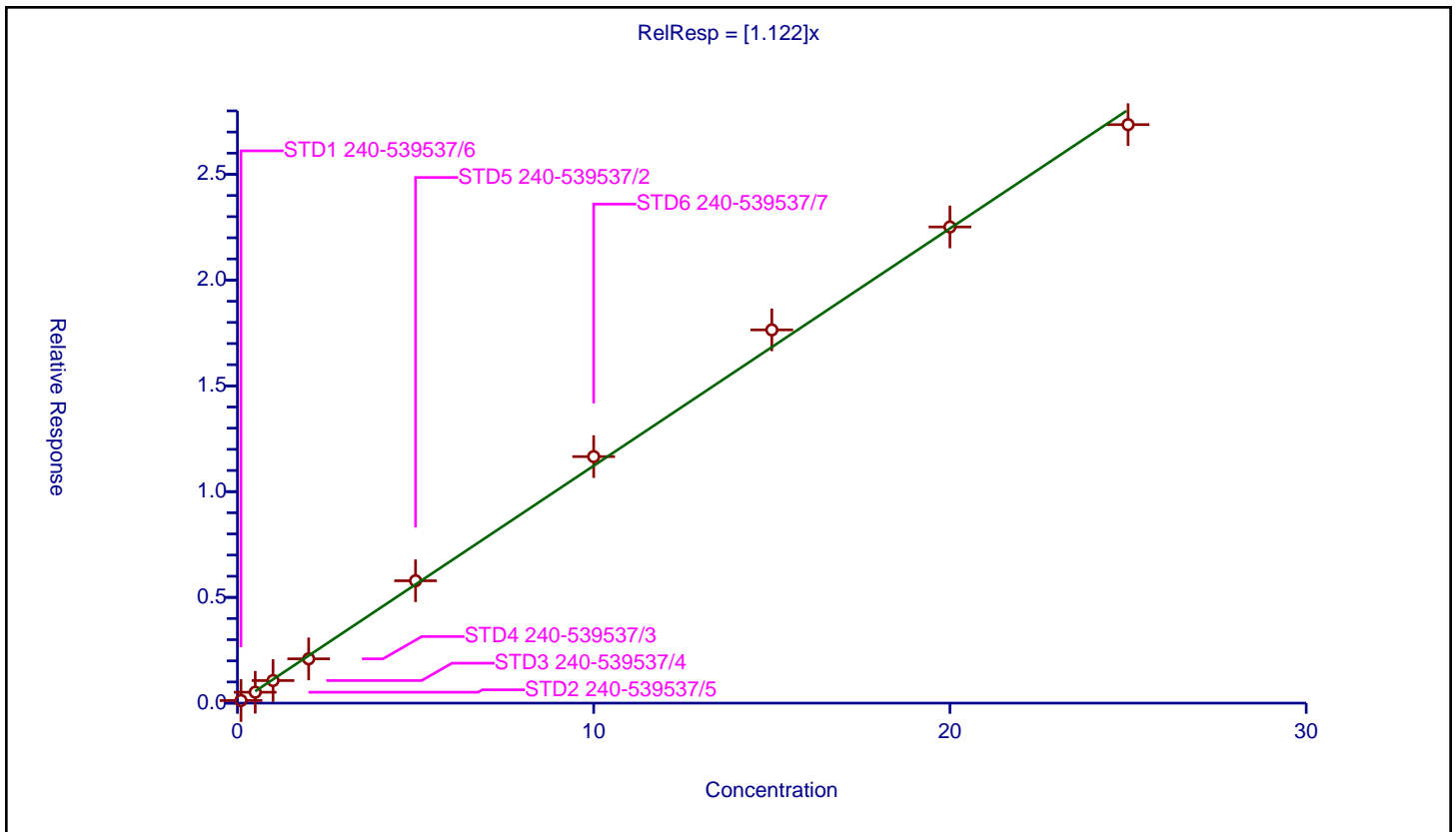
/ Fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.122

Error Coefficients	
Standard Error:	2430000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.123315	4.0	705413.0	1.23315	Y
2	STD2 240-539537/5	0.5	0.516198	4.0	717841.0	1.032396	Y
3	STD3 240-539537/4	1.0	1.066998	4.0	735765.0	1.066998	Y
4	STD4 240-539537/3	2.0	2.095044	4.0	708199.0	1.047522	Y
5	STD5 240-539537/2	5.0	5.785582	4.0	595658.0	1.157116	Y
6	STD6 240-539537/7	10.0	11.655812	4.0	652888.0	1.165581	Y
7	STD7 240-539537/8	15.0	17.646556	4.0	672565.0	1.176437	Y
8	STD8 240-539537/9	20.0	22.512327	4.0	656421.0	1.125616	Y
9	STD9 240-539537/10	25.0	27.350075	4.0	658864.0	1.094003	Y



Calibration

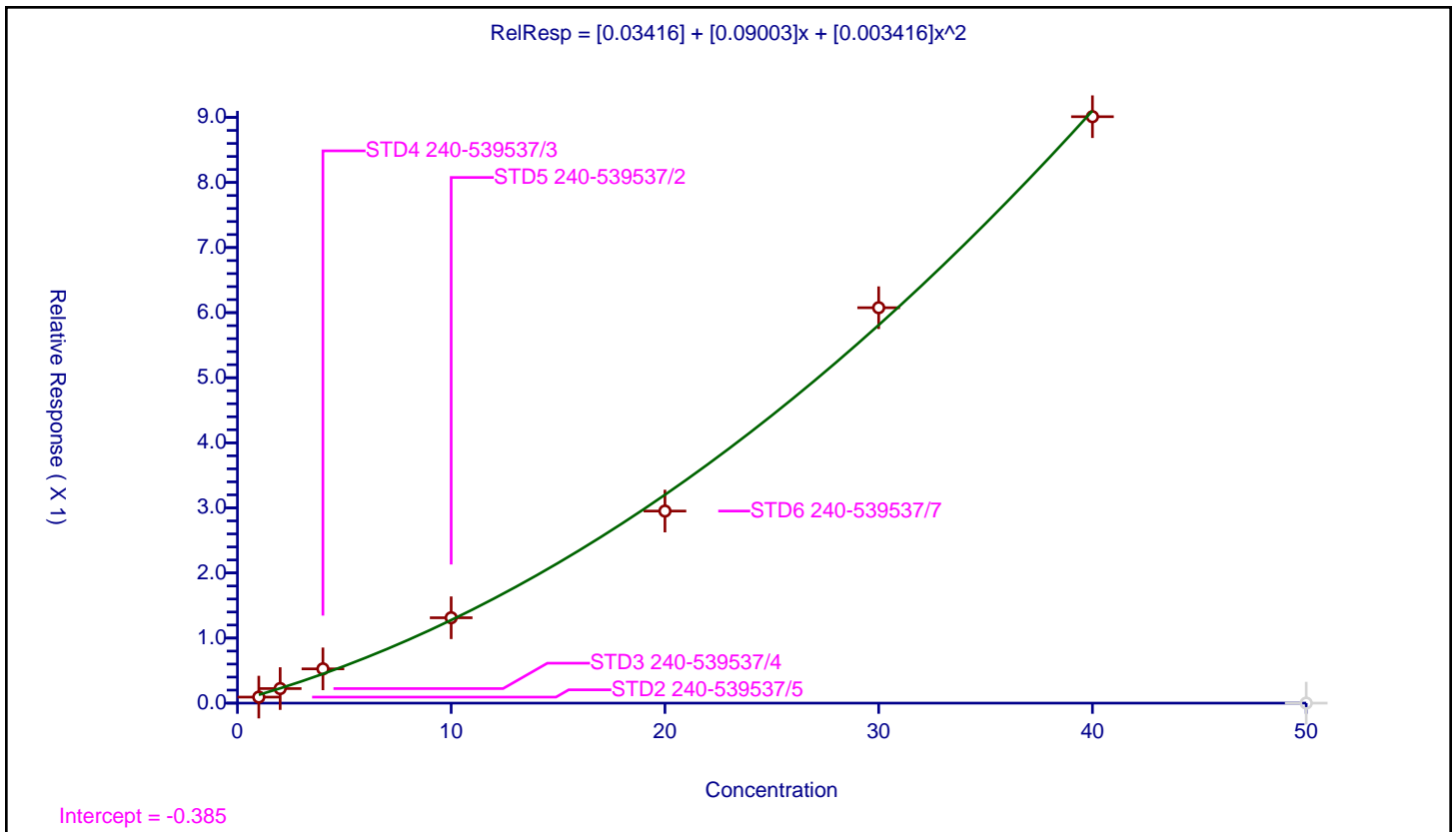
/ Benzidine

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.03416
Slope:	0.09003
Second Order:	0.003416

Error Coefficients	
Standard Error:	851000
Relative Standard Error:	20.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.09269	4.0	622978.0	0.09269	Y
2	STD3 240-539537/4	2.0	0.223821	4.0	638689.0	0.11191	Y
3	STD4 240-539537/3	4.0	0.526289	4.0	629039.0	0.131572	Y
4	STD5 240-539537/2	10.0	1.311865	4.0	551438.0	0.131186	Y
5	STD6 240-539537/7	20.0	2.951126	4.0	601525.0	0.147556	Y
6	STD7 240-539537/8	30.0	6.075535	4.0	626809.0	0.202518	Y
7	STD8 240-539537/9	40.0	9.010722	4.0	587295.0	0.225268	Y
8	STD9 240-539537/10	50.0	0.0	4.0	585791.0	0.0	N



Calibration

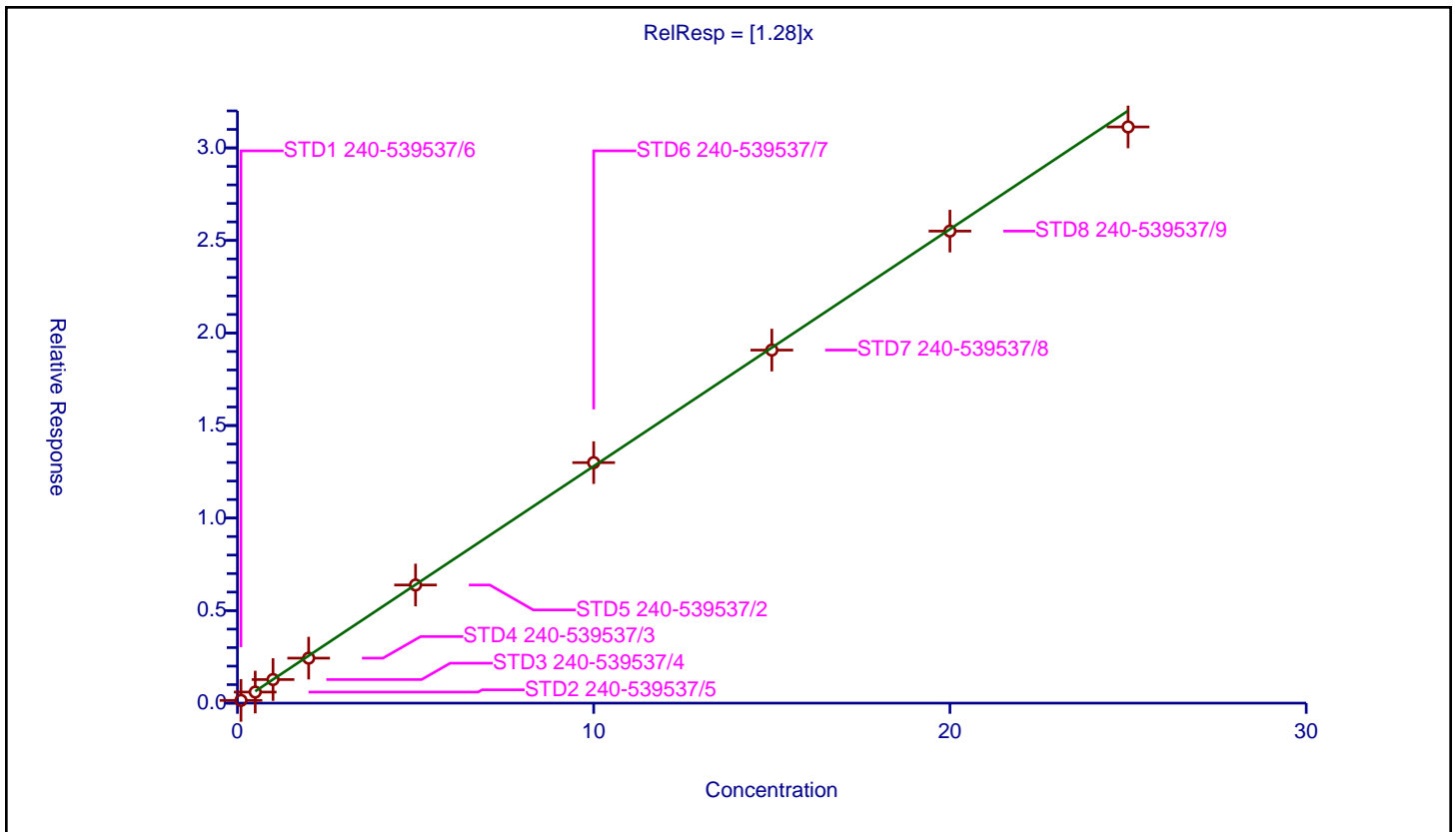
/ Pyrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.28

Error Coefficients	
Standard Error:	2460000
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.146922	4.0	607859.0	1.469222	Y
2	STD2 240-539537/5	0.5	0.597568	4.0	622978.0	1.195137	Y
3	STD3 240-539537/4	1.0	1.274667	4.0	638689.0	1.274667	Y
4	STD4 240-539537/3	2.0	2.430647	4.0	629039.0	1.215324	Y
5	STD5 240-539537/2	5.0	6.383057	4.0	551438.0	1.276611	Y
6	STD6 240-539537/7	10.0	12.995496	4.0	601525.0	1.29955	Y
7	STD7 240-539537/8	15.0	19.075725	4.0	626809.0	1.271715	Y
8	STD8 240-539537/9	20.0	25.50396	4.0	587295.0	1.275198	Y
9	STD9 240-539537/10	25.0	31.132298	4.0	585791.0	1.245292	Y



Calibration

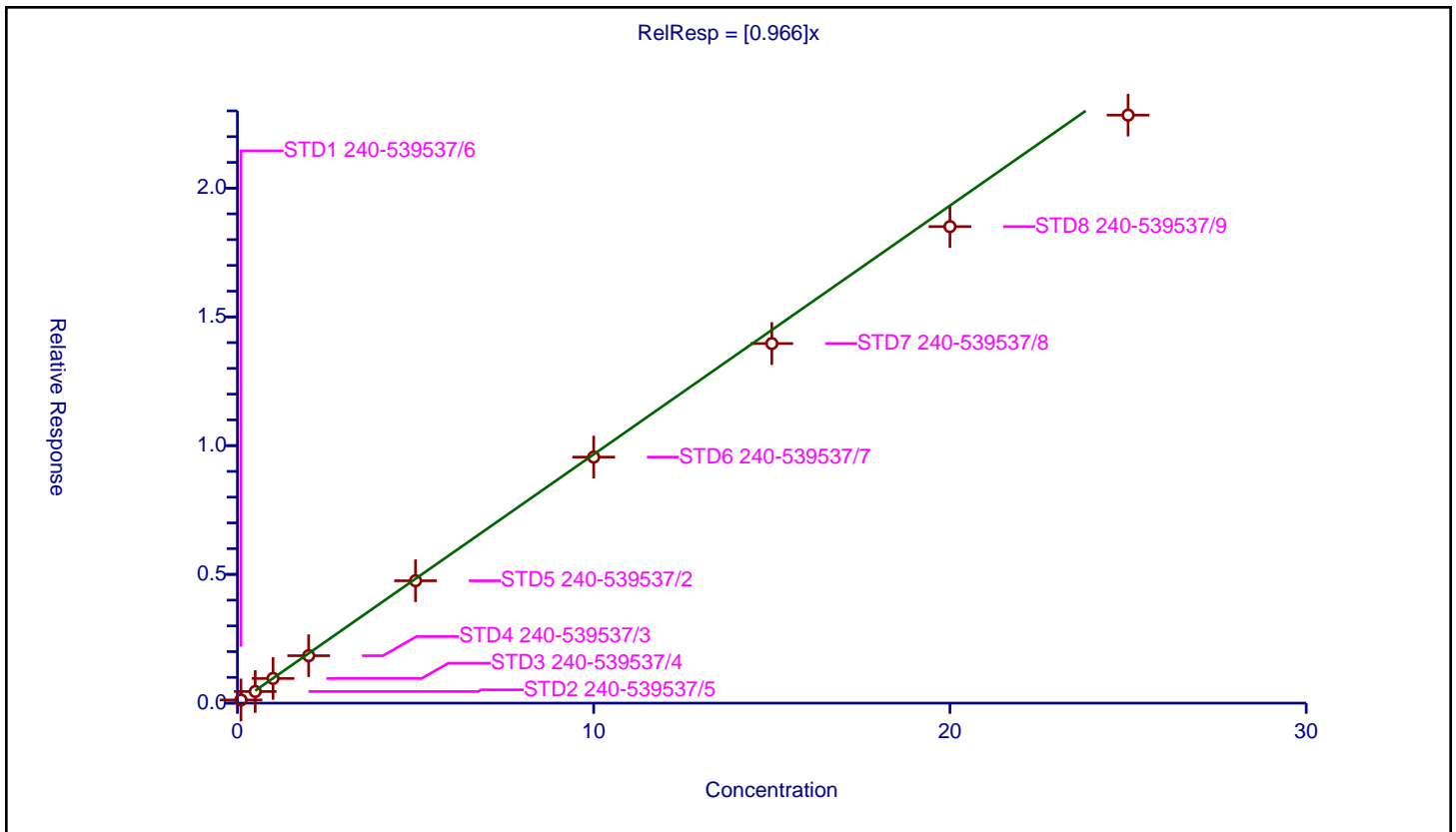
/ Terphenyl-d14

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.966

Error Coefficients	
Standard Error:	1800000
Relative Standard Error:	10.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.123687	4.0	607859.0	1.236866	Y
2	STD2 240-539537/5	0.5	0.451194	4.0	622978.0	0.902388	Y
3	STD3 240-539537/4	1.0	0.958451	4.0	638689.0	0.958451	Y
4	STD4 240-539537/3	2.0	1.841361	4.0	629039.0	0.920681	Y
5	STD5 240-539537/2	5.0	4.752505	4.0	551438.0	0.950501	Y
6	STD6 240-539537/7	10.0	9.554502	4.0	601525.0	0.95545	Y
7	STD7 240-539537/8	15.0	13.964873	4.0	626809.0	0.930992	Y
8	STD8 240-539537/9	20.0	18.505657	4.0	587295.0	0.925283	Y
9	STD9 240-539537/10	25.0	22.835537	4.0	585791.0	0.913421	Y



Calibration

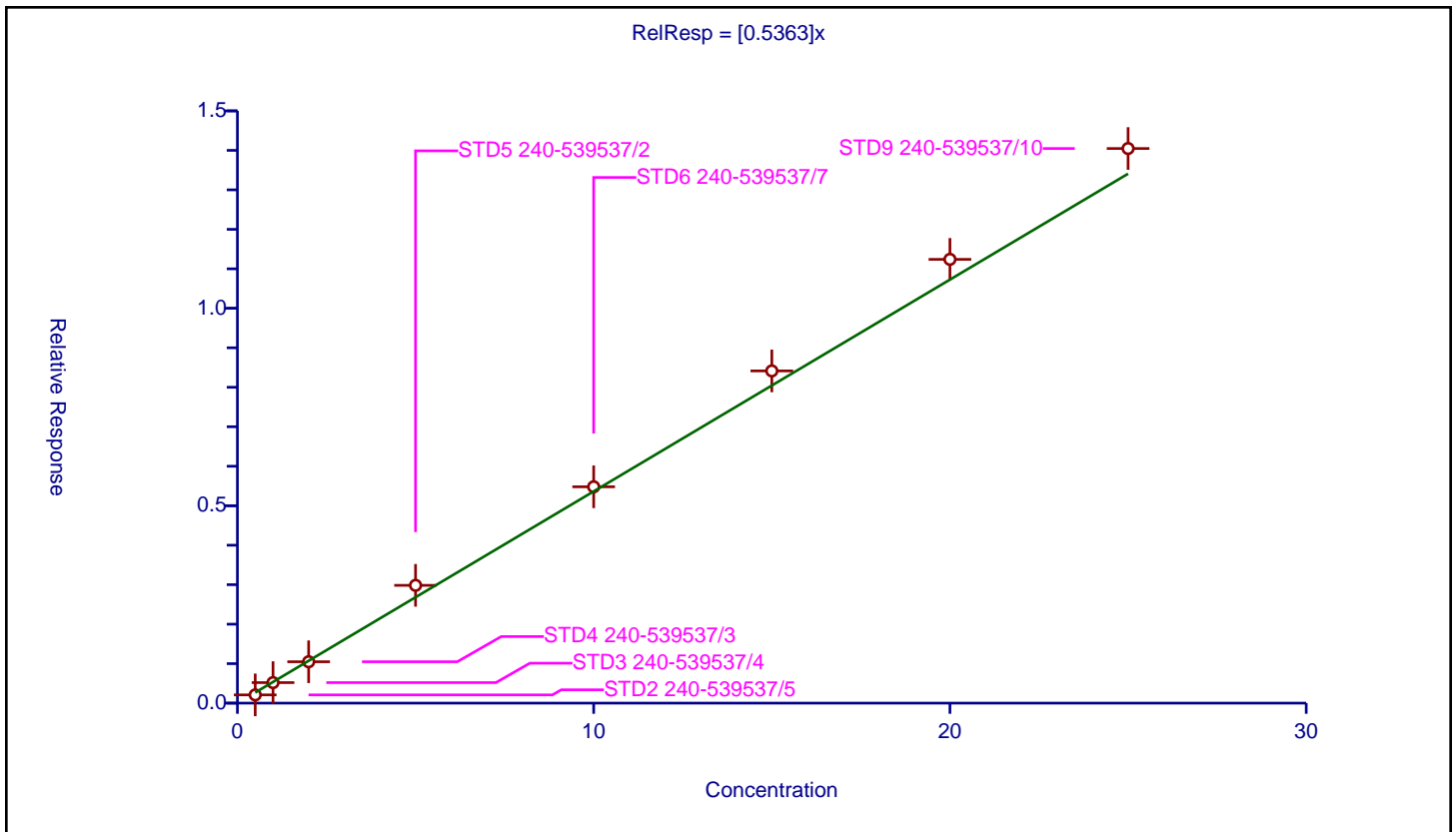
/ Butyl benzyl phthalate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5363

Error Coefficients	
Standard Error:	1170000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.208829	4.0	622978.0	0.417658	Y
2	STD3 240-539537/4	1.0	0.519671	4.0	638689.0	0.519671	Y
3	STD4 240-539537/3	2.0	1.047681	4.0	629039.0	0.52384	Y
4	STD5 240-539537/2	5.0	2.983218	4.0	551438.0	0.596644	Y
5	STD6 240-539537/7	10.0	5.478914	4.0	601525.0	0.547891	Y
6	STD7 240-539537/8	15.0	8.414161	4.0	626809.0	0.560944	Y
7	STD8 240-539537/9	20.0	11.239129	4.0	587295.0	0.561956	Y
8	STD9 240-539537/10	25.0	14.046682	4.0	585791.0	0.561867	Y



Calibration

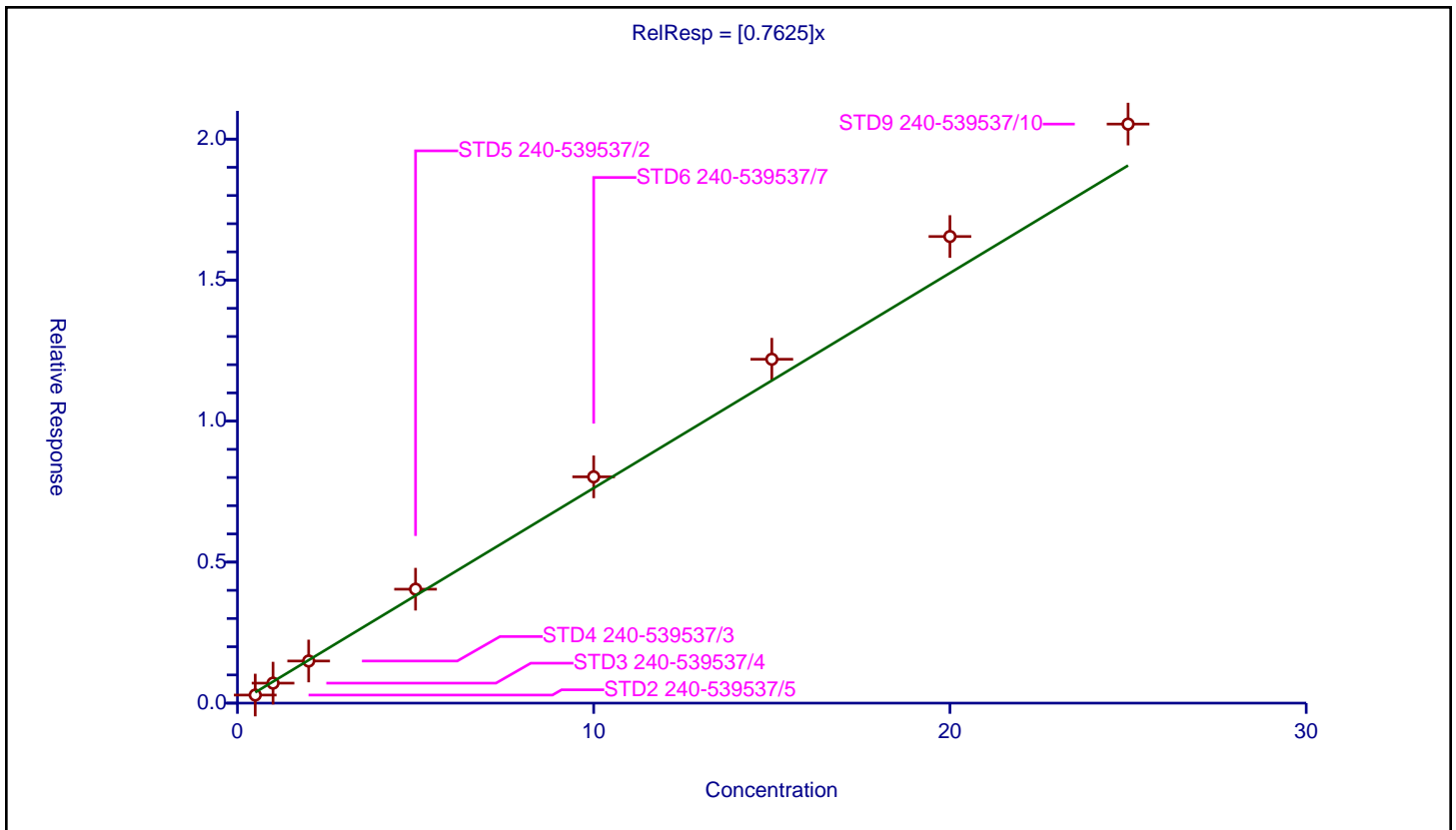
/ Bis(2-ethylhexyl) phthalate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7625

Error Coefficients	
Standard Error:	1710000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.286553	4.0	622978.0	0.573105	Y
2	STD3 240-539537/4	1.0	0.708908	4.0	638689.0	0.708908	Y
3	STD4 240-539537/3	2.0	1.493141	4.0	629039.0	0.746571	Y
4	STD5 240-539537/2	5.0	4.039439	4.0	551438.0	0.807888	Y
5	STD6 240-539537/7	10.0	8.023846	4.0	601525.0	0.802385	Y
6	STD7 240-539537/8	15.0	12.193705	4.0	626809.0	0.812914	Y
7	STD8 240-539537/9	20.0	16.545511	4.0	587295.0	0.827276	Y
8	STD9 240-539537/10	25.0	20.532149	4.0	585791.0	0.821286	Y



Calibration

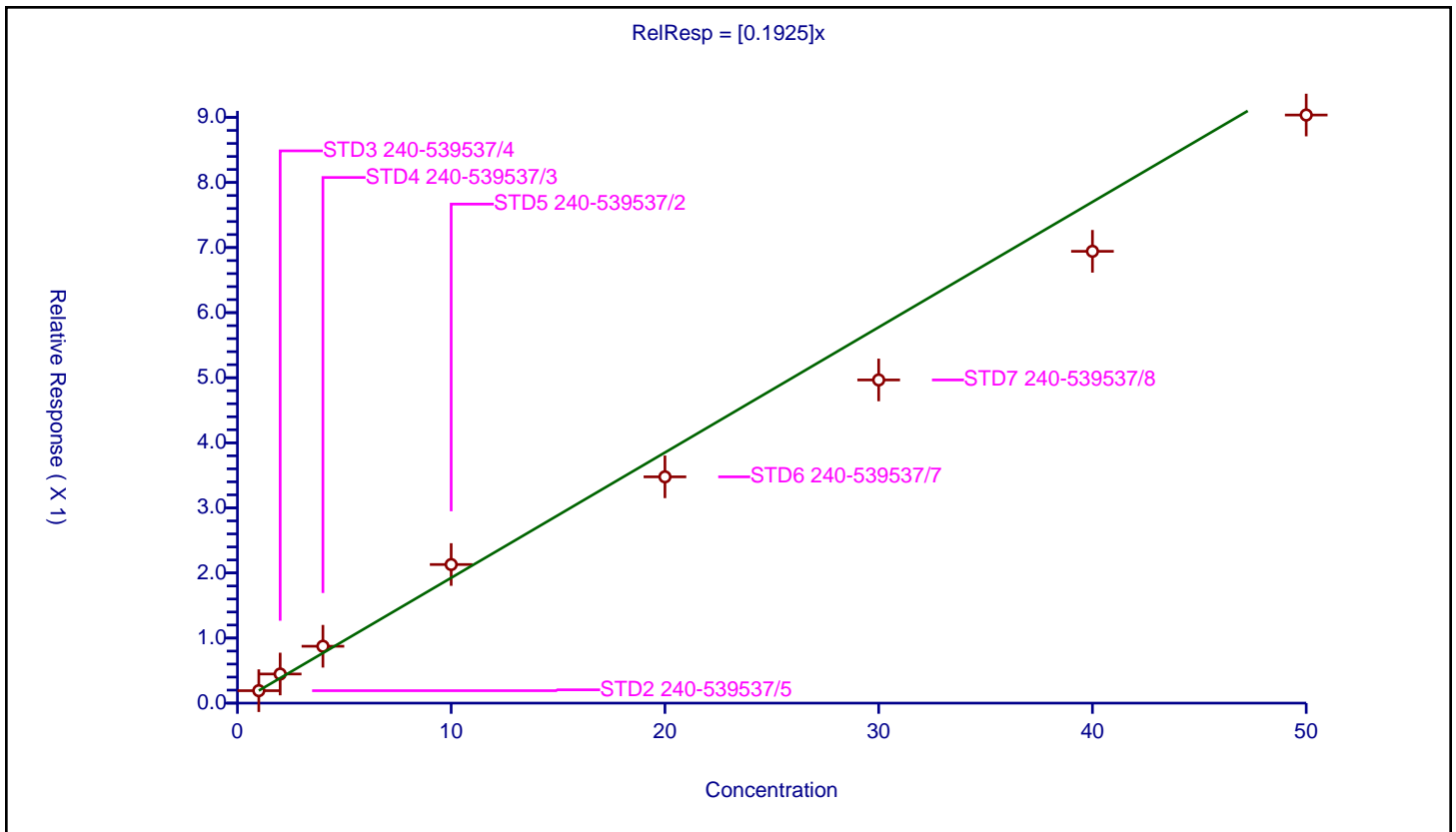
/ 3,3'-Dichlorobenzidine

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1925

Error Coefficients	
Standard Error:	735000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	1.0	0.191429	4.0	622978.0	0.191429	Y
2	STD3 240-539537/4	2.0	0.447423	4.0	638689.0	0.223711	Y
3	STD4 240-539537/3	4.0	0.873835	4.0	629039.0	0.218459	Y
4	STD5 240-539537/2	10.0	2.129668	4.0	551438.0	0.212967	Y
5	STD6 240-539537/7	20.0	3.476936	4.0	601525.0	0.173847	Y
6	STD7 240-539537/8	30.0	4.965844	4.0	626809.0	0.165528	Y
7	STD8 240-539537/9	40.0	6.942331	4.0	587295.0	0.173558	Y
8	STD9 240-539537/10	50.0	9.036725	4.0	585791.0	0.180734	Y



Calibration

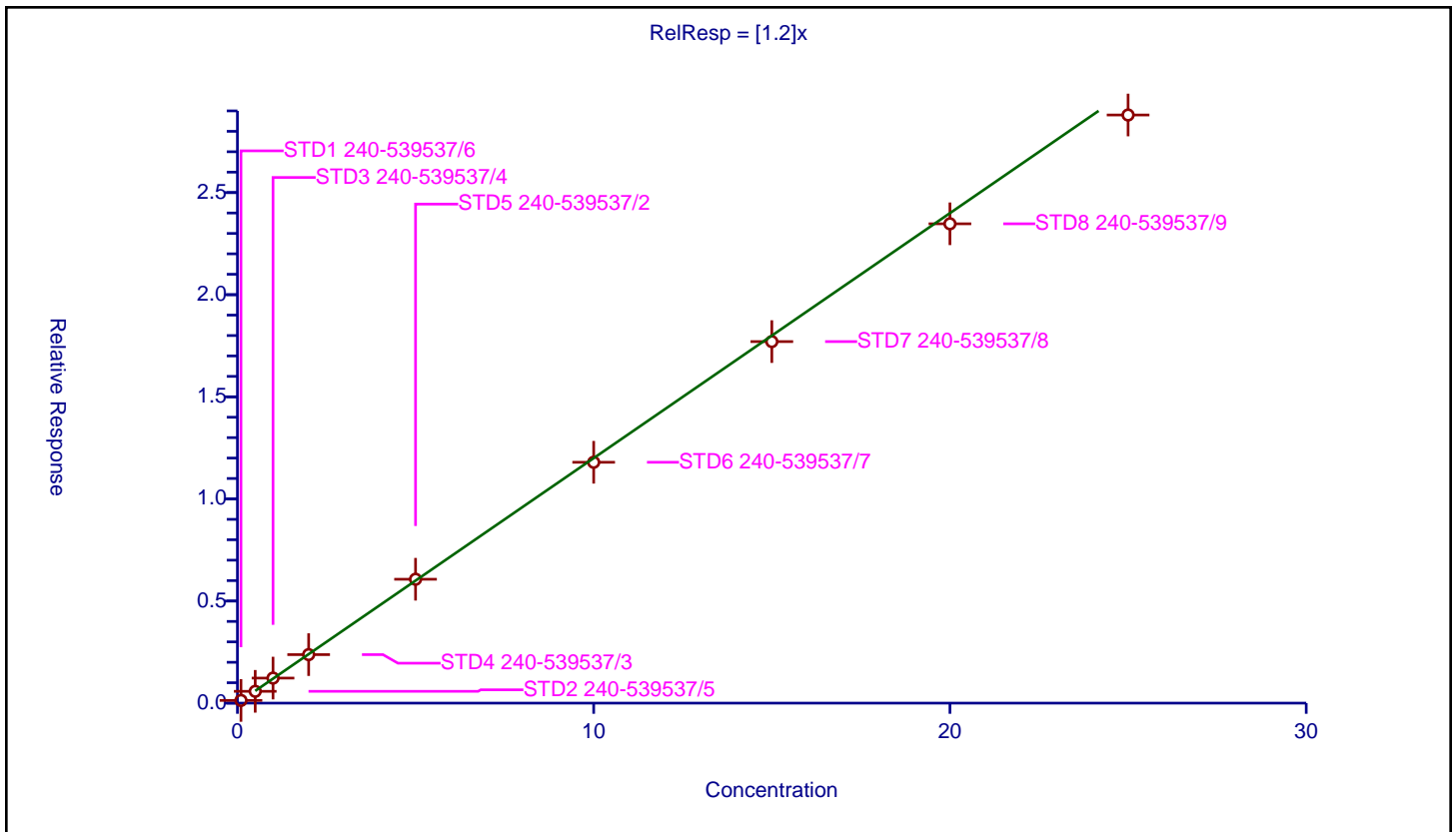
/ Benzo[a]anthracene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.2

Error Coefficients	
Standard Error:	2270000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.132722	4.0	607859.0	1.327216	Y
2	STD2 240-539537/5	0.5	0.578569	4.0	622978.0	1.157139	Y
3	STD3 240-539537/4	1.0	1.226487	4.0	638689.0	1.226487	Y
4	STD4 240-539537/3	2.0	2.376056	4.0	629039.0	1.188028	Y
5	STD5 240-539537/2	5.0	6.065741	4.0	551438.0	1.213148	Y
6	STD6 240-539537/7	10.0	11.794117	4.0	601525.0	1.179412	Y
7	STD7 240-539537/8	15.0	17.70272	4.0	626809.0	1.180181	Y
8	STD8 240-539537/9	20.0	23.471012	4.0	587295.0	1.173551	Y
9	STD9 240-539537/10	25.0	28.798524	4.0	585791.0	1.151941	Y



Calibration

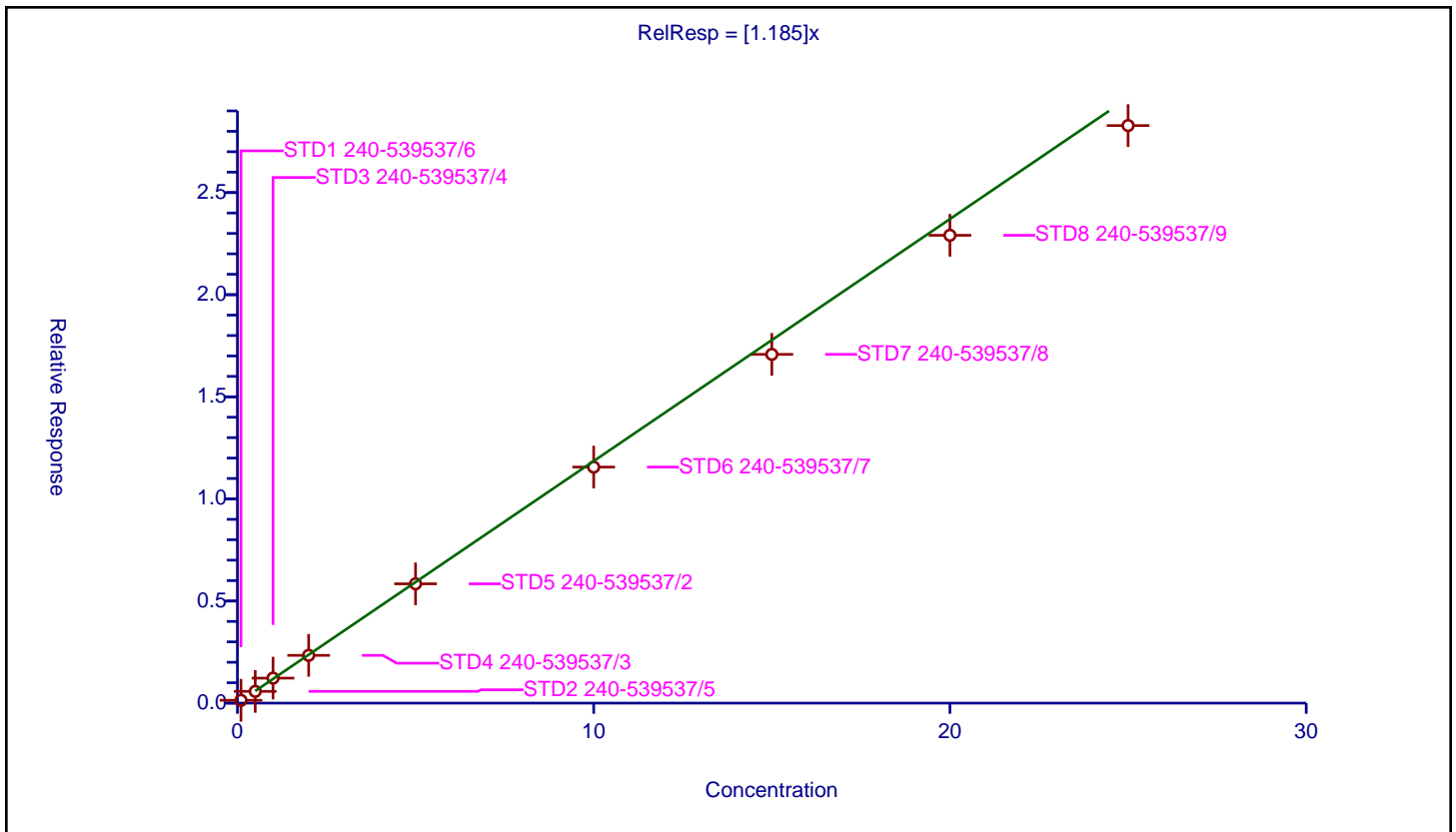
/ Chrysene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.185

Error Coefficients	
Standard Error:	2220000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.138407	4.0	607859.0	1.384071	Y
2	STD2 240-539537/5	0.5	0.575134	4.0	622978.0	1.150269	Y
3	STD3 240-539537/4	1.0	1.223769	4.0	638689.0	1.223769	Y
4	STD4 240-539537/3	2.0	2.338818	4.0	629039.0	1.169409	Y
5	STD5 240-539537/2	5.0	5.842078	4.0	551438.0	1.168416	Y
6	STD6 240-539537/7	10.0	11.557924	4.0	601525.0	1.155792	Y
7	STD7 240-539537/8	15.0	17.077553	4.0	626809.0	1.138504	Y
8	STD8 240-539537/9	20.0	22.908188	4.0	587295.0	1.145409	Y
9	STD9 240-539537/10	25.0	28.281602	4.0	585791.0	1.131264	Y



Calibration

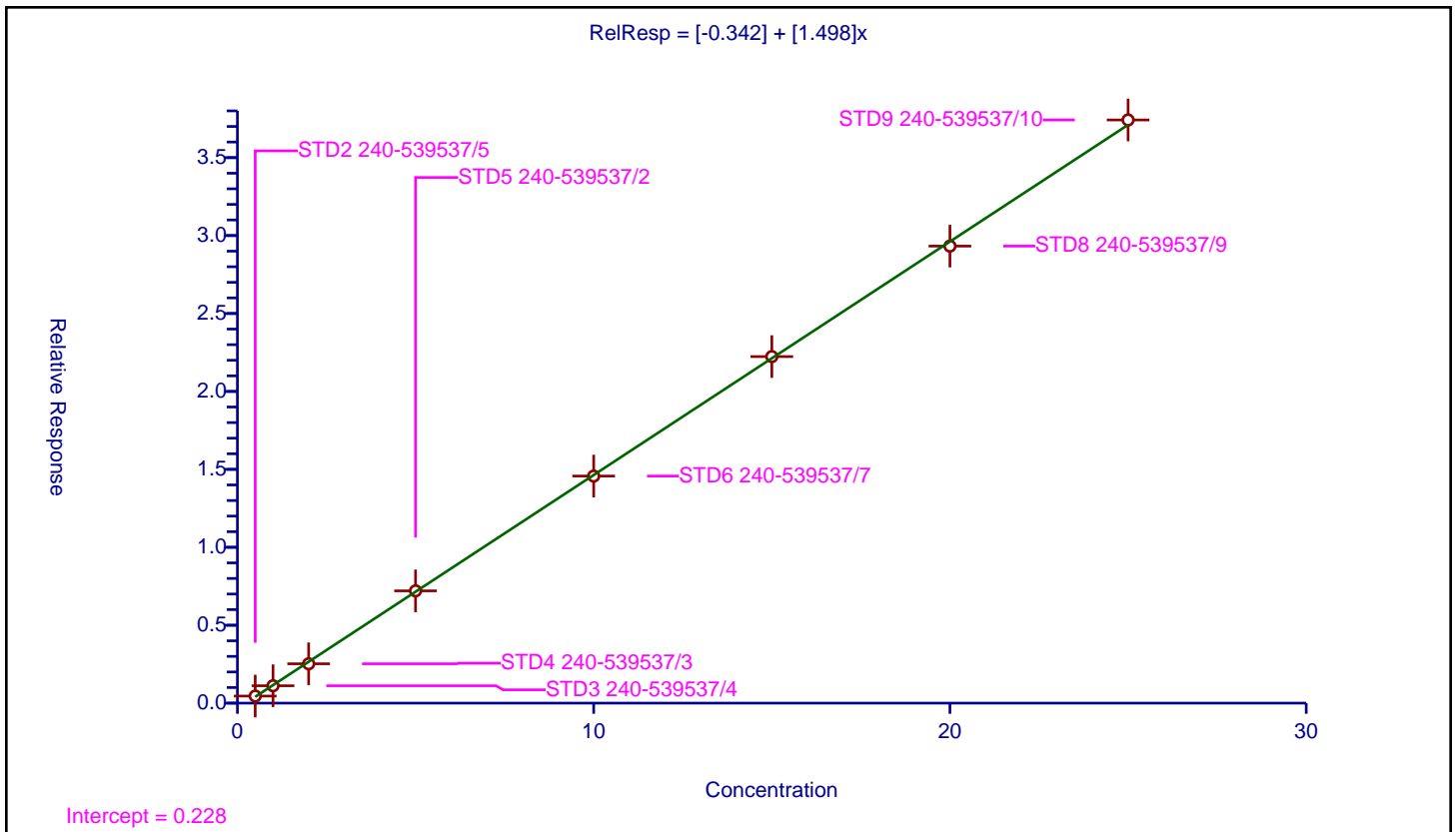
/ Di-n-octyl phthalate

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.342
Slope:	1.498

Error Coefficients	
Standard Error:	3070000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD2 240-539537/5	0.5	0.454312	4.0	543450.0	0.908625	Y
2	STD3 240-539537/4	1.0	1.115733	4.0	579379.0	1.115733	Y
3	STD4 240-539537/3	2.0	2.524445	4.0	572563.0	1.262223	Y
4	STD5 240-539537/2	5.0	7.204461	4.0	514092.0	1.440892	Y
5	STD6 240-539537/7	10.0	14.568385	4.0	549181.0	1.456838	Y
6	STD7 240-539537/8	15.0	22.23501	4.0	565585.0	1.482334	Y
7	STD8 240-539537/9	20.0	29.324619	4.0	549616.0	1.466231	Y
8	STD9 240-539537/10	25.0	37.417117	4.0	540469.0	1.496685	Y



Calibration

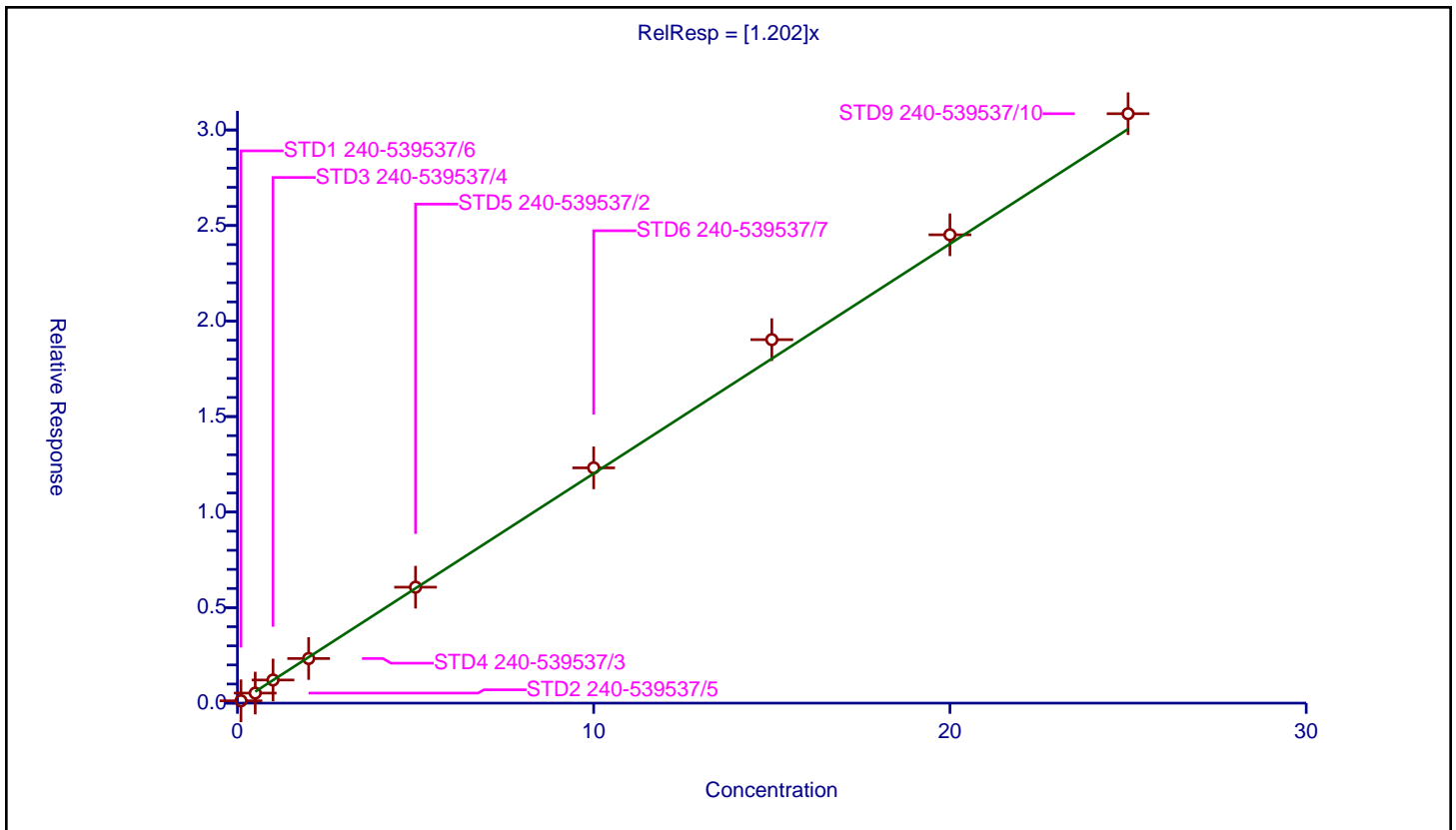
/ Benzo[b]fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.202

Error Coefficients	
Standard Error:	2220000
Relative Standard Error:	5.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.121472	4.0	530724.0	1.214718	Y
2	STD2 240-539537/5	0.5	0.525575	4.0	543450.0	1.051151	Y
3	STD3 240-539537/4	1.0	1.211048	4.0	579379.0	1.211048	Y
4	STD4 240-539537/3	2.0	2.334611	4.0	572563.0	1.167306	Y
5	STD5 240-539537/2	5.0	6.069482	4.0	514092.0	1.213896	Y
6	STD6 240-539537/7	10.0	12.315051	4.0	549181.0	1.231505	Y
7	STD7 240-539537/8	15.0	19.026268	4.0	565585.0	1.268418	Y
8	STD8 240-539537/9	20.0	24.514046	4.0	549616.0	1.225702	Y
9	STD9 240-539537/10	25.0	30.85156	4.0	540469.0	1.234062	Y



Calibration

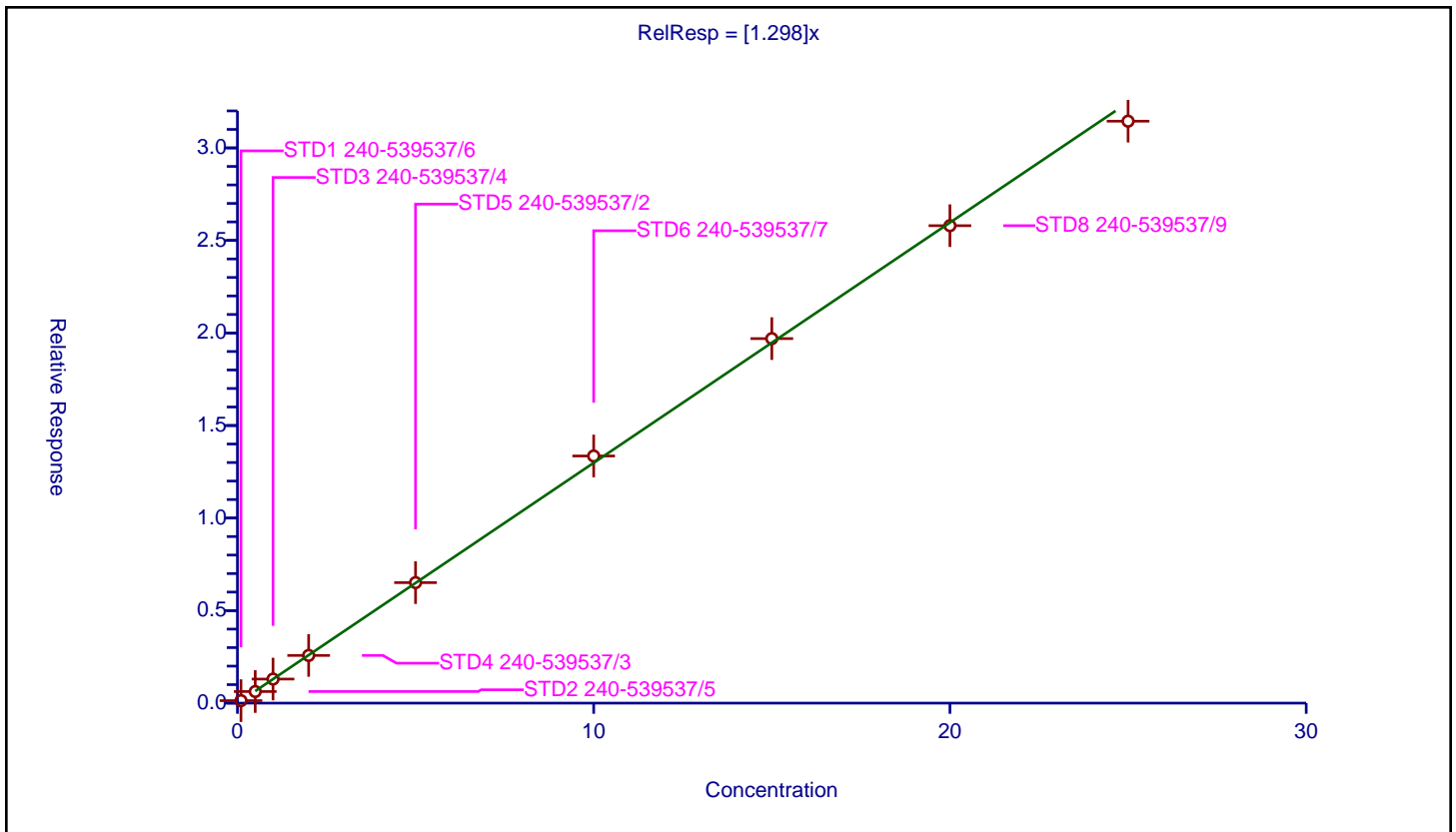
/ Benzo[k]fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.298

Error Coefficients	
Standard Error:	2310000
Relative Standard Error:	2.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.134435	4.0	530724.0	1.344352	Y
2	STD2 240-539537/5	0.5	0.626207	4.0	543450.0	1.252413	Y
3	STD3 240-539537/4	1.0	1.300717	4.0	579379.0	1.300717	Y
4	STD4 240-539537/3	2.0	2.577149	4.0	572563.0	1.288574	Y
5	STD5 240-539537/2	5.0	6.511465	4.0	514092.0	1.302293	Y
6	STD6 240-539537/7	10.0	13.353302	4.0	549181.0	1.33533	Y
7	STD7 240-539537/8	15.0	19.695289	4.0	565585.0	1.313019	Y
8	STD8 240-539537/9	20.0	25.797488	4.0	549616.0	1.289874	Y
9	STD9 240-539537/10	25.0	31.444016	4.0	540469.0	1.257761	Y



Calibration

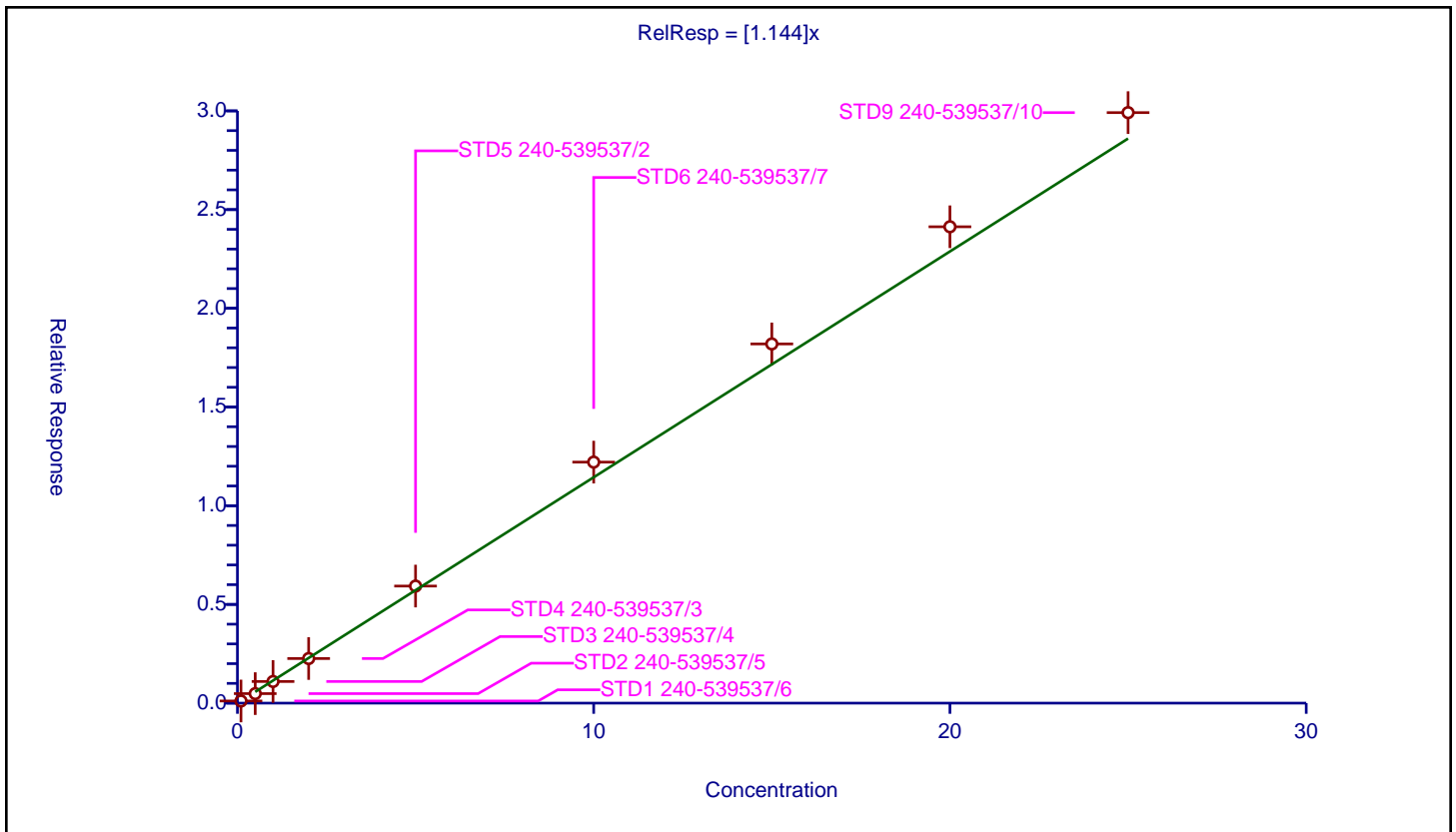
/ Benzo[a]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.144

Error Coefficients	
Standard Error:	2160000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.108267	4.0	530724.0	1.082672	Y
2	STD2 240-539537/5	0.5	0.482098	4.0	543450.0	0.964195	Y
3	STD3 240-539537/4	1.0	1.09616	4.0	579379.0	1.09616	Y
4	STD4 240-539537/3	2.0	2.258798	4.0	572563.0	1.129399	Y
5	STD5 240-539537/2	5.0	5.929904	4.0	514092.0	1.185981	Y
6	STD6 240-539537/7	10.0	12.209541	4.0	549181.0	1.220954	Y
7	STD7 240-539537/8	15.0	18.195603	4.0	565585.0	1.21304	Y
8	STD8 240-539537/9	20.0	24.130003	4.0	549616.0	1.2065	Y
9	STD9 240-539537/10	25.0	29.912324	4.0	540469.0	1.196493	Y



Calibration

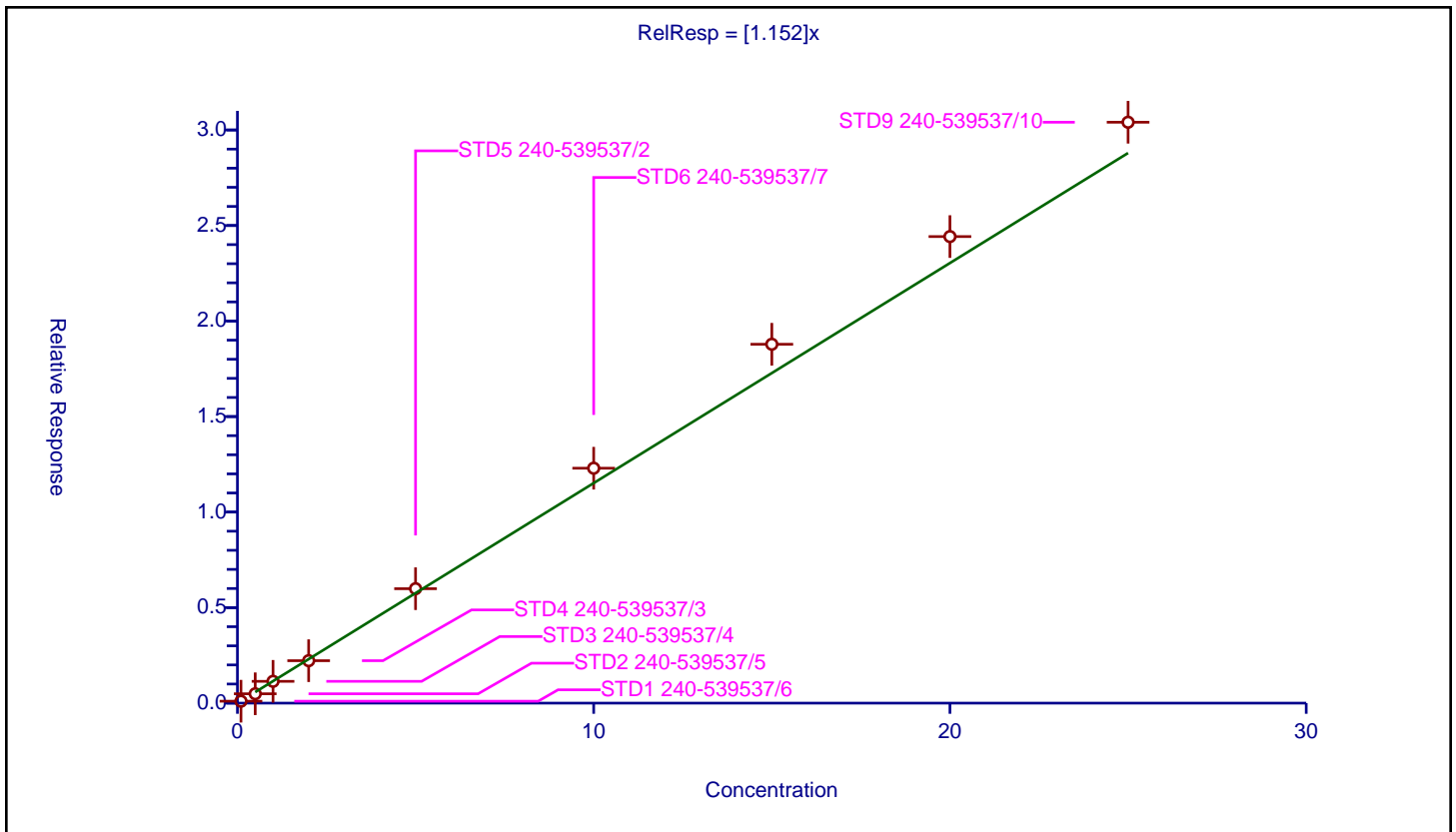
/ Indeno[1,2,3-cd]pyrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.152

Error Coefficients	
Standard Error:	2200000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.101567	4.0	530724.0	1.015669	Y
2	STD2 240-539537/5	0.5	0.49029	4.0	543450.0	0.98058	Y
3	STD3 240-539537/4	1.0	1.141505	4.0	579379.0	1.141505	Y
4	STD4 240-539537/3	2.0	2.22189	4.0	572563.0	1.110945	Y
5	STD5 240-539537/2	5.0	5.990297	4.0	514092.0	1.198059	Y
6	STD6 240-539537/7	10.0	12.29709	4.0	549181.0	1.229709	Y
7	STD7 240-539537/8	15.0	18.784996	4.0	565585.0	1.252333	Y
8	STD8 240-539537/9	20.0	24.421043	4.0	549616.0	1.221052	Y
9	STD9 240-539537/10	25.0	30.405925	4.0	540469.0	1.216237	Y



Calibration

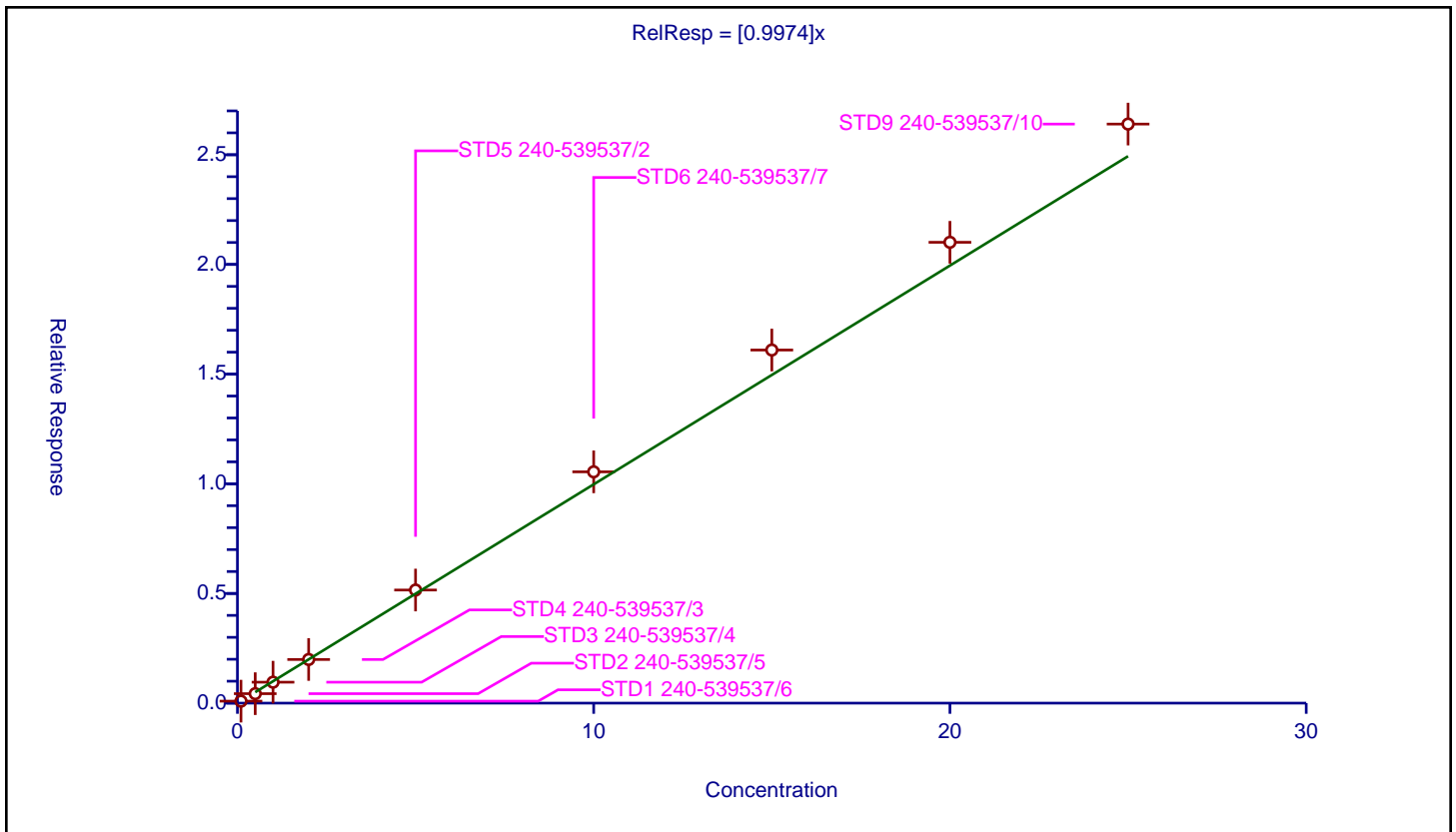
/ Dibenz(a,h)anthracene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9974

Error Coefficients	
Standard Error:	1900000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.089915	4.0	530724.0	0.899149	Y
2	STD2 240-539537/5	0.5	0.431377	4.0	543450.0	0.862755	Y
3	STD3 240-539537/4	1.0	0.954415	4.0	579379.0	0.954415	Y
4	STD4 240-539537/3	2.0	1.989867	4.0	572563.0	0.994933	Y
5	STD5 240-539537/2	5.0	5.156065	4.0	514092.0	1.031213	Y
6	STD6 240-539537/7	10.0	10.544298	4.0	549181.0	1.05443	Y
7	STD7 240-539537/8	15.0	16.097973	4.0	565585.0	1.073198	Y
8	STD8 240-539537/9	20.0	21.00909	4.0	549616.0	1.050454	Y
9	STD9 240-539537/10	25.0	26.399287	4.0	540469.0	1.055971	Y



Calibration

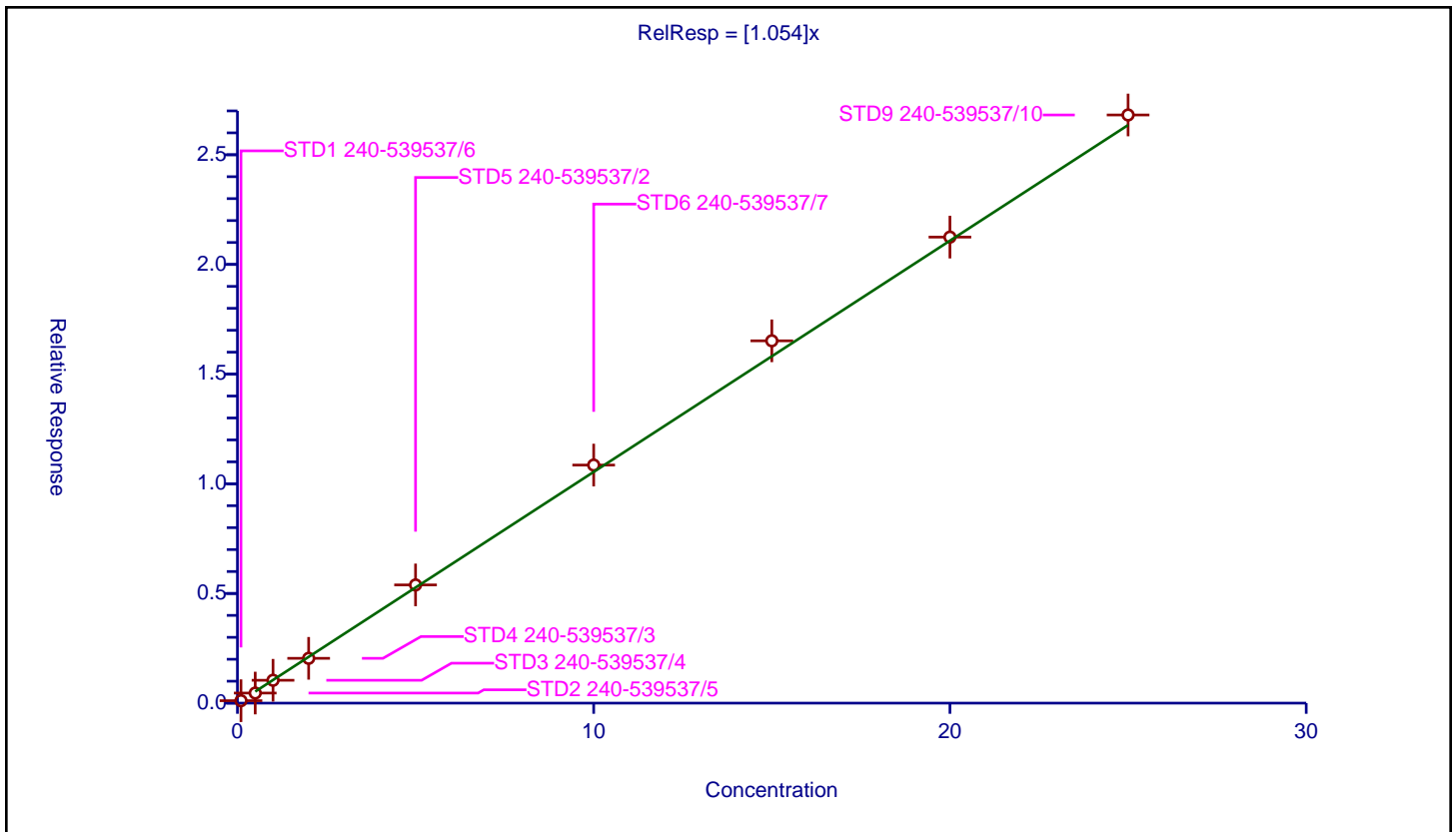
/ Benzo[g,h,i]perylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.054

Error Coefficients	
Standard Error:	1930000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 240-539537/6	0.1	0.110566	4.0	530724.0	1.105659	Y
2	STD2 240-539537/5	0.5	0.459406	4.0	543450.0	0.918811	Y
3	STD3 240-539537/4	1.0	1.042212	4.0	579379.0	1.042212	Y
4	STD4 240-539537/3	2.0	2.042584	4.0	572563.0	1.021292	Y
5	STD5 240-539537/2	5.0	5.388701	4.0	514092.0	1.07774	Y
6	STD6 240-539537/7	10.0	10.853354	4.0	549181.0	1.085335	Y
7	STD7 240-539537/8	15.0	16.517956	4.0	565585.0	1.101197	Y
8	STD8 240-539537/9	20.0	21.245917	4.0	549616.0	1.062296	Y
9	STD9 240-539537/10	25.0	26.814148	4.0	540469.0	1.072566	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID (1): STD6 240-539537/7 ICIS Instrument ID (1): A4AG3

GC Column (1): RXI-5SILMS/II ID: 0.25 (mm) Date Analyzed (1): 08/19/2022 13:00

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.36	22.20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819007.D
Injection Date: 19-Aug-2022 13:00:16 Instrument ID: A4AG3
Lims ID: std6 lst1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

185 Benzo[b]fluoranthene - 186 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

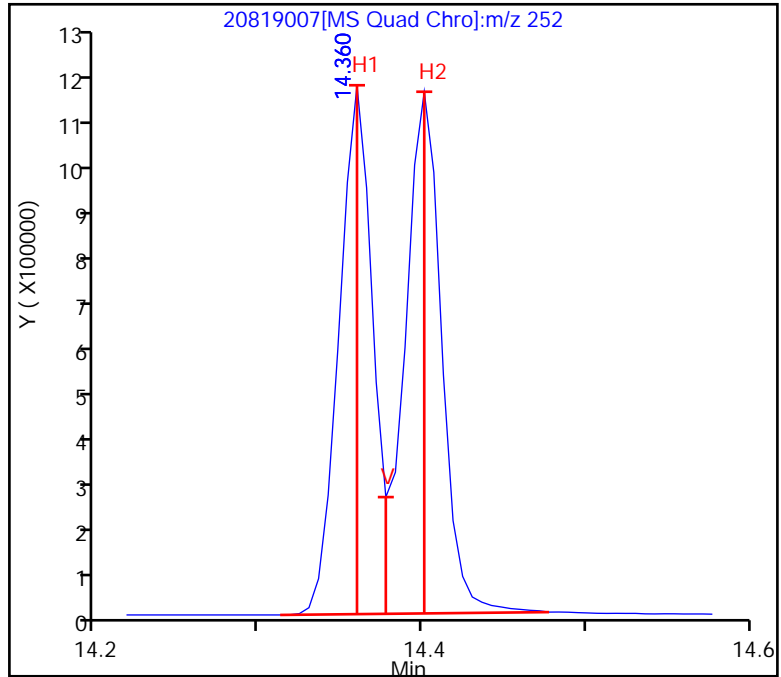
V (Valley Height) = 257699

H1(185 Benzo[b]fluoranthene) = 1167618

H2(186 Benzo[k]fluoranthene) = 1151715

Version D: $\%R = 22.2 \leq 50.0$

Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID (1): CCV 240-541870/2 CCVIS Instrument ID (1): A4AG3

GC Column (1): RXI-5SILMS/II ID: 0.25 (mm) Date Analyzed (1): 09/08/2022 13:06

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.01	24.20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908002.D
Injection Date: 08-Sep-2022 13:06:20 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

185 Benzo[b]fluoranthene - 186 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

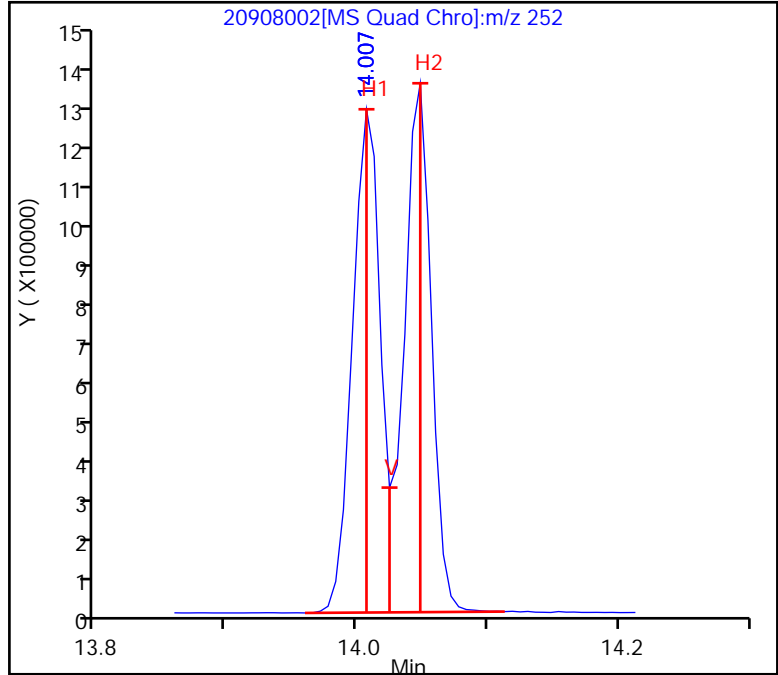
V (Valley Height) = 304535

H1(185 Benzo[b]fluoranthene) = 1228305

H2(186 Benzo[k]fluoranthene) = 1290912

Version D: $\%R = 24.2 \leq 50.0$

Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID (1): CCV 240-542054/2 CCVIS Instrument ID (1): A4AG3

GC Column (1): RXI-5SILMS/II ID: 0.25 (mm) Date Analyzed (1): 09/09/2022 11:56

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	13.91	23.80

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909002.D

Injection Date: 09-Sep-2022 11:56:37

Instrument ID: A4AG3

Lims ID: ccv Ist1

Client ID:

Operator ID:

ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

185 Benzo[b]fluoranthene - 186 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

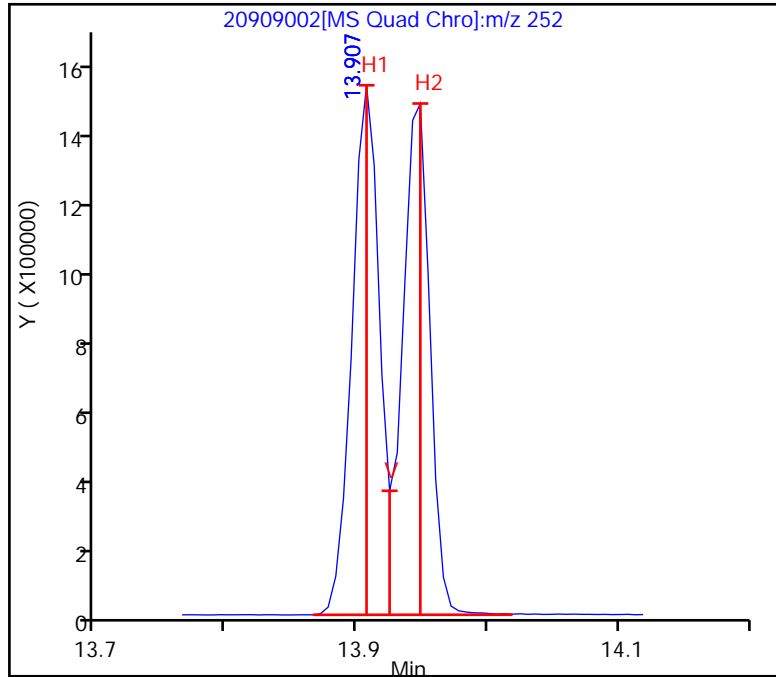
V (Valley Height) = 340727

H1(185 Benzo[b]fluoranthene) = 1455192

H2(186 Benzo[k]fluoranthene) = 1404939

Version D: $\%R = 23.8 \leq 50.0$

Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539537/11 Calibration Date: 08/19/2022 14:32
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20819011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5313	0.5725		10.8	10.0	7.8	30.0
N-Nitrosodimethylamine	Ave	0.7047	0.7652		10.9	10.0	8.6	30.0
Pyridine	Ave	1.217	1.294		21.3	20.0	6.3	30.0
Benzaldehyde	Ave	1.075	1.002	0.0100	18.6	20.0	-6.8	30.0
Phenol	Ave	1.611	1.765	0.8000	11.0	10.0	9.5	30.0
Aniline	Ave	1.906	2.095		11.0	10.0	9.9	30.0
Bis(2-chloroethyl)ether	Ave	1.304	1.384	0.7000	10.6	10.0	6.1	30.0
2-Chlorophenol	Ave	1.297	1.392	0.8000	10.7	10.0	7.4	30.0
n-Decane	Ave	1.263	1.315		10.4	10.0	4.2	30.0
1,3-Dichlorobenzene	Ave	1.444	1.526		10.6	10.0	5.7	30.0
1,4-Dichlorobenzene	Ave	1.446	1.535		10.6	10.0	6.1	30.0
Benzyl alcohol	Ave	0.8408	0.9724		11.6	10.0	15.7	30.0
1,2-Dichlorobenzene	Ave	1.367	1.473		10.8	10.0	7.7	30.0
2-Methylphenol	Ave	1.190	1.290	0.7000	10.8	10.0	8.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.255	1.343		10.7	10.0	7.0	30.0
Indene	Ave	2.235	2.246		20.1	20.0	0.5	30.0
3 & 4 Methylphenol	Ave	1.246	1.362		10.9	10.0	9.3	30.0
N-Nitrosodi-n-propylamine	Ave	0.8215	0.9271	0.5000	11.3	10.0	12.8	30.0
Acetophenone	Ave	1.794	1.966	0.0100	11.0	10.0	9.5	30.0
Hexachloroethane	Ave	0.5554	0.6028	0.3000	10.9	10.0	8.5	30.0
Nitrobenzene	Ave	0.3633	0.3974	0.2000	10.9	10.0	9.4	30.0
Isophorone	Ave	0.6861	0.7564	0.4000	11.0	10.0	10.2	30.0
2-Nitrophenol	Ave	0.1740	0.2082	0.1000	12.0	10.0	19.6	30.0
2,4-Dimethylphenol	Ave	0.3693	0.4073	0.2000	11.0	10.0	10.3	30.0
Benzoic acid	Qua		0.2301		22.0	20.0	9.8	30.0
Bis(2-chloroethoxy)methane	Ave	0.4060	0.4421	0.3000	10.9	10.0	8.9	30.0
2,4-Dichlorophenol	Ave	0.2915	0.3308	0.2000	11.3	10.0	13.5	30.0
1,2,4-Trichlorobenzene	Ave	0.3189	0.3451		10.8	10.0	8.2	30.0
Naphthalene	Ave	1.014	1.092	0.7000	10.8	10.0	7.7	30.0
4-Chloroaniline	Ave	0.4105	0.4618	0.0100	11.3	10.0	12.5	30.0
2,6-Dichlorophenol	Ave	0.2873	0.3275		11.4	10.0	14.0	30.0
Hexachlorobutadiene	Ave	0.2006	0.2139	0.0100	10.7	10.0	6.6	30.0
Caprolactam	Ave	0.1043	0.1035	0.0100	19.8	20.0	-0.8	30.0
4-Chloro-3-methylphenol	Ave	0.3099	0.3487	0.2000	11.3	10.0	12.5	30.0
2-Methylnaphthalene	Ave	0.7100	0.7680	0.4000	10.8	10.0	8.2	30.0
1-Methylnaphthalene	Ave	0.6524	0.7119		10.9	10.0	9.1	30.0
Hexachlorocyclopentadiene	Ave	0.3404	0.3950	0.0500	11.6	10.0	16.1	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5671	0.6335	0.0100	11.2	10.0	11.7	30.0
2,4,6-Trichlorophenol	Ave	0.3750	0.4322	0.2000	11.5	10.0	15.3	30.0
2,4,5-Trichlorophenol	Ave	0.3895	0.4524	0.2000	11.6	10.0	16.1	30.0
1,1'-Biphenyl	Ave	1.420	1.532	0.0100	10.8	10.0	7.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539537/11 Calibration Date: 08/19/2022 14:32
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20819011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.093	1.184	0.8000	10.8	10.0	8.3	30.0
2-Nitroaniline	Lin1		0.3697	0.0100	11.7	10.0	16.6	30.0
Dimethyl phthalate	Ave	1.232	1.387	0.0100	11.3	10.0	12.6	30.0
1,3-Dinitrobenzene	Lin1		0.2321		11.7	10.0	16.6	30.0
2,6-Dinitrotoluene	Lin1		0.3341		11.5	10.0	15.5	30.0
Acenaphthylene	Ave	1.715	1.873	0.9000	10.9	10.0	9.2	30.0
3-Nitroaniline	Ave	0.2234	0.2244	0.0100	10.0	10.0	0.4	30.0
2,4-Dinitrophenol	Lin1		0.1991	0.0100	21.7	20.0	8.3	30.0
Acenaphthene	Ave	1.069	1.195	0.9000	11.2	10.0	11.8	30.0
4-Nitrophenol	Ave	0.1938	0.2250		23.2	20.0	16.1	30.0
2,4-Dinitrotoluene	Lin1		0.4237	0.2000	11.3	10.0	12.9	30.0
Dibenzofuran	Ave	1.579	1.744	0.8000	11.1	10.0	10.5	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3126	0.3578	0.0100	11.4	10.0	14.5	30.0
Diethyl phthalate	Ave	1.207	1.313	0.0100	10.9	10.0	8.7	30.0
4-Chlorophenyl phenyl ether	Ave	0.6435	0.7249	0.4000	11.3	10.0	12.7	30.0
4-Nitroaniline	Ave	0.2289	0.2562	0.0100	11.2	10.0	11.9	30.0
Fluorene	Ave	1.262	1.415	0.9000	11.2	10.0	12.1	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1463	0.0100	22.7	20.0	13.3	30.0
Diphenylamine	Ave	0.5959	0.6587		9.41	8.51	10.5	30.0
N-Nitrosodiphenylamine	Ave	0.5065	0.5606	0.0100	11.1	10.0	10.7	30.0
Azobenzene	Ave	0.6902	0.7949		11.5	10.0	15.2	30.0
4-Bromophenyl phenyl ether	Ave	0.2025	0.2347	0.1000	11.6	10.0	15.9	30.0
Hexachlorobenzene	Ave	0.2169	0.2526	0.1000	11.6	10.0	16.5	30.0
Atrazine	Ave	0.2034	0.2021	0.0100	19.9	20.0	-0.6	30.0
n-Octadecane	Ave	0.3618	0.4082		11.3	10.0	12.8	30.0
Pentachlorophenol	Lin1		0.1545	0.0500	21.7	20.0	8.7	30.0
Phenanthrene	Ave	1.017	1.084	0.7000	10.7	10.0	6.6	30.0
Anthracene	Ave	0.9890	1.102	0.7000	11.1	10.0	11.5	30.0
Carbazole	Qua		0.6180	0.0100	9.12	10.0	-8.8	30.0
Di-n-butyl phthalate	Ave	1.128	1.345	0.0100	11.9	10.0	19.2	30.0
Fluoranthene	Ave	1.122	1.293	0.6000	11.5	10.0	15.3	30.0
Benidine	Qua		0.2639		28.2	20.0	40.8*	30.0
Pyrene	Ave	1.280	1.392	0.6000	10.9	10.0	8.7	30.0
Butyl benzyl phthalate	Ave	0.5363	0.6126	0.0100	11.4	10.0	14.2	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7625	0.8805	0.0100	11.5	10.0	15.5	30.0
3,3'-Dichlorobenzidine	Ave	0.1925	0.2250	0.0100	23.4	20.0	16.9	30.0
Benzo[a]anthracene	Ave	1.200	1.280	0.8000	10.7	10.0	6.7	30.0
Chrysene	Ave	1.185	1.264	0.7000	10.7	10.0	6.6	30.0
Di-n-octyl phthalate	Lin1		1.642	0.0100	11.2	10.0	11.9	30.0
Benzo[b]fluoranthene	Ave	1.202	1.314	0.7000	10.9	10.0	9.4	30.0
Benzo[k]fluoranthene	Ave	1.298	1.464	0.7000	11.3	10.0	12.8	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539537/11 Calibration Date: 08/19/2022 14:32
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20819011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	1.144	1.316	0.7000	11.5	10.0	15.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.152	1.341	0.5000	11.6	10.0	16.5	30.0
Dibenz(a,h)anthracene	Ave	0.997	1.146	0.4000	11.5	10.0	14.9	30.0
Benzo[g,h,i]perylene	Ave	1.054	1.177	0.5000	11.2	10.0	11.6	30.0
2-Fluorophenol (Surr)	Ave	1.192	1.260		10.6	10.0	5.7	30.0
Phenol-d5 (Surr)	Ave	1.473	1.548		10.5	10.0	5.1	30.0
Nitrobenzene-d5 (Surr)	Ave	0.3722	0.4085		11.0	10.0	9.7	30.0
2-Fluorobiphenyl (Surr)	Ave	1.227	1.294		10.5	10.0	5.5	30.0
2,4,6-Tribromophenol (Surr)	Ave	0.1572	0.1719		10.9	10.0	9.3	30.0
Terphenyl-d14 (Surr)	Ave	0.9660	0.996		10.3	10.0	3.1	30.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819011.D
 Lims ID: icv lst1
 Client ID:
 Sample Type: ICV
 Inject. Date: 19-Aug-2022 14:32:38 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-011
 Misc. Info.: ICV LST1
 Operator ID: Instrument ID: A4AG3
 Sublist:
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 13:06:21 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4

Date: 22-Aug-2022 09:57:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.231	6.231	0.000	95	173082	4.00	4.00	
* 2 Naphthalene-d8	136	7.342	7.343	-0.001	100	630810	4.00	4.00	
* 3 Acenaphthene-d10	164	8.836	8.837	-0.001	93	374383	4.00	4.00	
* 4 Phenanthrene-d10	188	10.101	10.101	0.000	97	656475	4.00	4.00	
* 5 Chrysene-d12	240	12.783	12.778	0.005	99	619949	4.00	4.00	
* 6 Perylene-d12	264	14.966	14.960	0.006	98	568532	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.013	5.013	0.000	92	545079	10.0	10.6	
\$ 8 Phenol-d5	99	5.872	5.872	0.000	74	669787	10.0	10.5	
\$ 9 Nitrobenzene-d5	82	6.707	6.707	0.000	90	644141	10.0	11.0	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.242	8.242	0.000	100	1211444	10.0	10.5	
\$ 11 2,4,6-Tribromophenol	330	9.507	9.507	0.000	92	160852	10.0	10.9	
\$ 12 Terphenyl-d14	244	11.489	11.495	-0.006	97	1543025	10.0	10.3	
13 1,4-Dioxane	88	2.943	2.943	0.000	92	247728	10.0	10.8	
14 N-Nitrosodimethylamine	74	3.425	3.425	0.000	92	331088	10.0	10.9	
15 Pyridine	79	3.472	3.472	0.000	97	1119799	20.0	21.3	
30 Benzaldehyde	77	5.837	5.837	0.000	95	866763	20.0	18.6	
31 Phenol	94	5.884	5.884	0.000	99	763517	10.0	11.0	
32 Aniline	93	5.931	5.931	0.000	98	906638	10.0	11.0	
33 Bis(2-chloroethyl)ether	93	5.972	5.972	0.000	99	598760	10.0	10.6	
36 2-Chlorophenol	128	6.048	6.048	0.000	96	602378	10.0	10.7	
37 n-Decane	57	6.078	6.078	0.000	85	569048	10.0	10.4	
39 1,3-Dichlorobenzene	146	6.190	6.190	0.000	97	660389	10.0	10.6	
40 1,4-Dichlorobenzene	146	6.248	6.248	0.000	91	664031	10.0	10.6	
41 Benzyl alcohol	108	6.331	6.337	-0.006	92	420780	10.0	11.6	
44 1,2-Dichlorobenzene	146	6.390	6.390	0.000	95	637356	10.0	10.8	
45 2-Methylphenol	108	6.419	6.419	0.000	96	558238	10.0	10.8	
46 2,2'-oxybis[1-chloropropane]	45	6.454	6.454	0.000	90	581148	10.0	10.7	
47 Indene	115	6.466	6.466	0.000	89	1943894	20.0	20.1	
48 3 & 4 Methylphenol	108	6.548	6.548	0.000	93	589415	10.0	10.9	
50 N-Nitrosodi-n-propylamine	70	6.560	6.560	0.000	84	401158	10.0	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.572	6.572	0.000	97	850595	10.0	11.0	
54 Hexachloroethane	117	6.689	6.690	-0.001	92	260835	10.0	10.9	
55 Nitrobenzene	77	6.725	6.725	0.000	86	626759	10.0	10.9	
57 Isophorone	82	6.925	6.925	0.000	99	1192923	10.0	11.0	
59 2-Nitrophenol	139	7.001	7.001	0.000	98	328309	10.0	12.0	
58 2,4-Dimethylphenol	107	7.013	7.013	0.000	96	642333	10.0	11.0	
63 Benzoic acid	105	7.066	7.066	0.000	87	725698	20.0	22.0	
64 Bis(2-chloroethoxy)methane	93	7.089	7.089	0.000	98	697273	10.0	10.9	
66 2,4-Dichlorophenol	162	7.207	7.207	0.000	94	521604	10.0	11.3	
68 1,2,4-Trichlorobenzene	180	7.289	7.289	0.000	94	544159	10.0	10.8	
69 Naphthalene	128	7.360	7.360	0.000	97	1721772	10.0	10.8	
70 4-Chloroaniline	127	7.384	7.384	0.000	95	728285	10.0	11.3	
71 2,6-Dichlorophenol	162	7.401	7.401	0.000	98	516482	10.0	11.4	
73 Hexachlorobutadiene	225	7.460	7.466	-0.006	97	337387	10.0	10.7	
78 Caprolactam	113	7.666	7.666	0.000	85	326463	20.0	19.8	M
80 4-Chloro-3-methylphenol	107	7.778	7.778	0.000	96	549985	10.0	11.3	
82 2-Methylnaphthalene	142	7.948	7.948	0.000	93	1211224	10.0	10.8	
83 1-Methylnaphthalene	142	8.036	8.037	0.000	93	1122619	10.0	10.9	
85 Hexachlorocyclopentadiene	237	8.084	8.089	-0.005	96	369749	10.0	11.6	
86 1,2,4,5-Tetrachlorobenzene	216	8.095	8.095	0.000	98	592920	10.0	11.2	
88 2,4,6-Trichlorophenol	196	8.178	8.178	0.000	93	404563	10.0	11.5	
89 2,4,5-Trichlorophenol	196	8.207	8.207	0.000	94	423384	10.0	11.6	
92 1,1'-Biphenyl	154	8.331	8.331	0.000	95	1433576	10.0	10.8	
96 2-Chloronaphthalene	162	8.366	8.366	0.000	97	1108355	10.0	10.8	
99 2-Nitroaniline	65	8.431	8.431	0.000	86	346063	10.0	11.7	
102 Dimethyl phthalate	163	8.560	8.560	0.000	98	1297938	10.0	11.3	
103 1,3-Dinitrobenzene	168	8.595	8.595	0.000	88	217281	10.0	11.7	
104 2,6-Dinitrotoluene	165	8.619	8.619	0.000	96	312734	10.0	11.5	
105 Acenaphthylene	152	8.725	8.725	0.000	98	1753114	10.0	10.9	
106 3-Nitroaniline	138	8.772	8.772	0.000	96	209989	10.0	10.0	
108 2,4-Dinitrophenol	184	8.854	8.854	0.000	86	372660	20.0	21.7	
109 Acenaphthene	153	8.866	8.866	0.000	93	1118692	10.0	11.2	
110 4-Nitrophenol	109	8.883	8.884	-0.001	90	421252	20.0	23.2	
111 2,4-Dinitrotoluene	165	8.966	8.966	0.000	94	396562	10.0	11.3	
113 Dibenzofuran	168	9.013	9.013	0.000	97	1632663	10.0	11.1	
116 2,3,4,6-Tetrachlorophenol	232	9.107	9.107	0.000	72	334929	10.0	11.4	
118 Diethyl phthalate	149	9.148	9.148	0.000	98	1229002	10.0	10.9	
117 Hexadecane	57	9.154	9.154	0.000	94	690260	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.278	9.278	0.000	90	678520	10.0	11.3	
125 4-Nitroaniline	138	9.289	9.295	-0.006	84	239824	10.0	11.2	
126 Fluorene	166	9.301	9.301	0.000	96	1323916	10.0	11.2	
127 4,6-Dinitro-2-methylphenol	198	9.319	9.319	0.000	90	480138	20.0	22.7	
128 N-Nitrosodiphenylamine	169	9.372	9.372	0.000	98	919992	10.0	11.1	
129 Diphenylamine	169	9.372	9.372	0.000	96	919992	8.51	9.41	
131 1,2-Diphenylhydrazine	77	9.413	9.375	0.038	91	1303474	10.0	11.5	
130 Azobenzene	77	9.413	9.413	0.000	98	1304561	10.0	11.5	
138 4-Bromophenyl phenyl ether	248	9.695	9.695	0.000	64	385141	10.0	11.6	
141 Hexachlorobenzene	284	9.783	9.783	0.000	94	414555	10.0	11.6	
140 Atrazine	200	9.795	9.795	0.000	96	663470	20.0	19.9	
142 n-Octadecane	57	9.925	9.925	0.000	93	669900	10.0	11.3	
145 Pentachlorophenol	266	9.930	9.937	-0.007	92	507070	20.0	21.7	
149 Phenanthrene	178	10.125	10.125	0.000	97	1779719	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
150 Anthracene	178	10.166	10.166	0.000	97	1809187	10.0	11.1	
152 Carbazole	167	10.283	10.283	0.000	95	1014199	10.0	9.12	M
154 Di-n-butyl phthalate	149	10.525	10.525	0.000	100	2207227	10.0	11.9	
160 Fluoranthene	202	11.160	11.160	0.000	97	2122457	10.0	11.5	
161 Benzidine	184	11.242	11.248	-0.006	99	818101	20.0	28.2	
163 Pyrene	202	11.389	11.389	0.000	98	2156786	10.0	10.9	
171 Butyl benzyl phthalate	149	11.983	11.983	0.000	98	949429	10.0	11.4	
176 Bis(2-ethylhexyl) phthalate	149	12.683	12.683	0.000	96	1364595	10.0	11.5	
178 3,3'-Dichlorobenzidine	252	12.695	12.695	0.000	74	697490	20.0	23.4	
179 Benzo[a]anthracene	228	12.772	12.772	0.000	98	1983995	10.0	10.7	
180 Chrysene	228	12.824	12.824	0.000	97	1958751	10.0	10.7	
183 Di-n-octyl phthalate	149	13.624	13.624	0.000	99	2333747	10.0	11.2	
185 Benzo[b]fluoranthene	252	14.360	14.360	0.000	97	1868158	10.0	10.9	
186 Benzo[k]fluoranthene	252	14.401	14.401	0.000	99	2081234	10.0	11.3	
187 Benzo[a]pyrene	252	14.883	14.883	0.000	76	1870481	10.0	11.5	
191 Indeno[1,2,3-cd]pyrene	276	16.748	16.754	-0.006	98	1906422	10.0	11.6	
192 Dibenz(a,h)anthracene	278	16.765	16.765	0.000	91	1629467	10.0	11.5	
193 Benzo[g,h,i]perylene	276	17.265	17.265	0.000	99	1672386	10.0	11.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 SS W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819011.D

Injection Date: 19-Aug-2022 14:32:38

Instrument ID: A4AG3

Operator ID:

Lims ID: icv Ist1

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

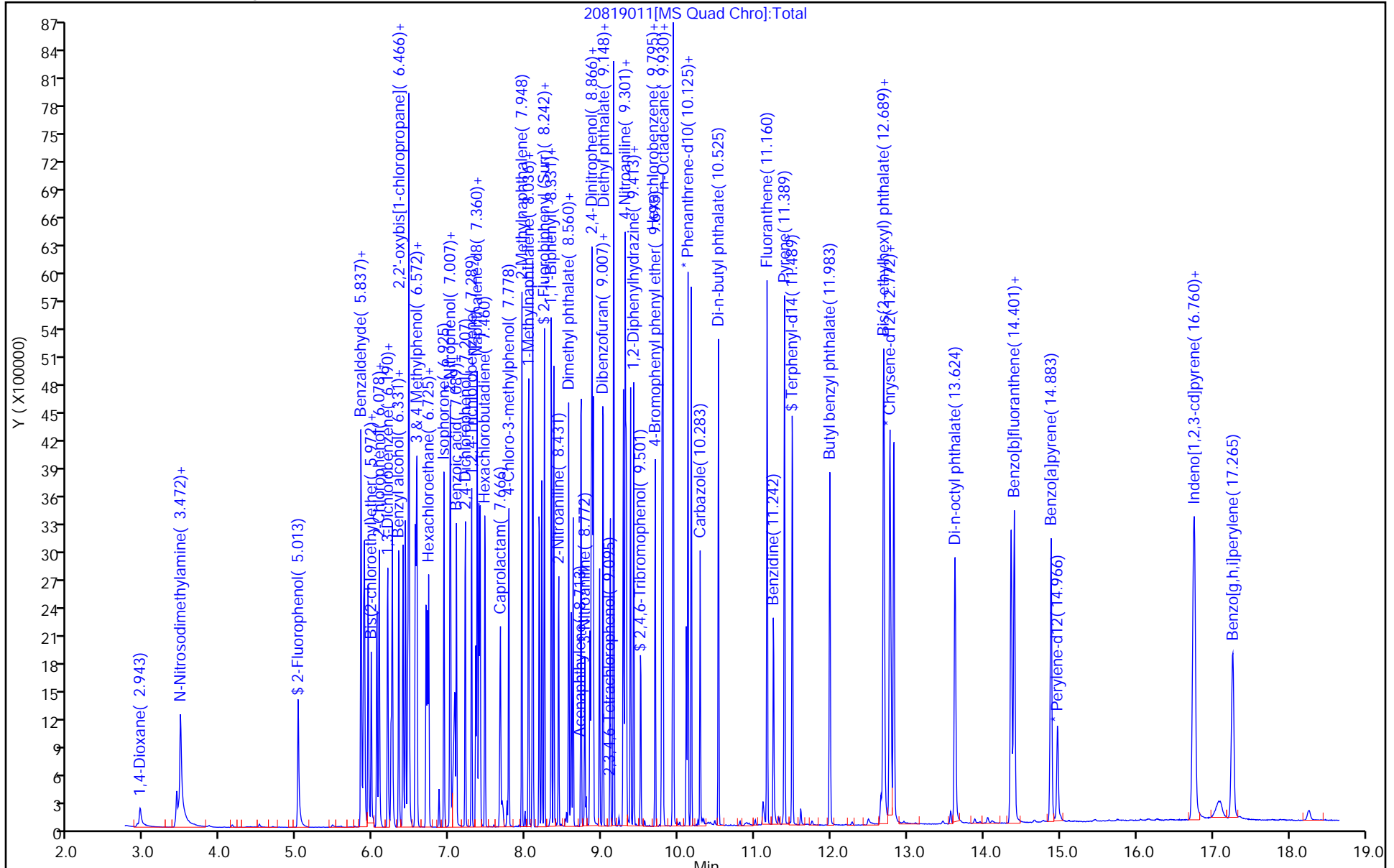
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

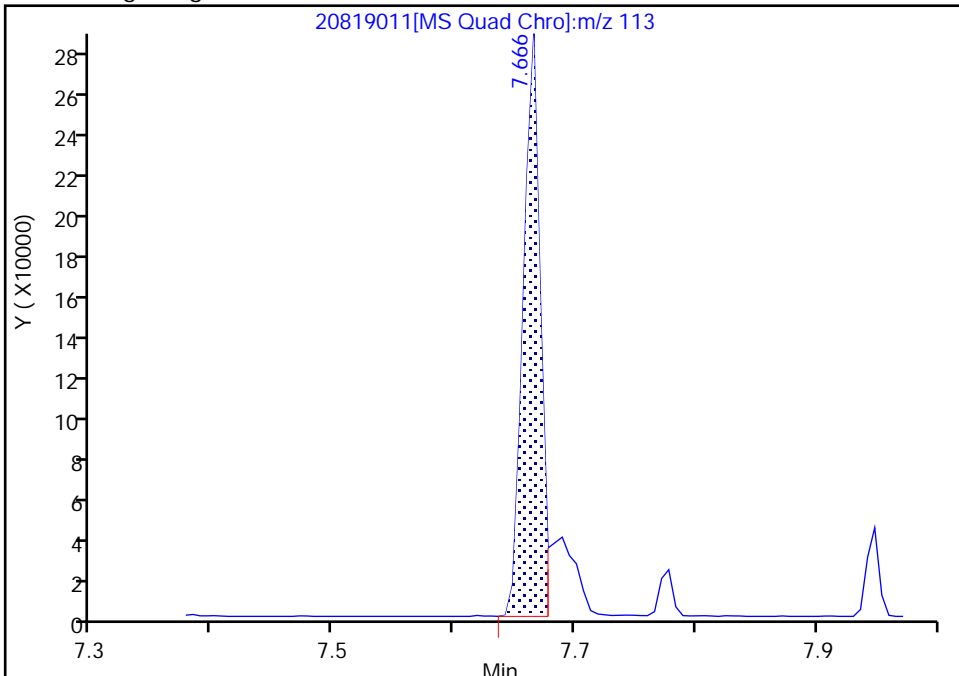
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Injection Date: 19-Aug-2022 14:32:38 Instrument ID: A4AG3
Lims ID: icv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

Signal: 1

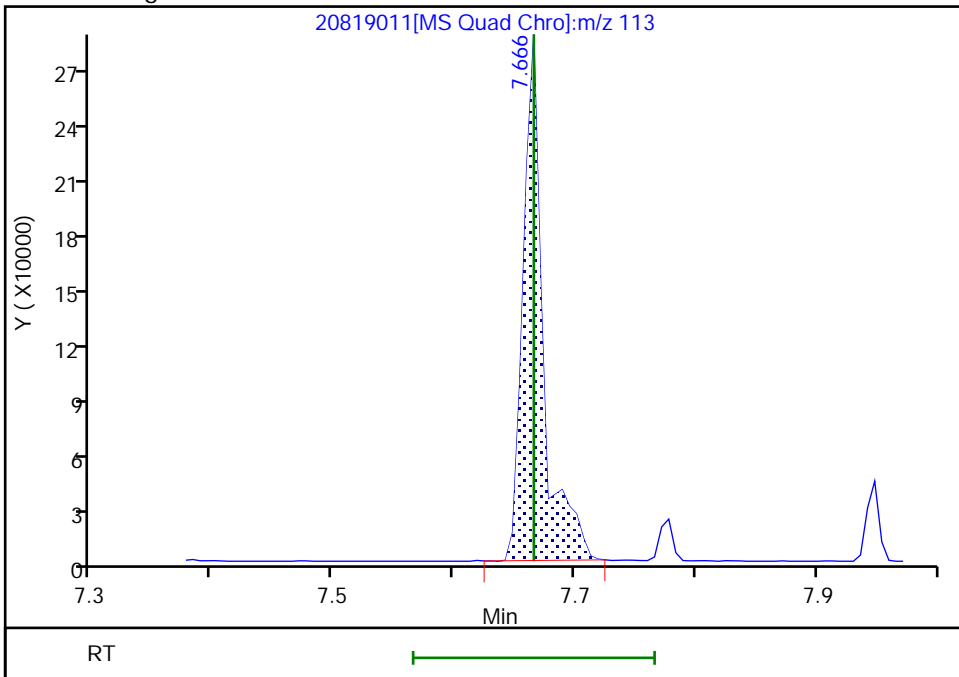
RT: 7.67
Area: 277389
Amount: 16.864238
Amount Units: ng/ul

Processing Integration Results



RT: 7.67
Area: 326463
Amount: 19.847758
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 09:57:19
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

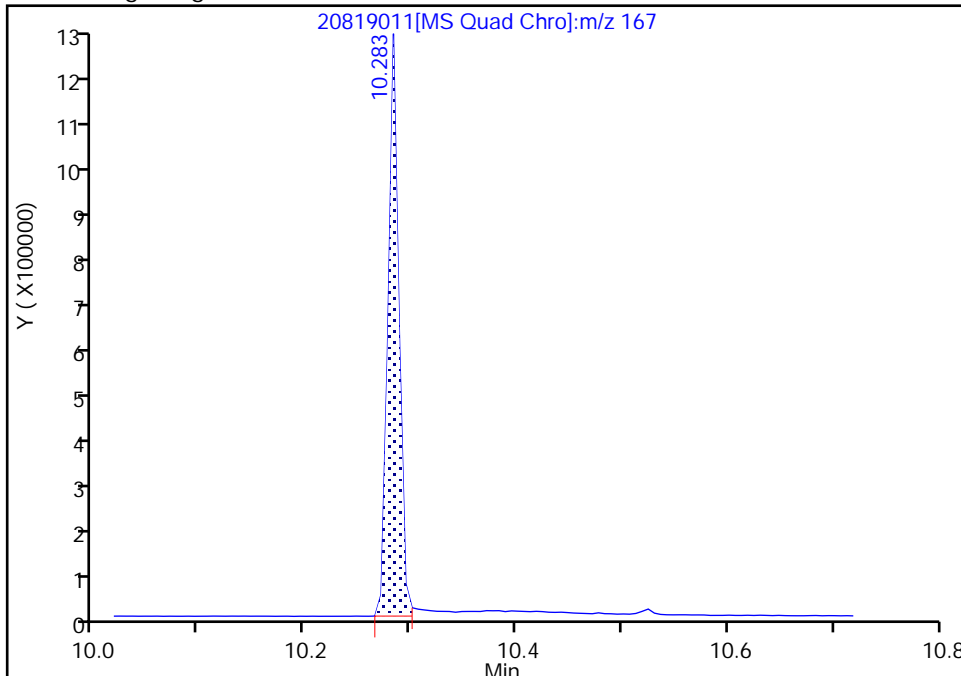
Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819011.D
Injection Date: 19-Aug-2022 14:32:38 Instrument ID: A4AG3
Lims ID: icv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

152 Carbazole, CAS: 86-74-8

Signal: 1

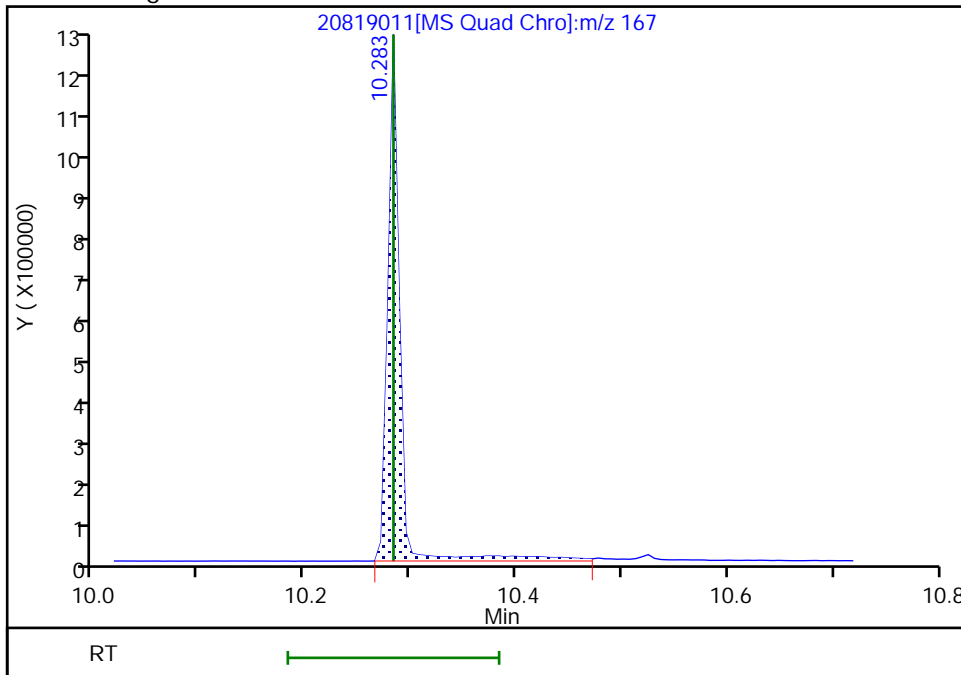
RT: 10.28
Area: 913438
Amount: 8.010042
Amount Units: ng/ul

Processing Integration Results



RT: 10.28
Area: 1014199
Amount: 9.117753
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 22-Aug-2022 10:02:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-541870/2 Calibration Date: 09/08/2022 13:06
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20908002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5313	0.6892		13.0	10.0	29.7*	20.0
N-Nitrosodimethylamine	Ave	0.7047	0.7627		10.8	10.0	8.2	20.0
Pyridine	Ave	1.217	1.166		19.2	20.0	-4.2	20.0
Benzaldehyde	Ave	1.075	1.060	0.0100	19.7	20.0	-1.4	20.0
Phenol	Ave	1.611	1.728	0.8000	10.7	10.0	7.2	20.0
Aniline	Ave	1.906	1.972		10.3	10.0	3.4	20.0
Bis(2-chloroethyl)ether	Ave	1.304	1.331	0.7000	10.2	10.0	2.0	20.0
2-Chlorophenol	Ave	1.297	1.335	0.8000	10.3	10.0	3.0	20.0
n-Decane	Ave	1.263	1.333		10.6	10.0	5.6	20.0
1,3-Dichlorobenzene	Ave	1.444	1.505		10.4	10.0	4.2	20.0
1,4-Dichlorobenzene	Ave	1.446	1.496		10.3	10.0	3.5	20.0
Benzyl alcohol	Ave	0.8408	0.8444		10.0	10.0	0.4	20.0
1,2-Dichlorobenzene	Ave	1.367	1.451		10.6	10.0	6.1	20.0
2-Methylphenol	Ave	1.190	1.270	0.7000	10.7	10.0	6.7	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.255	1.424		11.3	10.0	13.5	20.0
Indene	Ave	2.235	2.506		22.4	20.0	12.1	20.0
N-Nitrosodi-n-propylamine	Ave	0.8215	0.9881	0.5000	12.0	10.0	20.3*	20.0
3 & 4 Methylphenol	Ave	1.246	1.359		10.9	10.0	9.1	20.0
Acetophenone	Ave	1.794	1.933	0.0100	10.8	10.0	7.7	20.0
Hexachloroethane	Ave	0.5554	0.6045	0.3000	10.9	10.0	8.8	20.0
Nitrobenzene	Ave	0.3633	0.3571	0.2000	9.83	10.0	-1.7	20.0
Isophorone	Ave	0.6861	0.6797	0.4000	9.91	10.0	-0.9	20.0
2-Nitrophenol	Ave	0.1740	0.2098	0.1000	12.1	10.0	20.6*	20.0
2,4-Dimethylphenol	Ave	0.3693	0.3520	0.2000	9.53	10.0	-4.7	20.0
Benzoic acid	Qua		0.1527		15.6	20.0	-22.0*	20.0
Bis(2-chloroethoxy)methane	Ave	0.4060	0.3922	0.3000	9.66	10.0	-3.4	20.0
2,4-Dichlorophenol	Ave	0.2915	0.2858	0.2000	9.80	10.0	-2.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3189	0.3075		9.64	10.0	-3.6	20.0
Naphthalene	Ave	1.014	1.022	0.7000	10.1	10.0	0.8	20.0
4-Chloroaniline	Ave	0.4105	0.3764	0.0100	9.17	10.0	-8.3	20.0
2,6-Dichlorophenol	Ave	0.2873	0.2945		10.3	10.0	2.5	20.0
Hexachlorobutadiene	Ave	0.2006	0.1881	0.0100	9.37	10.0	-6.3	20.0
Caprolactam	Ave	0.1043	0.1111	0.0100	21.3	20.0	6.5	20.0
4-Chloro-3-methylphenol	Ave	0.3099	0.3087	0.2000	9.96	10.0	-0.4	20.0
2-Methylnaphthalene	Ave	0.7100	0.7618	0.4000	10.7	10.0	7.3	20.0
1-Methylnaphthalene	Ave	0.6524	0.6710		10.3	10.0	2.8	20.0
Hexachlorocyclopentadiene	Ave	0.3404	0.3064	0.0500	9.00	10.0	-10.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5671	0.5222	0.0100	9.21	10.0	-7.9	20.0
2,4,6-Trichlorophenol	Ave	0.3750	0.3465	0.2000	9.24	10.0	-7.6	20.0
2,4,5-Trichlorophenol	Ave	0.3895	0.3606	0.2000	9.26	10.0	-7.4	20.0
1,1'-Biphenyl	Ave	1.420	1.344	0.0100	9.47	10.0	-5.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-541870/2 Calibration Date: 09/08/2022 13:06
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20908002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.093	1.042	0.8000	9.53	10.0	-4.7	20.0
2-Nitroaniline	Lin1		0.3398	0.0100	10.7	10.0	7.3	20.0
Dimethyl phthalate	Ave	1.232	1.170	0.0100	9.50	10.0	-5.0	20.0
1,3-Dinitrobenzene	Lin1		0.2068		10.4	10.0	4.1	20.0
2,6-Dinitrotoluene	Lin1		0.2842		9.84	10.0	-1.6	20.0
Acenaphthylene	Ave	1.715	1.769	0.9000	10.3	10.0	3.2	20.0
3-Nitroaniline	Ave	0.2234	0.2614	0.0100	11.7	10.0	17.0	20.0
2,4-Dinitrophenol	Lin1		0.1609	0.0100	17.7	20.0	-11.5	20.0
Acenaphthene	Ave	1.069	1.030	0.9000	9.63	10.0	-3.7	20.0
4-Nitrophenol	Ave	0.1938	0.1898		19.6	20.0	-2.1	20.0
2,4-Dinitrotoluene	Lin1		0.3738	0.2000	9.98	10.0	-0.2	20.0
Dibenzofuran	Ave	1.579	1.528	0.8000	9.68	10.0	-3.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3126	0.2702	0.0100	8.64	10.0	-13.6	20.0
Diethyl phthalate	Ave	1.207	1.181	0.0100	9.78	10.0	-2.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6435	0.6124	0.4000	9.52	10.0	-4.8	20.0
4-Nitroaniline	Ave	0.2289	0.2816	0.0100	12.3	10.0	23.0*	20.0
Fluorene	Ave	1.262	1.256	0.9000	9.95	10.0	-0.5	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1271	0.0100	19.8	20.0	-1.1	20.0
Diphenylamine	Ave	0.5959	0.5953		8.49	8.50	-0.0	20.0
N-Nitrosodiphenylamine	Ave	0.5065	0.5060	0.0100	9.99	10.0	-0.0	20.0
Azobenzene	Ave	0.6902	0.6653		9.64	10.0	-3.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2025	0.1885	0.1000	9.31	10.0	-6.9	20.0
Hexachlorobenzene	Ave	0.2169	0.1917	0.1000	8.84	10.0	-11.6	20.0
Atrazine	Ave	0.2034	0.2097	0.0100	20.6	20.0	3.1	20.0
n-Octadecane	Ave	0.3618	0.4117		11.4	10.0	13.8	20.0
Pentachlorophenol	Lin1		0.1018	0.0500	14.4	20.0	-27.9*	20.0
Phenanthrene	Ave	1.017	1.010	0.7000	9.93	10.0	-0.7	20.0
Anthracene	Ave	0.9890	1.046	0.7000	10.6	10.0	5.8	20.0
Carbazole	Qua		0.8479	0.0100	13.9	10.0	39.1*	20.0
Di-n-butyl phthalate	Ave	1.128	1.196	0.0100	10.6	10.0	6.0	20.0
Fluoranthene	Ave	1.122	1.080	0.6000	9.62	10.0	-3.8	20.0
Benidine	Qua		0.1286		17.1	20.0	-14.5	20.0
Pyrene	Ave	1.280	1.289	0.6000	10.1	10.0	0.7	20.0
Butyl benzyl phthalate	Ave	0.5363	0.6033	0.0100	11.2	10.0	12.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7625	0.8460	0.0100	11.1	10.0	10.9	20.0
3,3'-Dichlorobenzidine	Ave	0.1925	0.2191	0.0100	22.8	20.0	13.8	20.0
Benzo[a]anthracene	Ave	1.200	1.220	0.8000	10.2	10.0	1.7	20.0
Chrysene	Ave	1.185	1.172	0.7000	9.89	10.0	-1.1	20.0
Di-n-octyl phthalate	Lin1		1.512	0.0100	10.3	10.0	3.2	20.0
Benzo[b]fluoranthene	Ave	1.202	1.260	0.7000	10.5	10.0	4.8	20.0
Benzo[k]fluoranthene	Ave	1.298	1.302	0.7000	10.0	10.0	0.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-541870/2 Calibration Date: 09/08/2022 13:06
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20908002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	1.144	1.197	0.7000	10.5	10.0	4.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.152	1.310	0.5000	11.4	10.0	13.8	20.0
Dibenz(a,h)anthracene	Ave	0.997	1.138	0.4000	11.4	10.0	14.1	20.0
Benzo[g,h,i]perylene	Ave	1.054	1.106	0.5000	10.5	10.0	4.9	20.0
2-Fluorophenol (Surr)	Ave	1.192	1.244		10.4	10.0	4.3	20.0
Phenol-d5 (Surr)	Ave	1.473	1.523		10.3	10.0	3.4	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3722	0.3586		9.63	10.0	-3.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.227	1.147		9.34	10.0	-6.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1572	0.1454		9.25	10.0	-7.5	20.0
Terphenyl-d14 (Surr)	Ave	0.9660	0.9174		9.50	10.0	-5.0	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908002.D
 Lims ID: ccv Ist1
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-Sep-2022 13:06:20 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-002
 Misc. Info.: CCV LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:35 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4

Date: 08-Sep-2022 13:53:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.060	6.060	0.000	96	138239	4.00	4.00	
* 2 Naphthalene-d8	136	7.172	7.172	0.000	99	561903	4.00	4.00	
* 3 Acenaphthene-d10	164	8.666	8.666	0.000	91	360174	4.00	4.00	
* 4 Phenanthrene-d10	188	9.919	9.919	0.000	97	660259	4.00	4.00	
* 5 Chrysene-d12	240	12.495	12.495	0.000	99	573595	4.00	4.00	
* 6 Perylene-d12	264	14.595	14.595	0.000	98	585591	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.819	4.819	0.000	93	429803	10.0	10.4	
\$ 8 Phenol-d5	99	5.719	5.719	0.000	75	526193	10.0	10.3	
\$ 9 Nitrobenzene-d5	82	6.543	6.543	0.000	92	503756	10.0	9.63	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.072	8.072	0.000	100	1032382	10.0	9.34	
\$ 11 2,4,6-Tribromophenol	330	9.325	9.325	0.000	91	130887	10.0	9.25	
\$ 12 Terphenyl-d14	244	11.272	11.272	0.000	97	1315537	10.0	9.50	
13 1,4-Dioxane	88	2.372	2.372	0.000	92	238179	10.0	13.0	
14 N-Nitrosodimethylamine	74	2.907	2.907	0.000	88	263573	10.0	10.8	
15 Pyridine	79	2.966	2.966	0.000	95	805833	20.0	19.2	
30 Benzaldehyde	77	5.660	5.660	0.000	95	732380	20.0	19.7	
31 Phenol	94	5.731	5.731	0.000	98	597140	10.0	10.7	
32 Aniline	93	5.760	5.760	0.000	99	681355	10.0	10.3	
33 Bis(2-chloroethyl)ether	93	5.801	5.801	0.000	98	459888	10.0	10.2	
36 2-Chlorophenol	128	5.878	5.878	0.000	96	461364	10.0	10.3	
37 n-Decane	57	5.907	5.907	0.000	86	460785	10.0	10.6	
39 1,3-Dichlorobenzene	146	6.013	6.013	0.000	97	520073	10.0	10.4	
40 1,4-Dichlorobenzene	146	6.078	6.078	0.000	92	517183	10.0	10.3	
41 Benzyl alcohol	108	6.172	6.172	0.000	92	291830	10.0	10.0	
44 1,2-Dichlorobenzene	146	6.219	6.219	0.000	95	501473	10.0	10.6	
45 2-Methylphenol	108	6.272	6.272	0.000	96	438882	10.0	10.7	
46 2,2'-oxybis[1-chloropropane]	45	6.290	6.290	0.000	85	492038	10.0	11.3	
47 Indene	115	6.296	6.296	0.000	90	1732188	20.0	22.4	
50 N-Nitrosodi-n-propylamine	70	6.396	6.396	0.000	89	341479	10.0	12.0	
48 3 & 4 Methylphenol	108	6.401	6.401	0.000	89	469546	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.407	6.407	0.000	93	668067	10.0	10.8	
54 Hexachloroethane	117	6.519	6.519	0.000	92	208930	10.0	10.9	
55 Nitrobenzene	77	6.560	6.560	0.000	90	501694	10.0	9.83	
57 Isophorone	82	6.760	6.760	0.000	98	954829	10.0	9.91	
59 2-Nitrophenol	139	6.837	6.837	0.000	97	294732	10.0	12.1	
58 2,4-Dimethylphenol	107	6.854	6.854	0.000	94	494468	10.0	9.53	
63 Benzoic acid	105	6.919	6.919	0.000	94	429135	20.0	15.6	M
64 Bis(2-chloroethoxy)methane	93	6.931	6.931	0.000	99	550984	10.0	9.66	
66 2,4-Dichlorophenol	162	7.048	7.048	0.000	95	401450	10.0	9.80	
68 1,2,4-Trichlorobenzene	180	7.119	7.119	0.000	94	432022	10.0	9.64	
69 Naphthalene	128	7.195	7.195	0.000	97	1435711	10.0	10.1	
70 4-Chloroaniline	127	7.219	7.219	0.000	96	528726	10.0	9.17	
71 2,6-Dichlorophenol	162	7.237	7.237	0.000	97	413696	10.0	10.3	
73 Hexachlorobutadiene	225	7.295	7.295	0.000	95	264187	10.0	9.37	
78 Caprolactam	113	7.501	7.501	0.000	82	312130	20.0	21.3	
80 4-Chloro-3-methylphenol	107	7.625	7.625	0.000	95	433644	10.0	9.96	
82 2-Methylnaphthalene	142	7.778	7.778	0.000	94	1070178	10.0	10.7	
83 1-Methylnaphthalene	142	7.860	7.860	0.000	93	942592	10.0	10.3	
85 Hexachlorocyclopentadiene	237	7.913	7.913	0.000	97	275852	10.0	9.00	
86 1,2,4,5-Tetrachlorobenzene	216	7.919	7.919	0.000	98	470203	10.0	9.21	
88 2,4,6-Trichlorophenol	196	8.007	8.007	0.000	93	311980	10.0	9.24	
89 2,4,5-Trichlorophenol	196	8.048	8.048	0.000	94	324734	10.0	9.26	
92 1,1'-Biphenyl	154	8.160	8.160	0.000	95	1210277	10.0	9.47	
96 2-Chloronaphthalene	162	8.190	8.190	0.000	97	938406	10.0	9.53	
99 2-Nitroaniline	65	8.260	8.260	0.000	84	305978	10.0	10.7	
102 Dimethyl phthalate	163	8.390	8.390	0.000	98	1053750	10.0	9.50	
103 1,3-Dinitrobenzene	168	8.425	8.425	0.000	86	186201	10.0	10.4	
104 2,6-Dinitrotoluene	165	8.448	8.448	0.000	94	255879	10.0	9.84	
105 Acenaphthylene	152	8.548	8.548	0.000	98	1593292	10.0	10.3	
106 3-Nitroaniline	138	8.601	8.601	0.000	94	235381	10.0	11.7	
108 2,4-Dinitrophenol	184	8.684	8.684	0.000	85	289819	20.0	17.7	
109 Acenaphthene	153	8.690	8.690	0.000	91	927538	10.0	9.63	
110 4-Nitrophenol	109	8.725	8.725	0.000	95	341815	20.0	19.6	
111 2,4-Dinitrotoluene	165	8.795	8.795	0.000	94	336618	10.0	9.98	
113 Dibenzofuran	168	8.831	8.831	0.000	96	1375499	10.0	9.68	
116 2,3,4,6-Tetrachlorophenol	232	8.931	8.931	0.000	73	243325	10.0	8.64	
117 Hexadecane	57	8.978	8.978	0.000	97	626148	NC	NC	
118 Diethyl phthalate	149	8.978	8.978	0.000	98	1063690	10.0	9.78	
122 4-Chlorophenyl phenyl ether	204	9.101	9.101	0.000	92	551460	10.0	9.52	
125 4-Nitroaniline	138	9.119	9.119	0.000	81	253537	10.0	12.3	
126 Fluorene	166	9.125	9.125	0.000	96	1130766	10.0	9.95	
127 4,6-Dinitro-2-methylphenol	198	9.142	9.142	0.000	89	419456	20.0	19.8	
129 Diphenylamine	169	9.195	9.195	0.000	97	835305	8.50	8.49	
128 N-Nitrosodiphenylamine	169	9.195	9.195	0.000	97	835305	10.0	10.0	
131 1,2-Diphenylhydrazine	77	9.237	9.237	0.000	92	1097993	10.0	9.64	
130 Azobenzene	77	9.237	9.237	0.000	98	1098242	10.0	9.64	
138 4-Bromophenyl phenyl ether	248	9.513	9.513	0.000	68	311178	10.0	9.31	
141 Hexachlorobenzene	284	9.601	9.601	0.000	94	316394	10.0	8.84	
140 Atrazine	200	9.619	9.619	0.000	94	692263	20.0	20.6	
142 n-Octadecane	57	9.748	9.748	0.000	93	679537	10.0	11.4	
145 Pentachlorophenol	266	9.754	9.754	0.000	93	335962	20.0	14.4	
149 Phenanthrene	178	9.936	9.936	0.000	97	1667147	10.0	9.93	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
150 Anthracene	178	9.978	9.978	0.000	97	1726776	10.0	10.6	
152 Carbazole	167	10.101	10.101	0.000	96	1399508	10.0	13.9	
154 Di-n-butyl phthalate	149	10.342	10.342	0.000	100	1974631	10.0	10.6	
160 Fluoranthene	202	10.954	10.954	0.000	97	1781942	10.0	9.62	
161 Benzidine	184	11.036	11.036	0.000	99	368939	20.0	17.1	
163 Pyrene	202	11.166	11.166	0.000	98	1848457	10.0	10.1	
171 Butyl benzyl phthalate	149	11.736	11.736	0.000	99	865158	10.0	11.2	
176 Bis(2-ethylhexyl) phthalate	149	12.407	12.407	0.000	96	1213180	10.0	11.1	
178 3,3'-Dichlorobenzidine	252	12.413	12.413	0.000	74	628498	20.0	22.8	
179 Benzo[a]anthracene	228	12.483	12.483	0.000	98	1749126	10.0	10.2	
180 Chrysene	228	12.530	12.530	0.000	97	1680627	10.0	9.89	
183 Di-n-octyl phthalate	149	13.313	13.313	0.000	99	2213816	10.0	10.3	
185 Benzo[b]fluoranthene	252	14.007	14.007	0.000	97	1844267	10.0	10.5	a
186 Benzo[k]fluoranthene	252	14.048	14.048	0.000	99	1906041	10.0	10.0	a
187 Benzo[a]pyrene	252	14.513	14.513	0.000	77	1752431	10.0	10.5	
191 Indeno[1,2,3-cd]pyrene	276	16.283	16.283	0.000	99	1918446	10.0	11.4	
192 Dibenz(a,h)anthracene	278	16.295	16.295	0.000	91	1665902	10.0	11.4	
193 Benzo[g,h,i]perylene	276	16.748	16.748	0.000	98	1618954	10.0	10.5	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SMLIST1 L6 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908002.D

Injection Date: 08-Sep-2022 13:06:20

Instrument ID: A4AG3

Operator ID:

Lims ID: ccv Ist1

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

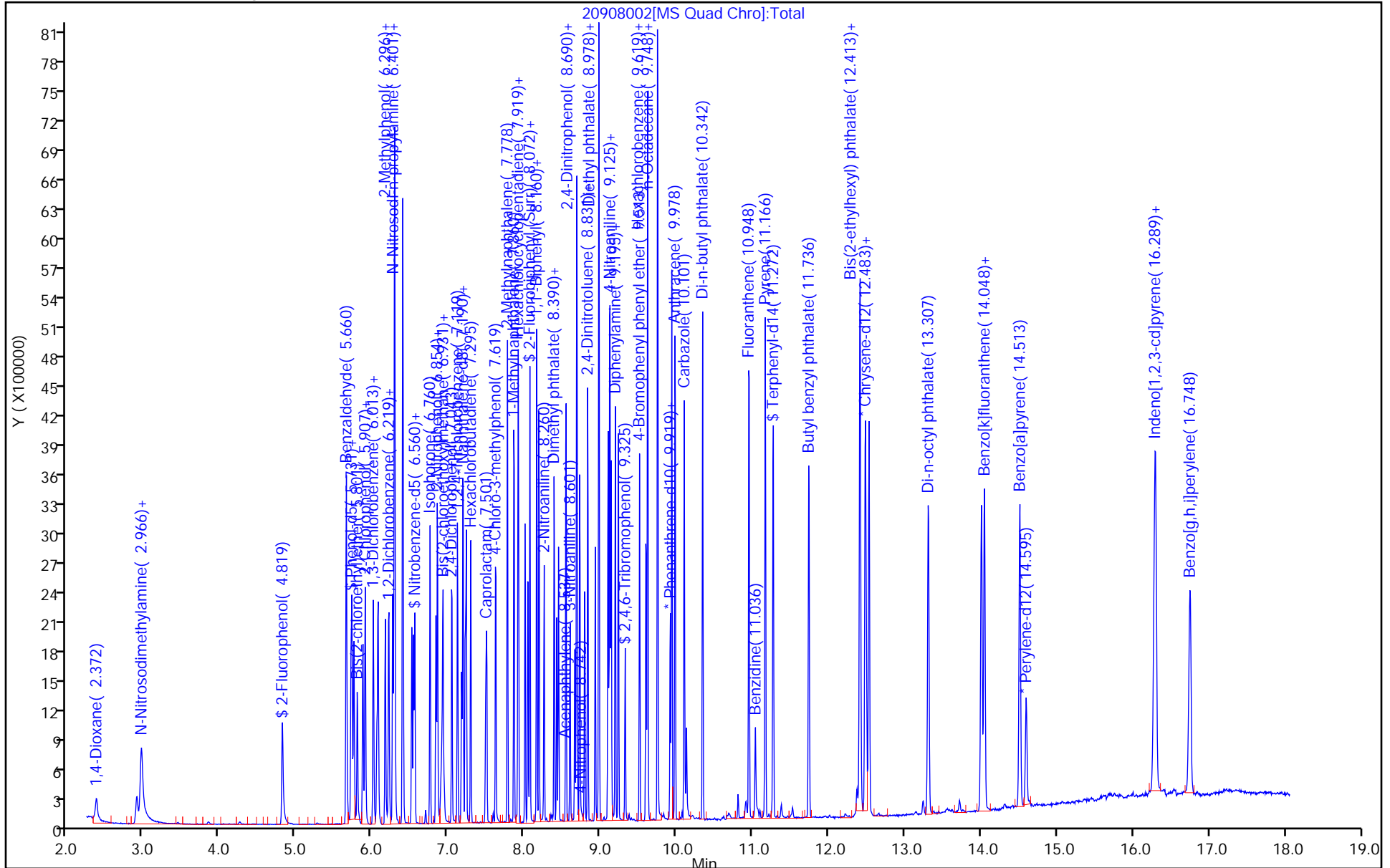
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

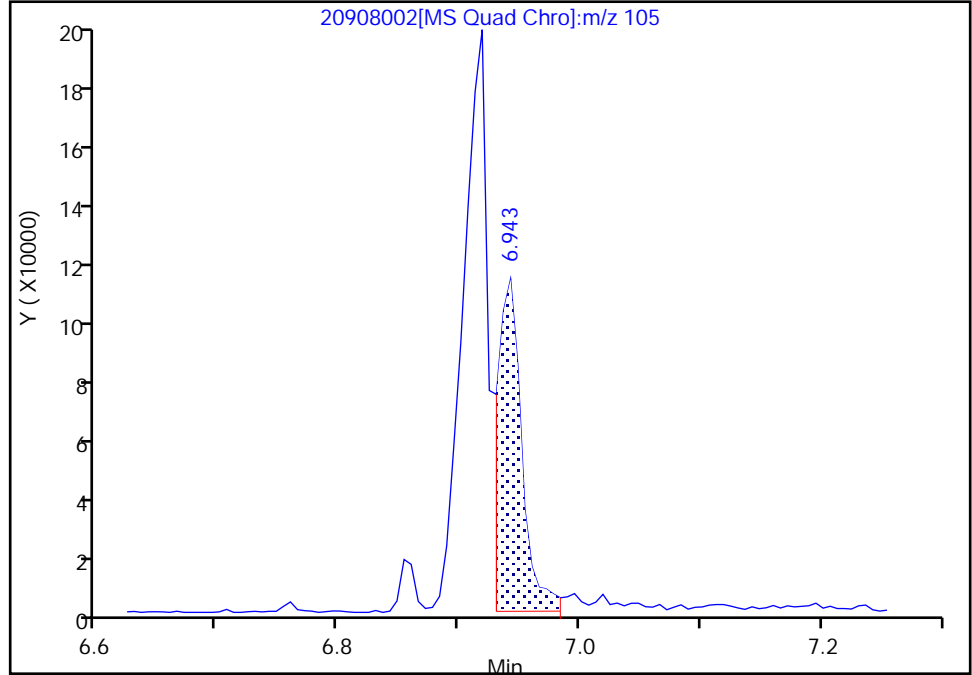
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Injection Date: 08-Sep-2022 13:06:20 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

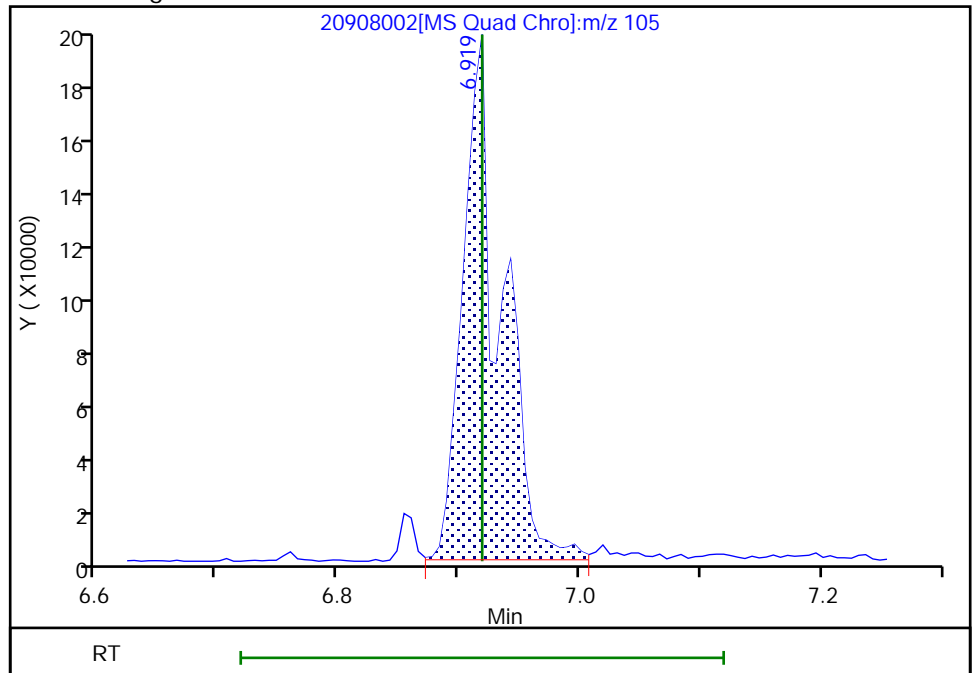
RT: 6.94
Area: 157333
Amount: 6.882712
Amount Units: ng/ul

Processing Integration Results



RT: 6.92
Area: 429135
Amount: 15.600627
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 08-Sep-2022 13:28:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

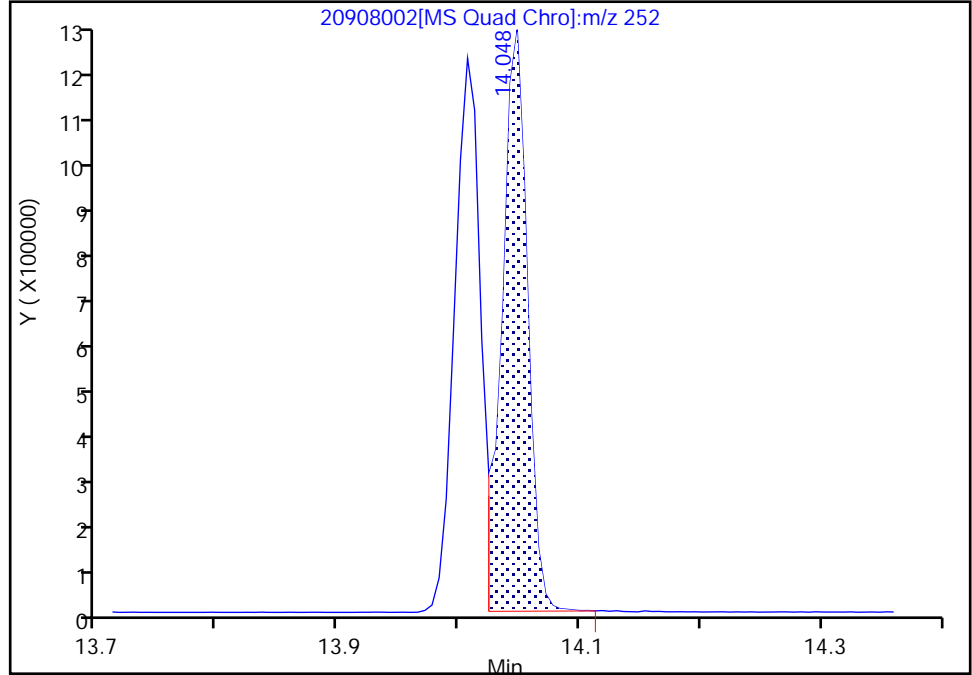
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Injection Date: 08-Sep-2022 13:06:20 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

185 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

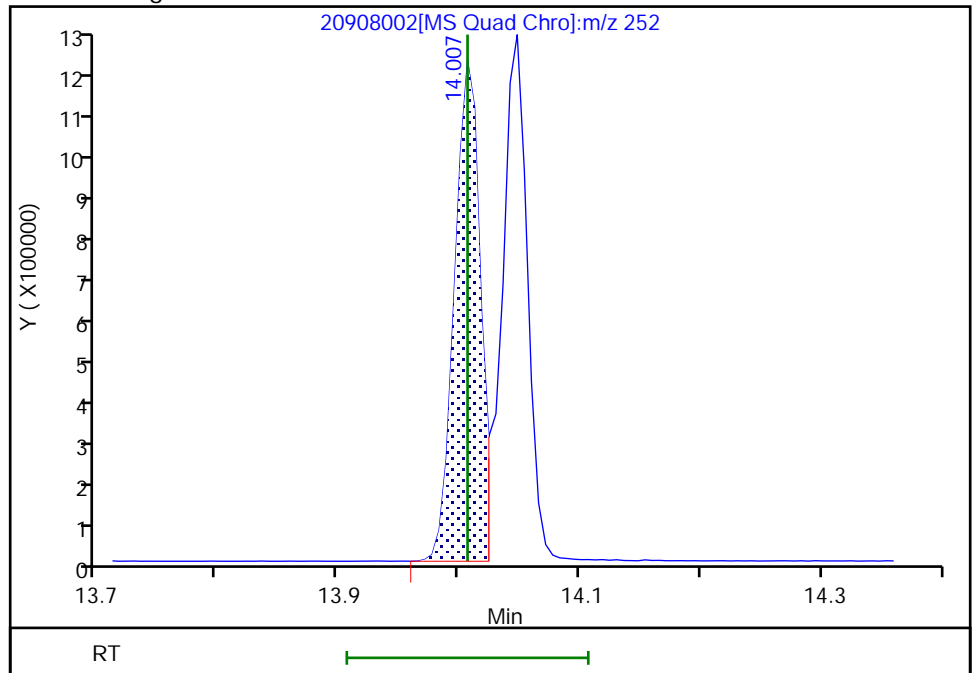
RT: 14.05
Area: 1906041
Amount: 10.831812
Amount Units: ng/ul

Processing Integration Results



RT: 14.01
Area: 1844267
Amount: 10.480757
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 08-Sep-2022 13:29:08
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins Canton

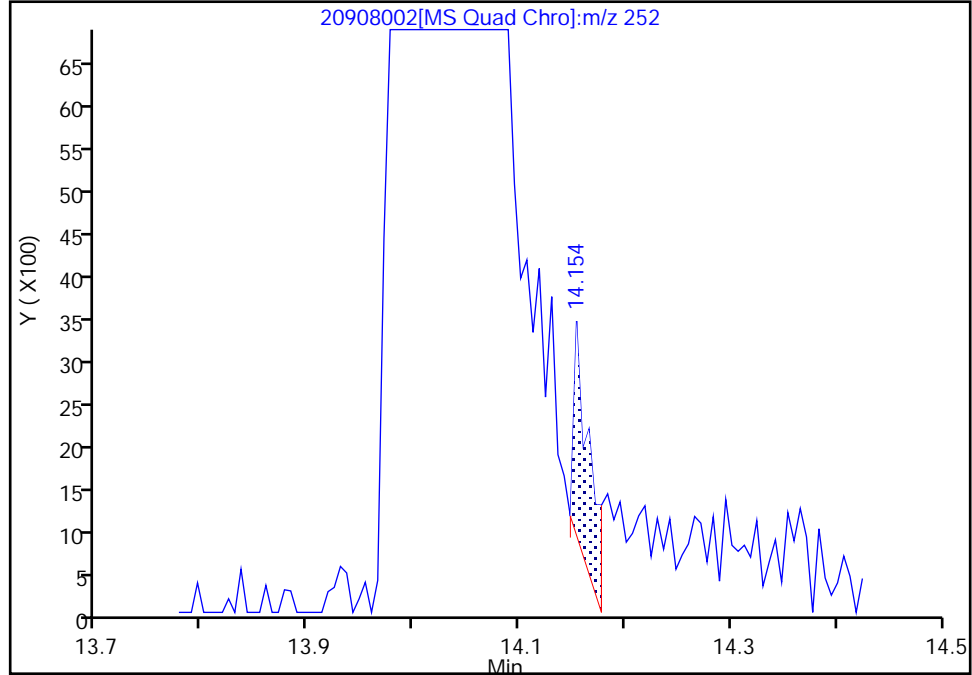
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Injection Date: 08-Sep-2022 13:06:20 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~mm~~ ID) Detector: MS SCAN

186 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

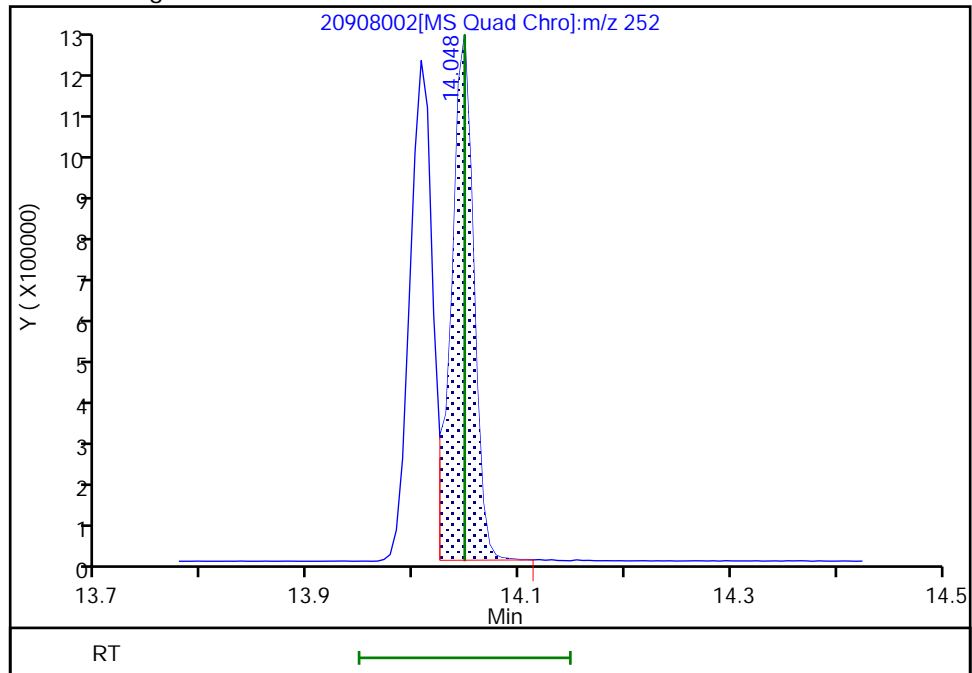
RT: 14.15
Area: 2724
Amount: 0.014332
Amount Units: ng/ul

Processing Integration Results



RT: 14.05
Area: 1906041
Amount: 10.028509
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 08-Sep-2022 13:29:15
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins Canton

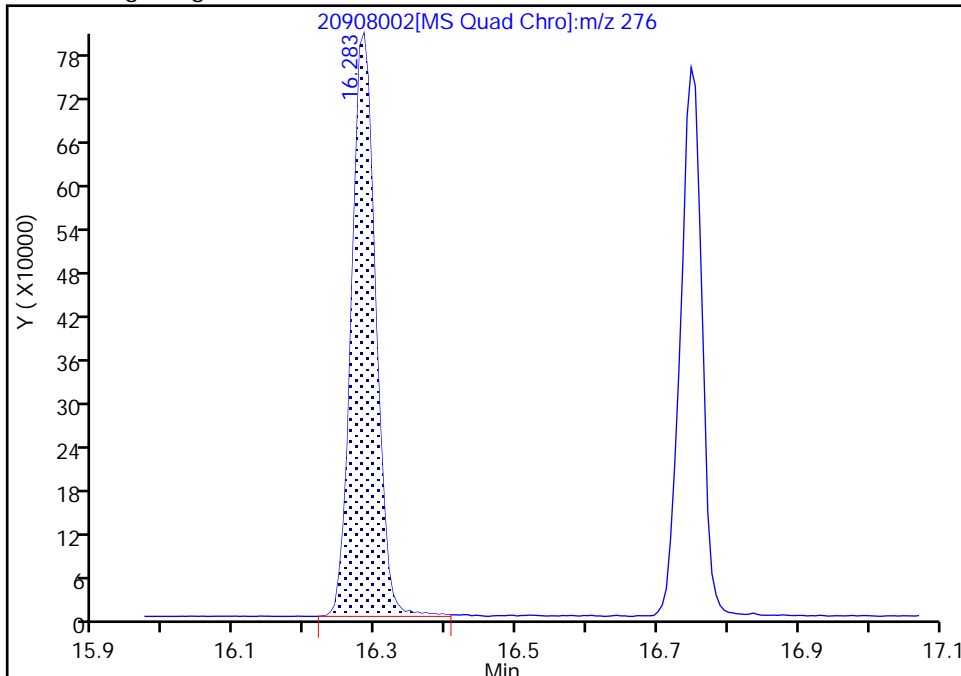
Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908002.D
Injection Date: 08-Sep-2022 13:06:20 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 um) Detector: MS SCAN

193 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

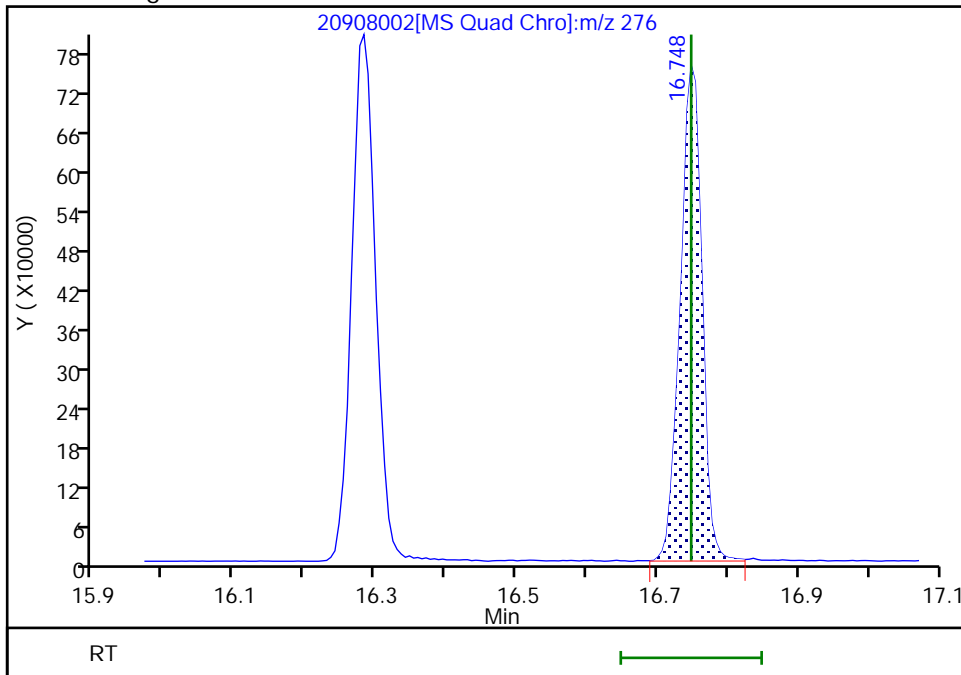
RT: 16.28
Area: 1918446
Amount: 12.431507
Amount Units: ng/ul

Processing Integration Results



RT: 16.75
Area: 1618954
Amount: 10.490802
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 08-Sep-2022 13:29:44
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542054/2 Calibration Date: 09/09/2022 11:56
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20909002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5313	0.5359		10.1	10.0	0.9	20.0
N-Nitrosodimethylamine	Ave	0.7047	0.6769		9.61	10.0	-3.9	20.0
Pyridine	Ave	1.217	1.030		16.9	20.0	-15.4	20.0
Benzaldehyde	Ave	1.075	1.022	0.0100	19.0	20.0	-5.0	20.0
Phenol	Ave	1.611	1.966	0.8000	12.2	10.0	22.0*	20.0
Aniline	Ave	1.906	2.131		11.2	10.0	11.8	20.0
Bis(2-chloroethyl)ether	Ave	1.304	1.450	0.7000	11.1	10.0	11.2	20.0
2-Chlorophenol	Ave	1.297	1.332	0.8000	10.3	10.0	2.7	20.0
n-Decane	Ave	1.263	1.298		10.3	10.0	2.8	20.0
1,3-Dichlorobenzene	Ave	1.444	1.555		10.8	10.0	7.6	20.0
1,4-Dichlorobenzene	Ave	1.446	1.553		10.7	10.0	7.4	20.0
Benzyl alcohol	Ave	0.8408	0.9062		10.8	10.0	7.8	20.0
1,2-Dichlorobenzene	Ave	1.367	1.522		11.1	10.0	11.3	20.0
2-Methylphenol	Ave	1.190	1.390	0.7000	11.7	10.0	16.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.255	1.455		11.6	10.0	15.9	20.0
Indene	Ave	2.235	2.339		20.9	20.0	4.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.8215	1.016	0.5000	12.4	10.0	23.6*	20.0
3 & 4 Methylphenol	Ave	1.246	1.425		11.4	10.0	14.4	20.0
Acetophenone	Ave	1.794	1.930	0.0100	10.8	10.0	7.5	20.0
Hexachloroethane	Ave	0.5554	0.5716	0.3000	10.3	10.0	2.9	20.0
Nitrobenzene	Ave	0.3633	0.3500	0.2000	9.63	10.0	-3.7	20.0
Isophorone	Ave	0.6861	0.7393	0.4000	10.8	10.0	7.8	20.0
2-Nitrophenol	Ave	0.1740	0.2070	0.1000	11.9	10.0	18.9	20.0
2,4-Dimethylphenol	Ave	0.3693	0.3929	0.2000	10.6	10.0	6.4	20.0
Benzoic acid	Qua		0.1859		18.4	20.0	-8.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.4060	0.4408	0.3000	10.9	10.0	8.6	20.0
2,4-Dichlorophenol	Ave	0.2915	0.3220	0.2000	11.0	10.0	10.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3189	0.3329		10.4	10.0	4.4	20.0
Naphthalene	Ave	1.014	1.119	0.7000	11.0	10.0	10.4	20.0
4-Chloroaniline	Ave	0.4105	0.4675	0.0100	11.4	10.0	13.9	20.0
2,6-Dichlorophenol	Ave	0.2873	0.3157		11.0	10.0	9.9	20.0
Hexachlorobutadiene	Ave	0.2006	0.2051	0.0100	10.2	10.0	2.2	20.0
Caprolactam	Ave	0.1043	0.1175	0.0100	22.5	20.0	12.6	20.0
4-Chloro-3-methylphenol	Ave	0.3099	0.3618	0.2000	11.7	10.0	16.7	20.0
2-Methylnaphthalene	Ave	0.7100	0.7382	0.4000	10.4	10.0	4.0	20.0
1-Methylnaphthalene	Ave	0.6524	0.6954		10.7	10.0	6.6	20.0
Hexachlorocyclopentadiene	Ave	0.3404	0.3038	0.0500	8.93	10.0	-10.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5671	0.5723	0.0100	10.1	10.0	0.9	20.0
2,4,6-Trichlorophenol	Ave	0.3750	0.4260	0.2000	11.4	10.0	13.6	20.0
2,4,5-Trichlorophenol	Ave	0.3895	0.4358	0.2000	11.2	10.0	11.9	20.0
1,1'-Biphenyl	Ave	1.420	1.562	0.0100	11.0	10.0	10.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542054/2 Calibration Date: 09/09/2022 11:56
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20909002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.093	1.040	0.8000	9.51	10.0	-4.9	20.0
2-Nitroaniline	Lin1		0.3730	0.0100	11.8	10.0	17.6	20.0
Dimethyl phthalate	Ave	1.232	1.342	0.0100	10.9	10.0	9.0	20.0
1,3-Dinitrobenzene	Lin1		0.2205		11.1	10.0	10.9	20.0
2,6-Dinitrotoluene	Lin1		0.3217		11.1	10.0	11.3	20.0
Acenaphthylene	Ave	1.715	1.959	0.9000	11.4	10.0	14.2	20.0
3-Nitroaniline	Ave	0.2234	0.3301	0.0100	14.8	10.0	47.7*	20.0
2,4-Dinitrophenol	Lin1		0.1837	0.0100	20.1	20.0	0.3	20.0
Acenaphthene	Ave	1.069	1.181	0.9000	11.0	10.0	10.4	20.0
4-Nitrophenol	Ave	0.1938	0.2146		22.2	20.0	10.8	20.0
2,4-Dinitrotoluene	Lin1		0.4085	0.2000	10.9	10.0	8.9	20.0
Dibenzofuran	Ave	1.579	1.721	0.8000	10.9	10.0	9.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3126	0.3270	0.0100	10.5	10.0	4.6	20.0
Diethyl phthalate	Ave	1.207	1.330	0.0100	11.0	10.0	10.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6435	0.7008	0.4000	10.9	10.0	8.9	20.0
4-Nitroaniline	Ave	0.2289	0.3072	0.0100	13.4	10.0	34.2*	20.0
Fluorene	Ave	1.262	1.411	0.9000	11.2	10.0	11.8	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1431	0.0100	22.2	20.0	10.9	20.0
Diphenylamine	Ave	0.5959	0.7022		10.0	8.50	17.8	20.0
N-Nitrosodiphenylamine	Ave	0.5065	0.5969	0.0100	11.8	10.0	17.8	20.0
Azobenzene	Ave	0.6902	0.7733		11.2	10.0	12.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2025	0.2202	0.1000	10.9	10.0	8.7	20.0
Hexachlorobenzene	Ave	0.2169	0.2177	0.1000	10.0	10.0	0.4	20.0
Atrazine	Ave	0.2034	0.2116	0.0100	20.8	20.0	4.0	20.0
n-Octadecane	Ave	0.3618	0.4840		13.4	10.0	33.8*	20.0
Pentachlorophenol	Lin1		0.1244	0.0500	17.6	20.0	-12.2	20.0
Phenanthrene	Ave	1.017	1.160	0.7000	11.4	10.0	14.1	20.0
Anthracene	Ave	0.9890	1.180	0.7000	11.9	10.0	19.3	20.0
Carbazole	Qua		1.083	0.0100	21.1	10.0	111.0*	20.0
Di-n-butyl phthalate	Ave	1.128	1.372	0.0100	12.2	10.0	21.6*	20.0
Fluoranthene	Ave	1.122	1.320	0.6000	11.8	10.0	17.7	20.0
Benidine	Qua		0.4135		37.7	20.0	88.3*	20.0
Pyrene	Ave	1.280	1.348	0.6000	10.5	10.0	5.3	20.0
Butyl benzyl phthalate	Ave	0.5363	0.6045	0.0100	11.3	10.0	12.7	20.0
3,3'-Dichlorobenzidine	Ave	0.1925	0.3376	0.0100	35.1	20.0	75.4*	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7625	0.9826	0.0100	12.9	10.0	28.9*	20.0
Benzo[a]anthracene	Ave	1.200	1.368	0.8000	11.4	10.0	14.0	20.0
Chrysene	Ave	1.185	1.301	0.7000	11.0	10.0	9.8	20.0
Di-n-octyl phthalate	Lin1		1.679	0.0100	11.4	10.0	14.4	20.0
Benzo[b]fluoranthene	Ave	1.202	1.398	0.7000	11.6	10.0	16.3	20.0
Benzo[k]fluoranthene	Ave	1.298	1.363	0.7000	10.5	10.0	5.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542054/2 Calibration Date: 09/09/2022 11:56
 Instrument ID: A4AG3 Calib Start Date: 08/19/2022 11:04
 GC Column: RXI-5SILMS/IIG ID: 0.25 (mm) Calib End Date: 08/19/2022 14:09
 Lab File ID: 20909002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	1.144	1.278	0.7000	11.2	10.0	11.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.152	1.352	0.5000	11.7	10.0	17.4	20.0
Dibenz(a,h)anthracene	Ave	0.997	1.161	0.4000	11.6	10.0	16.4	20.0
Benzo[g,h,i]perylene	Ave	1.054	1.232	0.5000	11.7	10.0	16.9	20.0
2-Fluorophenol (Surr)	Ave	1.192	1.041		8.73	10.0	-12.7	20.0
Phenol-d5 (Surr)	Ave	1.473	1.590		10.8	10.0	8.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3722	0.3343		8.98	10.0	-10.2	20.0
2-Fluorobiphenyl (Surr)	Ave	1.227	1.405		11.4	10.0	14.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1572	0.1604		10.2	10.0	2.0	20.0
Terphenyl-d14 (Surr)	Ave	0.9660	1.025		10.6	10.0	6.1	20.0

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909002.D
 Lims ID: ccv Ist1
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-Sep-2022 11:56:37 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-002
 Misc. Info.: CCV LST1
 Operator ID: Instrument ID: A4AG3
 Sublist: chrom-8270 AG3*sub4
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 09-Sep-2022 13:22:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	95	195490	4.00	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	100	715379	4.00	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	92	414760	4.00	4.00	
* 4 Phenanthrene-d10	188	9.860	9.860	0.000	96	741621	4.00	4.00	
* 5 Chrysene-d12	240	12.413	12.413	0.000	98	624182	4.00	4.00	
* 6 Perylene-d12	264	14.489	14.489	0.000	98	615961	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.754	4.754	0.000	93	508525	10.0	8.73	
\$ 8 Phenol-d5	99	5.666	5.666	0.000	75	777162	10.0	10.8	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	89	597924	10.0	8.98	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	1456391	10.0	11.4	
\$ 11 2,4,6-Tribromophenol	330	9.272	9.272	0.000	92	166361	10.0	10.2	
\$ 12 Terphenyl-d14	244	11.207	11.207	0.000	96	1599652	10.0	10.6	
13 1,4-Dioxane	88	2.272	2.272	0.000	95	261917	10.0	10.1	
14 N-Nitrosodimethylamine	74	2.790	2.790	0.000	87	330824	10.0	9.61	
15 Pyridine	79	2.849	2.849	0.000	96	1006856	20.0	16.9	
30 Benzaldehyde	77	5.601	5.601	0.000	93	998515	20.0	19.0	
31 Phenol	94	5.678	5.678	0.000	99	960969	10.0	12.2	
32 Aniline	93	5.701	5.701	0.000	98	1041679	10.0	11.2	
33 Bis(2-chloroethyl)ether	93	5.749	5.749	0.000	99	708482	10.0	11.1	
36 2-Chlorophenol	128	5.819	5.819	0.000	96	651093	10.0	10.3	
37 n-Decane	57	5.854	5.854	0.000	87	634374	10.0	10.3	
39 1,3-Dichlorobenzene	146	5.954	5.954	0.000	97	759796	10.0	10.8	
40 1,4-Dichlorobenzene	146	6.019	6.019	0.000	91	759079	10.0	10.7	
41 Benzyl alcohol	108	6.119	6.119	0.000	92	442868	10.0	10.8	
44 1,2-Dichlorobenzene	146	6.160	6.160	0.000	96	743756	10.0	11.1	
45 2-Methylphenol	108	6.213	6.213	0.000	96	679440	10.0	11.7	
46 2,2'-oxybis[1-chloropropane]	45	6.231	6.231	0.000	90	710924	10.0	11.6	
47 Indene	115	6.237	6.237	0.000	90	2286537	20.0	20.9	
50 N-Nitrosodi-n-propylamine	70	6.343	6.343	0.000	85	496447	10.0	12.4	
48 3 & 4 Methylphenol	108	6.349	6.349	0.000	85	696325	10.0	11.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
52 Acetophenone	105	6.349	6.349	0.000	88	943183	10.0	10.8	
54 Hexachloroethane	117	6.460	6.460	0.000	94	279341	10.0	10.3	
55 Nitrobenzene	77	6.501	6.501	0.000	88	625966	10.0	9.63	
57 Isophorone	82	6.707	6.707	0.000	99	1322257	10.0	10.8	
59 2-Nitrophenol	139	6.784	6.784	0.000	97	370151	10.0	11.9	
58 2,4-Dimethylphenol	107	6.801	6.801	0.000	94	702765	10.0	10.6	
63 Benzoic acid	105	6.866	6.866	0.000	88	665020	20.0	18.4	M
64 Bis(2-chloroethoxy)methane	93	6.872	6.872	0.000	99	788388	10.0	10.9	
66 2,4-Dichlorophenol	162	6.990	6.990	0.000	96	575864	10.0	11.0	
68 1,2,4-Trichlorobenzene	180	7.066	7.066	0.000	93	595386	10.0	10.4	
69 Naphthalene	128	7.137	7.137	0.000	97	2001381	10.0	11.0	
70 4-Chloroaniline	127	7.166	7.166	0.000	97	836148	10.0	11.4	
71 2,6-Dichlorophenol	162	7.184	7.184	0.000	98	564567	10.0	11.0	
73 Hexachlorobutadiene	225	7.243	7.243	0.000	95	366755	10.0	10.2	
78 Caprolactam	113	7.454	7.454	0.000	83	420235	20.0	22.5	
80 4-Chloro-3-methylphenol	107	7.572	7.572	0.000	97	646995	10.0	11.7	
82 2-Methylnaphthalene	142	7.719	7.719	0.000	93	1320225	10.0	10.4	
83 1-Methylnaphthalene	142	7.807	7.807	0.000	93	1243730	10.0	10.7	
85 Hexachlorocyclopentadiene	237	7.860	7.860	0.000	96	315045	10.0	8.93	
86 1,2,4,5-Tetrachlorobenzene	216	7.866	7.866	0.000	99	593431	10.0	10.1	
88 2,4,6-Trichlorophenol	196	7.954	7.954	0.000	93	441684	10.0	11.4	
89 2,4,5-Trichlorophenol	196	7.990	7.990	0.000	95	451886	10.0	11.2	
92 1,1'-Biphenyl	154	8.107	8.107	0.000	95	1619511	10.0	11.0	
96 2-Chloronaphthalene	162	8.137	8.137	0.000	97	1078064	10.0	9.51	
99 2-Nitroaniline	65	8.201	8.201	0.000	85	386750	10.0	11.8	
102 Dimethyl phthalate	163	8.337	8.337	0.000	99	1391564	10.0	10.9	
103 1,3-Dinitrobenzene	168	8.372	8.372	0.000	85	228680	10.0	11.1	
104 2,6-Dinitrotoluene	165	8.395	8.395	0.000	95	333593	10.0	11.1	
105 Acenaphthylene	152	8.490	8.490	0.000	98	2031049	10.0	11.4	
106 3-Nitroaniline	138	8.548	8.548	0.000	96	342244	10.0	14.8	
108 2,4-Dinitrophenol	184	8.631	8.631	0.000	83	380894	20.0	20.1	
109 Acenaphthene	153	8.637	8.637	0.000	93	1224174	10.0	11.0	
110 4-Nitrophenol	109	8.678	8.678	0.000	93	445129	20.0	22.2	
111 2,4-Dinitrotoluene	165	8.737	8.737	0.000	92	423608	10.0	10.9	
113 Dibenzofuran	168	8.778	8.778	0.000	97	1784234	10.0	10.9	
116 2,3,4,6-Tetrachlorophenol	232	8.878	8.878	0.000	73	339016	10.0	10.5	
118 Diethyl phthalate	149	8.925	8.925	0.000	98	1378963	10.0	11.0	
117 Hexadecane	57	8.931	8.931	0.000	96	819806	NC	NC	
122 4-Chlorophenyl phenyl ether	204	9.042	9.042	0.000	95	726609	10.0	10.9	
125 4-Nitroaniline	138	9.060	9.060	0.000	85	318553	10.0	13.4	
126 Fluorene	166	9.066	9.066	0.000	95	1463281	10.0	11.2	
127 4,6-Dinitro-2-methylphenol	198	9.090	9.090	0.000	86	530450	20.0	22.2	
129 Diphenylamine	169	9.142	9.142	0.000	96	1106639	8.50	10.0	
128 N-Nitrosodiphenylamine	169	9.142	9.142	0.000	99	1106639	10.0	11.8	
131 1,2-Diphenylhydrazine	77	9.178	9.178	0.000	92	1433971	10.0	11.2	
130 Azobenzene	77	9.178	9.178	0.000	100	1433701	10.0	11.2	
138 4-Bromophenyl phenyl ether	248	9.460	9.460	0.000	67	408276	10.0	10.9	
141 Hexachlorobenzene	284	9.542	9.542	0.000	94	403687	10.0	10.0	
140 Atrazine	200	9.566	9.566	0.000	94	784562	20.0	20.8	
145 Pentachlorophenol	266	9.701	9.701	0.000	91	461409	20.0	17.6	
142 n-Octadecane	57	9.695	9.695	0.000	94	897439	10.0	13.4	
149 Phenanthrene	178	9.878	9.878	0.000	97	2150530	10.0	11.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
150 Anthracene	178	9.925	9.925	0.000	97	2188131	10.0	11.9	
152 Carbazole	167	10.042	10.042	0.000	96	2008608	10.0	21.1	
154 Di-n-butyl phthalate	149	10.289	10.289	0.000	100	2543387	10.0	12.2	
160 Fluoranthene	202	10.889	10.889	0.000	97	2447963	10.0	11.8	
161 Benzidine	184	10.978	10.978	0.000	99	1290351	20.0	37.7	
163 Pyrene	202	11.101	11.101	0.000	98	2103579	10.0	10.5	
171 Butyl benzyl phthalate	149	11.672	11.672	0.000	98	943254	10.0	11.3	
176 Bis(2-ethylhexyl) phthalate	149	12.336	12.336	0.000	97	1533320	10.0	12.9	
178 3,3'-Dichlorobenzidine	252	12.336	12.336	0.000	67	1053701	20.0	35.1	
179 Benzo[a]anthracene	228	12.401	12.401	0.000	98	2134471	10.0	11.4	
180 Chrysene	228	12.448	12.448	0.000	97	2030517	10.0	11.0	
183 Di-n-octyl phthalate	149	13.225	13.225	0.000	100	2585680	10.0	11.4	
185 Benzo[b]fluoranthene	252	13.907	13.907	0.000	97	2152547	10.0	11.6	
186 Benzo[k]fluoranthene	252	13.948	13.948	0.000	99	2098776	10.0	10.5	
187 Benzo[a]pyrene	252	14.407	14.407	0.000	78	1968120	10.0	11.2	
191 Indeno[1,2,3-cd]pyrene	276	16.148	16.148	0.000	97	2082469	10.0	11.7	
192 Dibenz(a,h)anthracene	278	16.172	16.172	0.000	91	1787450	10.0	11.6	
193 Benzo[g,h,i]perylene	276	16.607	16.607	0.000	97	1897544	10.0	11.7	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SMLIST1 L6 W_00019

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909002.D

Injection Date: 09-Sep-2022 11:56:37

Instrument ID: A4AG3

Operator ID:

Lims ID: ccv Ist1

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

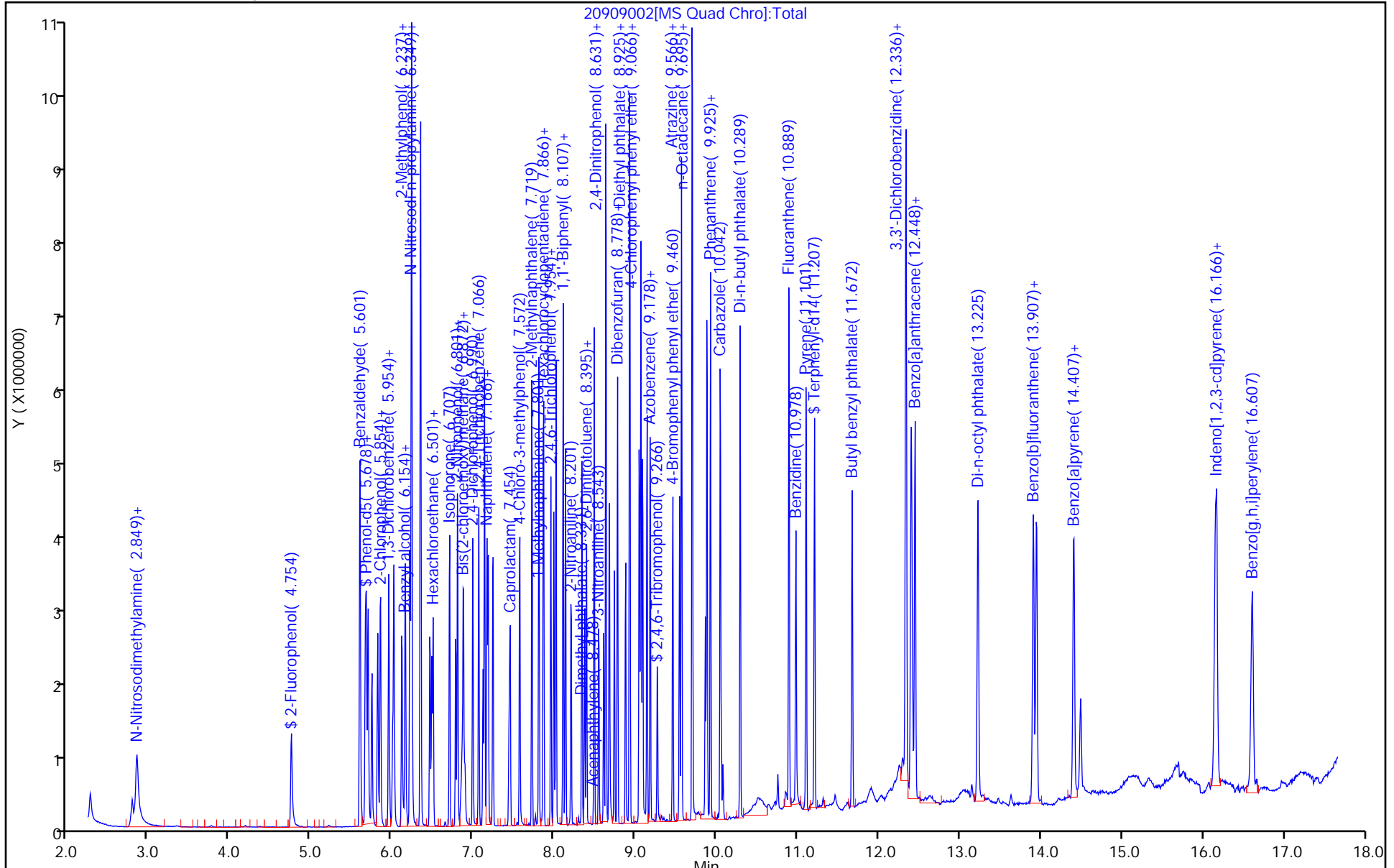
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

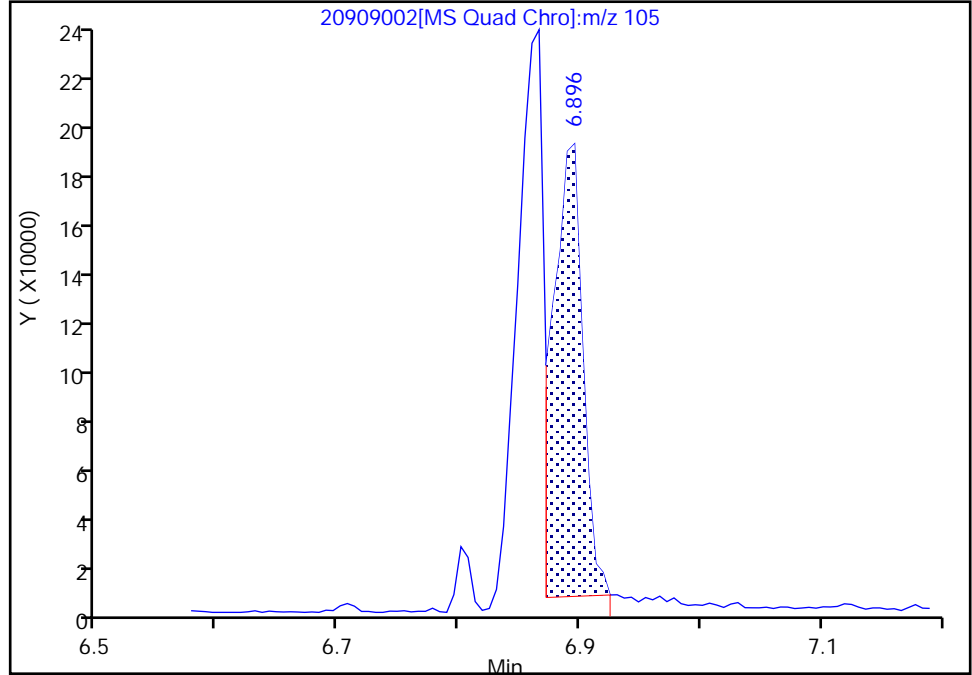
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Injection Date: 09-Sep-2022 11:56:37 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 ~~um~~ Detector MS SCAN

63 Benzoic acid, CAS: 65-85-0

Signal: 1

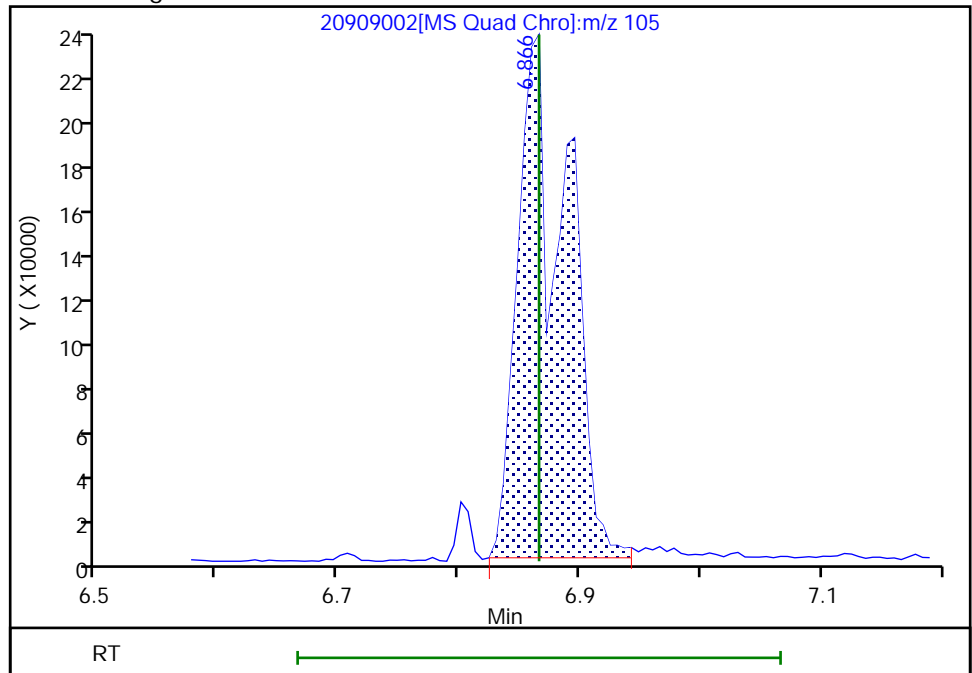
RT: 6.90
Area: 318953
Amount: 9.983647
Amount Units: ng/ul

Processing Integration Results



RT: 6.87
Area: 665020
Amount: 18.384777
Amount Units: ng/ul

Manual Integration Results



Reviewer: KDZ4, 09-Sep-2022 12:21:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins Canton

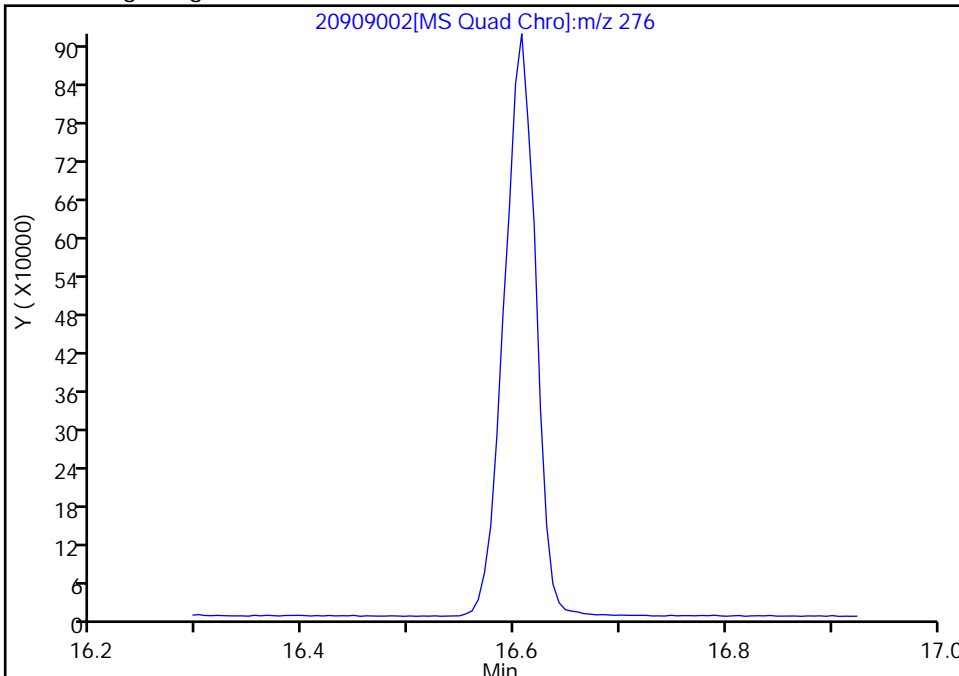
Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909002.D
Injection Date: 09-Sep-2022 11:56:37 Instrument ID: A4AG3
Lims ID: ccv Ist1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL
Column: RXI-5SIL MS w/Integra-Guard (0.25 mm ID) Detector: MS SCAN

193 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

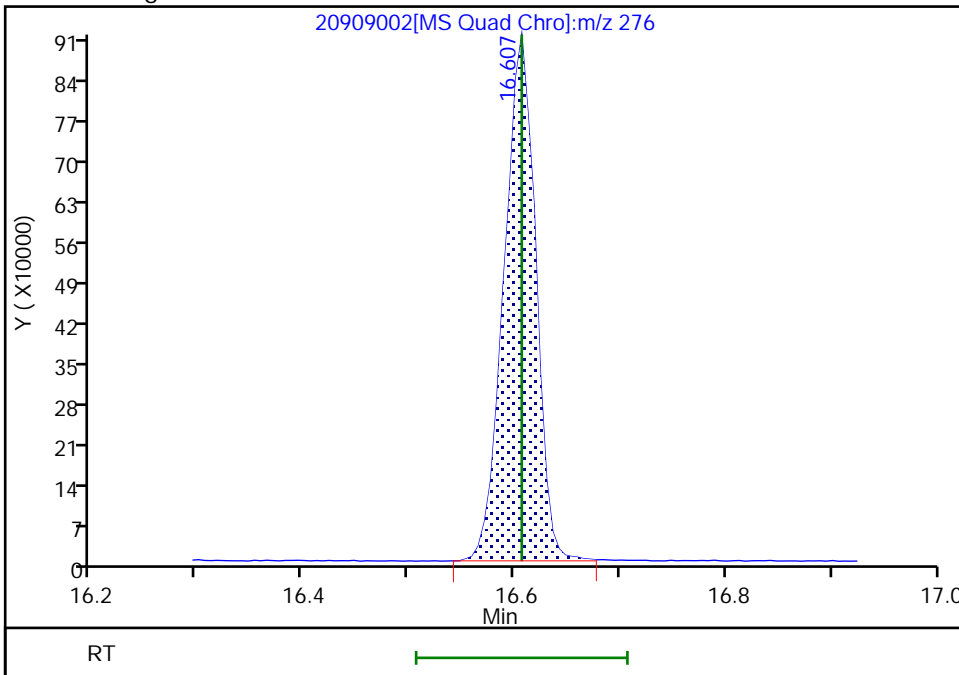
Not Detected
Expected RT: 16.61

Processing Integration Results



Manual Integration Results

RT: 16.61
Area: 1897544
Amount: 11.689804
Amount Units: ng/ul



Reviewer: KDZ4, 09-Sep-2022 12:22:47
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 19-Aug-2022 10:42:02 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121451-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 22-Aug-2022 13:06:21 Calib Date: 19-Aug-2022 21:05:42
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819028.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1604

First Level Reviewer: KDZ4 Date: 19-Aug-2022 11:12:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
145 Pentachlorophenol	266	9.937	9.937	0.000	92	943026	NR	NR	
161 Benzidine	184	11.248	11.248	0.000	99	1909207	NR	NR	
165 4,4'-DDE	246	11.437	11.437	0.000	90	4424		NR	
169 4,4'-DDD	235	11.789	11.789	0.000	98	43877		NR	
173 4,4'-DDT	235	12.142	12.142	0.000	98	2406438	NR	NR	
213 DFTPP									

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

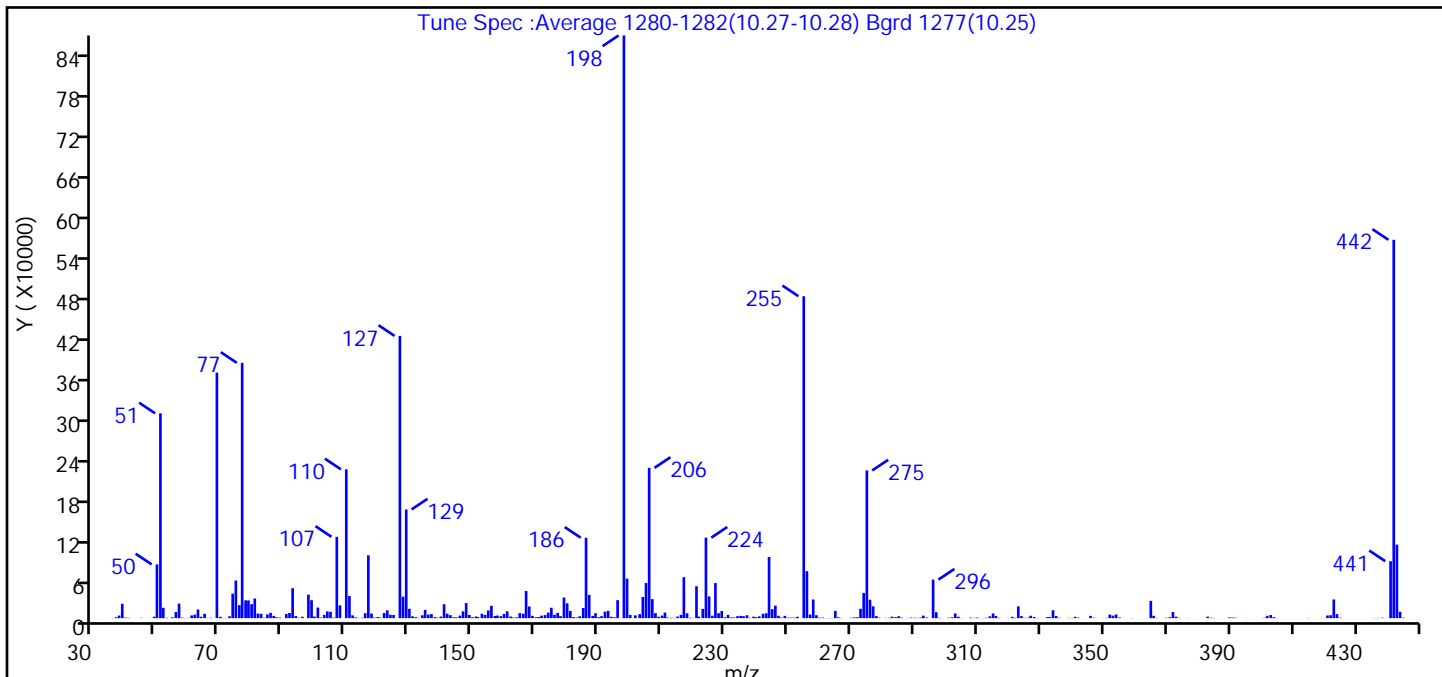
Reagents:

SMDFTPPW_00024 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D
 Injection Date: 19-Aug-2022 10:42:02 Instrument ID: A4AG3
 Lims ID: dftpp
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Tune Method: DFTPP Method CLP OLM4.2

213 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	35.2
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	42.1
70	Less than 2.0 percent of mass 69	0.2 (0.6)
127	25.0 - 75.0 percent of mass 198	48.4
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.8
275	10.0 - 30.0 percent of mass 198	25.3
365	Greater than 0.75 percent of mass 198	3.0
441	Present but less than mass 443	9.8 (77.5)
442	40.0 - 110.0 percent of mass 198	64.9
443	15.0 - 24.0 percent of mass 442	12.6 (19.4)

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D\8270 AG3.rsl\spectra.d
 Injection Date: 19-Aug-2022 10:42:02
 Spectrum: Tune Spec :Average 1280-1282(10.27-10.28) Bgrd 1277(10.25)
 Base Peak: 198.00
 Minimum % Base Peak: 0
 Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	60	130.00	13938	217.00	61168	309.00	402
36.00	230	131.00	2751	218.00	7181	310.00	826
37.00	1406	132.00	1492	219.00	751	311.00	130
38.00	3877	133.00	503	220.00	249	312.00	182
39.00	21424	134.00	4276	221.00	47616	313.00	618
40.00	838	135.00	12358	222.00	2281	314.00	2672
41.00	464	136.00	5226	223.00	13786	315.00	7034
45.00	449	137.00	6040	224.00	120088	316.00	3234
48.00	132	138.00	1525	225.00	32328	317.00	541
49.00	2137	139.00	748	226.00	3593	319.00	56
50.00	80208	140.00	2353	227.00	52368	320.00	256
51.00	305600	141.00	20800	228.00	7383	321.00	1904
52.00	15419	142.00	6685	229.00	10580	322.00	548
53.00	607	143.00	4433	230.00	1293	323.00	17624
55.00	1315	144.00	1275	231.00	4930	324.00	3032
56.00	9212	145.00	1140	232.00	1034	325.00	474
57.00	21720	146.00	3712	233.00	1047	326.00	565
58.00	795	147.00	10175	234.00	2959	327.00	3568
59.00	301	148.00	22464	235.00	3355	328.00	1828
60.00	365	149.00	4808	236.00	2937	329.00	417
61.00	4035	150.00	1415	237.00	4322	331.00	86
62.00	5193	151.00	2499	238.00	504	332.00	1365
63.00	12831	152.00	1637	239.00	2211	333.00	1662
64.00	2081	153.00	6621	240.00	1483	334.00	11773
65.00	6493	154.00	4868	241.00	2717	335.00	3131
66.00	335	155.00	11452	242.00	6517	336.00	488
67.00	531	156.00	18432	243.00	7222	339.00	401
69.00	366400	157.00	3215	244.00	91216	340.00	316
70.00	2030	158.00	3875	245.00	13310	341.00	2029
71.00	171	159.00	2932	246.00	18656	342.00	722
72.00	296	160.00	6297	247.00	3523	346.00	3416
73.00	2754	161.00	10166	248.00	841	347.00	632
74.00	36576	162.00	2400	249.00	3367	348.00	108

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D\8270 AG3.rsl\spectra.d

Injection Date: 19-Aug-2022 10:42:02

Spectrum: Tune Spec :Average 1280-1282(10.27-10.28) Bgrd 1277(10.25)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	56208	163.00	862	250.00	726	350.00	138
76.00	19384	164.00	1259	251.00	749	351.00	436
77.00	380928	165.00	7465	252.00	720	352.00	5308
78.00	26600	166.00	6497	253.00	2025	353.00	3700
79.00	26440	167.00	40600	255.00	480320	354.00	5533
80.00	20888	168.00	17464	256.00	70064	355.00	1012
81.00	29312	169.00	3499	257.00	5336	358.00	68
82.00	6753	170.00	1377	258.00	27824	359.00	302
83.00	6570	171.00	1681	259.00	4381	360.00	50
84.00	600	172.00	3729	260.00	690	363.00	72
85.00	5496	173.00	4516	261.00	843	365.00	25808
86.00	7829	174.00	8163	262.00	128	366.00	3514
87.00	3389	175.00	15475	263.00	186	367.00	303
88.00	1258	176.00	5006	264.00	364	370.00	564
89.00	815	177.00	7930	265.00	10849	371.00	1403
90.00	63	178.00	2890	266.00	1354	372.00	9113
91.00	6288	179.00	30744	267.00	343	373.00	2228
92.00	7656	180.00	22120	268.00	19	374.00	384
93.00	44672	181.00	10716	270.00	590	377.00	152
94.00	3092	182.00	1647	271.00	1158	382.00	62
95.00	609	183.00	963	272.00	1377	383.00	2191
96.00	2049	184.00	2751	273.00	13955	384.00	608
98.00	34976	185.00	15069	274.00	37568	385.00	263
99.00	26848	186.00	119968	275.00	220352	390.00	96
100.00	2476	187.00	34736	276.00	27496	390.00	1091
101.00	15762	188.00	3288	277.00	17688	391.00	900
102.00	808	189.00	7381	278.00	3072	392.00	603
103.00	4919	190.00	1422	279.00	717	395.00	180
104.00	10069	191.00	2977	281.00	314	401.00	527
105.00	9381	192.00	9716	282.00	542	402.00	3467
106.00	798	193.00	10835	283.00	2207	403.00	4635
107.00	121320	194.00	2085	284.00	1465	404.00	1552
108.00	19048	195.00	1284	285.00	2836	405.00	200
110.00	222016	196.00	26864	286.00	675	415.00	319

Report Date: 22-Aug-2022 13:06:21

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D\8270 AG3.rsl\spectra.d

Injection Date: 19-Aug-2022 10:42:02

Spectrum: Tune Spec :Average 1280-1282(10.27-10.28) Bgrd 1277(10.25)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	33096	198.00	869376	288.00	162	416.00	75
112.00	4123	199.00	58896	289.00	783	419.00	74
113.00	1237	200.00	4768	290.00	595	420.00	167
114.00	306	202.00	4166	291.00	437	421.00	3948
115.00	605	203.00	5899	292.00	896	422.00	4340
116.00	7398	204.00	31648	293.00	3739	423.00	27896
117.00	93728	205.00	52520	294.00	983	424.00	5982
118.00	6860	206.00	224256	296.00	57512	425.00	710
119.00	813	207.00	28360	297.00	8817	435.00	154
120.00	1708	208.00	7477	298.00	516	436.00	259
121.00	732	209.00	2146	299.00	115	437.00	330
122.00	7738	210.00	3792	301.00	649	438.00	691
123.00	11643	211.00	8396	302.00	1284	439.00	121
124.00	5036	212.00	937	303.00	6968	441.00	84952
125.00	4741	213.00	634	304.00	2123	442.00	564480
127.00	421120	214.00	341	305.00	273	443.00	109648
128.00	32096	215.00	2397	307.00	97	444.00	9494
129.00	162176	216.00	4893	308.00	818	445.00	725

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D

Injection Date: 19-Aug-2022 10:42:02

Instrument ID: A4AG3

Operator ID:

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

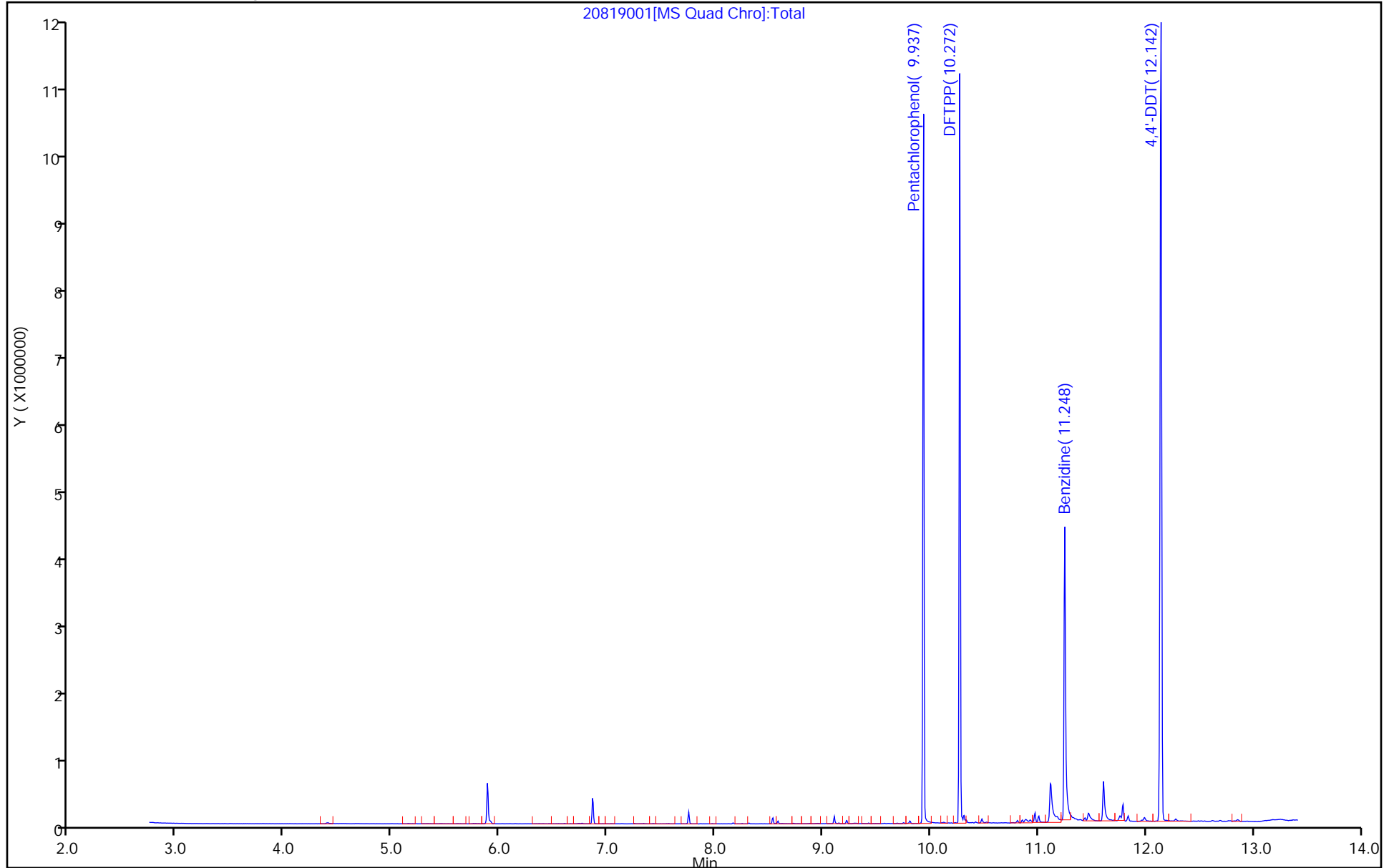
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D
Injection Date: 19-Aug-2022 10:42:02 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

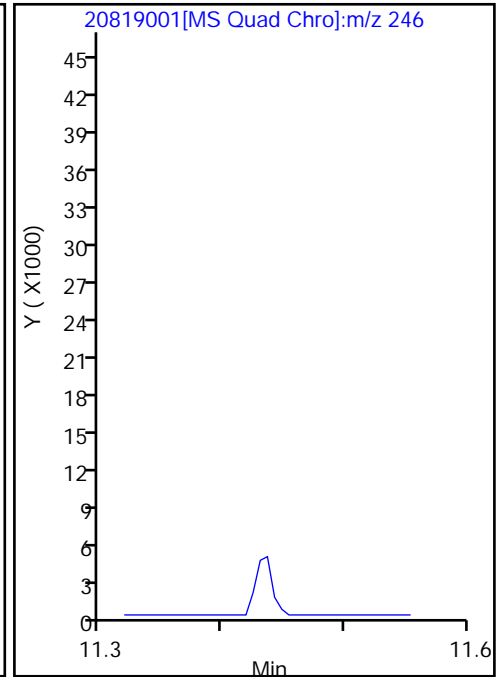
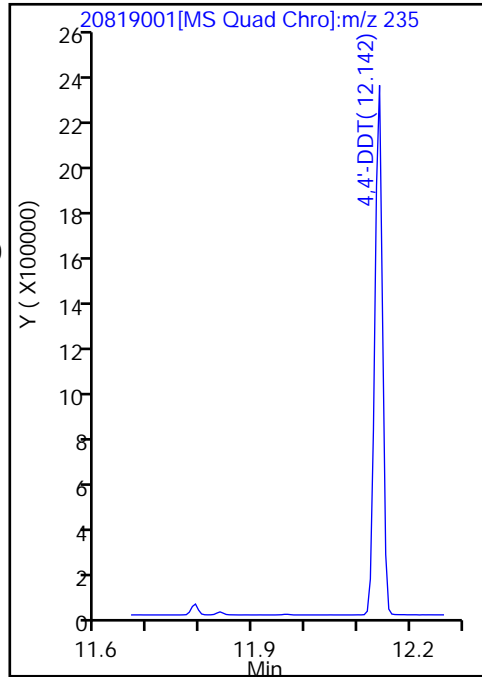
173 4,4'-DDT, Detector: MS Quad

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

173 4,4'-DDT, Area = 2406438
169 4,4'-DDD, Area = 43877
165 4,4'-DDE, Area = 4424

%Breakdown: 1.97%, <= 20.00%
Passed



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D
Injection Date: 19-Aug-2022 10:42:02 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270 AG3

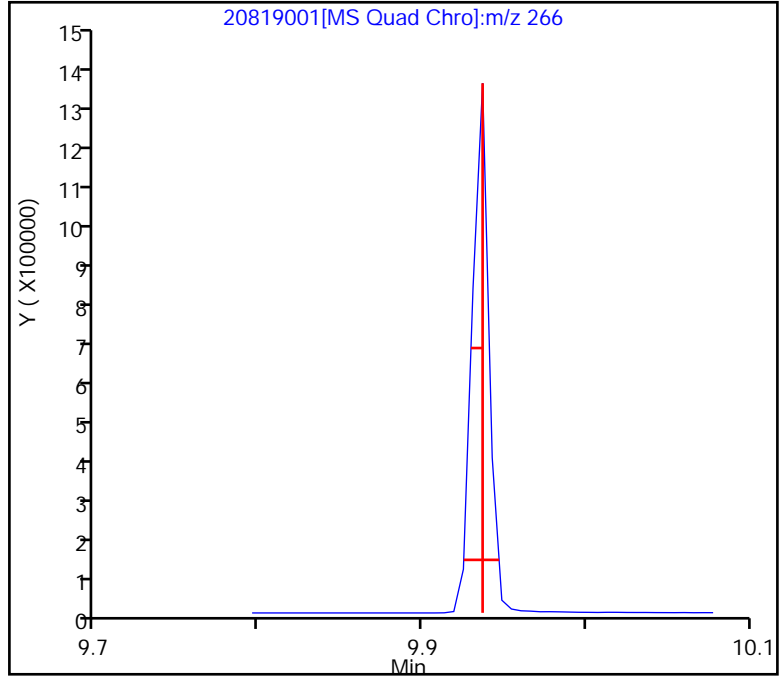
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSS 8270D ICAL

145 Pentachlorophenol, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.83, Max. Tailing <= 2.00
Passed



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220819-121451.b\20819001.D
Injection Date: 19-Aug-2022 10:42:02 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270 AG3

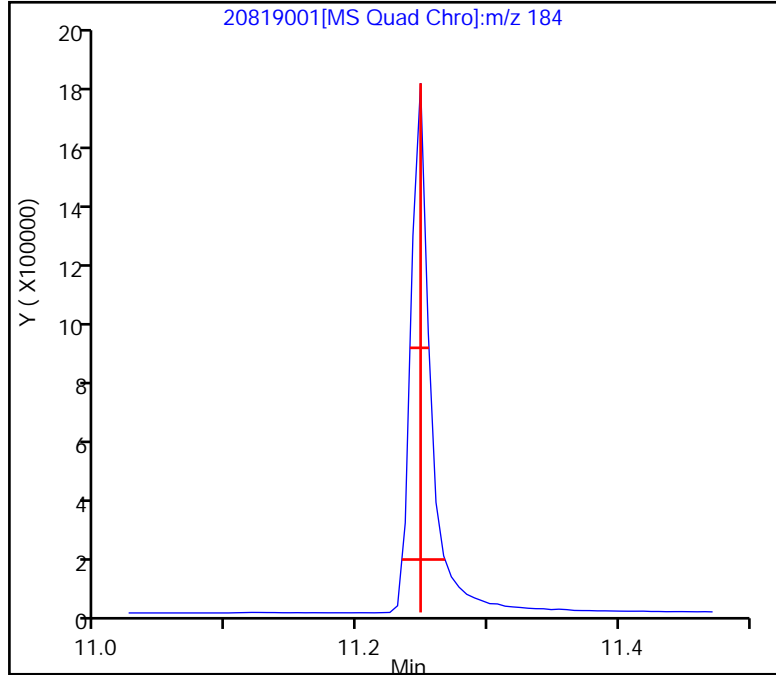
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSS 8270D ICAL

161 Benzidine, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.36, Max. Tailing <= 2.00
Passed



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 08-Sep-2022 12:44:03 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:33 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4 Date: 08-Sep-2022 13:04:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
145 Pentachlorophenol	266	9.754	9.754	0.000	90	351930	NR	NR	
161 Benzidine	184	11.036	11.036	0.000	99	1705085	NR	NR	
165 4,4'-DDE	246	11.213	11.213	0.000	83	3238		NR	
169 4,4'-DDD	235	11.548	11.548	0.000	95	27028		NR	a
173 4,4'-DDT	235	11.883	11.883	0.000	97	1604691	NR	NR	
213 DFTPP									

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard
 Review Flags
 a - User Assigned ID

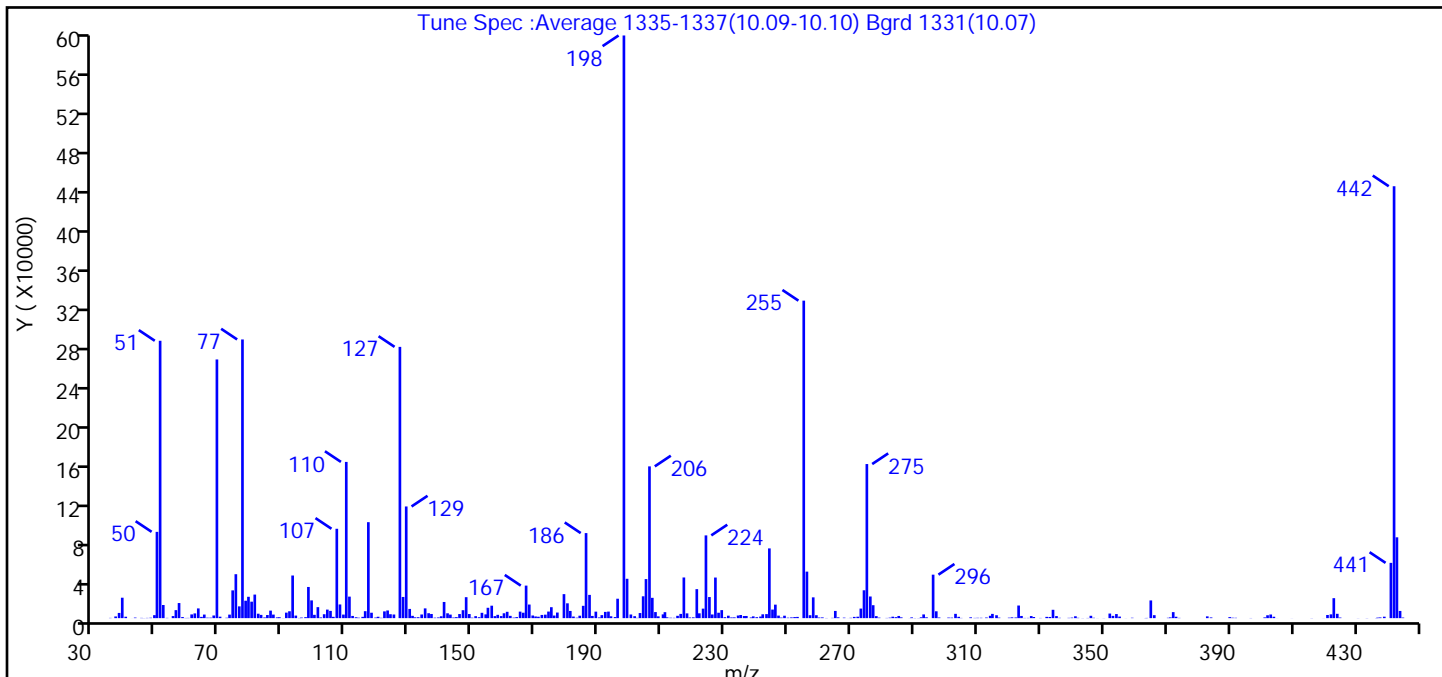
Reagents:

SMDFTPPW_00024 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D
 Injection Date: 08-Sep-2022 12:44:03 Instrument ID: A4AG3
 Lims ID: dftpp
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Tune Method: DFTPP Method CLP OLM4.2

213 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	47.6
68	Less than 2.0 percent of mass 69	0.5 (1.0)
69	Present	44.4
70	Less than 2.0 percent of mass 69	0.2 (0.6)
127	25.0 - 75.0 percent of mass 198	46.6
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.8
275	10.0 - 30.0 percent of mass 198	26.4
365	Greater than 0.75 percent of mass 198	3.0
441	Present but less than mass 443	9.5 (68.4)
442	40.0 - 110.0 percent of mass 198	74.1
443	15.0 - 24.0 percent of mass 442	13.9 (18.7)

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D\8270 AG3.rsl\spectra.d
Injection Date: 08-Sep-2022 12:44:03
Spectrum: Tune Spec :Average 1335-1337(10.09-10.10) Bgrd 1331(10.07)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	251	124.00	3992	211.00	6083	303.00	4376
37.00	1712	125.00	3698	212.00	826	304.00	1354
38.00	5294	127.00	276032	213.00	422	305.00	227
39.00	20792	128.00	21560	214.00	319	308.00	833
40.00	1441	129.00	113632	215.00	2374	309.00	243
42.00	31	130.00	9382	216.00	4314	310.00	351
43.00	571	131.00	2356	217.00	41384	311.00	351
45.00	259	132.00	838	218.00	4846	313.00	627
46.00	114	133.00	937	219.00	682	314.00	2397
47.00	248	134.00	3725	220.00	800	315.00	4333
48.00	418	135.00	9929	221.00	29512	316.00	2956
49.00	3051	136.00	5014	222.00	4907	317.00	547
50.00	87800	137.00	4236	223.00	9677	320.00	482
51.00	282240	138.00	494	224.00	84208	321.00	796
52.00	13365	139.00	713	225.00	21472	322.00	665
53.00	270	140.00	1889	226.00	3732	323.00	12840
55.00	2106	141.00	16456	227.00	41312	324.00	2222
56.00	8141	142.00	4934	228.00	5498	325.00	217
57.00	15365	143.00	3613	229.00	8180	326.00	247
58.00	1125	144.00	625	230.00	952	327.00	2123
59.00	199	145.00	1038	231.00	2485	328.00	1149
60.00	248	146.00	4177	232.00	700	330.00	204
61.00	3788	147.00	8083	233.00	782	332.00	1304
62.00	4819	148.00	21336	234.00	2677	333.00	1191
63.00	9905	149.00	4185	235.00	3192	334.00	8505
64.00	1285	150.00	476	236.00	2144	335.00	2079
65.00	3646	151.00	2025	237.00	2199	336.00	327
66.00	493	152.00	939	238.00	684	339.00	301
67.00	493	153.00	5432	239.00	1805	340.00	541
68.00	2703	154.00	3844	240.00	988	341.00	1909
69.00	263232	155.00	10543	241.00	1624	342.00	341
70.00	1472	156.00	12671	242.00	3906	343.00	109
72.00	396	157.00	2048	243.00	4109	345.00	196

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D\8270 AG3.rsl\spectra.d

Injection Date: 08-Sep-2022 12:44:03

Spectrum: Tune Spec :Average 1335-1337(10.09-10.10) Bgrd 1331(10.07)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	3592	158.00	3382	244.00	70968	346.00	2398
74.00	28256	159.00	2090	245.00	8723	347.00	380
75.00	44712	160.00	4967	246.00	13735	348.00	60
76.00	11981	161.00	6451	247.00	2570	350.00	99
77.00	283584	162.00	2338	248.00	555	352.00	4666
78.00	17728	163.00	529	249.00	2479	353.00	2305
79.00	21728	164.00	1053	250.00	471	354.00	4149
80.00	16752	165.00	6641	251.00	770	355.00	1589
81.00	23976	166.00	5514	252.00	1095	357.00	58
82.00	4510	167.00	33112	253.00	1261	359.00	404
83.00	3311	168.00	13843	255.00	323072	363.00	100
84.00	715	169.00	2705	256.00	47336	364.00	222
85.00	3163	170.00	1718	257.00	2991	365.00	18016
86.00	7656	171.00	1448	258.00	21160	366.00	3018
87.00	3615	172.00	3257	259.00	2975	370.00	371
88.00	779	173.00	3550	260.00	630	371.00	729
89.00	937	174.00	6695	261.00	750	372.00	6122
90.00	92	175.00	11140	262.00	165	373.00	1421
91.00	5608	176.00	2648	264.00	282	374.00	264
92.00	6997	177.00	5701	265.00	7340	383.00	1807
93.00	43384	179.00	24432	266.00	819	384.00	724
94.00	2600	180.00	15094	268.00	500	390.00	1042
95.00	188	181.00	7333	269.00	38	391.00	451
96.00	606	182.00	1639	270.00	338	392.00	353
97.00	1000	183.00	472	271.00	1269	397.00	160
98.00	31728	184.00	2484	272.00	1447	401.00	761
99.00	18064	185.00	12530	273.00	9743	402.00	2926
100.00	3375	186.00	86544	274.00	28352	403.00	3708
101.00	11186	187.00	23664	275.00	156800	404.00	1424
102.00	681	188.00	2255	276.00	22032	405.00	50
103.00	3982	189.00	6616	277.00	13162	410.00	53
104.00	8701	190.00	708	278.00	2043	416.00	120
105.00	7387	191.00	3075	279.00	524	420.00	61
106.00	1340	192.00	6358	281.00	214	421.00	3215

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D\8270 AG3.rslt\spectra.d

Injection Date: 08-Sep-2022 12:44:03

Spectrum: Tune Spec :Average 1335-1337(10.09-10.10) Bgrd 1331(10.07)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	90944	193.00	6669	282.00	502	422.00	3860
108.00	13927	194.00	1874	283.00	1470	423.00	20328
109.00	3621	195.00	1096	284.00	1000	424.00	4411
110.00	158976	196.00	19760	285.00	2218	425.00	604
111.00	21896	198.00	592896	286.00	796	431.00	93
112.00	2254	199.00	40056	289.00	71	434.00	127
113.00	891	200.00	3710	289.00	763	436.00	150
114.00	452	201.00	2005	290.00	151	437.00	535
115.00	1318	202.00	290	291.00	131	438.00	731
116.00	7090	203.00	5194	292.00	841	439.00	1465
117.00	97656	204.00	22232	293.00	3785	441.00	56248
118.00	5509	205.00	39744	294.00	842	442.00	439488
119.00	618	206.00	154432	296.00	44248	443.00	82240
120.00	1408	207.00	20672	297.00	6983	444.00	7326
121.00	326	208.00	6173	298.00	658	445.00	599
122.00	6890	209.00	1818	301.00	579		
123.00	7814	210.00	3828	302.00	525		

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D

Injection Date: 08-Sep-2022 12:44:03

Instrument ID: A4AG3

Operator ID:

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

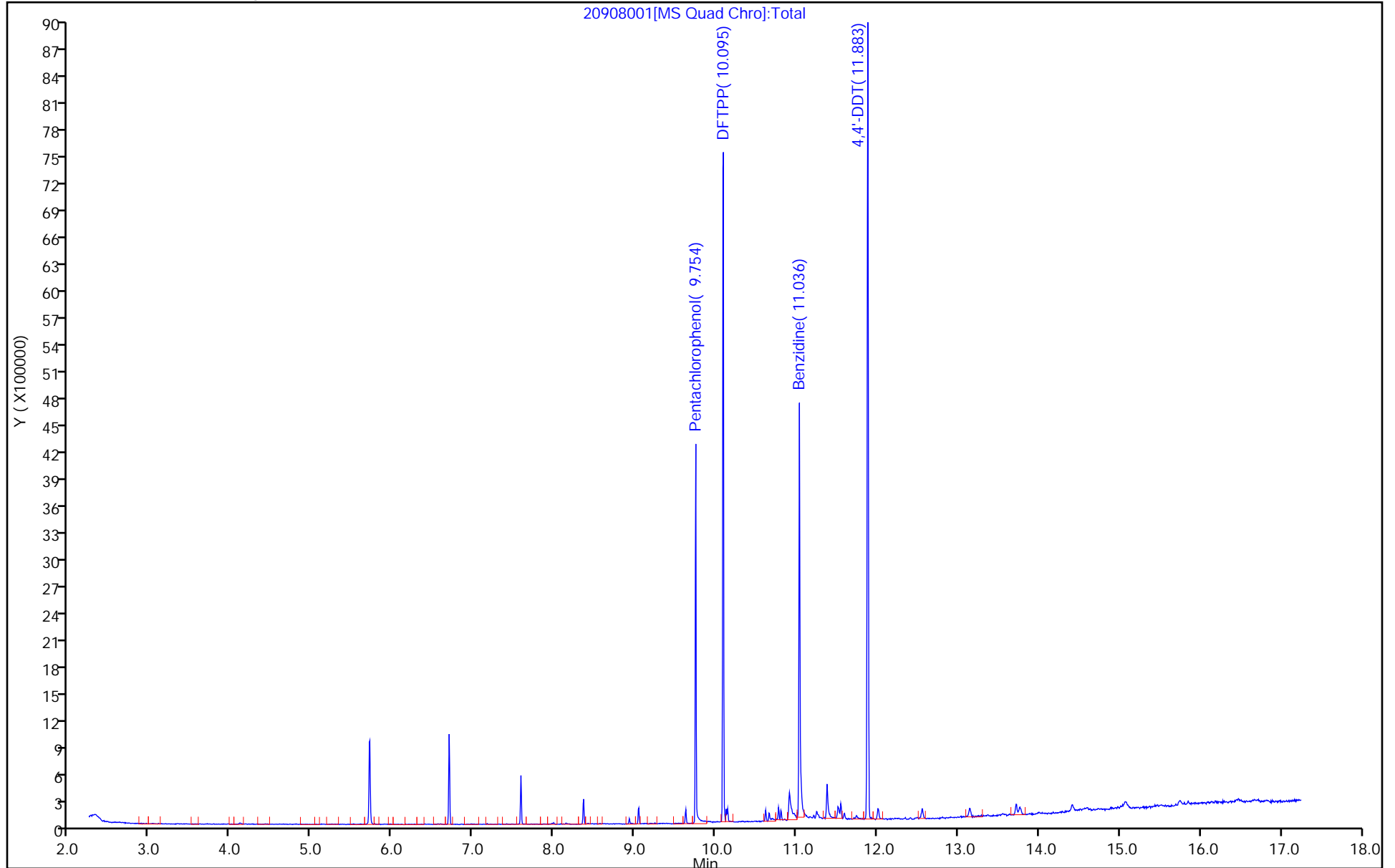
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D
Injection Date: 08-Sep-2022 12:44:03 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

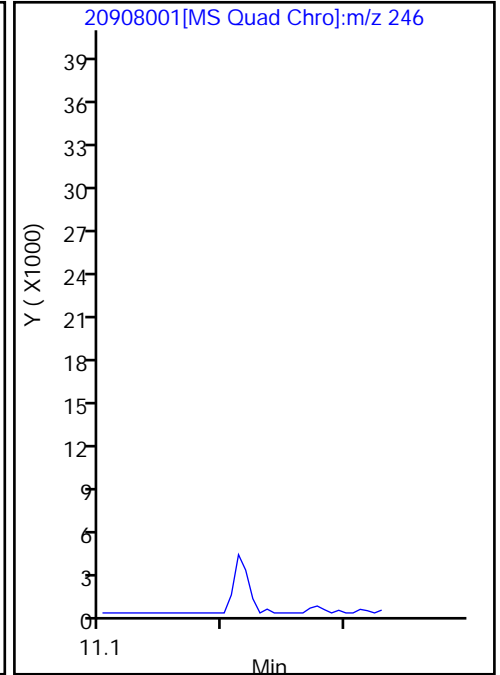
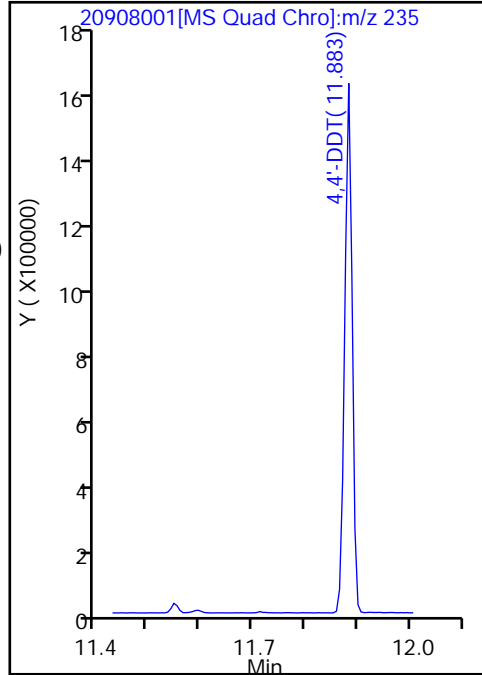
173 4,4'-DDT, Detector: MS Quad

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

173 4,4'-DDT, Area = 1604691
169 4,4'-DDD, Area = 27028
165 4,4'-DDE, Area = 3238

%Breakdown: 1.85%, <= 20.00%
Passed



Eurofins Canton

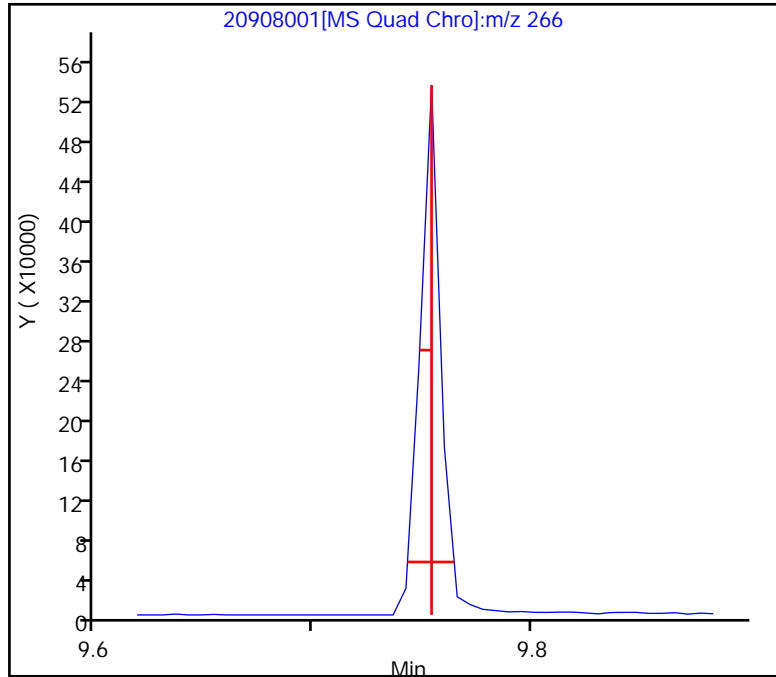
Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D
Injection Date: 08-Sep-2022 12:44:03 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

145 Pentachlorophenol, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 0.91, Max. Tailing <= 2.00
Passed



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908001.D
Injection Date: 08-Sep-2022 12:44:03 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270 AG3

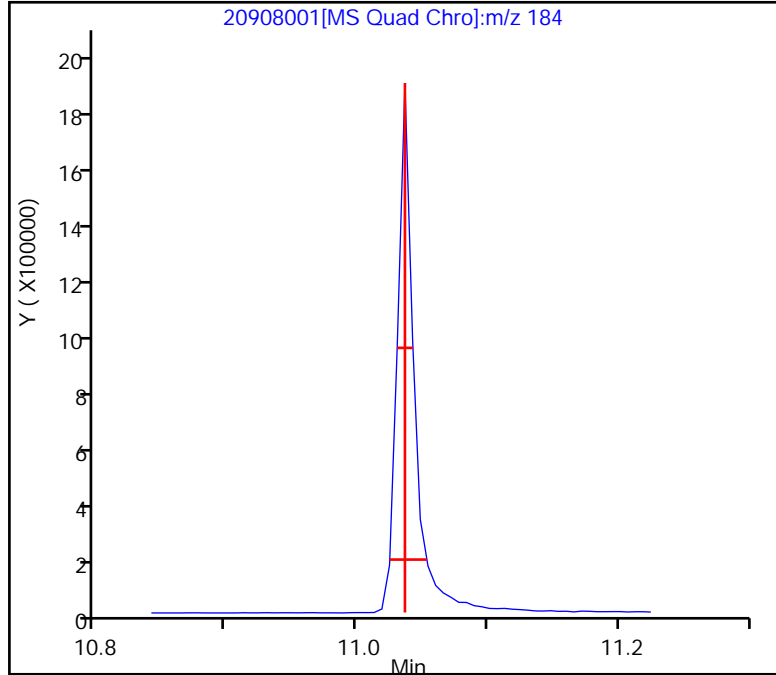
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSS 8270D ICAL

161 Benzidine, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.42, Max. Tailing <= 2.00
Passed



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 09-Sep-2022 11:34:50 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:50 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4 Date: 09-Sep-2022 11:56:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
145 Pentachlorophenol	266	9.695	9.695	0.000	91	871546	NR	NR	
161 Benzidine	184	10.977	10.977	0.000	99	2733697	NR	NR	
165 4,4'-DDE	246	11.148	11.148	0.000	85	9270		NR	
169 4,4'-DDD	235	11.483	11.483	0.000	95	51751		NR	a
173 4,4'-DDT	235	11.807	11.807	0.000	98	2821651	NR	NR	
213 DFTPP									

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard
 Review Flags
 a - User Assigned ID

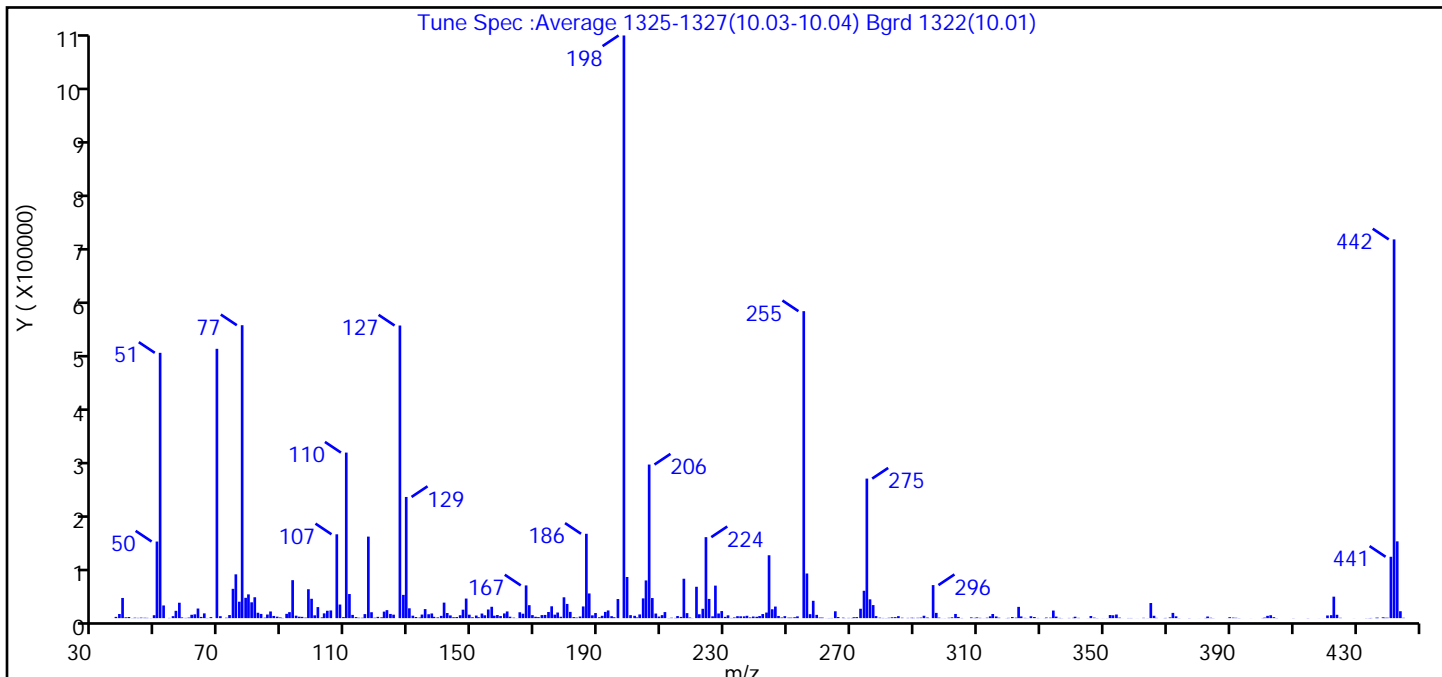
Reagents:

SMDFTPPW_00024 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D
 Injection Date: 09-Sep-2022 11:34:50 Instrument ID: A4AG3
 Lims ID: dftpp
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8270 AG3 Limit Group: MSS 8270D ICAL
 Tune Method: DFTPP Method CLP OLM4.2

213 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	45.5
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	46.2
70	Less than 2.0 percent of mass 69	0.3 (0.7)
127	25.0 - 75.0 percent of mass 198	50.2
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	7.1
275	10.0 - 30.0 percent of mass 198	23.9
365	Greater than 0.75 percent of mass 198	2.6
441	Present but less than mass 443	10.5 (79.9)
442	40.0 - 110.0 percent of mass 198	65.0
443	15.0 - 24.0 percent of mass 442	13.2 (20.3)

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D\8270 AG3.rsl\spectra.d
Injection Date: 09-Sep-2022 11:34:50
Spectrum: Tune Spec :Average 1325-1327(10.03-10.04) Bgrd 1322(10.01)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 365

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	50	131.00	4659	224.00	152448	321.00	2069
37.00	2394	132.00	2143	225.00	36192	322.00	872
38.00	7760	133.00	1157	226.00	3441	323.00	21208
39.00	37984	134.00	6743	227.00	61216	324.00	3224
40.00	1539	135.00	17008	228.00	8767	325.00	501
41.00	2152	136.00	7355	229.00	13316	326.00	172
42.00	189	137.00	8833	230.00	2426	327.00	3592
43.00	866	138.00	2479	231.00	5287	328.00	2117
44.00	525	139.00	1472	232.00	366	329.00	385
45.00	978	140.00	4251	233.00	1284	330.00	64
46.00	718	141.00	29216	234.00	3672	331.00	152
47.00	549	142.00	9616	235.00	3460	332.00	1138
48.00	204	143.00	5154	236.00	3371	333.00	925
49.00	5498	144.00	1713	237.00	4453	334.00	14302
50.00	144192	145.00	2059	238.00	1334	335.00	2929
51.00	499392	146.00	5468	239.00	3084	336.00	479
52.00	23880	147.00	15950	240.00	2584	337.00	212
53.00	8	148.00	36856	241.00	3953	339.00	406
54.00	416	149.00	6486	242.00	7745	340.00	649
55.00	3742	150.00	1687	243.00	10492	341.00	2672
56.00	13778	151.00	4910	244.00	118344	342.00	545
57.00	29008	152.00	1786	245.00	16712	345.00	112
58.00	1385	153.00	8685	246.00	21808	346.00	4032
59.00	458	154.00	5348	247.00	4072	347.00	954
60.00	1082	155.00	16306	248.00	1168	348.00	274
61.00	6321	156.00	21384	249.00	3777	349.00	56
62.00	7194	157.00	4609	250.00	960	350.00	92
63.00	18104	158.00	5860	251.00	979	351.00	150
64.00	2300	159.00	3965	252.00	1661	352.00	5863
65.00	8981	160.00	8879	253.00	3332	353.00	5425
66.00	353	161.00	12599	255.00	577792	354.00	6824
67.00	1938	162.00	2715	256.00	84040	355.00	978
69.00	506944	163.00	945	257.00	7480	356.00	70

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D\8270 AG3.rsl\spectra.d

Injection Date: 09-Sep-2022 11:34:50

Spectrum: Tune Spec :Average 1325-1327(10.03-10.04) Bgrd 1322(10.01)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 365

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	3668	164.00	148	258.00	32672	358.00	328
71.00	45	165.00	11068	259.00	6181	359.00	335
72.00	834	166.00	8340	260.00	1050	360.00	53
73.00	5784	167.00	61616	261.00	1031	361.00	92
74.00	55168	168.00	24384	262.00	101	363.00	627
75.00	82480	169.00	5692	263.00	297	364.00	165
76.00	30952	170.00	2600	264.00	379	365.00	28448
77.00	551360	171.00	1990	265.00	12901	366.00	4473
78.00	38272	172.00	5732	266.00	2089	367.00	497
79.00	44736	173.00	6024	268.00	900	369.00	154
80.00	29824	174.00	11584	268.00	157	370.00	443
81.00	39328	175.00	22328	269.00	489	371.00	1377
82.00	10146	176.00	6555	270.00	389	372.00	9884
83.00	7939	177.00	10583	271.00	1698	373.00	3392
84.00	903	178.00	2583	272.00	1939	374.00	247
85.00	6833	179.00	39240	273.00	17688	377.00	282
86.00	12584	180.00	26752	274.00	51520	380.00	65
87.00	4154	181.00	11781	275.00	262656	382.00	367
88.00	2806	182.00	1928	276.00	35392	383.00	3065
89.00	1321	183.00	1045	277.00	24568	384.00	701
90.00	374	184.00	3025	278.00	3875	385.00	218
91.00	8092	185.00	22040	279.00	880	389.00	60
92.00	11315	186.00	158784	280.00	405	390.00	1787
93.00	71480	187.00	46456	281.00	244	391.00	1019
94.00	4652	188.00	5275	282.00	735	392.00	696
95.00	2732	189.00	9610	283.00	1596	393.00	261
96.00	2422	190.00	1666	284.00	1868	397.00	81
97.00	1001	191.00	4420	285.00	3779	400.00	340
98.00	54424	192.00	11713	286.00	831	401.00	983
99.00	36448	193.00	14472	288.00	504	402.00	4342
100.00	5298	194.00	3653	289.00	766	403.00	5484
101.00	20792	195.00	1670	290.00	530	404.00	1795
102.00	1401	196.00	35992	291.00	669	405.00	287
103.00	8997	198.00	1096704	292.00	1006	410.00	223

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D\8270 AG3.rslt\spectra.d

Injection Date: 09-Sep-2022 11:34:50

Spectrum: Tune Spec :Average 1325-1327(10.03-10.04) Bgrd 1322(10.01)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 365

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	13903	199.00	77448	293.00	4498	415.00	268
105.00	14500	200.00	5641	294.00	1151	418.00	93
107.00	157824	201.00	4369	295.00	110	420.00	83
108.00	25632	202.00	1338	296.00	62184	421.00	5013
109.00	1931	203.00	6980	297.00	9909	422.00	5581
110.00	311616	204.00	37200	298.00	955	423.00	40440
111.00	45392	205.00	70992	299.00	105	424.00	6328
112.00	6109	206.00	289088	300.00	159	425.00	648
113.00	2001	207.00	37832	301.00	663	429.00	99
114.00	796	208.00	8657	302.00	1435	433.00	217
115.00	708	209.00	2963	303.00	7861	434.00	257
116.00	7590	210.00	5651	304.00	2264	435.00	374
117.00	153472	211.00	11430	305.00	344	436.00	722
118.00	11133	212.00	248	308.00	1397	437.00	793
119.00	812	213.00	809	309.00	565	439.00	1525
120.00	2422	214.00	440	310.00	1415	439.00	780
121.00	1558	215.00	3950	311.00	569	440.00	849
122.00	12292	216.00	2362	312.00	112	441.00	115504
123.00	15068	217.00	74176	313.00	811	442.00	712896
124.00	7899	218.00	9429	314.00	3394	443.00	144512
125.00	6540	219.00	1197	315.00	7799	444.00	13029
127.00	550784	220.00	188	316.00	3139	445.00	666
128.00	43784	221.00	59056	317.00	830		
129.00	228096	222.00	7303	319.00	188		
130.00	18536	223.00	17600	320.00	541		

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D

Injection Date: 09-Sep-2022 11:34:50

Instrument ID: A4AG3

Operator ID:

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

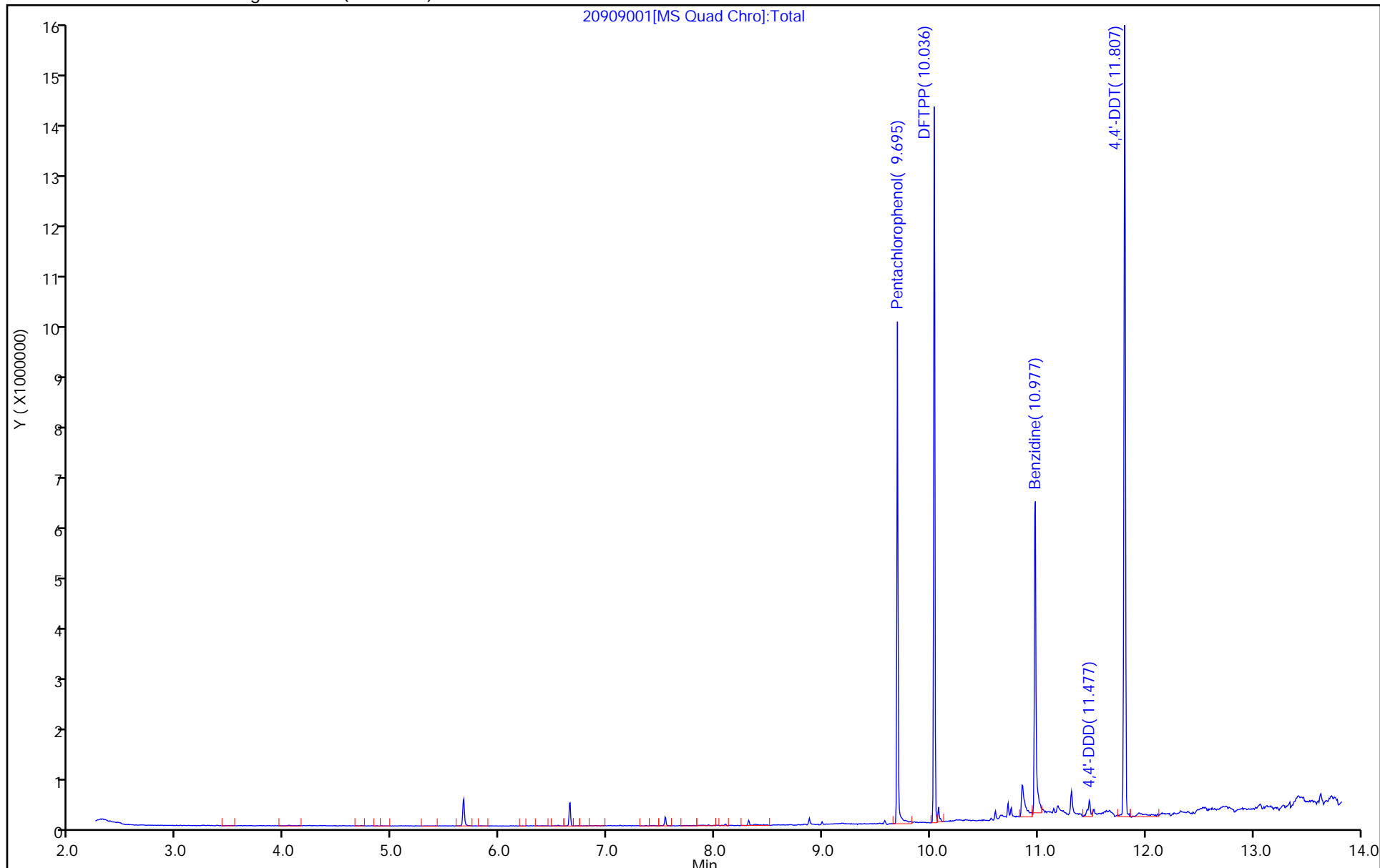
ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)

20909001[MS Quad Chro]:Total



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D
Injection Date: 09-Sep-2022 11:34:50 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 AG3 Limit Group: MSS 8270D ICAL

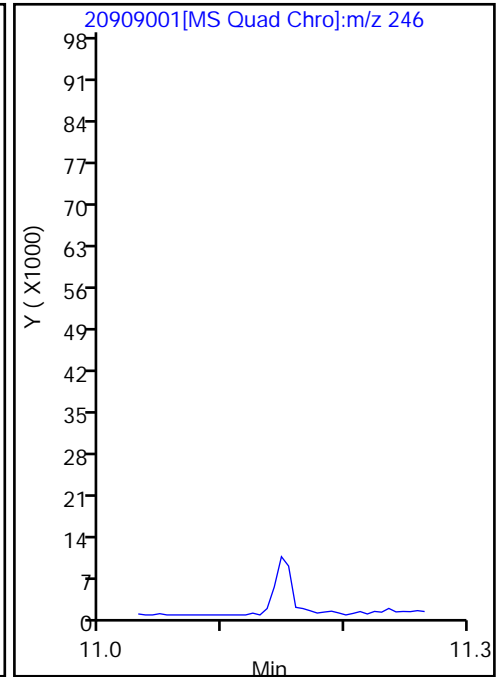
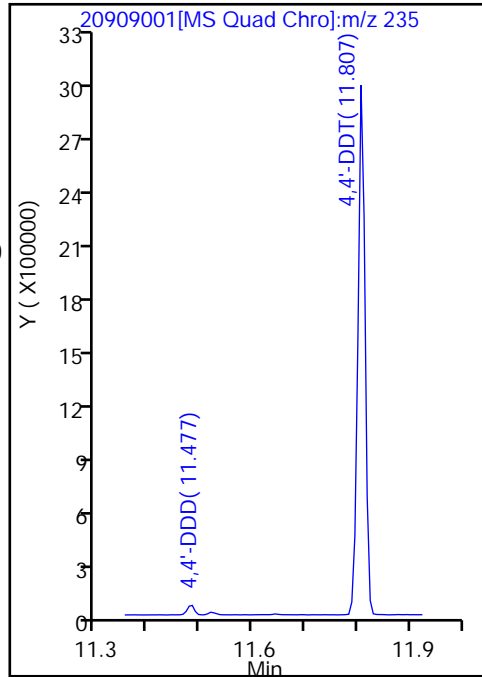
173 4,4'-DDT, Detector: MS Quad

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

173 4,4'-DDT, Area = 2821651
169 4,4'-DDD, Area = 51751
165 4,4'-DDE, Area = 9270

%Breakdown: 2.12%, <= 20.00%
Passed



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D
Injection Date: 09-Sep-2022 11:34:50 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270 AG3

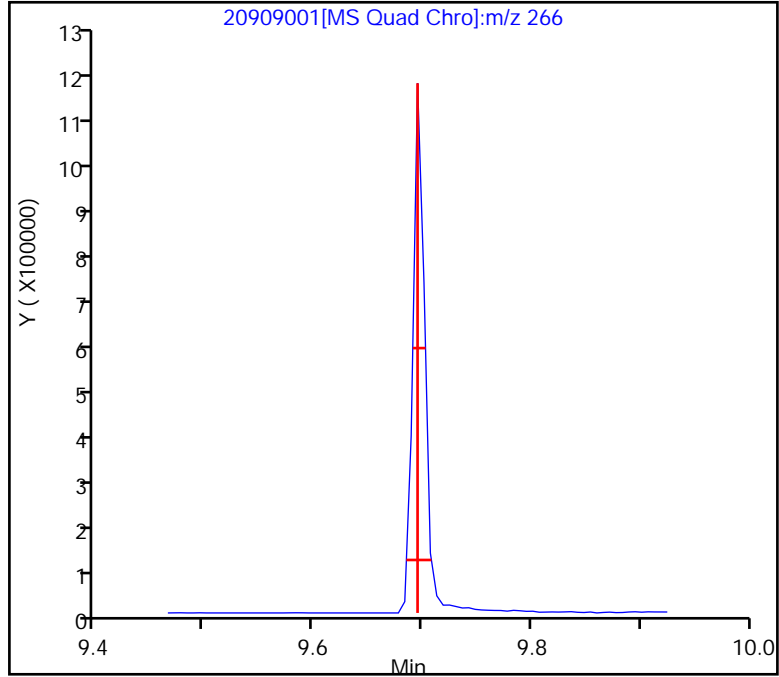
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSS 8270D ICAL

145 Pentachlorophenol, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.30, Max. Tailing <= 2.00
Passed



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909001.D
Injection Date: 09-Sep-2022 11:34:50 Instrument ID: A4AG3
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270 AG3

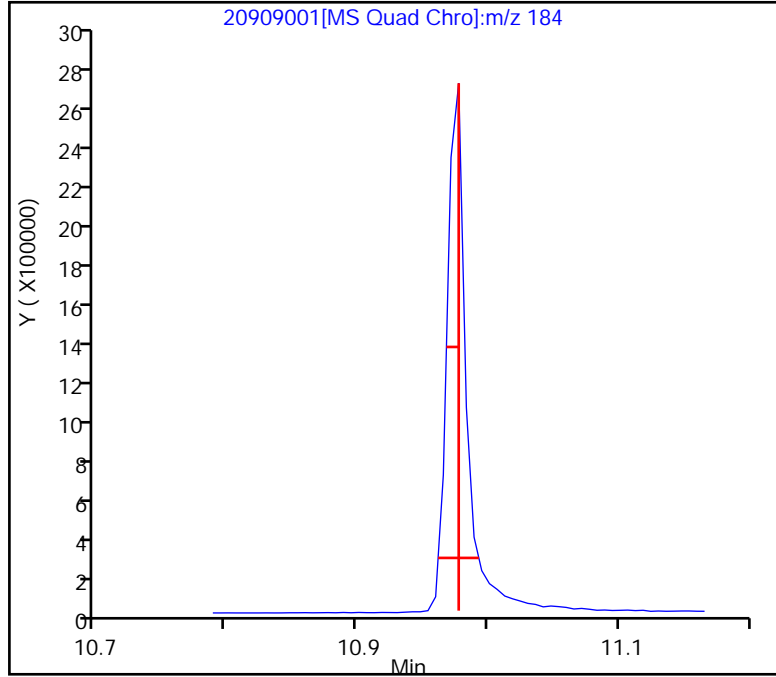
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSS 8270D ICAL

161 Benzidine, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.94, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-541390/23-A
 Matrix: Solid Lab File ID: 20908008.D
 Analysis Method: 8270E Date Collected: _____
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30(g) Date Analyzed: 09/08/2022 14:45
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 541870 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	<0.015		0.015	
208-96-8	Acenaphthylene	<0.015		0.015	
120-12-7	Anthracene	<0.015		0.015	
56-55-3	Benzo[a]anthracene	<0.015		0.015	
50-32-8	Benzo[a]pyrene	<0.015		0.015	
205-99-2	Benzo[b]fluoranthene	<0.015		0.015	
191-24-2	Benzo[g,h,i]perylene	<0.015		0.015	
207-08-9	Benzo[k]fluoranthene	<0.015		0.015	
218-01-9	Chrysene	<0.015		0.015	
53-70-3	Dibenz(a,h)anthracene	<0.015		0.015	
206-44-0	Fluoranthene	<0.015		0.015	
86-73-7	Fluorene	<0.015		0.015	
193-39-5	Indeno[1,2,3-cd]pyrene	<0.015		0.015	
91-20-3	Naphthalene	<0.015		0.015	
85-01-8	Phenanthrene	<0.015		0.015	
129-00-0	Pyrene	<0.015		0.015	
90-12-0	1-Methylnaphthalene	<0.015		0.015	
91-57-6	2-Methylnaphthalene	<0.015		0.015	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	92		46-137
4165-62-2	Phenol-d5 (Surr)	83		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		25-120
367-12-4	2-Fluorophenol (Surr)	73		20-120
321-60-8	2-Fluorobiphenyl (Surr)	85		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	47		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908008.D
 Lims ID: MB 240-541390/23-A
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Sep-2022 14:45:35 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-008
 Misc. Info.: MB 240-541390/23-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:35 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4

Date: 08-Sep-2022 15:32:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.060	6.060	0.000	96	135133	4.00	4.00	
* 2 Naphthalene-d8	136	7.172	7.172	0.000	99	506363	4.00	4.00	
* 3 Acenaphthene-d10	164	8.660	8.666	-0.006	93	301817	4.00	4.00	
* 4 Phenanthrene-d10	188	9.913	9.919	-0.006	97	534075	4.00	4.00	
* 5 Chrysene-d12	240	12.489	12.495	-0.006	99	499226	4.00	4.00	
* 6 Perylene-d12	264	14.589	14.595	-0.006	98	471838	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.843	4.819	0.024	93	295890	10.0	7.35	
\$ 8 Phenol-d5	99	5.731	5.719	0.012	75	412478	10.0	8.29	
\$ 9 Nitrobenzene-d5	82	6.543	6.543	-0.001	90	385380	10.0	8.18	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.072	8.072	0.000	100	786499	10.0	8.49	
\$ 11 2,4,6-Tribromophenol	330	9.325	9.325	0.000	92	55468	10.0	4.68	
\$ 12 Terphenyl-d14	244	11.266	11.272	-0.006	98	1106615	10.0	9.18	
13 1,4-Dioxane	88		2.372					ND	
14 N-Nitrosodimethylamine	74		2.907					ND	
15 Pyridine	79		2.966					ND	
17 Dimethylformamide	73		3.654					ND	
18 Ethyl methacrylate	69		3.766					ND	
19 2-Picoline	93		4.366					ND	
16 Chlorobenzene TIC	112		4.370					ND	
20 N-Nitrosomethylethylamine	88		4.490					ND	
23 n,n'-Dimethylacetamide	44		4.737					ND	
22 Methyl methanesulfonate	80		4.801					ND	
25 N-Nitrosodiethylamine	102		5.213					ND	
26 Ethyl methanesulfonate	79		5.478					ND	
30 Benzaldehyde	77		5.660					ND	
31 Phenol	94		5.731					ND	
32 Aniline	93		5.760					ND	
33 Bis(2-chloroethyl)ether	93		5.801					ND	
36 2-Chlorophenol	128		5.878					ND	
37 n-Decane	57		5.907					ND	
24 Phenylmercaptan	110		5.937					ND	

U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
35 Pentachloroethane	167		5.960					ND	
39 1,3-Dichlorobenzene	146		6.013					ND	
40 1,4-Dichlorobenzene	146		6.078					ND	
41 Benzyl alcohol	108		6.172					ND	
42 1-Methyl-2-pyrrolidinone	99		6.190					ND	U
44 1,2-Dichlorobenzene	146		6.219					ND	
45 2-Methylphenol	108		6.272					ND	
46 2,2'-oxybis[1-chloropropane]	45		6.290					ND	
47 Indene	115		6.296					ND	
50 N-Nitrosodi-n-propylamine	70		6.396					ND	
48 3 & 4 Methylphenol	108		6.401					ND	
52 Acetophenone	105		6.407					ND	
54 Hexachloroethane	117		6.519					ND	
49 N-Nitrosopyrrolidine	100		6.519					ND	
51 N-Nitrosomorpholine	56		6.548					ND	
55 Nitrobenzene	77		6.560					ND	
53 2-Toluidine	106		6.584					ND	
57 Isophorone	82		6.760					ND	
43 2-Chloroaniline	127		6.825					ND	U
56 N-Nitrosopiperidine	114		6.825					ND	
59 2-Nitrophenol	139		6.837					ND	
58 2,4-Dimethylphenol	107		6.854					ND	
60 1,3,5-Trichlorobenzene	180		6.878					ND	
63 Benzoic acid	105		6.919					ND	
64 Bis(2-chloroethoxy)methane	93		6.931					ND	
62 o,o',o"-Triethylphosphorothioat	198		7.043					ND	
66 2,4-Dichlorophenol	162		7.048					ND	
68 1,2,4-Trichlorobenzene	180		7.119					ND	
206 3 & 4 Chlorophenol	128		7.137					ND	U
65 alpha,alpha-Dimethyl phenethylam	158		7.148					ND	
69 Naphthalene	128		7.195					ND	
70 4-Chloroaniline	127		7.219					ND	
71 2,6-Dichlorophenol	162		7.237					ND	
73 Hexachlorobutadiene	225		7.295					ND	
72 Hexachloropropene	213		7.419					ND	
75 Benzothiazole	135		7.431					ND	
78 Caprolactam	113		7.501					ND	
77 Quinoline	129		7.613					ND	
80 4-Chloro-3-methylphenol	107		7.625					ND	
76 N-Nitrosodi-n-butylamine	84		7.631					ND	
67 4-tert-Butylphenol	135		7.654					ND	
79 p-Phenylene diamine	108		7.654					ND	
82 2-Methylnaphthalene	142		7.778					ND	
81 Safrole, Total	162		7.825					ND	
83 1-Methylnaphthalene	142		7.860					ND	
85 Hexachlorocyclopentadiene	237		7.913					ND	
86 1,2,4,5-Tetrachlorobenzene	216		7.919					ND	
84 1,2,3,5-Tetrachlorobenzene	216		7.937					ND	
88 2,4,6-Trichlorophenol	196		8.007					ND	
89 2,4,5-Trichlorophenol	196		8.048					ND	
87 Isosafrole Peak 1	162		8.072					ND	
91 2,4-Toluene diamine	121		8.160					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 1,1'-Biphenyl	154		8.160					ND	U
93 1,2,3,4 -Tetrachlorobenzene	216		8.190					ND	
96 2-Chloronaphthalene	162		8.190					ND	
99 2-Nitroaniline	65		8.260					ND	
98 Phenyl ether	170		8.266					ND	
90 Isosafrole Peak 2	162		8.266					ND	
102 Dimethyl phthalate	163		8.390					ND	
103 1,3-Dinitrobenzene	168		8.425					ND	
104 2,6-Dinitrotoluene	165		8.448					ND	
100 1,4-Naphthoquinone	158		8.472					ND	
101 1,4-Dinitrobenzene	168		8.501					ND	
105 Acenaphthylene	152		8.548					ND	
106 3-Nitroaniline	138		8.601					ND	
108 2,4-Dinitrophenol	184		8.684					ND	
109 Acenaphthene	153		8.690					ND	
110 4-Nitrophenol	109		8.725					ND	
94 o-Phenylphenol	170		8.789					ND	
111 2,4-Dinitrotoluene	165		8.795					ND	
113 Dibenzofuran	168		8.831					ND	
116 2,3,4,6-Tetrachlorophenol	232		8.931					ND	
112 Pentachlorobenzene	250		8.960					ND	
117 Hexadecane	57	8.937	8.978	-0.042	3	321		NC	
118 Diethyl phthalate	149		8.978					ND	U
114 1-Naphthylamine	143		9.042					ND	
115 2,3,5,6-Tetrachlorophenol	232		9.048					ND	
122 4-Chlorophenyl phenyl ether	204		9.101					ND	
119 2-Naphthylamine	143		9.107					ND	
125 4-Nitroaniline	138		9.119					ND	
126 Fluorene	166		9.125					ND	
127 4,6-Dinitro-2-methylphenol	198		9.142					ND	
123 Tributyl phosphate	99	9.131	9.148	-0.023	93	4501		0.2190	
129 Diphenylamine	169		9.195					ND	
128 N-Nitrosodiphenylamine	169		9.195					ND	
121 Thionazin	97		9.195					ND	
131 1,2-Diphenylhydrazine	77		9.237					ND	
130 Azobenzene	77		9.237					ND	
124 N-Nitro-o-toluidine	152		9.260					ND	
107 Benzophenone	105		9.266					ND	
132 Sulfotepp	202		9.448					ND	
138 4-Bromophenyl phenyl ether	248		9.513					ND	
133 1,3,5-Trinitrobenzene	213		9.531					ND	
134 Diallate Peak 1	86		9.578					ND	
135 Phenacetin	108		9.578					ND	
136 Phorate	121		9.589					ND	
120 3 & 4 Phenoxyphenol	186		9.601					ND	
141 Hexachlorobenzene	284		9.601					ND	
140 Atrazine	200		9.619					ND	
137 Diallate Peak 2	86		9.660					ND	
139 Dimethoate	87		9.731					ND	
142 n-Octadecane	57		9.748					ND	U
145 Pentachlorophenol	266		9.754					ND	
143 4-Aminobiphenyl	169		9.889					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
144 Pronamide	173		9.913					ND	
146 Pentachloronitrobenzene	237		9.925					ND	
149 Phenanthrene	178		9.936					ND	
150 Anthracene	178		9.978					ND	
147 Disulfoton	88		10.025					ND	
148 Dinoseb	211		10.037					ND	
152 Carbazole	167		10.101					ND	
154 Di-n-butyl phthalate	149		10.342					ND	U
153 Methyl parathion	109		10.354					ND	
151 Chlorpyrifos	97		10.484					ND	
156 Ethyl Parathion	97		10.672					ND	
157 4-Nitroquinoline-1-oxide	190		10.736					ND	
158 Methapyrilene	58		10.772					ND	
160 Fluoranthene	202		10.954					ND	
159 Isodrin	66		11.001					ND	
161 Benzidine	184		11.036					ND	
163 Pyrene	202		11.166					ND	
165 4,4'-DDE	246		11.213					ND	
164 Aramite Peak 1	185		11.395					ND	
166 Aramite Peak 2	185		11.472					ND	
169 4,4'-DDD	235		11.548					ND	
167 p-Dimethylamino azobenzene	225		11.601					ND	
168 Chlorobenzilate	139		11.631					ND	
171 Butyl benzyl phthalate	149		11.736					ND	
162 Kepone	272		11.808					ND	
173 4,4'-DDT	235		11.883					ND	
170 Famphur	218		11.901					ND	
172 3,3'-Dimethylbenzidine	212		11.966					ND	
174 2-Acetylaminofluorene	181		12.278					ND	
175 3,3'-Dimethoxybenzidine	244		12.389					ND	
176 Bis(2-ethylhexyl) phthalate	149		12.407					ND	
178 3,3'-Dichlorobenzidine	252		12.413					ND	
179 Benzo[a]anthracene	228		12.483					ND	
180 Chrysene	228		12.530					ND	
181 Hexabromobenzene	232		12.572					ND	
177 4,4'-Methylene bis(2-chloroani	231		12.642					ND	
183 Di-n-octyl phthalate	149		13.313					ND	
182 6-Methylchrysene	242		13.419					ND	
185 Benzo[b]fluoranthene	252		14.007					ND	
186 Benzo[k]fluoranthene	252		14.048					ND	
184 7,12-Dimethylbenz(a)anthracene	256		14.289					ND	
187 Benzo[a]pyrene	252		14.513					ND	
188 3-Methylcholanthrene	268		15.377					ND	
190 Dibenz[a,j]acridine	279		16.013					ND	
189 Dibenz[a,h]acridine	279		16.254					ND	
191 Indeno[1,2,3-cd]pyrene	276		16.283					ND	
192 Dibenz(a,h)anthracene	278		16.295					ND	
193 Benzo[g,h,i]perylene	276		16.748					ND	
198 Triphenyl Phosphate TIC	1		0.000					ND	
196 Diisobutyl phthalate TIC	1		0.000					ND	
204 2-Chloroaniline TIC	1		0.000					ND	
331 Diundecyl Phthalate TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
201 Total Cresols	1		0.000					ND	
200 Trimethyl phosphate TIC	1		0.000					ND	
202 Tricresyl phosphate TIC	1		0.000					ND	
210 4-Chlorophenol TIC	1		0.000					ND	
212 3,3'-Dimethoxybenzidine TIC	1		0.000					ND	
197 Perylene TIC	1		0.000					ND	
308 1,2,4,5-Tetrachlorobenzene TIC			0.000					ND	
214 2,3,7,8 TCDF TIC	304		12.500					ND	
S 215 Isosafrole	162		5.181					ND	7
S 217 Diallate	86		6.385					ND	7
S 218 Aramite, Total	185		7.898					ND	7
S 219 Methyl Phenols, Total	100		0.000					ND	7

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908008.D

Injection Date: 08-Sep-2022 14:45:35

Instrument ID: A4AG3

Operator ID:

Lims ID: MB 240-541390/23-A

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

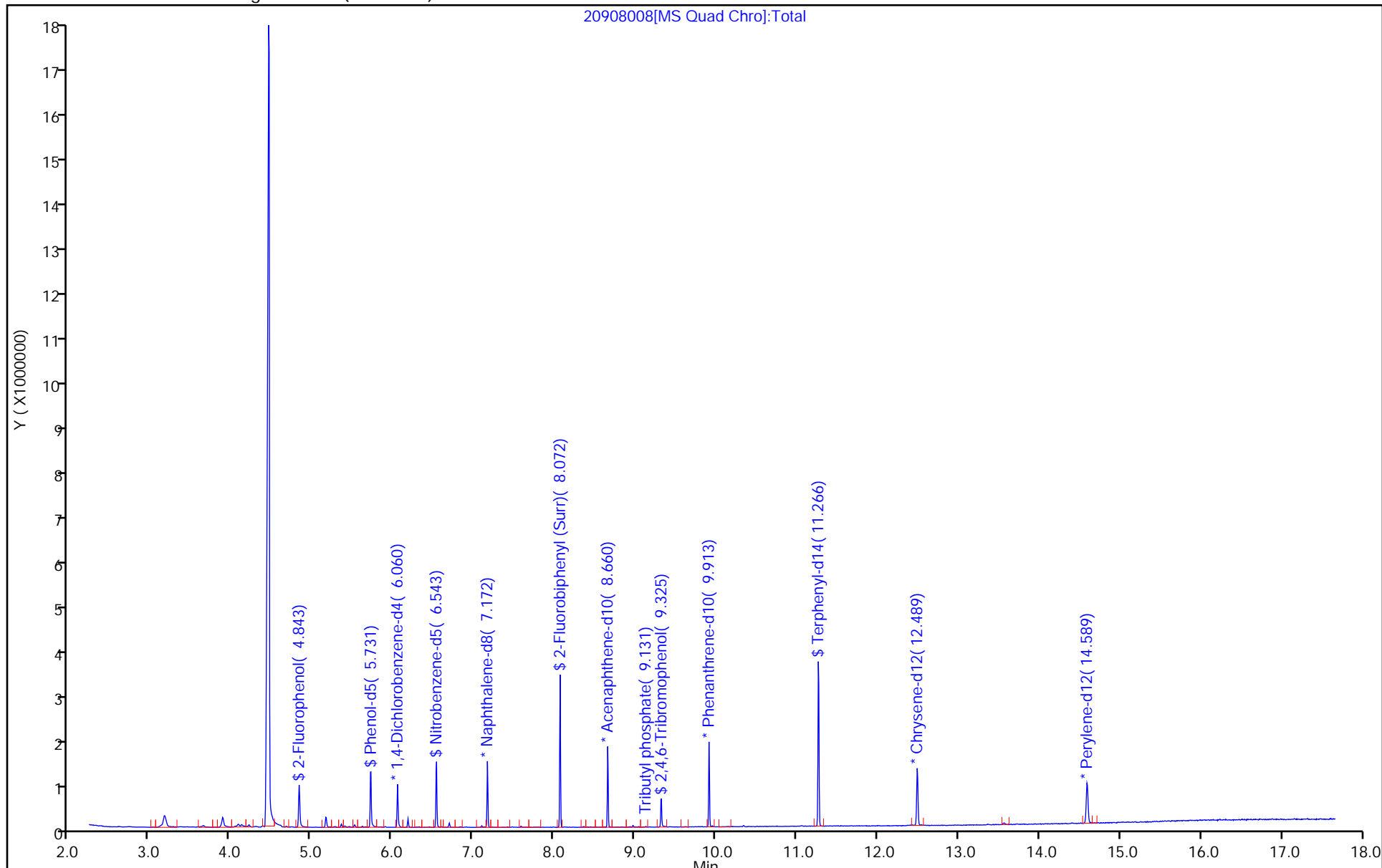
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908008.D
 Lims ID: MB 240-541390/23-A
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Sep-2022 14:45:35 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-008
 Misc. Info.: MB 240-541390/23-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:35 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4

Date: 08-Sep-2022 15:32:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	7.35	73.49
\$ 8 Phenol-d5	10.0	8.29	82.89
\$ 9 Nitrobenzene-d5	10.0	8.18	81.79
\$ 10 2-Fluorobiphenyl (Surr)	10.0	8.49	84.92
\$ 11 2,4,6-Tribromophenol	10.0	4.68	46.76
\$ 12 Terphenyl-d14	10.0	9.18	91.79

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-541390/24-A
 Matrix: Solid Lab File ID: 20908009.D
 Analysis Method: 8270E Date Collected: _____
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 30(g) Date Analyzed: 09/08/2022 15:07
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 541870 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	0.568		0.015	
208-96-8	Acenaphthylene	0.523		0.015	
120-12-7	Anthracene	0.614		0.015	
56-55-3	Benzo[a]anthracene	0.615		0.015	
50-32-8	Benzo[a]pyrene	0.547		0.015	
205-99-2	Benzo[b]fluoranthene	0.626		0.015	
191-24-2	Benzo[g,h,i]perylene	0.608		0.015	
207-08-9	Benzo[k]fluoranthene	0.557		0.015	
218-01-9	Chrysene	0.581		0.015	
53-70-3	Dibenz(a,h)anthracene	0.659		0.015	
206-44-0	Fluoranthene	0.601		0.015	
86-73-7	Fluorene	0.573		0.015	
193-39-5	Indeno[1,2,3-cd]pyrene	0.636		0.015	
91-20-3	Naphthalene	0.521		0.015	
85-01-8	Phenanthrene	0.575		0.015	
129-00-0	Pyrene	0.609		0.015	
90-12-0	1-Methylnaphthalene	0.550		0.015	
91-57-6	2-Methylnaphthalene	0.514		0.015	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	92		46-137
4165-62-2	Phenol-d5 (Surr)	92		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	86		25-120
367-12-4	2-Fluorophenol (Surr)	92		20-120
321-60-8	2-Fluorobiphenyl (Surr)	89		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	76		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908009.D
 Lims ID: LCS 240-541390/24-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Sep-2022 15:07:41 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-009
 Misc. Info.: LCS 240-541390/24-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:35 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4

Date: 08-Sep-2022 15:33:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.060	6.060	0.000	96	120647	4.00	4.00	
* 2 Naphthalene-d8	136	7.172	7.172	0.000	99	488486	4.00	4.00	
* 3 Acenaphthene-d10	164	8.660	8.666	-0.006	93	287810	4.00	4.00	
* 4 Phenanthrene-d10	188	9.913	9.919	-0.006	96	529489	4.00	4.00	
* 5 Chrysene-d12	240	12.489	12.495	-0.006	99	459392	4.00	4.00	
* 6 Perylene-d12	264	14.595	14.595	0.000	98	453404	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.842	4.819	0.023	92	329955	10.0	9.18	
\$ 8 Phenol-d5	99	5.725	5.719	0.006	75	410869	10.0	9.25	
\$ 9 Nitrobenzene-d5	82	6.542	6.543	-0.001	91	390089	10.0	8.58	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.072	8.072	0.000	100	785418	10.0	8.89	
\$ 11 2,4,6-Tribromophenol	330	9.325	9.325	0.000	90	86436	10.0	7.64	
\$ 12 Terphenyl-d14	244	11.266	11.272	-0.006	98	1017335	10.0	9.17	
13 1,4-Dioxane	88	2.378	2.372	0.006	91	68338	10.0	4.26	
14 N-Nitrosodimethylamine	74	2.907	2.907	0.000	89	178982	10.0	8.42	
15 Pyridine	79	2.978	2.966	0.012	96	364672	20.0	9.93	
30 Benzaldehyde	77	5.660	5.660	0.000	95	559157	20.0	17.2	
31 Phenol	94	5.737	5.731	0.006	99	452037	10.0	9.30	
32 Aniline	93	5.760	5.760	0.000	97	411438	10.0	7.16	
33 Bis(2-chloroethyl)ether	93	5.801	5.801	0.000	96	321377	10.0	8.17	
36 2-Chlorophenol	128	5.878	5.878	0.000	95	339428	10.0	8.68	
37 n-Decane	57	5.907	5.907	0.000	85	239324	10.0	6.28	
39 1,3-Dichlorobenzene	146	6.013	6.013	0.000	96	344218	10.0	7.90	
40 1,4-Dichlorobenzene	146	6.078	6.078	0.000	92	355991	10.0	8.16	
41 Benzyl alcohol	108	6.172	6.172	0.000	93	194349	10.0	7.66	
44 1,2-Dichlorobenzene	146	6.219	6.219	0.000	95	335677	10.0	8.14	
45 2-Methylphenol	108	6.272	6.272	0.000	95	313086	10.0	8.72	
46 2,2'-oxybis[1-chloropropane]	45	6.284	6.290	-0.006	86	335700	10.0	8.87	
47 Indene	115	6.295	6.296	-0.001	89	1161711	20.0	17.2	
50 N-Nitrosodi-n-propylamine	70	6.395	6.396	-0.001	87	238670	10.0	9.63	
48 3 & 4 Methylphenol	108	6.401	6.401	0.000	89	341102	10.0	9.08	
52 Acetophenone	105	6.401	6.407	-0.006	91	467001	10.0	8.63	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
54 Hexachloroethane	117	6.519	6.519	0.000	93	131563	10.0	7.85	
55 Nitrobenzene	77	6.560	6.560	0.000	90	359377	10.0	8.10	
57 Isophorone	82	6.760	6.760	0.000	98	663469	10.0	7.92	
59 2-Nitrophenol	139	6.836	6.837	-0.001	97	193422	10.0	9.10	
58 2,4-Dimethylphenol	107	6.854	6.854	0.000	95	229413	10.0	5.09	
63 Benzoic acid	105	6.913	6.919	-0.006	93	330737	20.0	14.1	M
64 Bis(2-chloroethoxy)methane	93	6.925	6.931	-0.006	98	384716	10.0	7.76	
66 2,4-Dichlorophenol	162	7.048	7.048	0.000	96	278135	10.0	7.81	
68 1,2,4-Trichlorobenzene	180	7.119	7.119	0.000	94	303094	10.0	7.78	
69 Naphthalene	128	7.189	7.195	-0.006	98	968083	10.0	7.82	
70 4-Chloroaniline	127	7.219	7.219	0.000	96	323804	10.0	6.46	
71 2,6-Dichlorophenol	162	7.236	7.237	-0.001	97	274884	10.0	7.83	
73 Hexachlorobutadiene	225	7.295	7.295	0.000	95	167603	10.0	6.84	
78 Caprolactam	113	7.501	7.501	0.000	82	245284	20.0	19.3	
80 4-Chloro-3-methylphenol	107	7.619	7.625	-0.006	95	287752	10.0	7.60	
82 2-Methylnaphthalene	142	7.778	7.778	0.000	95	668785	10.0	7.71	
83 1-Methylnaphthalene	142	7.860	7.860	0.000	95	657157	10.0	8.25	
85 Hexachlorocyclopentadiene	237	7.913	7.913	0.000	95	98672	10.0	4.03	
86 1,2,4,5-Tetrachlorobenzene	216	7.919	7.919	0.000	97	320658	10.0	7.86	
88 2,4,6-Trichlorophenol	196	8.007	8.007	0.000	94	223983	10.0	8.30	
89 2,4,5-Trichlorophenol	196	8.042	8.048	-0.006	93	231032	10.0	8.24	
92 1,1'-Biphenyl	154	8.160	8.160	0.000	95	845139	10.0	8.27	
96 2-Chloronaphthalene	162	8.189	8.190	-0.001	97	648106	10.0	8.24	
99 2-Nitroaniline	65	8.260	8.260	0.000	83	225341	10.0	9.90	
102 Dimethyl phthalate	163	8.389	8.390	-0.001	98	755138	10.0	8.52	
103 1,3-Dinitrobenzene	168	8.425	8.425	0.000	84	132612	10.0	9.31	
104 2,6-Dinitrotoluene	165	8.448	8.448	0.000	93	190373	10.0	9.17	
105 Acenaphthylene	152	8.542	8.548	-0.006	98	967381	10.0	7.84	
106 3-Nitroaniline	138	8.601	8.601	0.000	93	165695	10.0	10.3	
108 2,4-Dinitrophenol	184	8.683	8.684	-0.001	84	184564	20.0	14.3	
109 Acenaphthene	153	8.689	8.690	-0.001	93	655821	10.0	8.53	
110 4-Nitrophenol	109	8.725	8.725	0.000	95	256013	20.0	18.4	
111 2,4-Dinitrotoluene	165	8.789	8.795	-0.006	92	245611	10.0	9.12	
113 Dibenzofuran	168	8.831	8.831	-0.001	96	962673	10.0	8.48	
116 2,3,4,6-Tetrachlorophenol	232	8.930	8.931	-0.001	74	167477	10.0	7.45	
117 Hexadecane	57	8.978	8.978	0.000	97	435242	NC	NC	
118 Diethyl phthalate	149	8.978	8.978	0.000	98	801576	10.0	9.23	
122 4-Chlorophenyl phenyl ether	204	9.101	9.101	0.000	91	409518	10.0	8.85	
125 4-Nitroaniline	138	9.119	9.119	0.000	79	186325	10.0	11.3	
126 Fluorene	166	9.119	9.125	-0.006	95	781048	10.0	8.60	
127 4,6-Dinitro-2-methylphenol	198	9.142	9.142	0.000	86	295278	20.0	17.5	
129 Diphenylamine	169	9.195	9.195	0.000	95	570337	8.55	7.23	
128 N-Nitrosodiphenylamine	169	9.195	9.195	0.000	99	570337	10.0	8.51	
131 1,2-Diphenylhydrazine	77	9.230	9.237	-0.007	93	827427	10.0	9.06	
130 Azobenzene	77	9.230	9.237	-0.007	99	827373	10.0	9.06	
138 4-Bromophenyl phenyl ether	248	9.513	9.513	0.000	70	221098	10.0	8.25	
141 Hexachlorobenzene	284	9.595	9.601	-0.006	92	212023	10.0	7.39	
140 Atrazine	200	9.619	9.619	0.000	94	528361	20.0	19.6	
142 n-Octadecane	57	9.748	9.748	0.000	91	497869	10.0	10.4	
145 Pentachlorophenol	266	9.748	9.754	-0.006	69	159959	20.0	8.68	
149 Phenanthrene	178	9.936	9.936	0.000	97	1160694	10.0	8.62	
150 Anthracene	178	9.977	9.978	-0.001	97	1205822	10.0	9.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
152 Carbazole	167	10.101	10.101	0.000	96	1044649	10.0	12.6	
154 Di-n-butyl phthalate	149	10.342	10.342	0.000	100	1430199	10.0	9.58	
160 Fluoranthene	202	10.948	10.954	-0.006	97	1339785	10.0	9.02	
161 Benzidine	184	11.030	11.036	-0.006	99	483085	20.0	24.2	
163 Pyrene	202	11.166	11.166	0.000	98	1342270	10.0	9.13	
171 Butyl benzyl phthalate	149	11.736	11.736	0.000	99	622922	10.0	10.1	
176 Bis(2-ethylhexyl) phthalate	149	12.407	12.407	0.000	97	868324	10.0	9.92	
178 3,3'-Dichlorobenzidine	252	12.413	12.413	0.000	74	757633	20.0	34.3	
179 Benzo[a]anthracene	228	12.477	12.483	-0.006	98	1271275	10.0	9.23	
180 Chrysene	228	12.524	12.530	-0.006	96	1186249	10.0	8.71	
183 Di-n-octyl phthalate	149	13.307	13.313	-0.006	99	1501585	10.0	9.07	
185 Benzo[b]fluoranthene	252	14.001	14.007	-0.006	97	1278773	10.0	9.39	
186 Benzo[k]fluoranthene	252	14.042	14.048	-0.006	99	1229976	10.0	8.36	
187 Benzo[a]pyrene	252	14.507	14.513	-0.006	77	1064317	10.0	8.21	
191 Indeno[1,2,3-cd]pyrene	276	16.277	16.283	-0.006	98	1245235	10.0	9.54	
192 Dibenz(a,h)anthracene	278	16.289	16.295	-0.006	91	1117927	10.0	9.89	
193 Benzo[g,h,i]perylene	276	16.742	16.748	-0.006	99	1089967	10.0	9.12	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908009.D

Injection Date: 08-Sep-2022 15:07:41

Instrument ID: A4AG3

Operator ID:

Lims ID: LCS 240-541390/24-A

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

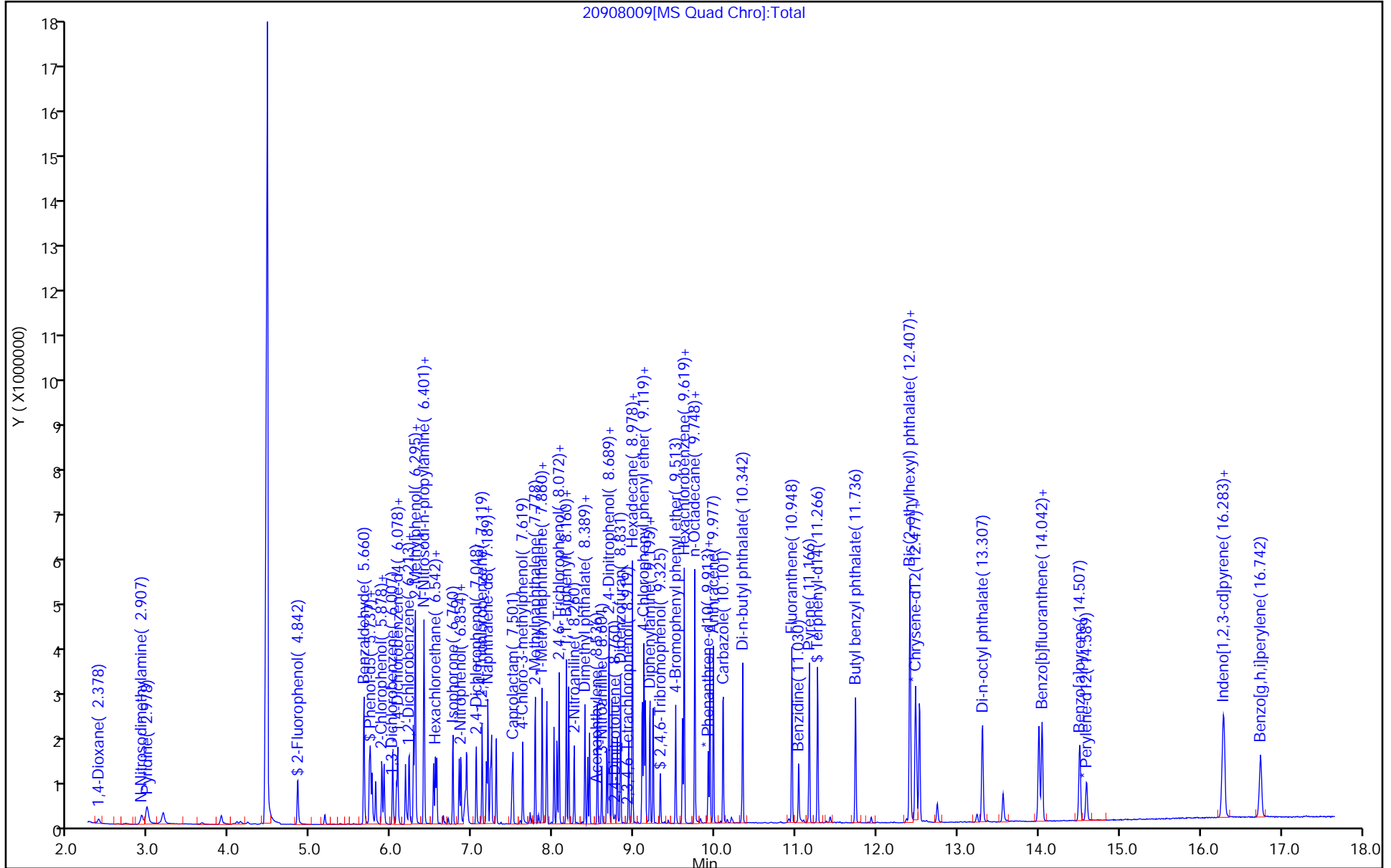
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\20908009.D
 Lims ID: LCS 240-541390/24-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Sep-2022 15:07:41 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121919-009
 Misc. Info.: LCS 240-541390/24-A
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220908-121919.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 09-Sep-2022 12:00:35 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1674

First Level Reviewer: KDZ4

Date: 08-Sep-2022 15:33:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	9.18	91.79
\$ 8 Phenol-d5	10.0	9.25	92.48
\$ 9 Nitrobenzene-d5	10.0	8.58	85.82
\$ 10 2-Fluorobiphenyl (Surr)	10.0	8.89	88.93
\$ 11 2,4,6-Tribromophenol	10.0	7.64	76.41
\$ 12 Terphenyl-d14	10.0	9.17	91.70

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MS Lab Sample ID: 500-221506-5 MS
 Matrix: Solid Lab File ID: 20909015.D
 Analysis Method: 8270E Date Collected: 08/29/2022 14:15
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 29.63(g) Date Analyzed: 09/09/2022 16:44
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	0.606		0.020	
208-96-8	Acenaphthylene	0.563		0.020	
120-12-7	Anthracene	0.679		0.020	
56-55-3	Benzo[a]anthracene	0.653		0.020	
50-32-8	Benzo[a]pyrene	0.578		0.020	
205-99-2	Benzo[b]fluoranthene	0.638		0.020	
191-24-2	Benzo[g,h,i]perylene	0.625		0.020	
207-08-9	Benzo[k]fluoranthene	0.599		0.020	
218-01-9	Chrysene	0.627		0.020	
53-70-3	Dibenz(a,h)anthracene	0.668		0.020	
206-44-0	Fluoranthene	0.693		0.020	
86-73-7	Fluorene	0.615		0.020	
193-39-5	Indeno[1,2,3-cd]pyrene	0.659		0.020	
91-20-3	Naphthalene	0.502		0.020	
85-01-8	Phenanthrene	0.649		0.020	
129-00-0	Pyrene	0.684		0.020	
90-12-0	1-Methylnaphthalene	0.536		0.020	
91-57-6	2-Methylnaphthalene	0.501		0.020	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	75		46-137
4165-62-2	Phenol-d5 (Surr)	71		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	65		25-120
367-12-4	2-Fluorophenol (Surr)	73		20-120
321-60-8	2-Fluorobiphenyl (Surr)	68		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	65		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909015.D
 Lims ID: 500-221506-F-5-B MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 09-Sep-2022 16:44:54 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-015
 Misc. Info.: 500-221506-F-5-B MS
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:15:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	95	124043	4.00	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	99	436678	4.00	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	92	251575	4.00	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	97	417159	4.00	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	98	391296	4.00	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	98	387930	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	93	271285	10.0	7.34	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	75	326369	10.0	7.14	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	92	264195	10.0	6.50	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	100	527319	10.0	6.83	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	88	64432	10.0	6.52	
\$ 12 Terphenyl-d14	244	11.201	11.207	-0.006	97	705924	10.0	7.47	
69 Naphthalene	128	7.137	7.137	0.000	98	619892	10.0	5.60	
82 2-Methylnaphthalene	142	7.719	7.719	0.000	92	433425	10.0	5.59	
83 1-Methylnaphthalene	142	7.807	7.807	0.000	94	426262	10.0	5.98	
105 Acenaphthylene	152	8.490	8.490	0.000	98	678014	10.0	6.29	
109 Acenaphthene	153	8.631	8.637	-0.006	87	454687	10.0	6.76	
126 Fluorene	166	9.066	9.066	0.000	94	544997	10.0	6.87	
149 Phenanthrene	178	9.878	9.878	0.000	98	767926	10.0	7.24	
150 Anthracene	178	9.919	9.925	-0.006	98	781147	10.0	7.57	
160 Fluoranthene	202	10.889	10.889	0.000	96	904945	10.0	7.73	
163 Pyrene	202	11.101	11.101	0.000	98	955355	10.0	7.63	
179 Benzo[a]anthracene	228	12.395	12.401	-0.006	98	854795	10.0	7.28	
180 Chrysene	228	12.442	12.448	-0.006	96	811682	10.0	7.00	
185 Benzo[b]fluoranthene	252	13.901	13.907	-0.006	97	830276	10.0	7.12	
186 Benzo[k]fluoranthene	252	13.936	13.948	-0.012	98	841804	10.0	6.69	
187 Benzo[a]pyrene	252	14.395	14.407	-0.012	77	715463	10.0	6.45	
191 Indeno[1,2,3-cd]pyrene	276	16.142	16.148	-0.006	98	821291	10.0	7.35	
192 Dibenz(a,h)anthracene	278	16.160	16.172	-0.012	93	721344	10.0	7.46	
193 Benzo[g,h,i]perylene	276	16.595	16.607	-0.012	99	713165	10.0	6.98	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909015.D

Injection Date: 09-Sep-2022 16:44:54

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-5-B MS

Worklist Smp#: 15

Client ID: B-5 (8'-10')

Injection Vol: 1.0 ul

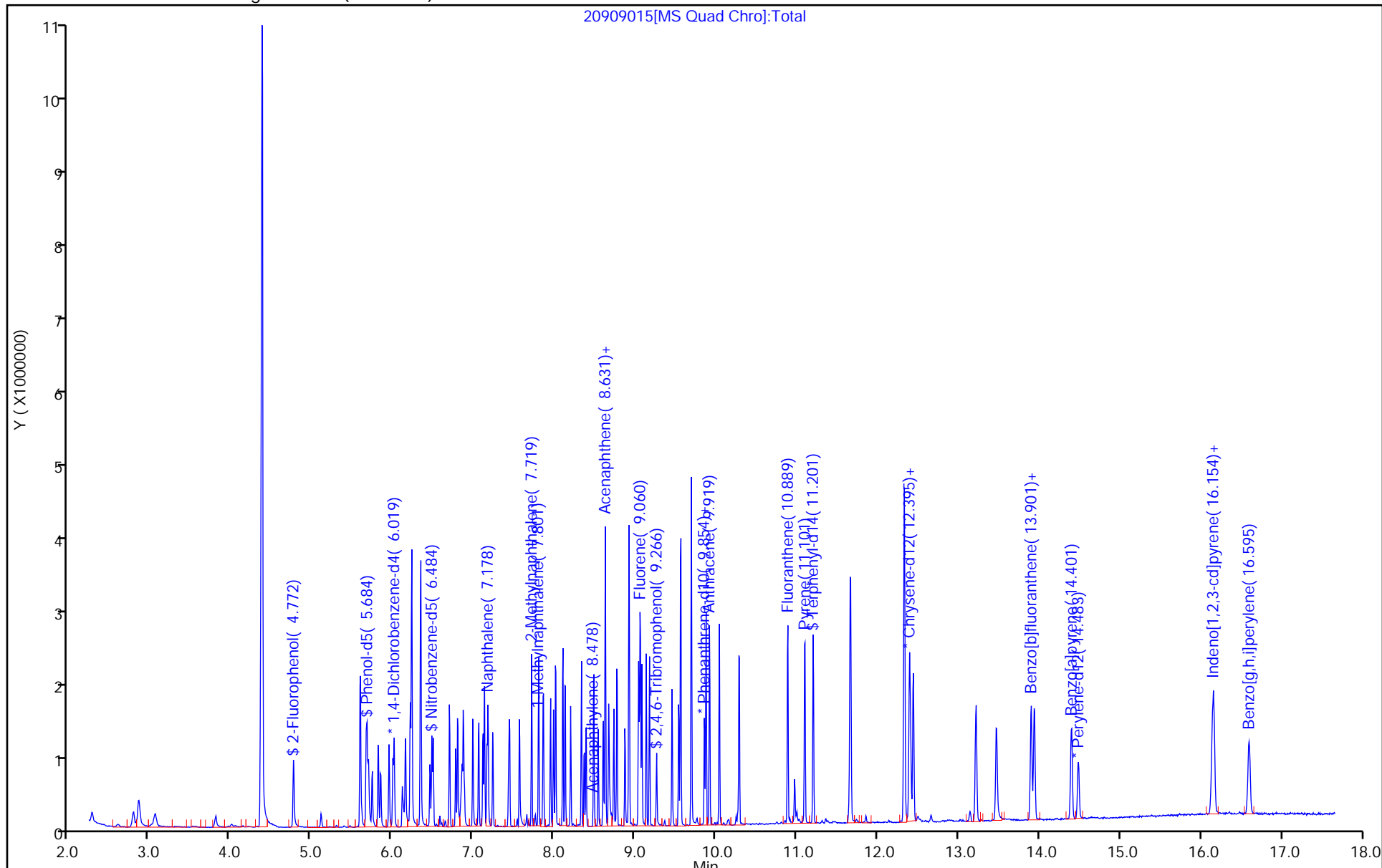
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909015.D
 Lims ID: 500-221506-F-5-B MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 09-Sep-2022 16:44:54 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-015
 Misc. Info.: 500-221506-F-5-B MS
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:15:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	7.34	73.40
\$ 8 Phenol-d5	10.0	7.14	71.45
\$ 9 Nitrobenzene-d5	10.0	6.50	65.02
\$ 10 2-Fluorobiphenyl (Surr)	10.0	6.83	68.31
\$ 11 2,4,6-Tribromophenol	10.0	6.52	65.16
\$ 12 Terphenyl-d14	10.0	7.47	74.70

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MSD Lab Sample ID: 500-221506-5 MSD
 Matrix: Solid Lab File ID: 20909016.D
 Analysis Method: 8270E Date Collected: 08/29/2022 14:15
 Extract. Method: 3540C Date Extracted: 09/06/2022 09:17
 Sample wt/vol: 29.92(g) Date Analyzed: 09/09/2022 17:07
 Con. Extract Vol.: 2(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: RXI-5SILMS/IIG ID: 0.25(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____ Level: (low/med) Low
 Analysis Batch No.: 542054 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
83-32-9	Acenaphthene	0.591		0.020	
208-96-8	Acenaphthylene	0.543		0.020	
120-12-7	Anthracene	0.675		0.020	
56-55-3	Benzo[a]anthracene	0.698		0.020	
50-32-8	Benzo[a]pyrene	0.604		0.020	
205-99-2	Benzo[b]fluoranthene	0.691		0.020	
191-24-2	Benzo[g,h,i]perylene	0.699		0.020	
207-08-9	Benzo[k]fluoranthene	0.625		0.020	
218-01-9	Chrysene	0.668		0.020	
53-70-3	Dibenz(a,h)anthracene	0.759		0.020	
206-44-0	Fluoranthene	0.676		0.020	
86-73-7	Fluorene	0.623		0.020	
193-39-5	Indeno[1,2,3-cd]pyrene	0.733		0.020	
91-20-3	Naphthalene	0.425		0.020	
85-01-8	Phenanthrene	0.639		0.020	
129-00-0	Pyrene	0.698		0.020	
90-12-0	1-Methylnaphthalene	0.476		0.020	
91-57-6	2-Methylnaphthalene	0.417		0.020	

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	78		46-137
4165-62-2	Phenol-d5 (Surr)	56		26-120
4165-60-0	Nitrobenzene-d5 (Surr)	50		25-120
367-12-4	2-Fluorophenol (Surr)	51		20-120
321-60-8	2-Fluorobiphenyl (Surr)	63		34-120
118-79-6	2,4,6-Tribromophenol (Surr)	70		10-120

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909016.D
 Lims ID: 500-221506-F-5-C MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 09-Sep-2022 17:07:13 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-016
 Misc. Info.: 500-221506-F-5-C MSD
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:15:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	96	119436	4.00	4.00	
* 2 Naphthalene-d8	136	7.119	7.119	0.000	100	453841	4.00	4.00	
* 3 Acenaphthene-d10	164	8.607	8.607	0.000	92	260120	4.00	4.00	
* 4 Phenanthrene-d10	188	9.854	9.860	-0.006	96	482415	4.00	4.00	
* 5 Chrysene-d12	240	12.407	12.413	-0.006	99	421613	4.00	4.00	
* 6 Perylene-d12	264	14.483	14.489	-0.006	97	410373	4.00	4.00	
\$ 7 2-Fluorophenol	112	4.772	4.754	0.018	91	180704	10.0	5.08	
\$ 8 Phenol-d5	99	5.672	5.666	0.006	74	244763	10.0	5.57	
\$ 9 Nitrobenzene-d5	82	6.484	6.484	0.000	92	212928	10.0	5.04	
\$ 10 2-Fluorobiphenyl (Surr)	172	8.019	8.019	0.000	99	499544	10.0	6.26	
\$ 11 2,4,6-Tribromophenol	330	9.266	9.272	-0.006	90	71068	10.0	6.95	
\$ 12 Terphenyl-d14	244	11.201	11.207	-0.006	98	795087	10.0	7.81	
69 Naphthalene	128	7.137	7.137	0.000	98	551381	10.0	4.79	
82 2-Methylnaphthalene	142	7.719	7.719	0.000	93	378145	10.0	4.69	
83 1-Methylnaphthalene	142	7.807	7.807	0.000	93	397161	10.0	5.37	
105 Acenaphthylene	152	8.490	8.490	0.000	98	682530	10.0	6.12	
109 Acenaphthene	153	8.631	8.637	-0.006	87	463172	10.0	6.66	
126 Fluorene	166	9.066	9.066	0.000	93	576326	10.0	7.02	
149 Phenanthrene	178	9.878	9.878	0.000	97	882415	10.0	7.20	
150 Anthracene	178	9.919	9.925	-0.006	97	907404	10.0	7.61	
160 Fluoranthene	202	10.889	10.889	0.000	97	1030091	10.0	7.61	
163 Pyrene	202	11.101	11.101	0.000	98	1061521	10.0	7.87	
179 Benzo[a]anthracene	228	12.395	12.401	-0.006	98	993915	10.0	7.86	
180 Chrysene	228	12.442	12.448	-0.006	97	940678	10.0	7.53	
185 Benzo[b]fluoranthene	252	13.901	13.907	-0.006	97	959998	10.0	7.78	
186 Benzo[k]fluoranthene	252	13.936	13.948	-0.012	98	937766	10.0	7.04	
187 Benzo[a]pyrene	252	14.395	14.407	-0.012	77	798666	10.0	6.81	
191 Indeno[1,2,3-cd]pyrene	276	16.142	16.148	-0.006	99	975456	10.0	8.25	
192 Dibenz(a,h)anthracene	278	16.160	16.172	-0.012	90	875085	10.0	8.55	
193 Benzo[g,h,i]perylene	276	16.595	16.607	-0.012	99	851546	10.0	7.87	

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SMIS80PPMW_00025

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909016.D

Injection Date: 09-Sep-2022 17:07:13

Instrument ID: A4AG3

Operator ID:

Lims ID: 500-221506-F-5-C MSD

Worklist Smp#: 16

Client ID: B-5 (8'-10')

Injection Vol: 1.0 ul

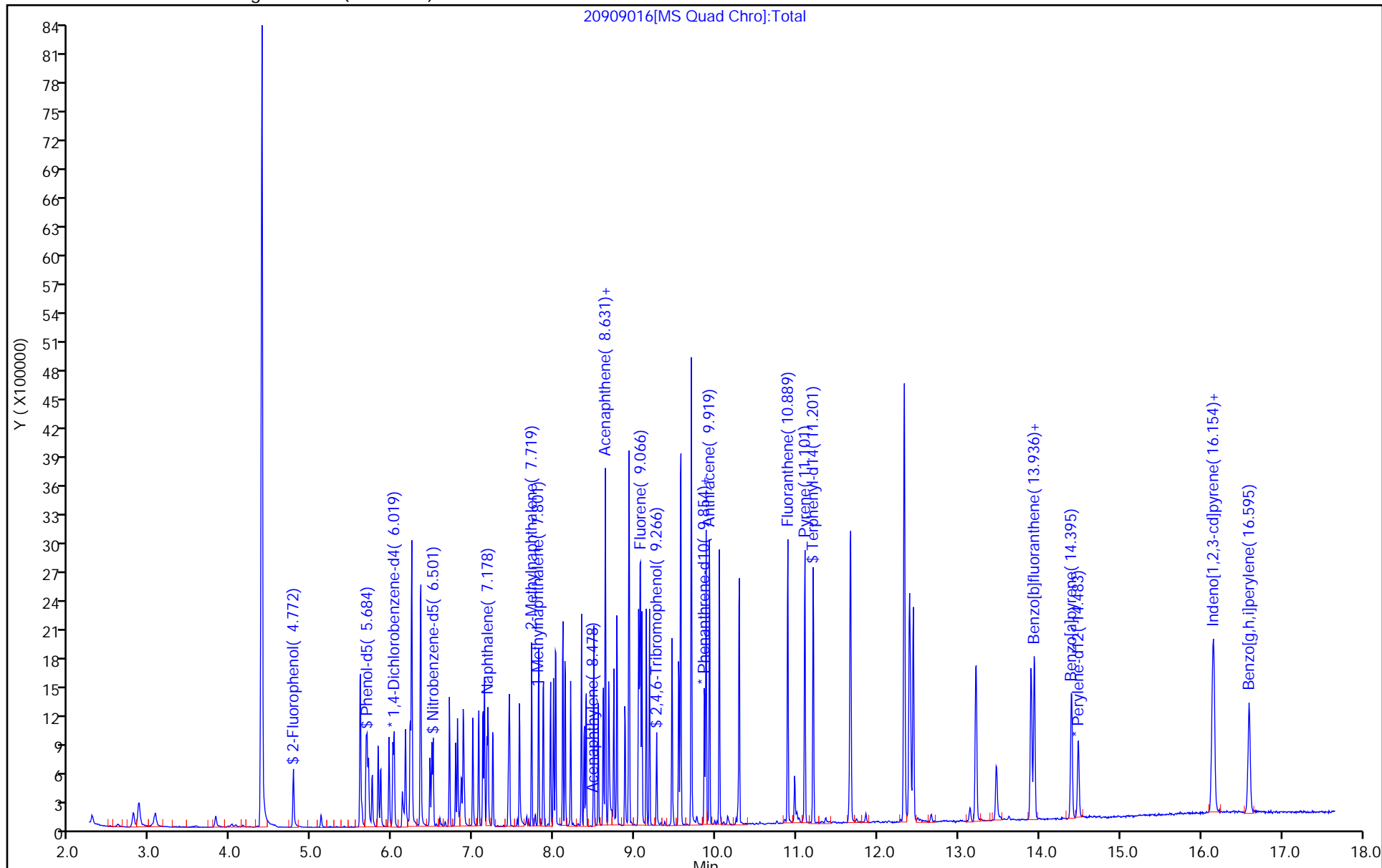
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270 AG3

Limit Group: MSS 8270D ICAL

Column: RXI-5SIL MS w/Integra-Guard (0.25 mm)



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\20909016.D
 Lims ID: 500-221506-F-5-C MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 09-Sep-2022 17:07:13 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121962-016
 Misc. Info.: 500-221506-F-5-C MSD
 Operator ID: Instrument ID: A4AG3
 Method: \\chromfs\Canton\ChromData\A4AG3\20220909-121962.b\8270 AG3.m
 Limit Group: MSS 8270D ICAL
 Last Update: 12-Sep-2022 13:35:52 Calib Date: 23-Aug-2022 16:43:13
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A4AG3\20220823-121510.b\20823011.D
 Column 1 : RXI-5SIL MS w/Integra-Guard (0.25 mm) Det: MS SCAN
 Process Host: CTX1660

First Level Reviewer: KDZ4

Date: 12-Sep-2022 13:15:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	10.0	5.08	50.78
\$ 8 Phenol-d5	10.0	5.57	55.65
\$ 9 Nitrobenzene-d5	10.0	5.04	50.42
\$ 10 2-Fluorobiphenyl (Surr)	10.0	6.26	62.59
\$ 11 2,4,6-Tribromophenol	10.0	6.95	69.51
\$ 12 Terphenyl-d14	10.0	7.81	78.09

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Start Date: 08/19/2022 10:42

Analysis Batch Number: 539537 End Date: 08/19/2022 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-539537/1		08/19/2022 10:42	1	20819001.D	RXI-5SILMS/IIG 0.25 (mm)
STD5 240-539537/2 IC		08/19/2022 11:04	1	20819002.D	RXI-5SILMS/IIG 0.25 (mm)
STD4 240-539537/3 IC		08/19/2022 11:27	1	20819003.D	RXI-5SILMS/IIG 0.25 (mm)
STD3 240-539537/4 IC		08/19/2022 11:50	1	20819004.D	RXI-5SILMS/IIG 0.25 (mm)
STD2 240-539537/5 IC		08/19/2022 12:14	1	20819005.D	RXI-5SILMS/IIG 0.25 (mm)
STD1 240-539537/6 IC		08/19/2022 12:37	1	20819006.D	RXI-5SILMS/IIG 0.25 (mm)
STD6 240-539537/7 ICIS		08/19/2022 13:00	1	20819007.D	RXI-5SILMS/IIG 0.25 (mm)
STD7 240-539537/8 IC		08/19/2022 13:23	1	20819008.D	RXI-5SILMS/IIG 0.25 (mm)
STD8 240-539537/9 IC		08/19/2022 13:46	1	20819009.D	RXI-5SILMS/IIG 0.25 (mm)
STD9 240-539537/10 IC		08/19/2022 14:09	1	20819010.D	RXI-5SILMS/IIG 0.25 (mm)
ICV 240-539537/11		08/19/2022 14:32	1	20819011.D	RXI-5SILMS/IIG 0.25 (mm)
STD5 240-539537/21 IC		08/19/2022 18:23	1		RXI-5SILMS/IIG 0.25 (mm)
STD4 240-539537/22 IC		08/19/2022 18:46	1		RXI-5SILMS/IIG 0.25 (mm)
STD3 240-539537/23 IC		08/19/2022 19:10	1		RXI-5SILMS/IIG 0.25 (mm)
STD2 240-539537/24 IC		08/19/2022 19:33	1		RXI-5SILMS/IIG 0.25 (mm)
STD6 240-539537/25 IC		08/19/2022 19:56	1		RXI-5SILMS/IIG 0.25 (mm)
STD7 240-539537/26 IC		08/19/2022 20:19	1		RXI-5SILMS/IIG 0.25 (mm)
STD8 240-539537/27 IC		08/19/2022 20:42	1		RXI-5SILMS/IIG 0.25 (mm)
STD9 240-539537/28 IC		08/19/2022 21:05	1		RXI-5SILMS/IIG 0.25 (mm)
ICV 240-539537/29		08/19/2022 21:28	1		RXI-5SILMS/IIG 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Start Date: 09/08/2022 12:44

Analysis Batch Number: 541870 End Date: 09/09/2022 00:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-541870/1		09/08/2022 12:44	1	20908001.D	RXI-5SILMS/IIG 0.25 (mm)
CCV 240-541870/2 CCVIS		09/08/2022 13:06	1	20908002.D	RXI-5SILMS/IIG 0.25 (mm)
LODV 240-541870/4		09/08/2022 13:34	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 14:01	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 14:23	1		RXI-5SILMS/IIG 0.25 (mm)
MB 240-541390/23-A		09/08/2022 14:45	1	20908008.D	RXI-5SILMS/IIG 0.25 (mm)
LCS 240-541390/24-A		09/08/2022 15:07	1	20908009.D	RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 15:52	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 16:14	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 16:36	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 16:58	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 17:20	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 17:42	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 18:04	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 18:27	40		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 18:49	2.5		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 19:11	2.5		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 19:33	2.5		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 19:55	2		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 20:17	10		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 20:39	10		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 21:01	6.667		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 21:23	6.667		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 21:45	25		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 22:07	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 22:29	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 22:51	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 23:13	2		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 23:35	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/08/2022 23:57	10		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 00:20	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 00:42	1		RXI-5SILMS/IIG 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A4AG3 Start Date: 09/09/2022 11:34

Analysis Batch Number: 542054 End Date: 09/09/2022 20:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-542054/1		09/09/2022 11:34	1	20909001.D	RXI-5SILMS/IIG 0.25 (mm)
CCV 240-542054/2 CCVIS		09/09/2022 11:56	1	20909002.D	RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 12:51	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 13:13	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 13:45	20		RXI-5SILMS/IIG 0.25 (mm)
500-221506-2	B-2 (2'-4')	09/09/2022 14:07	1	20909008.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-4	B-4 (20'-22')	09/09/2022 14:29	1	20909009.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-1	B-1 (6'-8')	09/09/2022 14:51	1	20909010.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-3	B-3 (22'-23.5')	09/09/2022 15:13	1	20909011.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-6	B-6 (30'-32')	09/09/2022 15:38	1	20909012.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-8	Dup-1	09/09/2022 16:00	1	20909013.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-5	B-5 (8'-10')	09/09/2022 16:22	1	20909014.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-5 MS	B-5 (8'-10') MS	09/09/2022 16:44	1	20909015.D	RXI-5SILMS/IIG 0.25 (mm)
500-221506-5 MSD	B-5 (8'-10') MSD	09/09/2022 17:07	1	20909016.D	RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 17:29	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 17:51	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 18:13	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 18:35	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 18:58	1		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 19:20	20		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 19:42	20		RXI-5SILMS/IIG 0.25 (mm)
ZZZZZ		09/09/2022 20:04	20		RXI-5SILMS/IIG 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539537 Batch Start Date: 08/19/22 10:42 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	SMDFTPPW 00024	SMLIST1 L1+ W 00013	SMLIST1 L2 W 00019	SMLIST1 L3 W 00019	SMLIST1 L4 W 00019
DFTPP 240-539537/1		8270E		Perform Calculation left blank	1 mL				
STD5 240-539537/2 IC		8270E		Perform Calculation left blank					
STD4 240-539537/3 IC		8270E		Perform Calculation left blank					1 mL
STD3 240-539537/4 IC		8270E		Perform Calculation left blank				1 mL	
STD2 240-539537/5 IC		8270E		Perform Calculation left blank			1 mL		
STD1 240-539537/6 IC		8270E		Perform Calculation left blank		1 mL			
STD6 240-539537/7 ICIS		8270E		Perform Calculation left blank					
STD7 240-539537/8 IC		8270E		Perform Calculation left blank					
STD8 240-539537/9 IC		8270E		Perform Calculation left blank					
STD9 240-539537/10 IC		8270E		Perform Calculation left blank					
ICV 240-539537/11		8270E		Perform Calculation left blank					

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 L5 W 00019	SMLIST1 L6 W 00019	SMLIST1 L7 W 00019	SMLIST1 L8 W 00019	SMLIST1 L9 W 00019	SMLIST1 SS W 00019
DFTPP 240-539537/1		8270E							
STD5 240-539537/2 IC		8270E		1 mL					
STD4 240-539537/3 IC		8270E							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539537 Batch Start Date: 08/19/22 10:42 Batch Analyst: Ulman, Mark

Batch Method: 8270E Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SMLIST1 L5 W 00019	SMLIST1 L6 W 00019	SMLIST1 L7 W 00019	SMLIST1 L8 W 00019	SMLIST1 L9 W 00019	SMLIST1 SS W 00019
STD3 240-539537/4 IC		8270E							
STD2 240-539537/5 IC		8270E							
STD1 240-539537/6 IC		8270E							
STD6 240-539537/7 ICIS		8270E			1 mL				
STD7 240-539537/8 IC		8270E				1 mL			
STD8 240-539537/9 IC		8270E					1 mL		
STD9 240-539537/10 IC		8270E						1 mL	
ICV 240-539537/11		8270E							1 mL

Batch Notes	
Dilution Solution ID	5730286

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 541390 Batch Start Date: 09/06/22 14:59 Batch Analyst: Cook, Thomas E

Batch Method: 3540C Batch End Date: 09/07/22 06:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	exBENZALDEHYD 00080	exBNASPIKE 00122	exBNASURR W 00103	
500-221506-F-1	B-1 (6'-8')	3540C, 8270E	T	30.06 g	2 mL			1 mL	
500-221506-F-2	B-2 (2'-4')	3540C, 8270E	T	29.63 g	2 mL			1 mL	
500-221506-F-3	B-3 (22'-23.5')	3540C, 8270E	T	30.23 g	2 mL			1 mL	
500-221506-F-4	B-4 (20'-22')	3540C, 8270E	T	30.35 g	2 mL			1 mL	
500-221506-F-5	B-5 (8'-10')	3540C, 8270E	T	29.64 g	2 mL			1 mL	
500-221506-F-5	B-5 (8'-10')	3540C, 8270E	T	29.63 g	2 mL	1 mL	1 mL	1 mL	
MS									
500-221506-F-5	B-5 (8'-10')	3540C, 8270E	T	29.92 g	2 mL	1 mL	1 mL	1 mL	
MSD									
500-221506-F-6	B-6 (30'-32')	3540C, 8270E	T	30.38 g	2 mL			1 mL	
500-221506-F-8	Dup-1	3540C, 8270E	T	30.07 g	2 mL			1 mL	
MB		3540C, 8270E		30 g	2 mL			1 mL	
240-541390/23									
LCS		3540C, 8270E		30 g	2 mL	1 mL	1 mL	1 mL	
240-541390/24									

Batch Notes	
Balance ID	1339908
Analyst ID - Extraction	THOMAS COOK
Analyst ID - Spike Analyst	THOMAS COOK
Prep Solvent ID	5508008
Na2SO4 ID	5382427
Glass Wool ID	3894706
Analyst ID - Concentration	BRITTANY BLYTHE LUCAS GROSSMAN EBONE FORD

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): CLP-2 (0.53 ID: 0.53 (mm))

Client Sample ID	Lab Sample ID	TCX1 #	DCBP1 #
B-1 (6'-8')	500-221506-1	82	86
B-2 (2'-4')	500-221506-2	32	41
B-3 (22'-23.5')	500-221506-3	30	39
B-4 (20'-22')	500-221506-4	32	38
B-5 (8'-10')	500-221506-5	44	40
B-6 (30'-32')	500-221506-6	33	41
Dup-1	500-221506-8	49	46
	MB 240-541803/18-A	90	103
	LCS 240-541803/19-A	84	94
B-5 (8'-10') MS	500-221506-5 MS	55	61
B-5 (8'-10') MSD	500-221506-5 MSD	75	79

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC LIMITS
10-149
10-174

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: P4090910.D
 Lab ID: LCS 240-541803/19-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.00	0.780	78	28-140	
PCB-1260	1.00	0.823	82	39-153	

Column to be used to flag recovery and RPD values
 FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: P4090918.D
 Lab ID: 500-221506-5 MS Client ID: B-5 (8'-10') MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	1.27	<0.065	0.642	51	10-146	
PCB-1260	1.27	<0.065	0.671	53	10-158	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: P4090919.D
 Lab ID: 500-221506-5 MSD Client ID: B-5 (8'-10') MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	1.30	0.896	69	33	40	10-146	
PCB-1260	1.30	0.918	71	31	40	10-158	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: MB 240-541803/18-A
 Matrix: Solid Date Extracted: 09/08/2022 09:19
 Lab File ID: (1) P4090909.D Lab File ID: (2) P4090909.D
 Date Analyzed: (1) 09/09/2022 15:18 Date Analyzed: (2) 09/09/2022 15:18
 Instrument ID: (1) A2HP4 Instrument ID: (2) A2HP4
 GC Column: (1) CLP-2 (0.53m ID: 0.53(mm)) GC Column: (2) CLP-1 (0.53m ID: 0.53(mm))

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-541803/19-A	09/09/2022 15:36	09/09/2022 15:36
B-3 (22'-23.5')	500-221506-3	09/09/2022 17:05	09/09/2022 17:05
B-4 (20'-22')	500-221506-4	09/09/2022 17:23	09/09/2022 17:23
B-5 (8'-10')	500-221506-5	09/09/2022 17:41	09/09/2022 17:41
B-5 (8'-10') MS	500-221506-5 MS	09/09/2022 17:58	09/09/2022 17:58
B-5 (8'-10') MSD	500-221506-5 MSD	09/09/2022 18:16	09/09/2022 18:16
B-6 (30'-32')	500-221506-6	09/09/2022 18:34	09/09/2022 18:34
Dup-1	500-221506-8	09/09/2022 18:51	09/09/2022 18:51
B-1 (6'-8')	500-221506-1	09/12/2022 11:05	09/12/2022 11:05
B-2 (2'-4')	500-221506-2	09/12/2022 11:23	09/12/2022 11:23

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD05 240-539023/31 Date Analyzed: 08/16/2022 18:14
 Instrument ID: A2HP4 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm)
 Lab File ID (Standard): P4081631.D Heated Purge: (Y/N) N
 Calibration ID: 67260

	BNB		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	35974207	1.75				
UPPER LIMIT	71948414	2.25				
LOWER LIMIT	17987104	1.25				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-539023/34		35144954	1.74			
ICV 240-539023/35		36277088	1.75			
ICV 240-539023/36		35590553	1.75			
ICV 240-539023/37		35041887	1.75			
ICV 240-539023/38		31713717	1.75			
ICV 240-539023/39		33474106	1.76			
ICV 240-539023/40		34023807	1.76			
ICV 240-539023/41		31650813	1.76			

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: STD05 240-539023/31 Date Analyzed: 08/16/2022 18:14
 Instrument ID: A2HP4 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm)
 Lab File ID (Standard): P4081631.D Heated Purge: (Y/N) N
 Calibration ID: 67261

	BNB		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	49897257	2.02				
UPPER LIMIT	99794514	2.52				
LOWER LIMIT	24948629	1.52				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-539023/34		48959645	2.01			
ICV 240-539023/35		50811913	2.02			
ICV 240-539023/36		49241227	2.02			
ICV 240-539023/37		49071703	2.02			
ICV 240-539023/38		44487994	2.02			
ICV 240-539023/39		46519528	2.03			
ICV 240-539023/40		47572755	2.03			
ICV 240-539023/41		44419818	2.03			
CCV 240-542067/3 CCVIS		45524903	2.01			
CCVIS 240-542067/27		42377006	2.01			
CCV 240-542120/7 CCVIS		41389742	2.01			

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-542067/3 Date Analyzed: 09/09/2022 13:32
 Instrument ID: A2HP4 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm)
 Lab File ID (Standard): P4090903.D Heated Purge: (Y/N) N
 Calibration ID: 67261

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		45524903	2.01				
UPPER LIMIT		91049806	2.51				
LOWER LIMIT		22762452	1.51				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-542067/4		44017487	2.01				
CCV 240-542067/5		41917685	2.01				
CCV 240-542067/6		46496587	2.01				
CCV 240-542067/7		44723632	2.01				
MB 240-541803/18-A		41032797	2.01				
LCS 240-541803/19-A		43486921	2.02				
500-221506-3	B-3 (22'-23.5')	40830912	2.01				
500-221506-4	B-4 (20'-22')	43308441	2.01				
500-221506-5	B-5 (8'-10')	42994221	2.01				
500-221506-5 MS	B-5 (8'-10') MS	40528823	2.01				
500-221506-5 MSD	B-5 (8'-10') MSD	43685735	2.01				
500-221506-6	B-6 (30'-32')	39943273	2.01				
500-221506-8	Dup-1	43575057	2.01				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Sample No.: CCV 240-542120/7 Date Analyzed: 09/12/2022 07:59
 Instrument ID: A2HP4 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm)
 Lab File ID (Standard): P4091207.D Heated Purge: (Y/N) N
 Calibration ID: 67261

	BNB		#	RT #	#	RT #
	AREA #	RT #				
12/24 HOUR STD	41389742	2.01				
UPPER LIMIT	82779484	2.51				
LOWER LIMIT	20694871	1.51				
LAB SAMPLE ID	CLIENT SAMPLE ID					
500-221506-1	B-1 (6'-8')	47727717	2.01			
500-221506-2	B-2 (2'-4')	45787694	2.02			

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-541803/19-A
 Instrument ID (1): A2HP4 Instrument ID (2): A2HP4
 Date Analyzed (1): 09/09/2022 15:36 Date Analyzed (2): 09/09/2022 15:36
 GC Column (1): CLP-2 (0.53mm ID: 0.53(mm)) GC Column (2): CLP-1 (0.53mm ID: 0.53(mm))

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.34	4.32	4.36	763	0.780	0.9
		2	4.94	4.92	4.96	772		
		3	5.53	5.51	5.55	793		
		4	5.70	5.68	5.71	784		
		5	5.95	5.93	5.97	786		
	2	1	3.42	3.39	3.43	763	0.773	
		2	3.99	3.96	4.00	755		
		3	4.65	4.63	4.67	784		
		4	4.83	4.80	4.84	783		
		5	5.15	5.12	5.16	778		
PCB-1260	1	1	7.59	7.57	7.61	817	0.823	2.3
		2	7.80	7.78	7.82	821		
		3	8.14	8.12	8.16	826		
		4	8.72	8.71	8.74	829		
		5	9.04	9.02	9.06	820		
	2	1	6.71	6.69	6.73	785	0.804	
		2	7.00	6.98	7.02	804		
		3	7.28	7.26	7.30	789		
		4	7.94	7.92	7.96	830		
		5	8.20	8.18	8.22	811		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MS Lab Sample ID: 500-221506-5 MS
 Instrument ID (1): A2HP4 Instrument ID (2): A2HP4
 Date Analyzed (1): 09/09/2022 17:58 Date Analyzed (2): 09/09/2022 17:58
 GC Column (1): CLP-2 (0.53mm ID: 0.53(mm)) GC Column (2): CLP-1 (0.53mm ID: 0.53(mm))

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.34	4.32	4.36	645	0.642	0.4
		2	4.93	4.92	4.96	638		
		3	5.53	5.51	5.55	640		
		4	5.69	5.68	5.71	640		
		5	5.94	5.93	5.97	649		
	2	1	3.40	3.39	3.43	653	0.640	
		2	3.98	3.96	4.00	634		
		3	4.64	4.63	4.67	631		
		4	4.82	4.80	4.84	639		
		5	5.14	5.12	5.16	643		
PCB-1260	1	1	7.59	7.57	7.61	668	0.671	3.6
		2	7.80	7.78	7.82	672		
		3	8.14	8.12	8.16	676		
		4	8.72	8.71	8.74	671		
		5	9.04	9.02	9.06	668		
	2	1	6.71	6.69	6.73	635	0.647	
		2	7.00	6.98	7.02	647		
		3	7.27	7.26	7.30	637		
		4	7.94	7.92	7.96	665		
		5	8.20	8.18	8.22	652		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MSD Lab Sample ID: 500-221506-5 MSD
 Instrument ID (1): A2HP4 Instrument ID (2): A2HP4
 Date Analyzed (1): 09/09/2022 18:16 Date Analyzed (2): 09/09/2022 18:16
 GC Column (1): CLP-2 (0.53mm ID: 0.53(mm)) GC Column (2): CLP-1 (0.53mm ID: 0.53(mm))

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.33	4.32	4.36	886	0.896	1.2
		2	4.93	4.92	4.96	881		
		3	5.53	5.51	5.55	906		
		4	5.69	5.68	5.71	897		
		5	5.94	5.93	5.97	907		
	2	1	3.40	3.39	3.43	878	0.885	
		2	3.98	3.96	4.00	873		
		3	4.64	4.63	4.67	889		
		4	4.82	4.80	4.84	899		
		5	5.14	5.12	5.16	884		
PCB-1260	1	1	7.59	7.57	7.61	922	0.918	2.3
		2	7.80	7.78	7.82	925		
		3	8.14	8.12	8.16	929		
		4	8.72	8.71	8.74	915		
		5	9.04	9.02	9.06	901		
	2	1	6.71	6.69	6.73	889	0.897	
		2	7.00	6.98	7.02	905		
		3	7.28	7.26	7.30	885		
		4	7.94	7.92	7.96	916		
		5	8.20	8.18	8.22	893		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-1 (6'-8') Lab Sample ID: 500-221506-1
 Matrix: Solid Lab File ID: P4091217.D
 Analysis Method: 8082A Date Collected: 08/29/2022 10:10
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.35(g) Date Analyzed: 09/12/2022 11:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 22.0 % Solids: 78.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542120 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.062		0.062	
11104-28-2	PCB-1221	<0.062		0.062	
11141-16-5	PCB-1232	<0.062		0.062	
53469-21-9	PCB-1242	<0.062		0.062	
12672-29-6	PCB-1248	<0.062		0.062	
11097-69-1	PCB-1254	<0.062		0.062	
11096-82-5	PCB-1260	<0.062		0.062	
1336-36-3	Polychlorinated biphenyls, Total	<0.062		0.062	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		10-149
2051-24-3	DCB Decachlorobiphenyl	86		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091217.D
 Lims ID: 500-221506-F-1-B
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 12-Sep-2022 11:05:40 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-017
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 11:33:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

First Level Reviewer: WRR8 Date: 12-Sep-2022 11:24:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	-----------------	-------

S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.749 1.744 0.005 32022603 0.0500
 2 2.013 2.009 0.004 47727717 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.761 2.758 0.003 9921255 0.0166
 2 3.467 3.463 0.004 14394310 0.0164

RPD = 0.99

3 PCB-1221

1 3.071 ND
 1 3.326
 1 3.394
 2 4.013
 2 4.240
 2 4.332

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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6 PCB-1016						U
1		3.399			ND	
1		3.973				
1		4.640				
1		4.816				
1		5.138				
2		4.333				
2		4.932				
2		5.527				
2		5.691				
2		5.943				
4 PCB-1232						
1		3.404			ND	
1		3.979				
1		4.645				
1		4.821				
1		5.141				
2		4.337				
2		4.935				
2		5.529				
2		5.694				
2		5.992				
5 PCB-1242						
1		3.406			ND	
1		3.978				
1		4.645				
1		4.820				
1		5.142				
2		4.336				
2		4.935				
2		5.529				
2		5.694				
2		5.992				
7 PCB-1248						
1		3.977			ND	
1		4.641				
1		5.340				
1		6.086				
1		6.513				
2		4.933				
2		5.522				
2		6.379				
2		6.711				
2		7.386				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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8 PCB-1254

1	5.791				ND	
1	6.089					
1	6.511					
1	6.802					
1	7.275					
2	6.704					
2	6.914					
2	7.385					
2	7.616					
2	8.136					

10 PCB-1260

1	6.706				ND	
1	6.994					
1	7.273					
1	7.934					
1	8.195					
2	7.583					
2	7.796					
2	8.135					
2	8.719					
2	9.038					

\$ 12 DCB Decachlorobiphenyl

1	9.161	9.159	0.002	12386376	0.0163
2	10.018	10.016	0.002	15095521	0.0172

RPD = 5.03

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091217.D

Injection Date: 12-Sep-2022 11:05:40

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-1-B

Lab Sample ID: 240-221506-1

Worklist Smp#: 17

Client ID: B-1 (6'-8')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

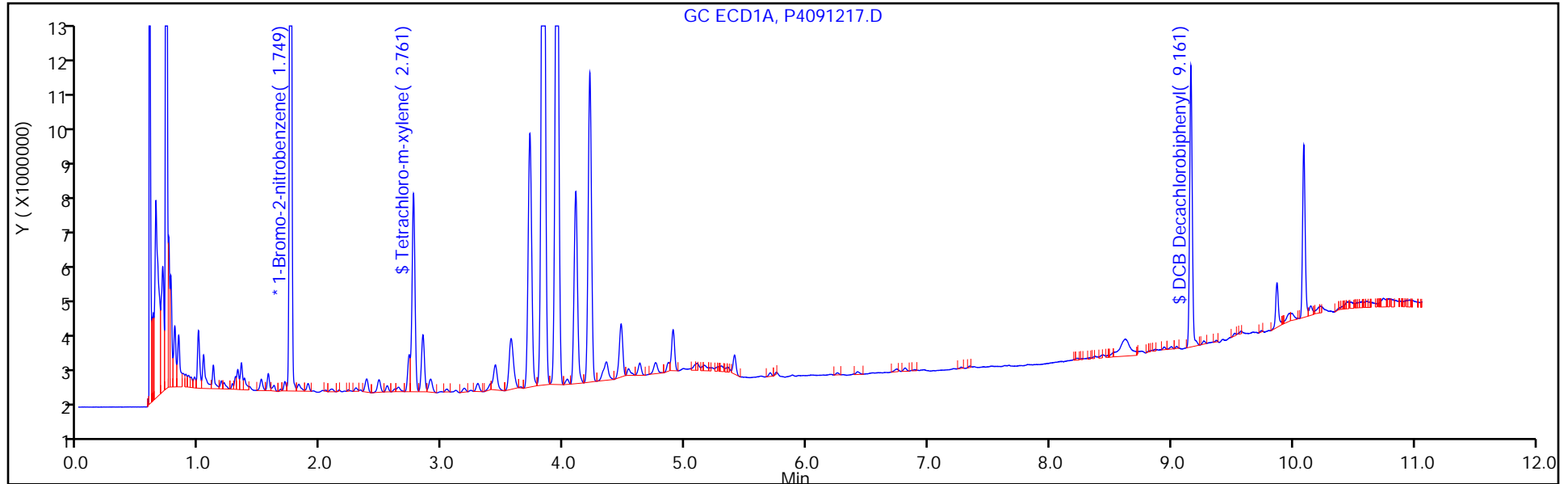
ALS Bottle#: 17

Method: PCB4 is

Limit Group: GC 8082A IS

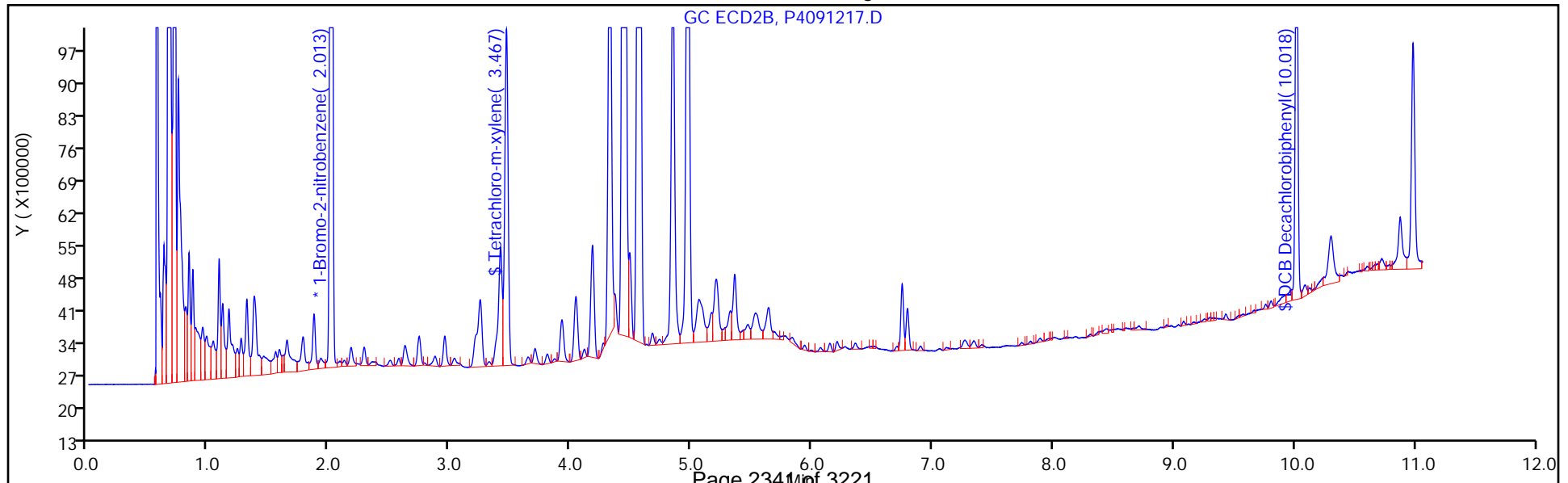
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091217.D
 Lims ID: 500-221506-F-1-B
 Client ID: B-1 (6'-8')
 Sample Type: Client
 Inject. Date: 12-Sep-2022 11:05:40 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-017
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 11:33:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655
 First Level Reviewer: WRR8 Date: 12-Sep-2022 11:24:46

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0166	82.91
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0163	81.75

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0164	82.09
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0172	85.96

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-2 (2'-4') Lab Sample ID: 500-221506-2
 Matrix: Solid Lab File ID: P4091218.D
 Analysis Method: 8082A Date Collected: 08/29/2022 10:22
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.29(g) Date Analyzed: 09/12/2022 11:23
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 13.9 % Solids: 86.1 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542120 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.056		0.056	
11104-28-2	PCB-1221	<0.056		0.056	
11141-16-5	PCB-1232	<0.056		0.056	
53469-21-9	PCB-1242	<0.056		0.056	
12672-29-6	PCB-1248	<0.056		0.056	
11097-69-1	PCB-1254	<0.056		0.056	
11096-82-5	PCB-1260	<0.056		0.056	
1336-36-3	Polychlorinated biphenyls, Total	<0.056		0.056	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	32		10-149
2051-24-3	DCB Decachlorobiphenyl	41		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091218.D
 Lims ID: 500-221506-F-2-B
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 12-Sep-2022 11:23:13 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-018
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 11:33:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.751 1.744 0.006 30287092 0.0500
 2 2.016 2.009 0.006 45787694 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.764 2.758 0.006 3383123 0.005849
 2 3.473 3.463 0.010 5489957 0.006387
 RPD = 8.80

3 PCB-1221

1 3.071 ND
 1 3.326
 1 3.394
 2 4.013
 2 4.240
 2 4.332

6 PCB-1016

1 3.399 ND
 1 3.973
 1 4.640
 1 4.816
 1 5.138
 2 4.333
 2 4.932
 2 5.527
 2 5.691
 2 5.943

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091218.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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4 PCB-1232

1	3.404				ND	
1	3.979					
1	4.645					
1	4.821					
1	5.141					
2	4.337					
2	4.935					
2	5.529					
2	5.694					
2	5.992					

5 PCB-1242

1	3.406				ND	
1	3.978					
1	4.645					
1	4.820					
1	5.142					
2	4.336					
2	4.935					
2	5.529					
2	5.694					
2	5.992					

7 PCB-1248

1	3.977				ND	
1	4.641					
1	5.340					
1	6.086					
1	6.513					
2	4.933					
2	5.522					
2	6.379					
2	6.711					
2	7.386					

8 PCB-1254

1	5.791				ND	
1	6.089					
1	6.511					
1	6.802					
1	7.275					
2	6.704					
2	6.914					
2	7.385					
2	7.616					
2	8.136					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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10 PCB-1260

1		6.706			ND	
1		6.994				
1		7.273				
1		7.934				
1		8.195				
2		7.583				
2		7.796				
2		8.135				
2		8.719				
2		9.038				

\$ 12 DCB Decachlorobiphenyl

1	9.156	9.159	-0.003	6032582	0.008044
2	10.016	10.016	0.000	7353093	0.008247
					RPD = 2.49

Reagents:

SGPCBISTD_00033 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091218.D

Injection Date: 12-Sep-2022 11:23:13

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-2-B

Lab Sample ID: 240-221506-2

Worklist Smp#: 18

Client ID: B-2 (2'-4')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

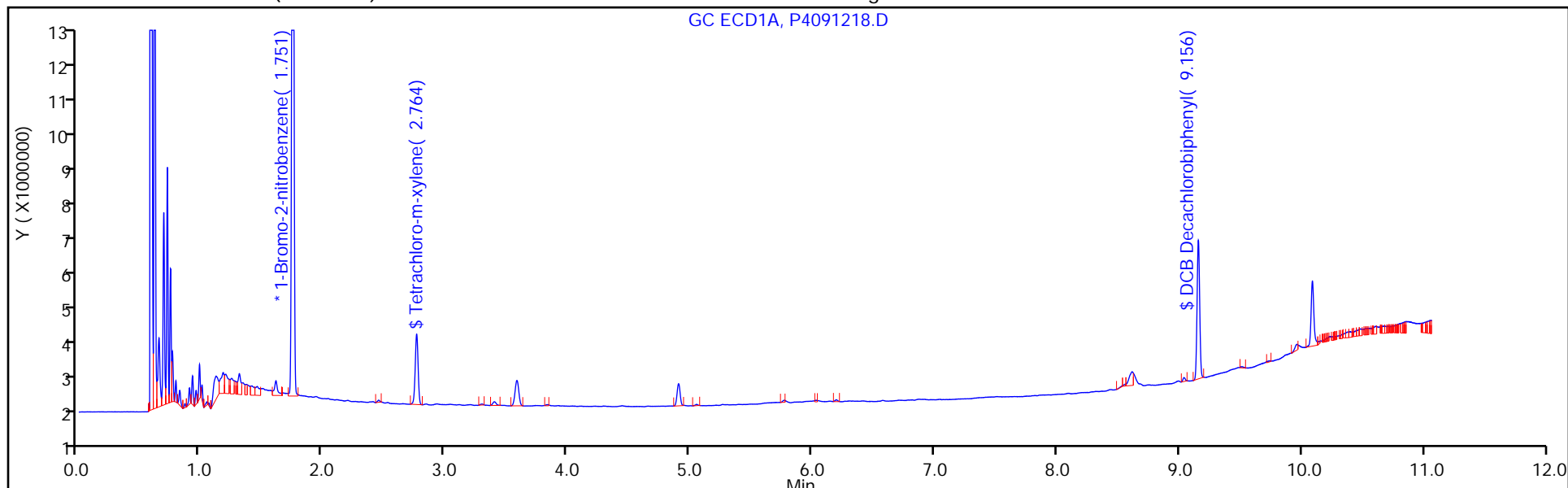
ALS Bottle#: 18

Method: PCB4 is

Limit Group: GC 8082A IS

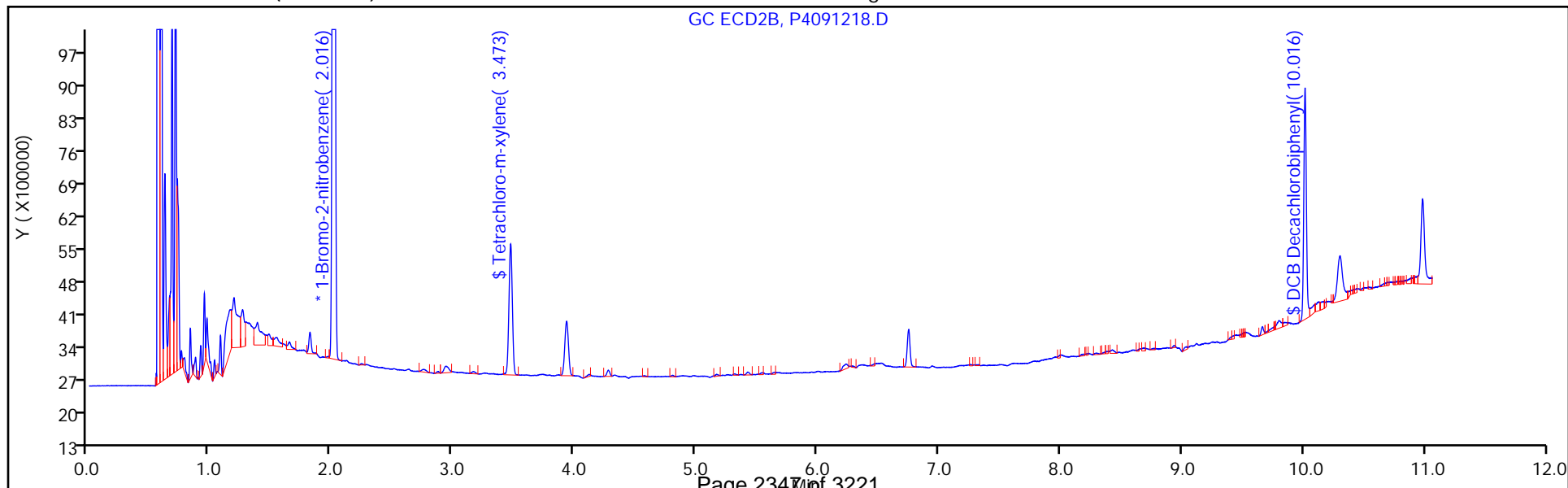
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091218.D
 Lims ID: 500-221506-F-2-B
 Client ID: B-2 (2'-4')
 Sample Type: Client
 Inject. Date: 12-Sep-2022 11:23:13 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-018
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 11:33:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.005849	29.24
\$ 12 DCB Decachlorobiphenyl	0.0200	0.008044	40.22

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.006387	31.93
\$ 12 DCB Decachlorobiphenyl	0.0200	0.008247	41.23

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-3 (22'-23.5') Lab Sample ID: 500-221506-3
 Matrix: Solid Lab File ID: P4090915.D
 Analysis Method: 8082A Date Collected: 08/29/2022 11:25
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 9.60(g) Date Analyzed: 09/09/2022 17:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 18.0 % Solids: 82.0 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.064		0.064	
11104-28-2	PCB-1221	<0.064		0.064	
11141-16-5	PCB-1232	<0.064		0.064	
53469-21-9	PCB-1242	<0.064		0.064	
12672-29-6	PCB-1248	<0.064		0.064	
11097-69-1	PCB-1254	<0.064		0.064	
11096-82-5	PCB-1260	<0.064		0.064	
1336-36-3	Polychlorinated biphenyls, Total	<0.064		0.064	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	30		10-149
2051-24-3	DCB Decachlorobiphenyl	39		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090915.D
 Lims ID: 500-221506-F-3-B
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:05:59 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-015
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.750 1.749 0.001 26962840 0.0500
 2 2.014 2.013 0.001 40830912 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.763 2.764 -0.001 3022720 0.005871
 2 3.471 3.471 0.000 4591977 0.005976
 RPD = 1.78

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

5 PCB-1242

1 3.404 ND
 1 3.979
 1 4.643
 1 4.819
 1 5.139
 2 4.336
 2 4.934
 2 5.528
 2 5.694
 2 5.991

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090915.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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4 PCB-1232

1	3.407				ND	
1	3.980					
1	4.648					
1	4.822					
1	5.141					
2	4.339					
2	4.936					
2	5.529					
2	5.694					
2	5.991					

6 PCB-1016

1	3.408				ND	
1	3.983					
1	4.648					
1	4.823					
1	5.142					
2	4.340					
2	4.938					
2	5.529					
2	5.695					
2	5.948					

7 PCB-1248

1	3.980				ND	
1	4.643					
1	5.342					
1	6.086					
1	6.512					
2	4.934					
2	5.523					
2	6.378					
2	6.711					
2	7.387					

8 PCB-1254

1	5.794				ND	
1	6.092					
1	6.514					
1	6.806					
1	7.277					
2	6.709					
2	6.918					
2	7.388					
2	7.619					
2	8.141					

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090915.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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10 PCB-1260

1		6.710			ND	
1		6.999				
1		7.277				
1		7.938				
1		8.199				
2		7.587				
2		7.800				
2		8.139				
2		8.725				
2		9.044				

\$ 12 DCB Decachlorobiphenyl

1	9.156	9.164	-0.008	4964206	0.007377	
2	10.011	10.020	-0.009	6216346	0.007767	
					RPD = 5.16	

Reagents:

SGPCBISTD_00033 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090915.D

Injection Date: 09-Sep-2022 17:05:59

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-3-B

Lab Sample ID: 240-221506-3

Worklist Smp#: 15

Client ID: B-3 (22'-23.5')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

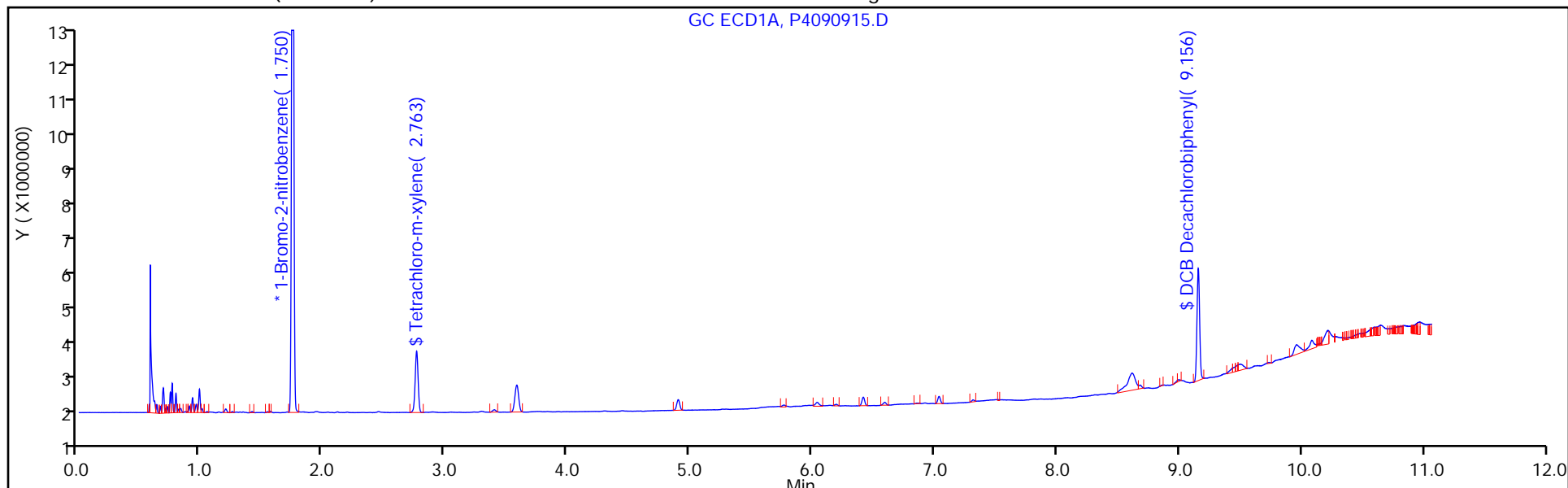
ALS Bottle#: 15

Method: PCB4 is

Limit Group: GC 8082A IS

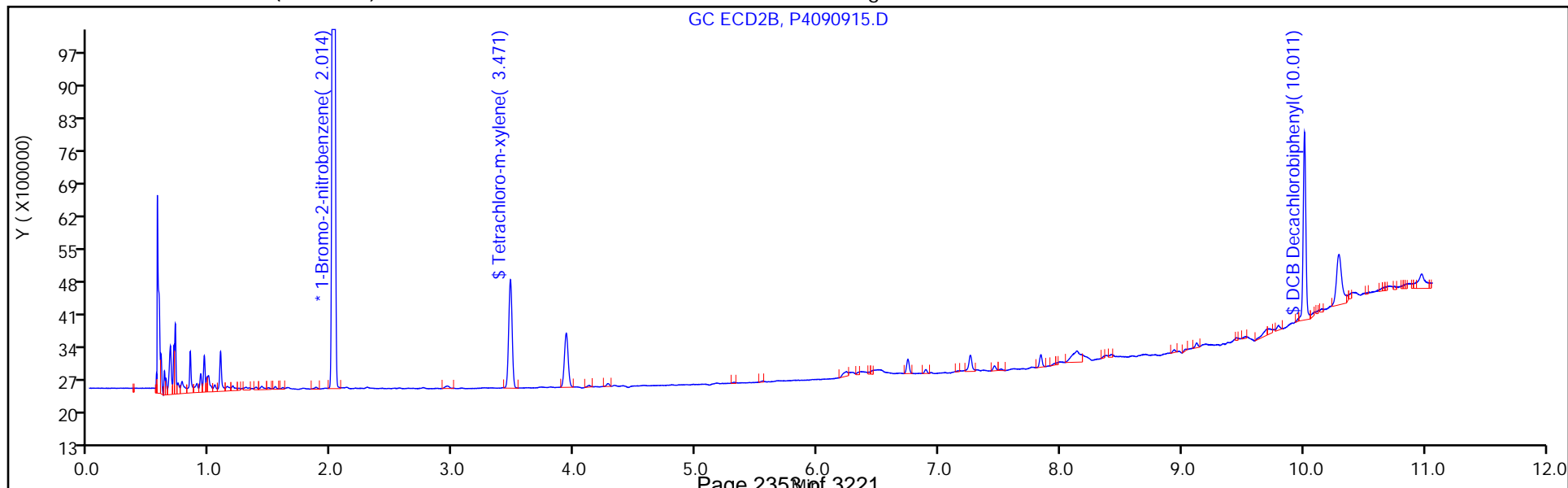
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090915.D
 Lims ID: 500-221506-F-3-B
 Client ID: B-3 (22'-23.5')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:05:59 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-015
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.005871	29.35
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007377	36.88

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.005976	29.88
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007767	38.84

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-4 (20'-22') Lab Sample ID: 500-221506-4
 Matrix: Solid Lab File ID: P4090916.D
 Analysis Method: 8082A Date Collected: 08/29/2022 12:18
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 9.78(g) Date Analyzed: 09/09/2022 17:23
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 18.7 % Solids: 81.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.063		0.063	
11104-28-2	PCB-1221	<0.063		0.063	
11141-16-5	PCB-1232	<0.063		0.063	
53469-21-9	PCB-1242	<0.063		0.063	
12672-29-6	PCB-1248	<0.063		0.063	
11097-69-1	PCB-1254	<0.063		0.063	
11096-82-5	PCB-1260	<0.063		0.063	
1336-36-3	Polychlorinated biphenyls, Total	<0.063		0.063	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	32		10-149
2051-24-3	DCB Decachlorobiphenyl	38		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090916.D
 Lims ID: 500-221506-F-4-B
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:23:36 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-016
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.747 1.749 -0.001 28892541 0.0500
 2 2.011 2.013 -0.001 43308441 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.758 2.764 -0.006 3423800 0.006217
 2 3.465 3.471 -0.006 5257164 0.006469
 RPD = 3.97

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

5 PCB-1242

1 3.404 ND
 1 3.979
 1 4.643
 1 4.819
 1 5.139
 2 4.336
 2 4.934
 2 5.528
 2 5.694
 2 5.991

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090916.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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4 PCB-1232

1	3.407				ND	
1	3.980					
1	4.648					
1	4.822					
1	5.141					
2	4.339					
2	4.936					
2	5.529					
2	5.694					
2	5.991					

6 PCB-1016

1	3.408				ND	
1	3.983					
1	4.648					
1	4.823					
1	5.142					
2	4.340					
2	4.938					
2	5.529					
2	5.695					
2	5.948					

7 PCB-1248

1	3.980				ND	
1	4.643					
1	5.342					
1	6.086					
1	6.512					
2	4.934					
2	5.523					
2	6.378					
2	6.711					
2	7.387					

8 PCB-1254

1	5.794				ND	
1	6.092					
1	6.514					
1	6.806					
1	7.277					
2	6.709					
2	6.918					
2	7.388					
2	7.619					
2	8.141					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710				ND	
1	6.999					
1	7.277					
1	7.938					
1	8.199					
2	7.587					
2	7.800					
2	8.139					
2	8.725					
2	9.044					

\$ 12 DCB Decachlorobiphenyl

1	9.159	9.164	-0.005	5638099	0.007865	
2	10.015	10.020	-0.005	6444175	0.007569	
						RPD = 3.83

Reagents:

SGPCBISTD_00033 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090916.D

Injection Date: 09-Sep-2022 17:23:36

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-4-B

Lab Sample ID: 240-221506-4

Worklist Smp#: 16

Client ID: B-4 (20'-22')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

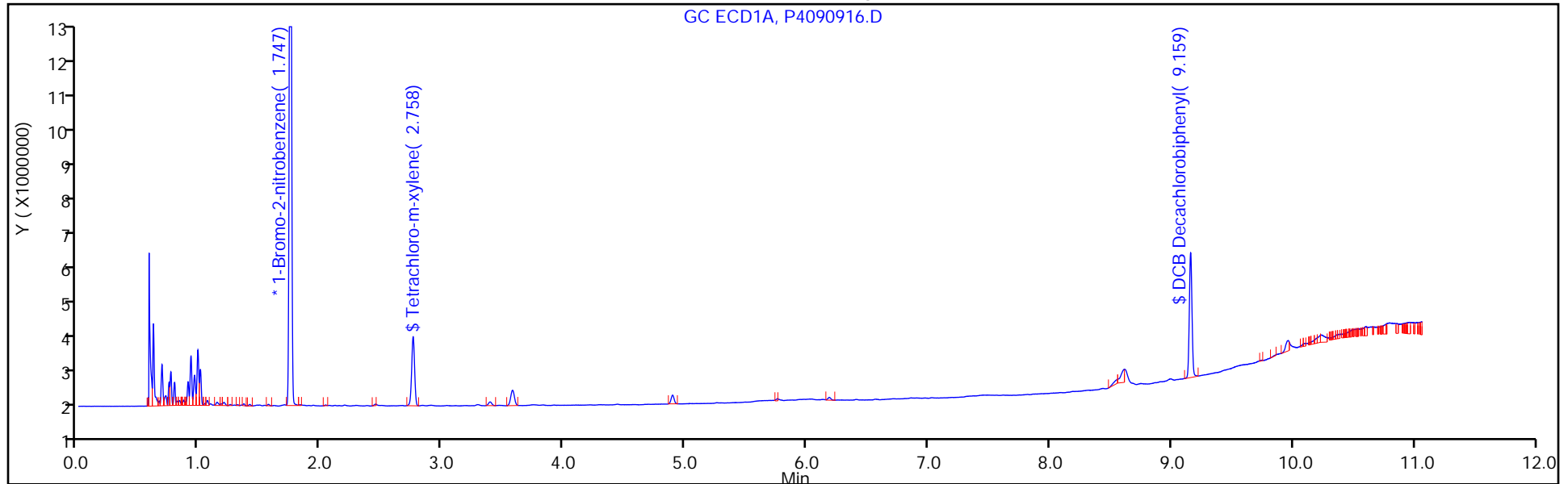
ALS Bottle#: 16

Method: PCB4 is

Limit Group: GC 8082A IS

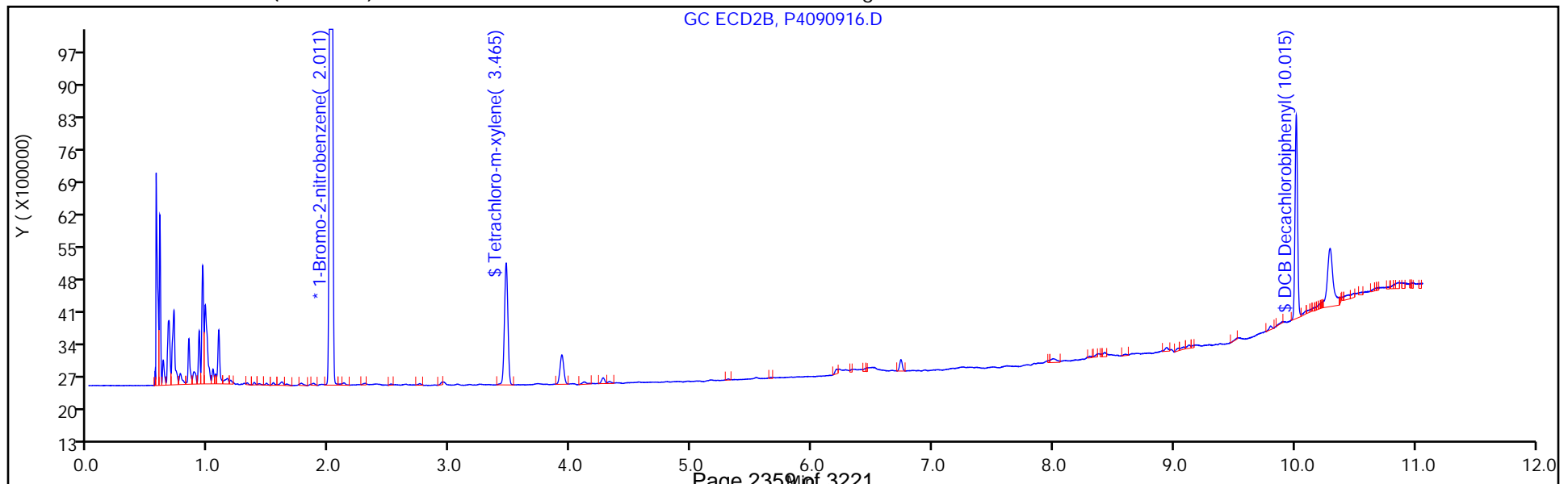
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090916.D
 Lims ID: 500-221506-F-4-B
 Client ID: B-4 (20'-22')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:23:36 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-016
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.006217	31.09
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007865	39.32

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.006469	32.35
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007569	37.85

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') Lab Sample ID: 500-221506-5
 Matrix: Solid Lab File ID: P4090917.D
 Analysis Method: 8082A Date Collected: 08/29/2022 14:15
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.25(g) Date Analyzed: 09/09/2022 17:41
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.065		0.065	
11104-28-2	PCB-1221	<0.065		0.065	
11141-16-5	PCB-1232	<0.065		0.065	
53469-21-9	PCB-1242	<0.065		0.065	
12672-29-6	PCB-1248	<0.065		0.065	
11097-69-1	PCB-1254	<0.065		0.065	
11096-82-5	PCB-1260	<0.065		0.065	
1336-36-3	Polychlorinated biphenyls, Total	<0.065		0.065	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	44		10-149
2051-24-3	DCB Decachlorobiphenyl	40		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090917.D
 Lims ID: 500-221506-F-5-D
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:41:13 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-017
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.747 1.749 -0.001 28773285 0.0500
 2 2.012 2.013 -0.001 42994221 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.761 2.764 -0.003 4579619 0.008420
 2 3.469 3.471 -0.002 7075320 0.008853
 RPD = 5.01

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

5 PCB-1242

1 3.404 ND
 1 3.979
 1 4.643
 1 4.819
 1 5.139
 2 4.336
 2 4.934
 2 5.528
 2 5.694
 2 5.991

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090917.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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4 PCB-1232

1	3.407				ND	
1	3.980					
1	4.648					
1	4.822					
1	5.141					
2	4.339					
2	4.936					
2	5.529					
2	5.694					
2	5.991					

6 PCB-1016

1	3.408				ND	
1	3.983					
1	4.648					
1	4.823					
1	5.142					
2	4.340					
2	4.938					
2	5.529					
2	5.695					
2	5.948					

7 PCB-1248

1	3.980				ND	
1	4.643					
1	5.342					
1	6.086					
1	6.512					
2	4.934					
2	5.523					
2	6.378					
2	6.711					
2	7.387					

8 PCB-1254

1	5.794				ND	
1	6.092					
1	6.514					
1	6.806					
1	7.277					
2	6.709					
2	6.918					
2	7.388					
2	7.619					
2	8.141					

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090917.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710				ND	
1	6.999					
1	7.277					
1	7.938					
1	8.199					
2	7.587					
2	7.800					
2	8.139					
2	8.725					
2	9.044					

9 PCB-1262

1	6.996				ND	
1	7.393					
1	7.633					
1	7.936					
1	8.233					
2	7.797					
2	8.226					
2	8.497					
2	8.724					
2	9.038					

11 PCB-1268

1	8.233				ND	
1	8.268					
1	8.441					
1	8.757					
1	9.002					
2	9.039					
2	9.078					
2	9.296					
2	9.534					
2	9.805					

\$ 12 DCB Decachlorobiphenyl

1	9.163	9.164	-0.001	5549038	0.007764	
2	10.021	10.020	0.001	6667446	0.007930	
						RPD = 2.12

16 1260 Res 1

1	8.199				ND	
2	7.428					

13 1260 Res 2

1	8.234				ND	
2	8.725					

15 1260 Res 3

1	8.274				ND	
2	0.736					

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090917.D

Injection Date: 09-Sep-2022 17:41:13

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-5-D

Lab Sample ID: 240-221506-5

Worklist Smp#: 17

Client ID: B-5 (8'-10')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

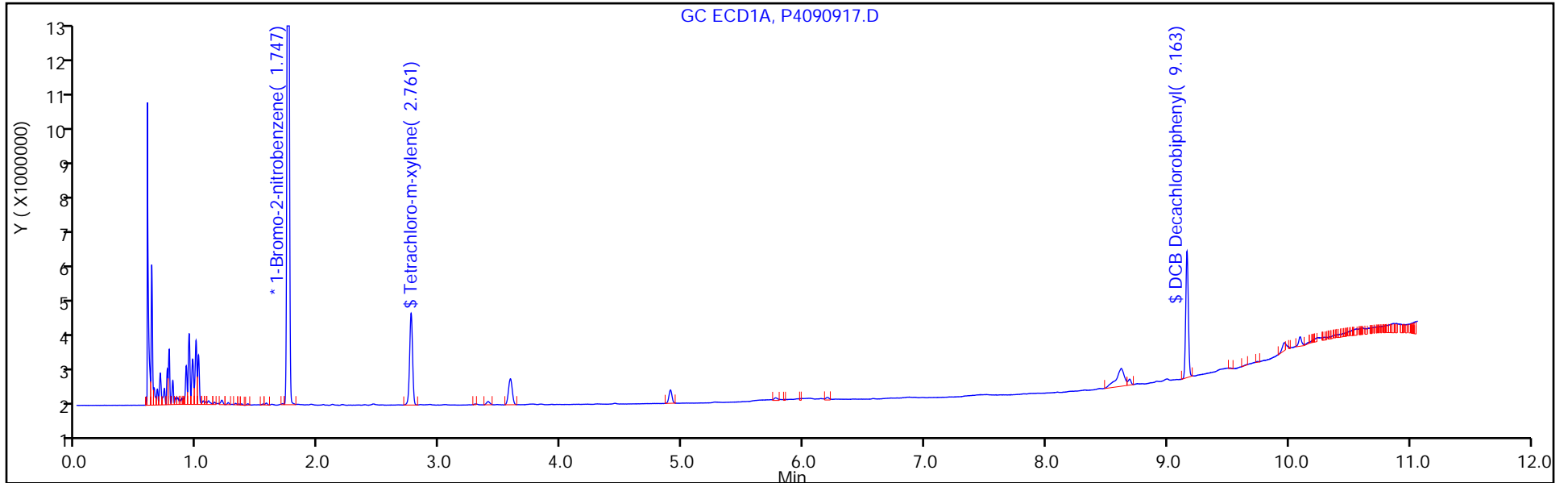
ALS Bottle#: 17

Method: PCB4 is

Limit Group: GC 8082A IS

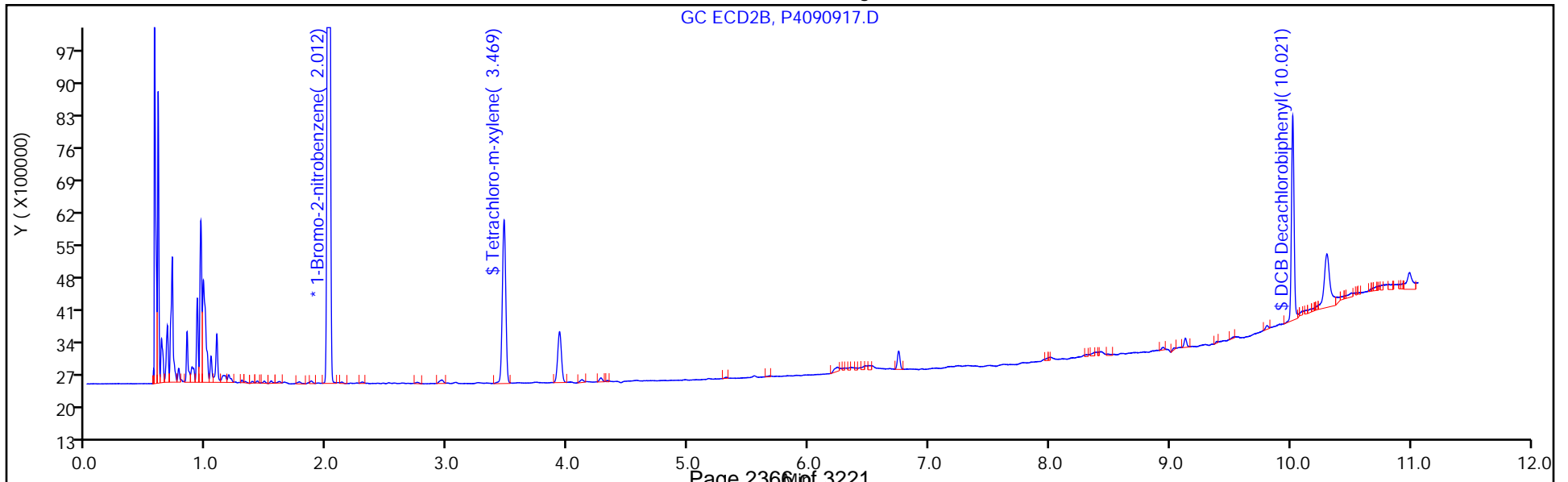
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090917.D
 Lims ID: 500-221506-F-5-D
 Client ID: B-5 (8'-10')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 17:41:13 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-017
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.008420	42.10
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007764	38.82

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.008853	44.26
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007930	39.65

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-6 (30'-32') Lab Sample ID: 500-221506-6
 Matrix: Solid Lab File ID: P4090920.D
 Analysis Method: 8082A Date Collected: 08/29/2022 15:33
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.41(g) Date Analyzed: 09/09/2022 18:34
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 17.2 % Solids: 82.8 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.058		0.058	
11104-28-2	PCB-1221	<0.058		0.058	
11141-16-5	PCB-1232	<0.058		0.058	
53469-21-9	PCB-1242	<0.058		0.058	
12672-29-6	PCB-1248	<0.058		0.058	
11097-69-1	PCB-1254	<0.058		0.058	
11096-82-5	PCB-1260	<0.058		0.058	
1336-36-3	Polychlorinated biphenyls, Total	<0.058		0.058	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	33		10-149
2051-24-3	DCB Decachlorobiphenyl	41		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090920.D
 Lims ID: 500-221506-F-6-B
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 18:34:03 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-020
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	-----------------	-------

S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.742 1.749 -0.006 26553173 0.0500
 2 2.007 2.013 -0.005 39943273 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.757 2.764 -0.007 3207144 0.006341
 2 3.462 3.471 -0.009 4944601 0.006602
 RPD = 4.03

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

5 PCB-1242

1 3.404 ND
 1 3.979
 1 4.643
 1 4.819
 1 5.139
 2 4.336
 2 4.934
 2 5.528
 2 5.694
 2 5.991

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090920.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
-----	--------------	------------------	------------------	----------	--------------------	-------

4 PCB-1232

1	3.407				ND	
1	3.980					
1	4.648					
1	4.822					
1	5.141					
2	4.339					
2	4.936					
2	5.529					
2	5.694					
2	5.991					

6 PCB-1016

1	3.408				ND	
1	3.983					
1	4.648					
1	4.823					
1	5.142					
2	4.340					
2	4.938					
2	5.529					
2	5.695					
2	5.948					

7 PCB-1248

1	3.980				ND	
1	4.643					
1	5.342					
1	6.086					
1	6.512					
2	4.934					
2	5.523					
2	6.378					
2	6.711					
2	7.387					

8 PCB-1254

1	5.794				ND	
1	6.092					
1	6.514					
1	6.806					
1	7.277					
2	6.709					
2	6.918					
2	7.388					
2	7.619					
2	8.141					

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090920.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	-----------------	-------

10 PCB-1260

1	6.710				ND	
1	6.999					
1	7.277					
1	7.938					
1	8.199					
2	7.587					
2	7.800					
2	8.139					
2	8.725					
2	9.044					

\$ 12 DCB Decachlorobiphenyl

1	9.161	9.164	-0.003	5013680	0.007585	
2	10.019	10.020	-0.001	6344443	0.008146	

RPD = 7.13

Reagents:

SGPCBISTD_00033 Amount Added: 5.00 Units: uL Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090920.D

Injection Date: 09-Sep-2022 18:34:03

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-6-B

Lab Sample ID: 240-221506-6

Worklist Smp#: 20

Client ID: B-6 (30'-32')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

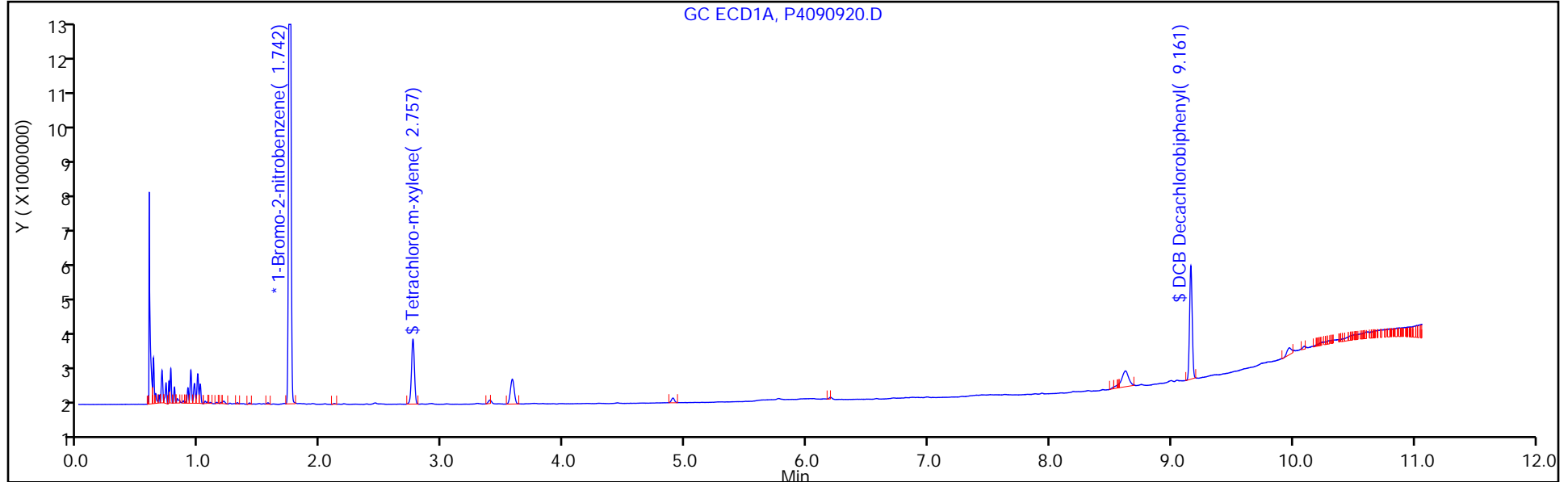
ALS Bottle#: 20

Method: PCB4 is

Limit Group: GC 8082A IS

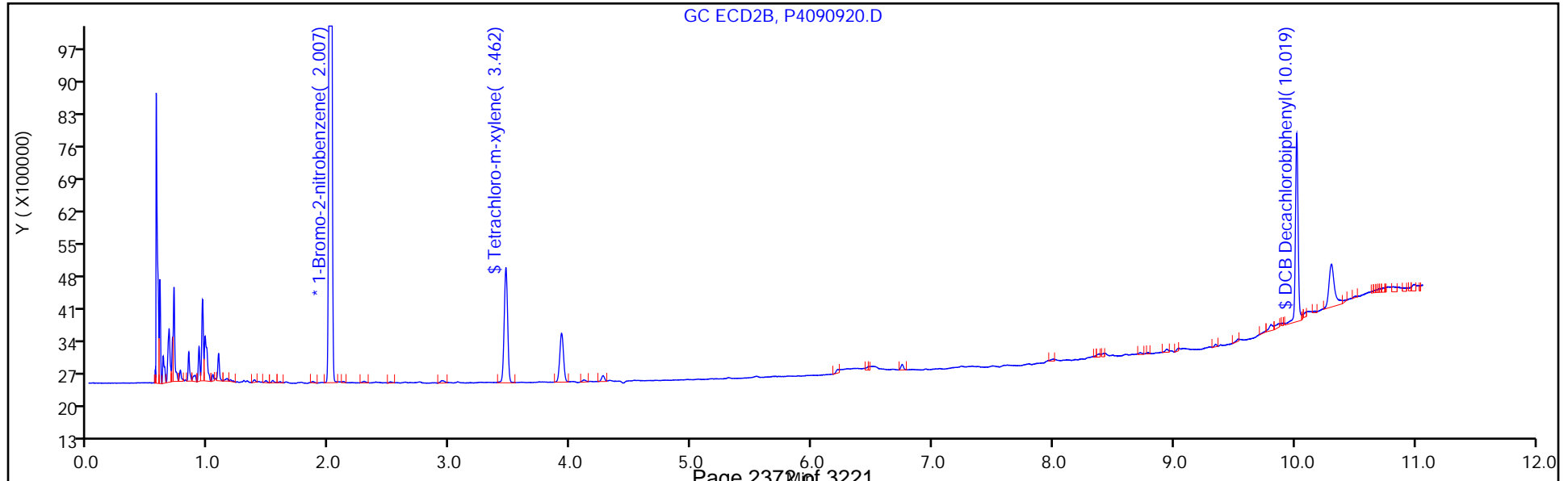
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090920.D
 Lims ID: 500-221506-F-6-B
 Client ID: B-6 (30'-32')
 Sample Type: Client
 Inject. Date: 09-Sep-2022 18:34:03 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-020
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.006341	31.70
\$ 12 DCB Decachlorobiphenyl	0.0200	0.007585	37.92

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.006602	33.01
\$ 12 DCB Decachlorobiphenyl	0.0200	0.008146	40.73

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: Dup-1 Lab Sample ID: 500-221506-8
 Matrix: Solid Lab File ID: P4090921.D
 Analysis Method: 8082A Date Collected: 08/29/2022 00:00
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.15(g) Date Analyzed: 09/09/2022 18:51
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 19.4 % Solids: 80.6 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.061		0.061	
11104-28-2	PCB-1221	<0.061		0.061	
11141-16-5	PCB-1232	<0.061		0.061	
53469-21-9	PCB-1242	<0.061		0.061	
12672-29-6	PCB-1248	<0.061		0.061	
11097-69-1	PCB-1254	<0.061		0.061	
11096-82-5	PCB-1260	<0.061		0.061	
1336-36-3	Polychlorinated biphenyls, Total	<0.061		0.061	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	49		10-149
2051-24-3	DCB Decachlorobiphenyl	46		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090921.D
 Lims ID: 500-221506-F-8-B
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 09-Sep-2022 18:51:34 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-021
 Operator ID: Instrument ID: A2HP4

Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.748 1.749 -0.001 30402057 0.0500
 2 2.012 2.013 -0.001 43575057 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.762 2.764 -0.002 6125798 0.0107
 2 3.468 3.471 -0.003 7913824 0.009794
 RPD = 8.96

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090921.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
5 PCB-1242						U
1		3.404			ND	
1		3.979				
1		4.643				
1		4.819				
1		5.139				
2		4.336				
2		4.934				
2		5.528				
2		5.694				
2		5.991				
4 PCB-1232						
1		3.407			ND	
1		3.980				
1		4.648				
1		4.822				
1		5.141				
2		4.339				
2		4.936				
2		5.529				
2		5.694				
2		5.991				
6 PCB-1016						
1		3.408			ND	
1		3.983				
1		4.648				
1		4.823				
1		5.142				
2		4.340				
2		4.938				
2		5.529				
2		5.695				
2		5.948				
7 PCB-1248						
1		3.980			ND	
1		4.643				
1		5.342				
1		6.086				
1		6.512				
2		4.934				
2		5.523				
2		6.378				
2		6.711				
2		7.387				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	-----------------	-------

8 PCB-1254

1	5.794				ND	
1	6.092					
1	6.514					
1	6.806					
1	7.277					
2	6.709					
2	6.918					
2	7.388					
2	7.619					
2	8.141					

10 PCB-1260

1	6.710				ND	
1	6.999					
1	7.277					
1	7.938					
1	8.199					
2	7.587					
2	7.800					
2	8.139					
2	8.725					
2	9.044					

\$ 12 DCB Decachlorobiphenyl

1	9.161	9.164	-0.003	6248654	0.008325	
2	10.019	10.020	-0.001	7698236	0.009170	
					RPD = 9.66	

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090921.D

Injection Date: 09-Sep-2022 18:51:34

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-8-B

Lab Sample ID: 240-221506-8

Worklist Smp#: 21

Client ID: Dup-1

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

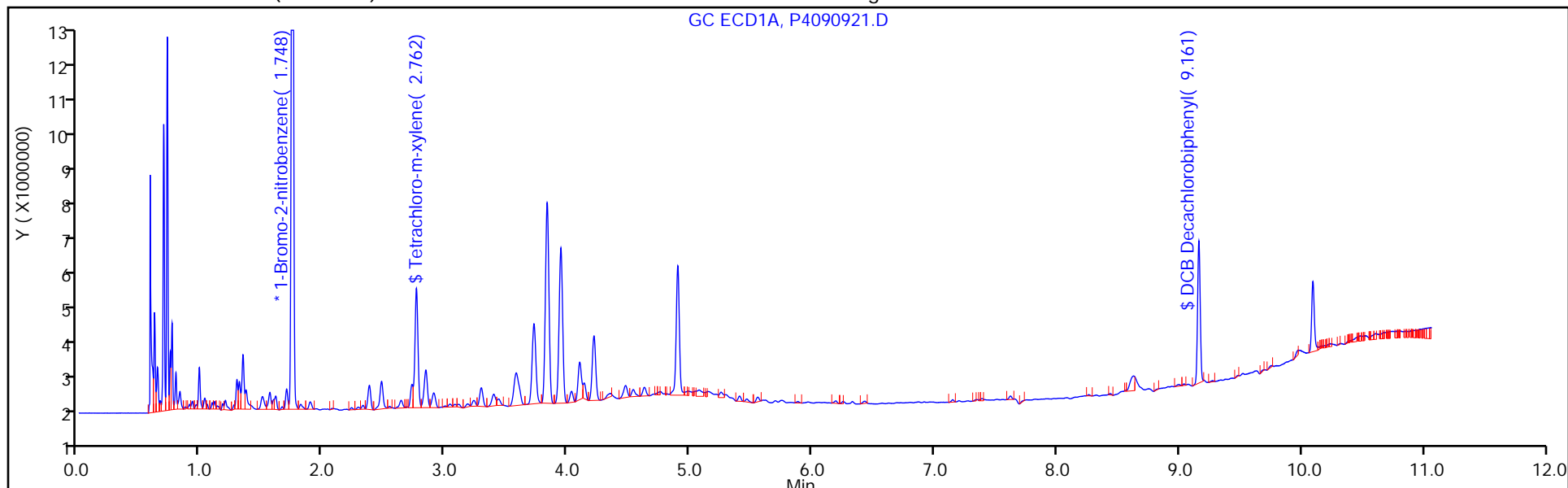
ALS Bottle#: 21

Method: PCB4 is

Limit Group: GC 8082A IS

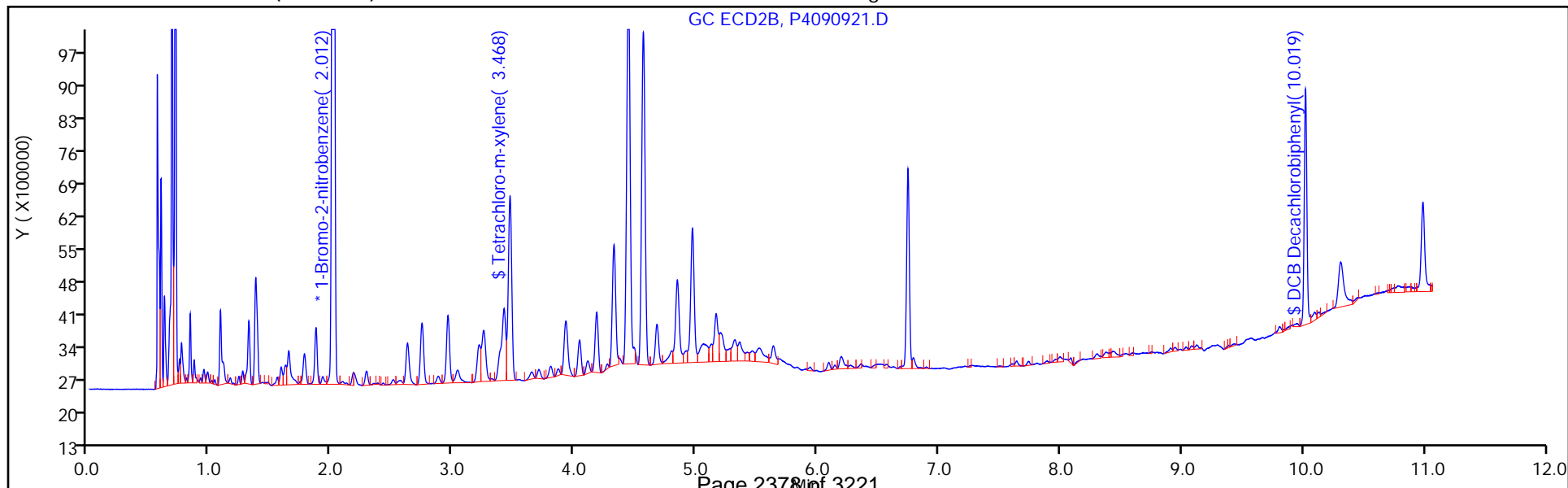
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090921.D
 Lims ID: 500-221506-F-8-B
 Client ID: Dup-1
 Sample Type: Client
 Inject. Date: 09-Sep-2022 18:51:34 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-021
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681
 First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:30

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0107	53.56
\$ 12 DCB Decachlorobiphenyl	0.0200	0.008325	41.62

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.009794	48.97
\$ 12 DCB Decachlorobiphenyl	0.0200	0.009170	45.85

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 10:18 Calibration End Date: 08/16/2022 11:46 Calibration ID: 67228

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/4	P4081604.D
Level 2	STD01 240-539023/5	P4081605.D
Level 3	STD02 240-539023/6	P4081606.D
Level 4	STD05 240-539023/7	P4081607.D
Level 5	STD1 240-539023/8	P4081608.D
Level 6	STD15 240-539023/9	P4081609.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0250 0.0189	0.0243	0.0226	0.0205	0.0196	Ave		0.0218			11.5		20.0				
PCB-1232 Peak 2	0.0191 0.0143	0.0183	0.0171	0.0157	0.0149	Ave		0.0166			11.5		20.0				
PCB-1232 Peak 3	0.0378 0.0321	0.0380	0.0361	0.0333	0.0327	Ave		0.0350			7.5		20.0				
PCB-1232 Peak 4	0.0157 0.0137	0.0168	0.0159	0.0146	0.0140	Ave		0.0151			8.0		20.0				
PCB-1232 Peak 5	0.0056 0.0049	0.0058	0.0058	0.0053	0.0050	Ave		0.0054			7.3		20.0				
PCB-1262 Peak 1	0.0602 0.0525	0.0601	0.0576	0.0524	0.0530	Ave		0.0560			6.7		20.0				
PCB-1262 Peak 2	0.1093 0.0718	0.0945	0.0834	0.0721	0.0722	Ave		0.0839			18.3		20.0				
PCB-1262 Peak 3	0.0753 0.0640	0.0734	0.0692	0.0621	0.0640	Ave		0.0680			8.0		20.0				
PCB-1262 Peak 4	0.1526 0.1490	0.1559	0.1530	0.1428	0.1468	Ave		0.1500			3.2		20.0				
PCB-1262 Peak 5	0.0681 0.0595	0.0687	0.0651	0.0584	0.0592	Ave		0.0632			7.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 10:18 Calibration End Date: 08/16/2022 11:46 Calibration ID: 67228

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/4	P4081604.D
Level 2	STD01 240-539023/5	P4081605.D
Level 3	STD02 240-539023/6	P4081606.D
Level 4	STD05 240-539023/7	P4081607.D
Level 5	STD1 240-539023/8	P4081608.D
Level 6	STD15 240-539023/9	P4081609.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	878730 18380787	1567002	2937700	7023666	13864692	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	670704 13863065	1179539	2219081	5383027	10540916	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	1329704 31166654	2449900	4688935	11389460	23128677	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	553434 13257836	1082380	2059574	4987372	9907960	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	198473 4739431	372010	752976	1805682	3541319	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	2114807 50973734	3876124	7482350	17944814	37510531	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	3839597 69673568	6098487	10840033	24696556	51089740	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	2645496 62121738	4732646	8986684	21278961	45269942	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	5360629 144501627	10060832	19882215	48879033	103783942	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	2393861 57704314	4431327	8456658	20008746	41897958	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081604.D
 Lims ID: std005 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 10:18:51 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-004
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:35 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:49:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.751	1.751	0.000	35140094	0.0500	0.0500	
2	2.021	2.020	0.001	48630854	0.0500	0.0500	
4 PCB-1232							M
1	3.411	3.411	0.000	878730	0.0500	0.0573	
1	3.986	3.986	0.000	670704	0.0500	0.0576	
1	4.653	4.653	0.000	1329704	0.0500	0.0541	
1	4.829	4.829	0.000	553434	0.0500	0.0521	
1	5.151	5.151	0.000	198473	0.0500	0.0523	M
Average of Peak Amounts =						0.0547	
2	4.348	4.348	0.000	1142414	0.0500	0.0576	
2	4.945	4.945	0.000	832897	0.0500	0.0546	
2	5.537	5.537	0.000	1657069	0.0500	0.0544	
2	5.703	5.703	0.000	616995	0.0500	0.0502	
2	5.999	5.999	0.000	307554	0.0500	0.0520	
Average of Peak Amounts =						0.0538	
RPD =							1.69

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262

1	7.008	7.008	0.000	2114807	0.0500	0.0538	
1	7.404	7.404	0.000	3839597	0.0500	0.0651	
1	7.644	7.644	0.000	2645496	0.0500	0.0554	
1	7.947	7.947	0.000	5360629	0.0500	0.0509	
1	8.243	8.243	0.000	2393861	0.0500	0.0539	

Average of Peak Amounts = 0.0558

2	7.809	7.809	0.000	1976759	0.0500	0.0549	
2	8.237	8.237	0.000	2925344	0.0500	0.0530	
2	8.507	8.507	0.000	2590541	0.0500	0.0550	
2	8.732	8.732	0.000	5826893	0.0500	0.0528	
2	9.049	9.049	0.000	4409292	0.0500	0.0543	

Average of Peak Amounts = 0.0540

RPD = 3.29

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@.05PPM_00028

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081604.D

Injection Date: 16-Aug-2022 10:18:51

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1232 1262

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

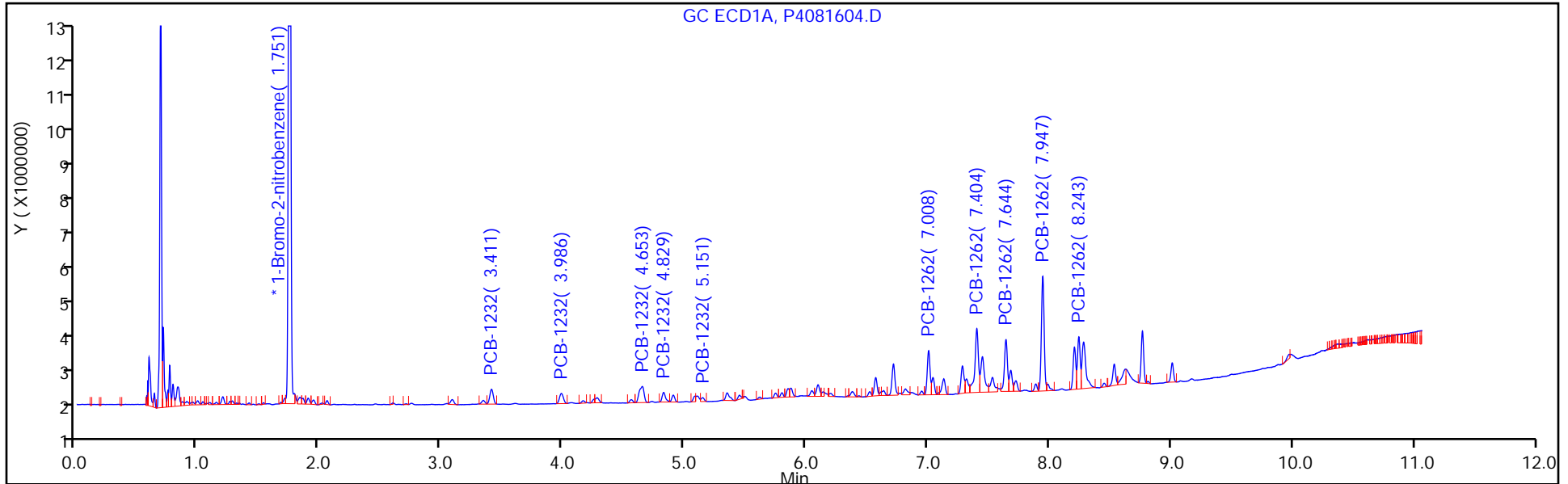
ALS Bottle#: 4

Method: PCB4 is

Limit Group: GC 8082A IS

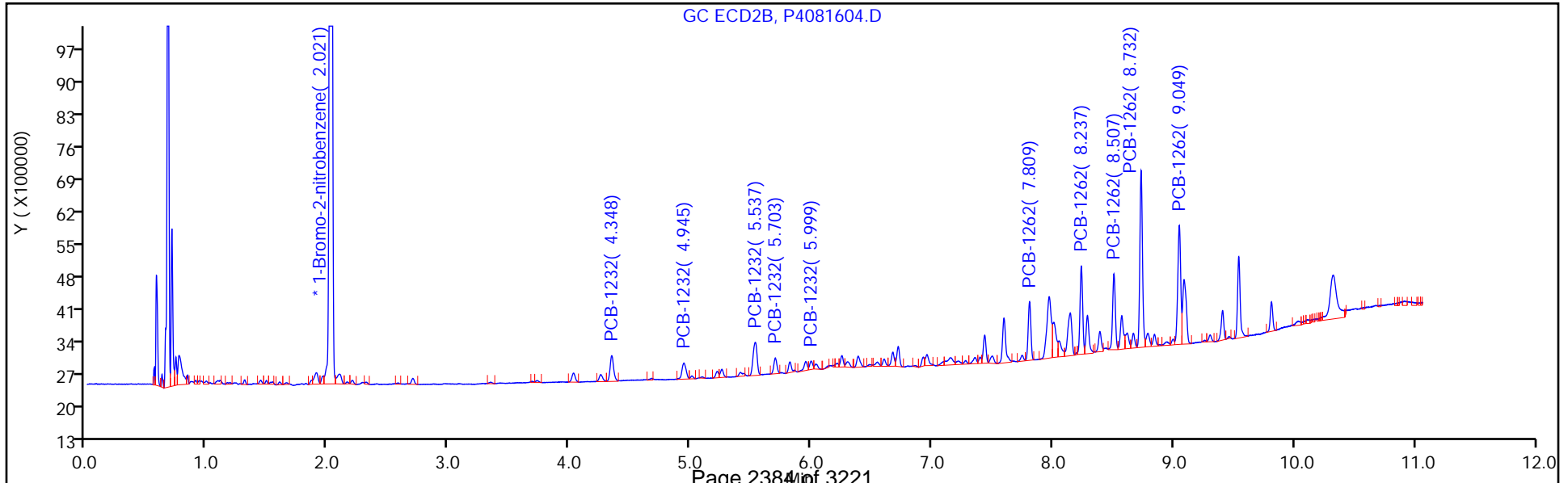
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081604.D

Injection Date: 16-Aug-2022 10:18:51

Instrument ID: A2HP4

Lims ID: std005 1232 1262

Client ID:

Operator ID:

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

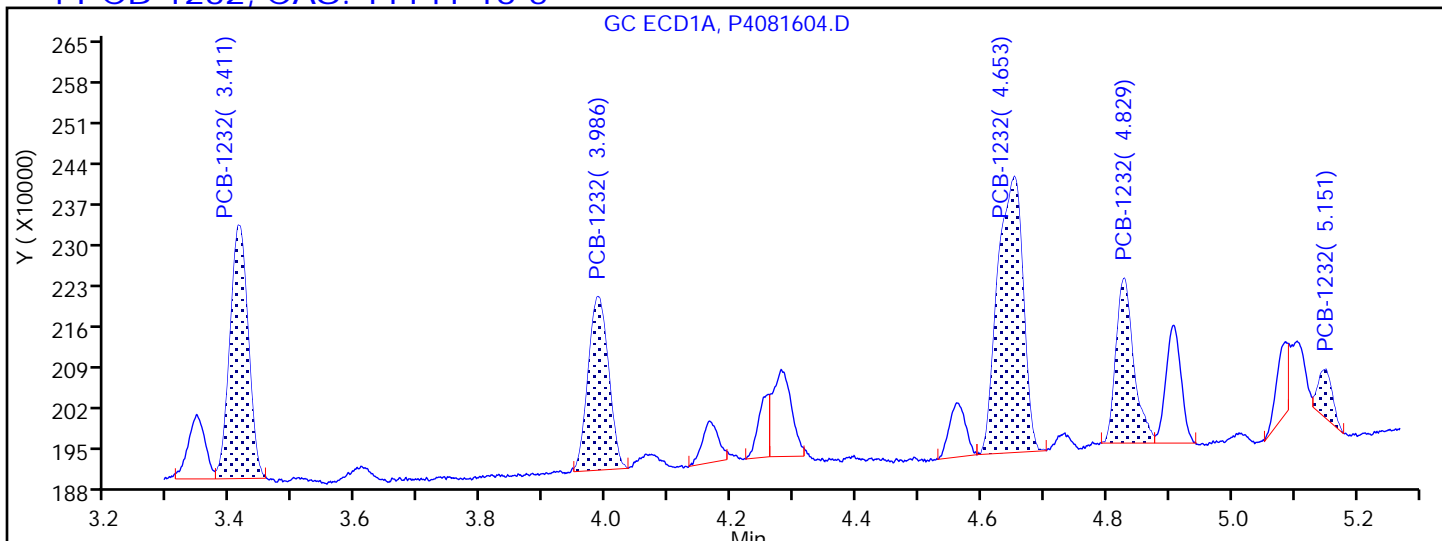
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

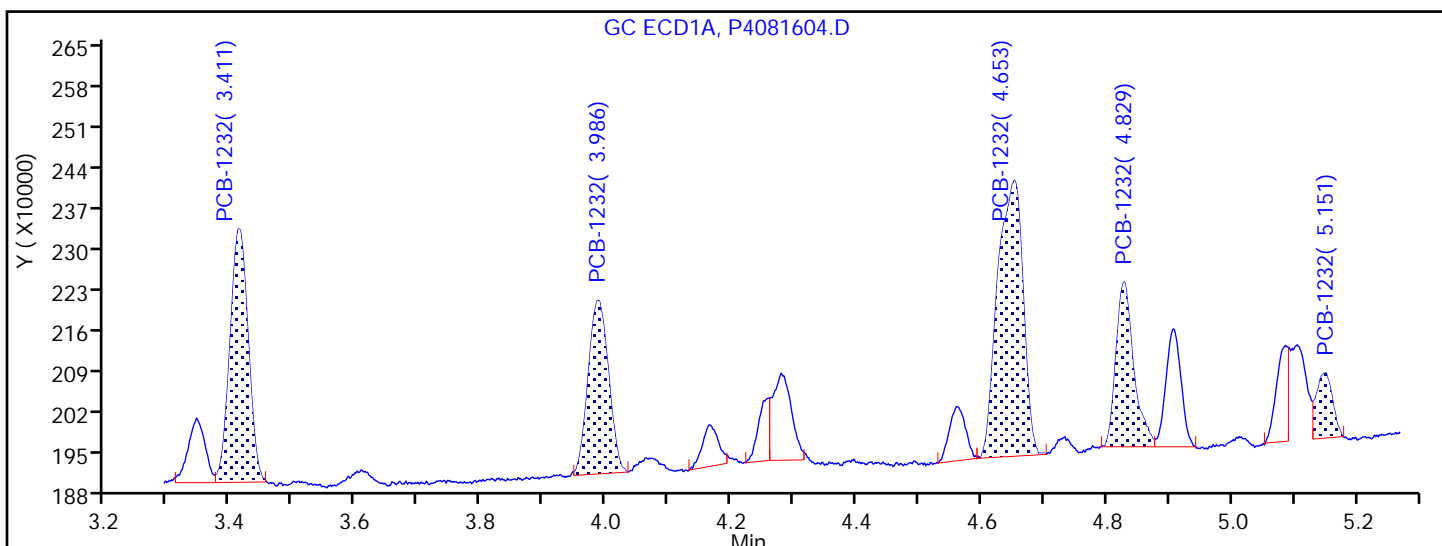
Detector: GC ECD1A

4 PCB-1232, CAS: 11141-16-5



Processing Integration Results

3.411	Response = 878730
3.986	Response = 670704
4.653	Response = 1329704
4.829	Response = 553434
5.151	Response = 129002



Manual Integration Results

3.411	Response = 878730
3.986	Response = 670704
4.653	Response = 1329704
4.829	Response = 553434
5.151	Response = 198473

M

Reviewer: WRR8, 17-Aug-2022 07:48:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2385 of 3221

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081605.D
 Lims ID: std01 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 10:36:32 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-005
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:38 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:53:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.753	1.751	0.001	32259176	0.0500	0.0500	
2	2.022	2.020	0.001	45081251	0.0500	0.0500	

4 PCB-1232

1	3.415	3.411	0.004	1567002	0.1000	0.1113	
1	3.989	3.986	0.003	1179539	0.1000	0.1104	
1	4.654	4.653	0.001	2449900	0.1000	0.1085	
1	4.831	4.829	0.002	1082380	0.1000	0.1111	
1	5.150	5.151	-0.001	372010	0.1000	0.1069	

Average of Peak Amounts = 0.1096

2	4.349	4.348	0.001	1989741	0.1000	0.1082	
2	4.947	4.945	0.002	1506104	0.1000	0.1064	
2	5.540	5.537	0.003	3032381	0.1000	0.1075	
2	5.706	5.703	0.003	1190039	0.1000	0.1045	
2	6.002	5.999	0.003	564048	0.1000	0.1029	

Average of Peak Amounts = 0.1059

RPD = 3.44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262							M
1	7.007	7.008	-0.001	3876124	0.1000	0.1073	
1	7.402	7.404	-0.002	6098487	0.1000	0.1127	
1	7.640	7.644	-0.004	4732646	0.1000	0.1079	
1	7.943	7.947	-0.004	10060832	0.1000	0.1040	
1	8.240	8.243	-0.003	4431327	0.1000	0.1087	
Average of Peak Amounts =						0.1081	
2	7.804	7.809	-0.005	3692868	0.1000	0.1106	M
2	8.234	8.237	-0.003	5553757	0.1000	0.1085	M
2	8.506	8.507	-0.001	4750806	0.1000	0.1087	M
2	8.732	8.732	0.000	10865970	0.1000	0.1063	
2	9.050	9.049	0.001	8198156	0.1000	0.1089	
Average of Peak Amounts =						0.1086	
							RPD = 0.46

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@0.1PPM_00025

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081605.D

Injection Date: 16-Aug-2022 10:36:32

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1232 1262

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

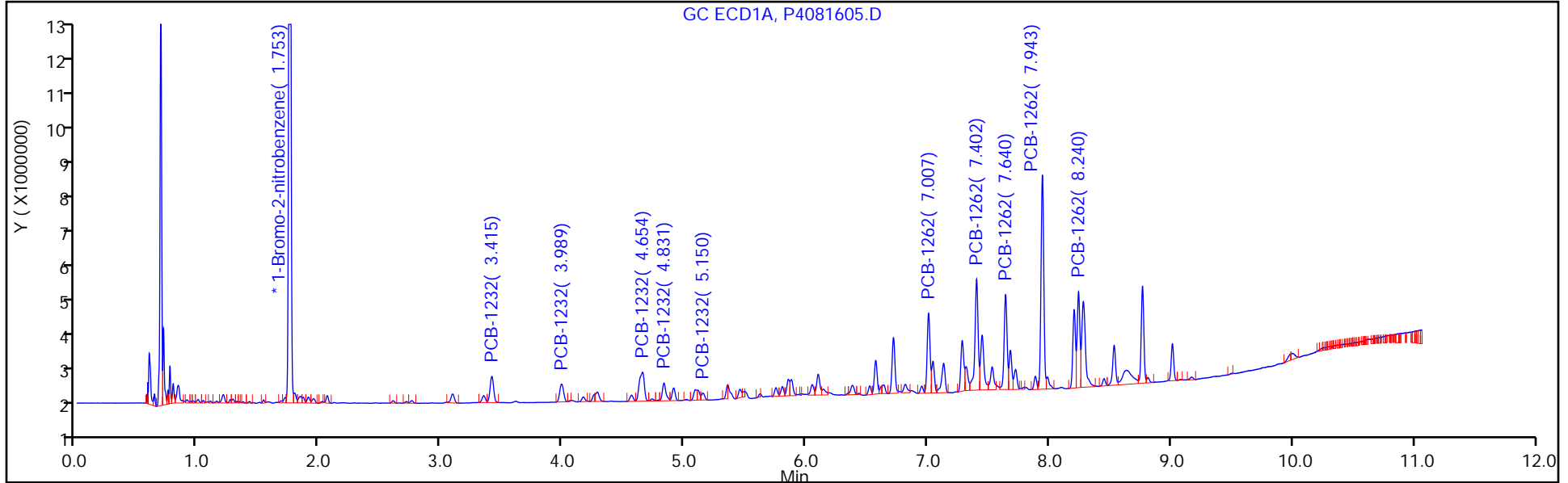
ALS Bottle#: 5

Method: PCB4 is

Limit Group: GC 8082A IS

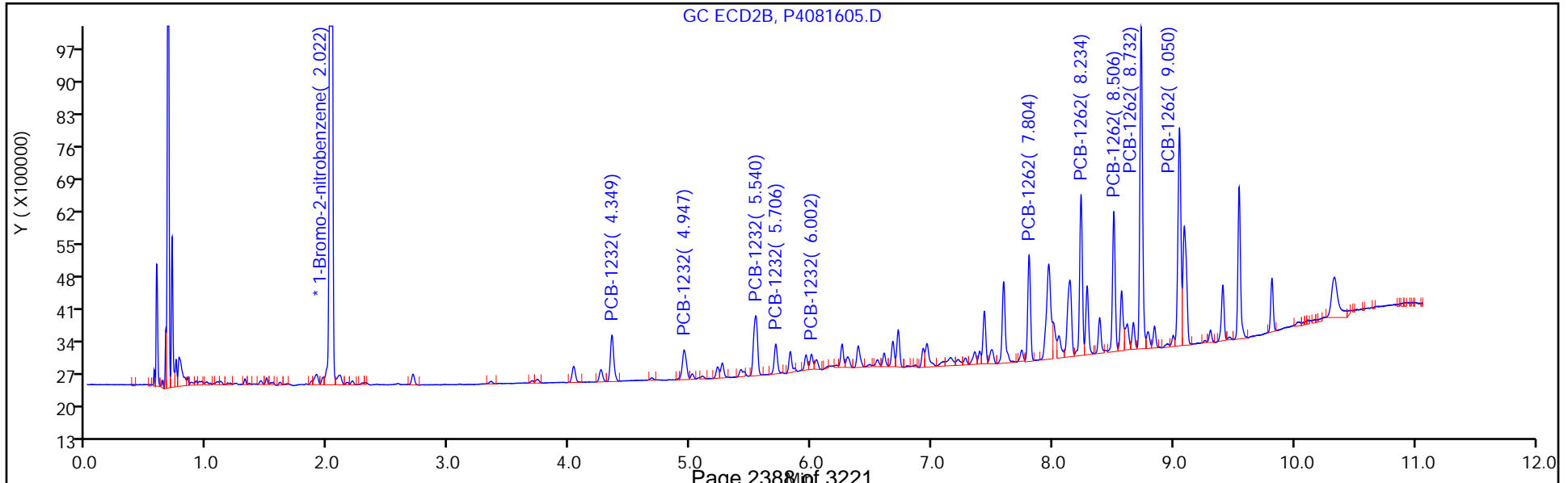
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081606.D
 Lims ID: std02 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 10:54:07 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-006
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:41 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:53:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.751	0.003	32480870	0.0500	0.0500	
2	2.025	2.020	0.005	45450454	0.0500	0.0500	
4 PCB-1232							
1	3.418	3.411	0.007	2937700	0.2000	0.2072	
1	3.991	3.986	0.005	2219081	0.2000	0.2063	
1	4.659	4.653	0.006	4688935	0.2000	0.2062	
1	4.833	4.829	0.004	2059574	0.2000	0.2099	
1	5.154	5.151	0.003	752976	0.2000	0.2148	
Average of Peak Amounts =						0.2089	
2	4.354	4.348	0.006	3828279	0.2000	0.2065	
2	4.950	4.945	0.005	3007798	0.2000	0.2108	
2	5.542	5.537	0.005	5807936	0.2000	0.2041	
2	5.707	5.703	0.004	2462667	0.2000	0.2145	
2	6.003	5.999	0.004	1126339	0.2000	0.2038	
Average of Peak Amounts =						0.2080	
RPD = 0.44							

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081606.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262

1	7.011	7.008	0.003	7482350	0.2000	0.2058	
1	7.407	7.404	0.003	10840033	0.2000	0.1989	
1	7.647	7.644	0.003	8986684	0.2000	0.2034	
1	7.950	7.947	0.003	19882215	0.2000	0.2040	
1	8.246	8.243	0.003	8456658	0.2000	0.2061	

Average of Peak Amounts = 0.2036

2	7.811	7.809	0.002	7003876	0.2000	0.2081	
2	8.240	8.237	0.003	10866895	0.2000	0.2105	
2	8.510	8.507	0.003	9158210	0.2000	0.2079	
2	8.736	8.732	0.004	21355550	0.2000	0.2072	
2	9.053	9.049	0.004	15778470	0.2000	0.2080	

Average of Peak Amounts = 0.2083

RPD = 2.28

QC Flag Legend

Processing Flags

Reagents:

SG3262@.2PPM_00026

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:10:42

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081606.D

Injection Date: 16-Aug-2022 10:54:07

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1232 1262

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

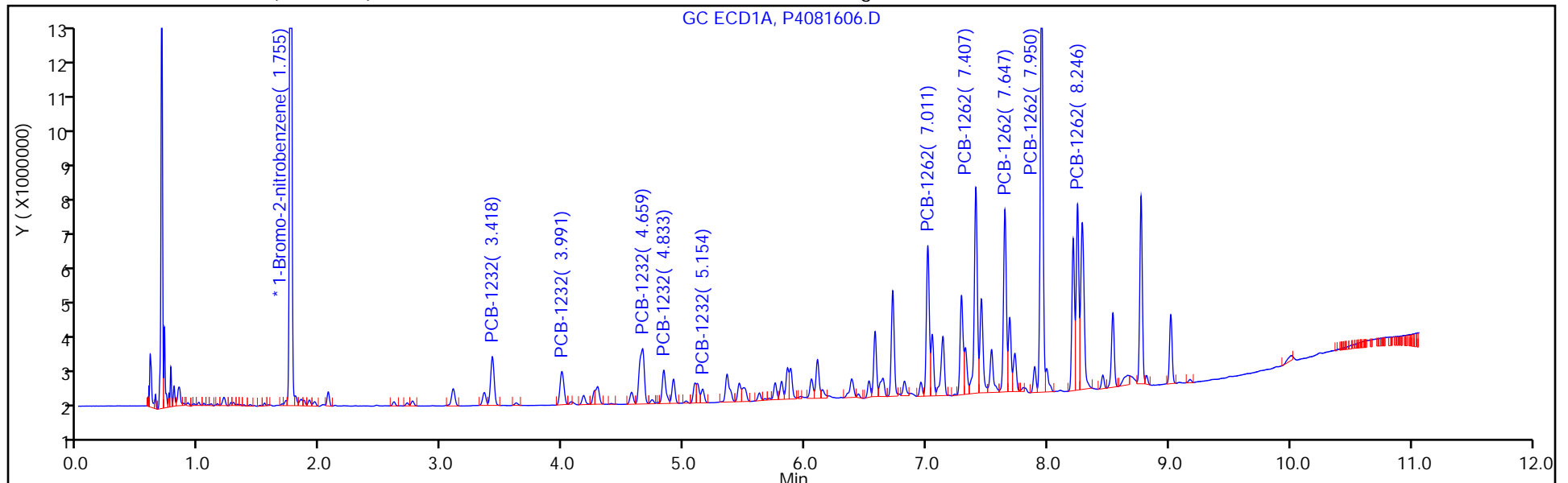
ALS Bottle#: 6

Method: PCB4 is

Limit Group: GC 8082A IS

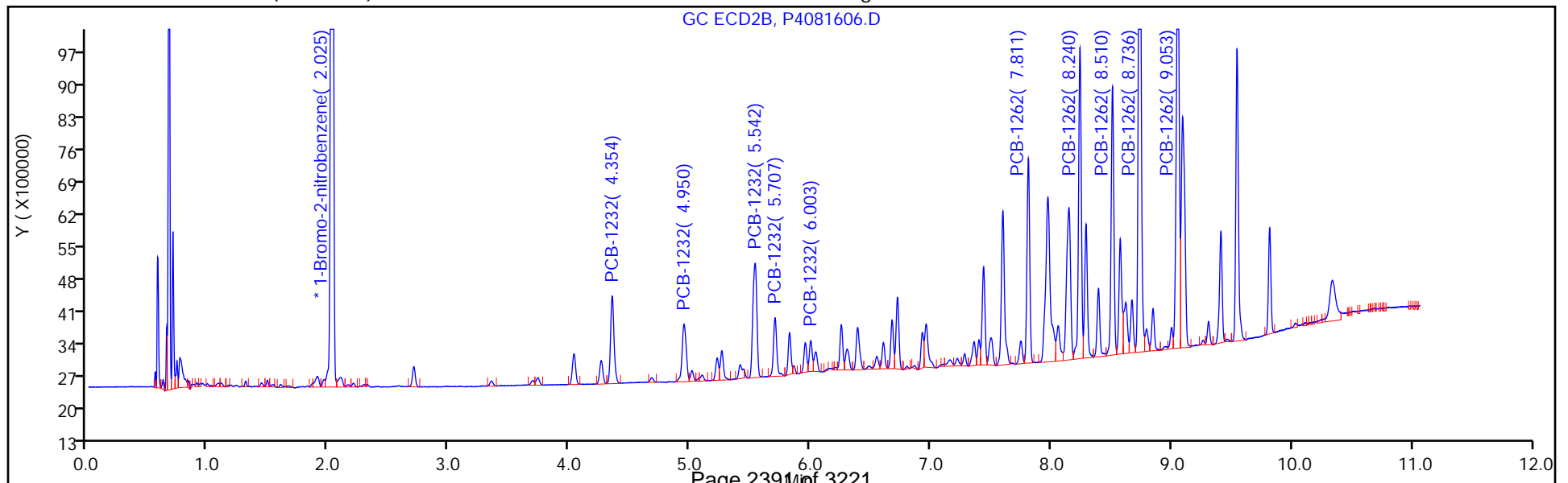
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081607.D
 Lims ID: std05 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 11:11:38 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-007
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.757	1.751	0.006	34239526	0.0500	0.0500	
2	2.026	2.020	0.006	47955148	0.0500	0.0500	

4 PCB-1232

1	3.421	3.411	0.010	7023666	0.5000	0.4699	
1	3.996	3.986	0.010	5383027	0.5000	0.4747	
1	4.661	4.653	0.008	11389460	0.5000	0.4752	
1	4.836	4.829	0.007	4987372	0.5000	0.4822	
1	5.157	5.151	0.006	1805682	0.5000	0.4887	

Average of Peak Amounts = 0.4781

2	4.356	4.348	0.008	9272346	0.5000	0.4740	
2	4.952	4.945	0.007	7267080	0.5000	0.4827	
2	5.544	5.537	0.007	14390045	0.5000	0.4794	
2	5.710	5.703	0.007	6011297	0.5000	0.4963	
2	6.007	5.999	0.008	2886094	0.5000	0.4951	

Average of Peak Amounts = 0.4855

RPD = 1.53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	7.012	7.008	0.004	17944814	0.5000	0.4681	
1	7.407	7.404	0.003	24696556	0.5000	0.4298	
1	7.647	7.644	0.003	21278961	0.5000	0.4570	
1	7.949	7.947	0.002	48879033	0.5000	0.4759	
1	8.244	8.243	0.001	20008746	0.5000	0.4625	

Average of Peak Amounts = 0.4587

2	7.810	7.809	0.001	16394316	0.5000	0.4616	
2	8.239	8.237	0.002	25503730	0.5000	0.4683	
2	8.509	8.507	0.002	21487367	0.5000	0.4622	
2	8.733	8.732	0.001	50940201	0.5000	0.4685	
2	9.051	9.049	0.002	37003179	0.5000	0.4622	

Average of Peak Amounts = 0.4646

RPD = 1.28

QC Flag Legend

Processing Flags

Reagents:

SG3262@0.5PPM_00053

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:10:45

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081607.D

Injection Date: 16-Aug-2022 11:11:38

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1232 1262

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

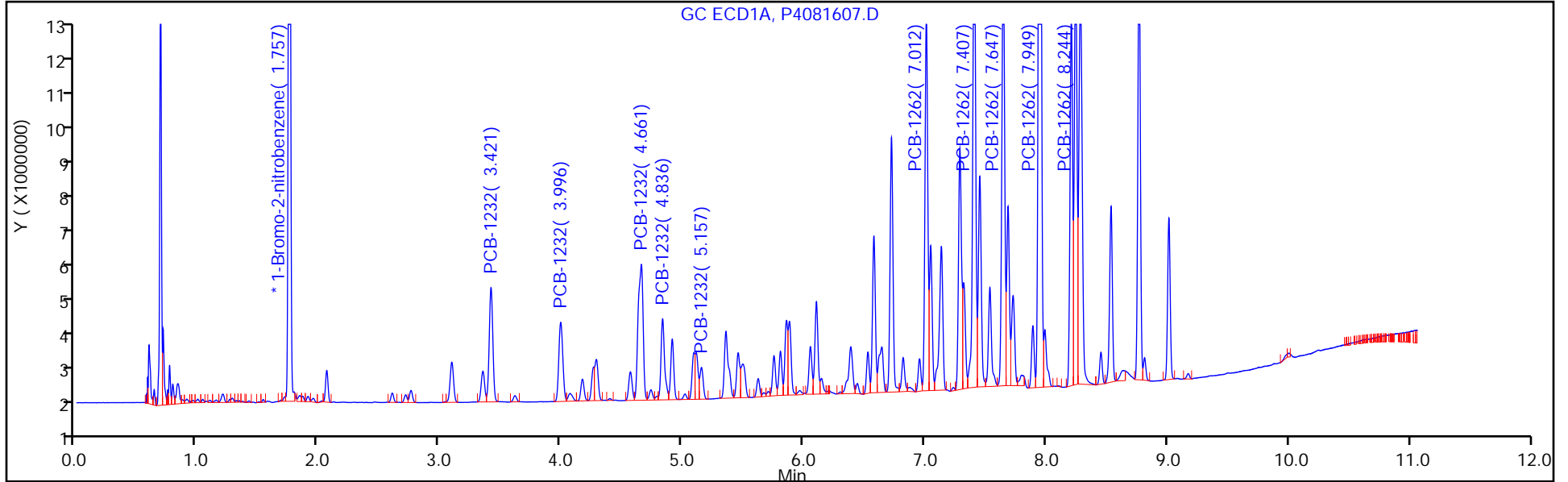
ALS Bottle#: 7

Method: PCB4 is

Limit Group: GC 8082A IS

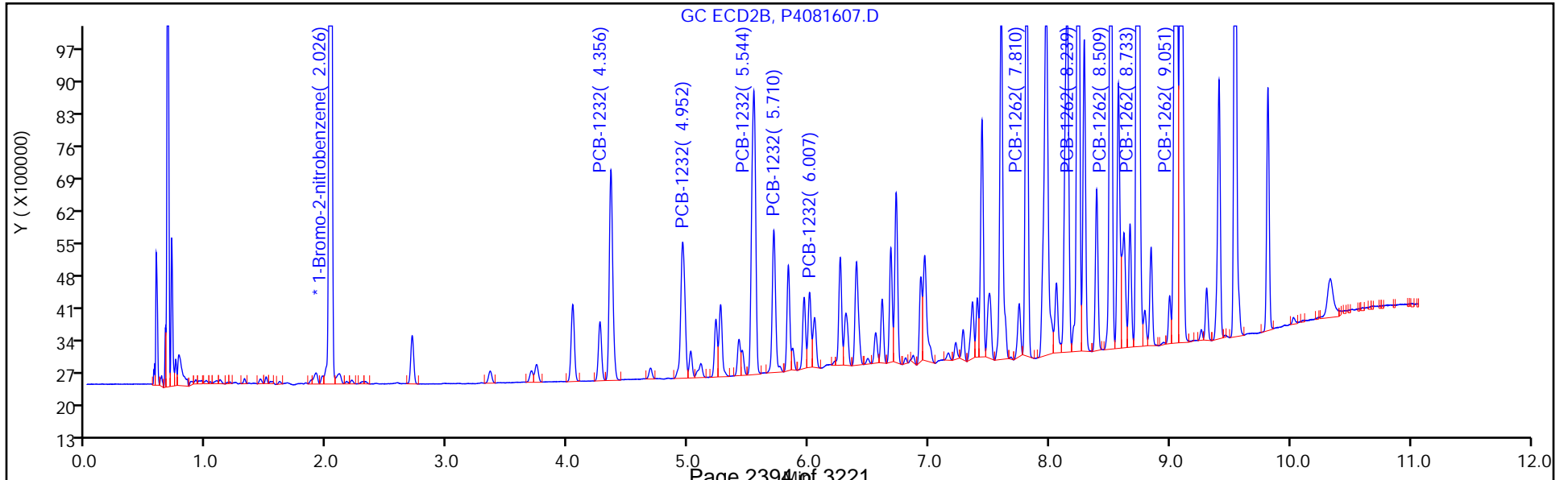
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081608.D
 Lims ID: std1 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 11:29:09 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-008
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:48 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.754	1.751	0.002	35358327	0.0500	0.0500	
2	2.024	2.020	0.004	49041523	0.0500	0.0500	

4 PCB-1232

1	3.415	3.411	0.004	13864692	1.00	0.8982	
1	3.988	3.986	0.002	10540916	1.00	0.9000	
1	4.654	4.653	0.001	23128677	1.00	0.9345	
1	4.830	4.829	0.001	9907960	1.00	0.9276	
1	5.151	5.151	0.000	3541319	1.00	0.9280	

Average of Peak Amounts = 0.9177

2	4.350	4.348	0.002	18186118	1.00	0.9091	
2	4.947	4.945	0.002	14322524	1.00	0.9303	
2	5.539	5.537	0.002	28951908	1.00	0.9431	
2	5.705	5.703	0.002	12080986	1.00	0.9752	
2	6.002	5.999	0.003	5889692	1.00	0.9879	

Average of Peak Amounts = 0.9491

RPD = 3.37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	7.010	7.008	0.002	37510531	1.00	0.9476	
1	7.406	7.404	0.002	51089740	1.00	0.8611	
1	7.645	7.644	0.001	45269942	1.00	0.9414	
1	7.948	7.947	0.001	103783942	1.00	0.9784	
1	8.245	8.243	0.002	41897958	1.00	0.9378	

Average of Peak Amounts = 0.9332

2	7.810	7.809	0.001	33579556	1.00	0.9246	
2	8.239	8.237	0.002	52306852	1.00	0.9392	
2	8.510	8.507	0.003	44140554	1.00	0.9285	
2	8.734	8.732	0.002	105730844	1.00	0.9509	
2	9.049	9.049	0.000	75855617	1.00	0.9266	

Average of Peak Amounts = 0.9339

RPD = 0.07

QC Flag Legend

Processing Flags

Reagents:

SG3262@1.0PPM_00038

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:10:49

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081608.D

Injection Date: 16-Aug-2022 11:29:09

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1232 1262

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

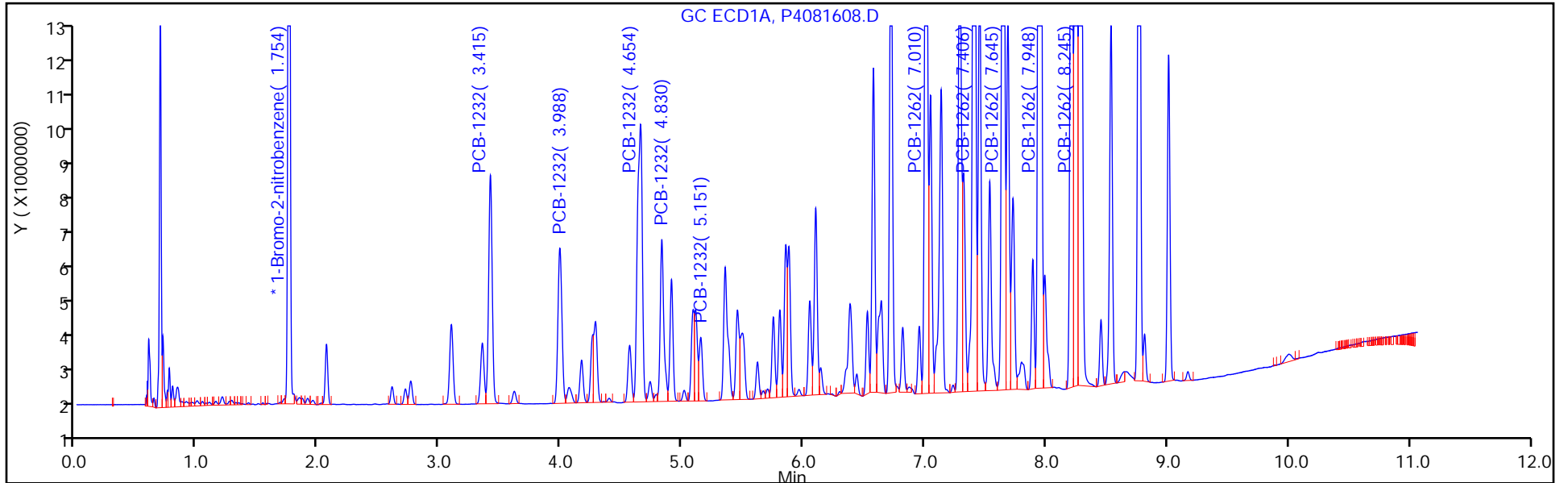
ALS Bottle#: 8

Method: PCB4 is

Limit Group: GC 8082A IS

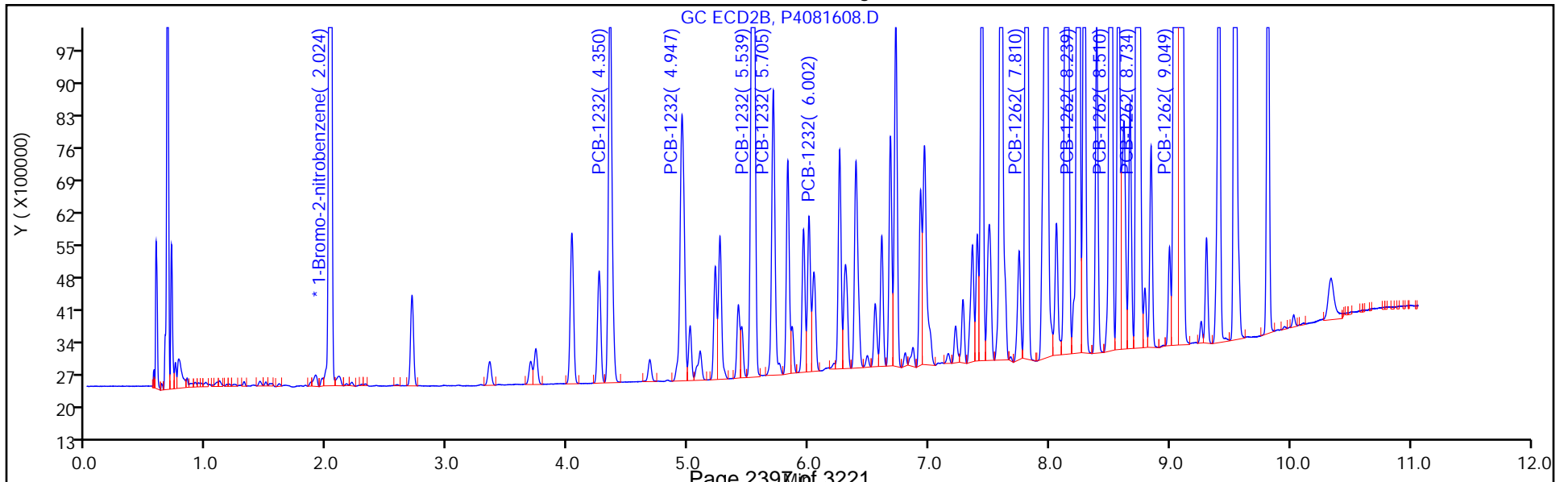
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081609.D
 Lims ID: std15 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 11:46:52 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-009
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:51 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.758	1.751	0.006	32334389	0.0500	0.0500	
2	2.028	2.020	0.007	45385278	0.0500	0.0500	
4 PCB-1232							
1	3.423	3.411	0.012	18380787	1.50	1.30	
1	3.996	3.986	0.010	13863065	1.50	1.29	
1	4.660	4.653	0.007	31166654	1.50	1.38	
1	4.833	4.829	0.004	13257836	1.50	1.36	
1	5.153	5.151	0.002	4739431	1.50	1.36	
Average of Peak Amounts =						1.34	
2	4.355	4.348	0.007	24336526	1.50	1.31	
2	4.951	4.945	0.006	19121990	1.50	1.34	
2	5.542	5.537	0.005	38948988	1.50	1.37	
2	5.708	5.703	0.005	15651193	1.50	1.37	
2	6.006	5.999	0.007	7722996	1.50	1.40	
Average of Peak Amounts =						1.36	
RPD =						1.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262							M
1	7.013	7.008	0.005	50973734	1.50	1.41	M
1	7.409	7.404	0.005	69673568	1.50	1.28	M
1	7.649	7.644	0.005	62121738	1.50	1.41	M
1	7.952	7.947	0.005	144501627	1.50	1.49	M
1	8.248	8.243	0.005	57704314	1.50	1.41	M

Average of Peak Amounts = 1.40

2	7.813	7.809	0.004	45776052	1.50	1.36	
2	8.242	8.237	0.005	71701429	1.50	1.39	
2	8.513	8.507	0.006	60826597	1.50	1.38	
2	8.738	8.732	0.006	147572940	1.50	1.43	
2	9.054	9.049	0.005	106063451	1.50	1.40	

Average of Peak Amounts = 1.39

RPD = 0.53

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@1.5PPM_00014

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:10:52

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081609.D

Injection Date: 16-Aug-2022 11:46:52

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1232 1262

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

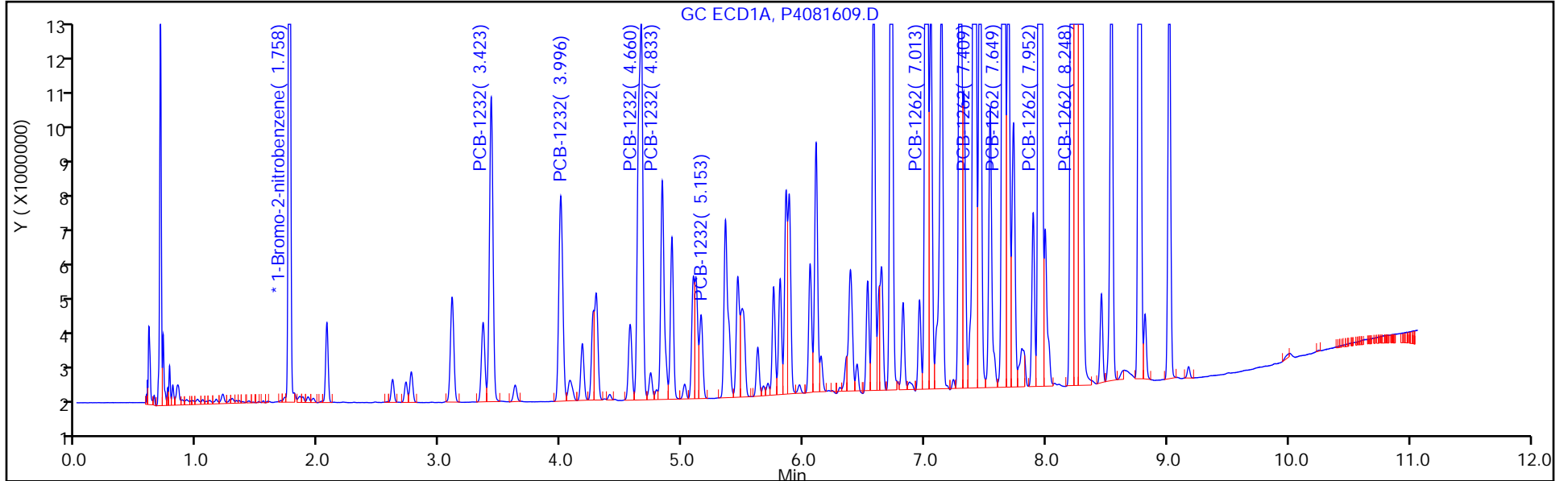
ALS Bottle#: 9

Method: PCB4 is

Limit Group: GC 8082A IS

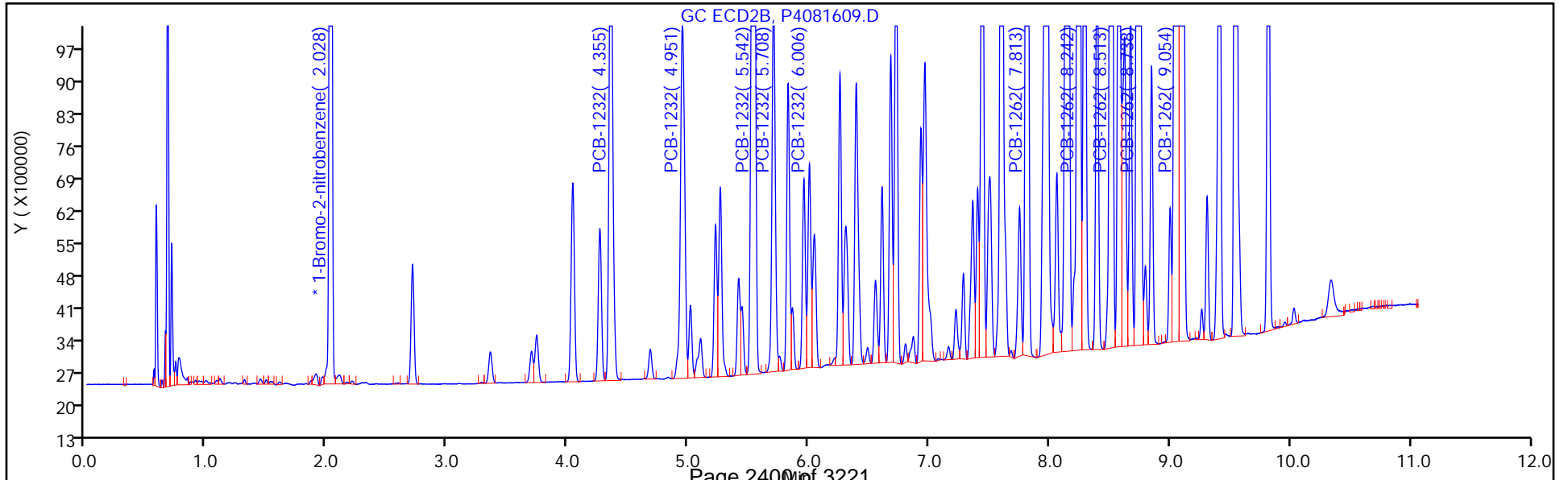
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081609.D

Injection Date: 16-Aug-2022 11:46:52

Instrument ID: A2HP4

Lims ID: std15 1232 1262

Client ID:

Operator ID:

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

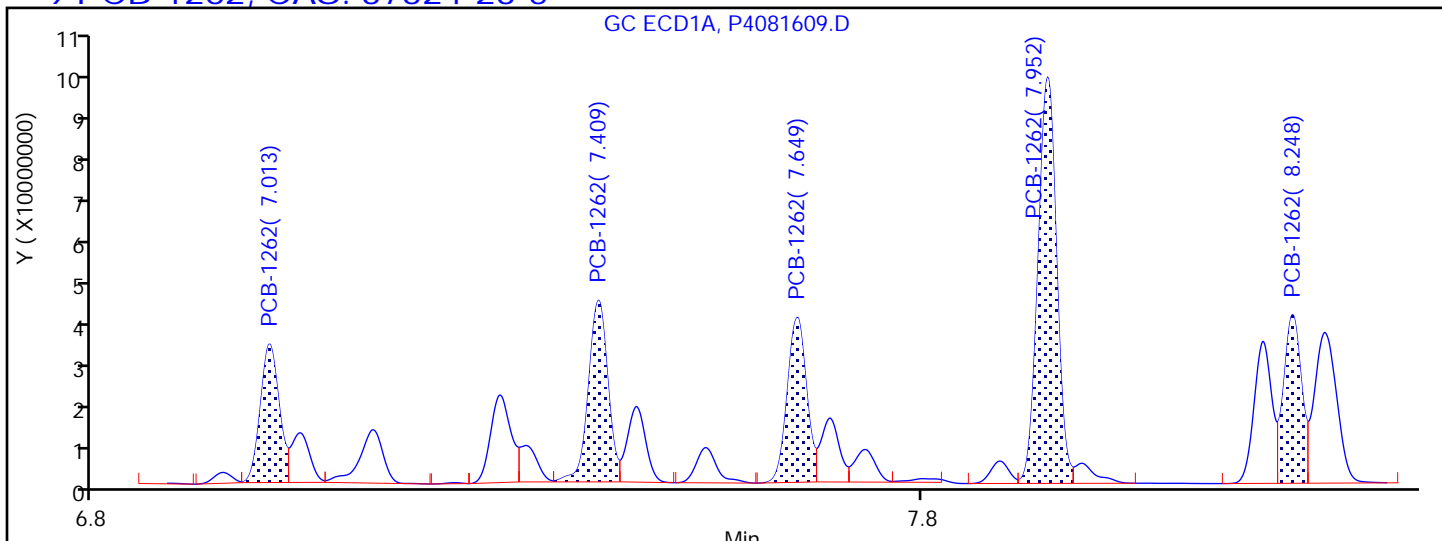
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

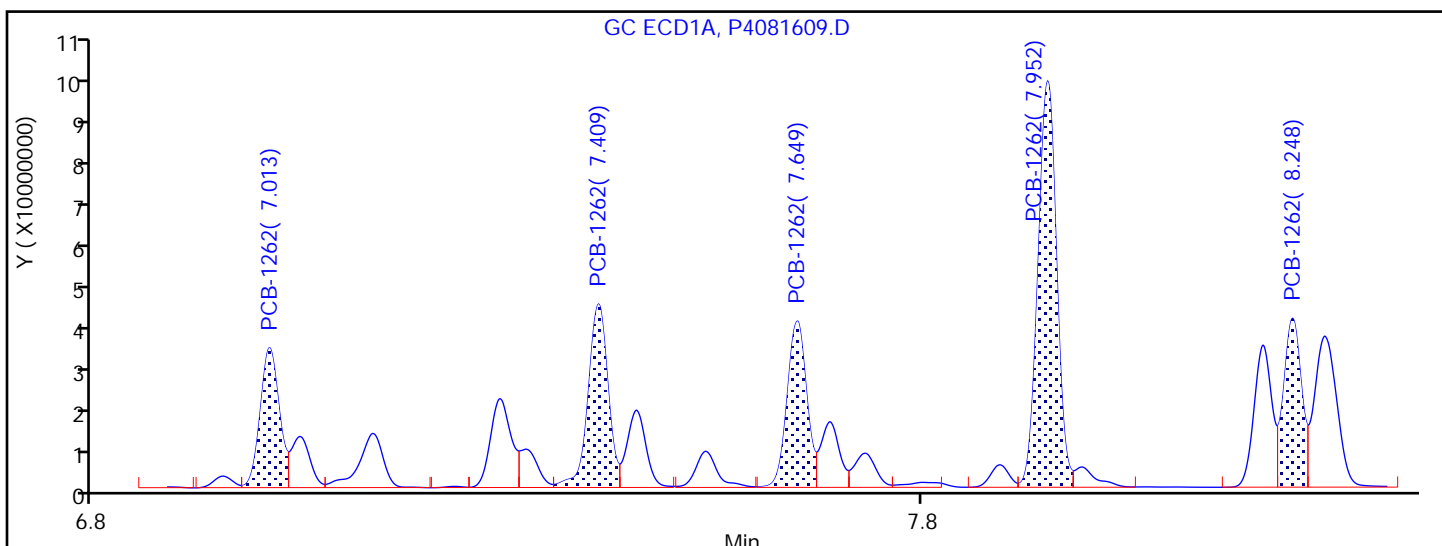
Detector: GC ECD1A

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

7.013	Response = 49916886
7.409	Response = 67611015
7.649	Response = 60972569
7.952	Response = 144359315
8.248	Response = 57614825



Manual Integration Results

7.013	Response = 50973734	M
7.409	Response = 69673568	M
7.649	Response = 62121738	M
7.952	Response = 144501627	M
8.248	Response = 57704314	M

Reviewer: WRR8, 17-Aug-2022 07:54:34

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2401 of 3221

Calibration

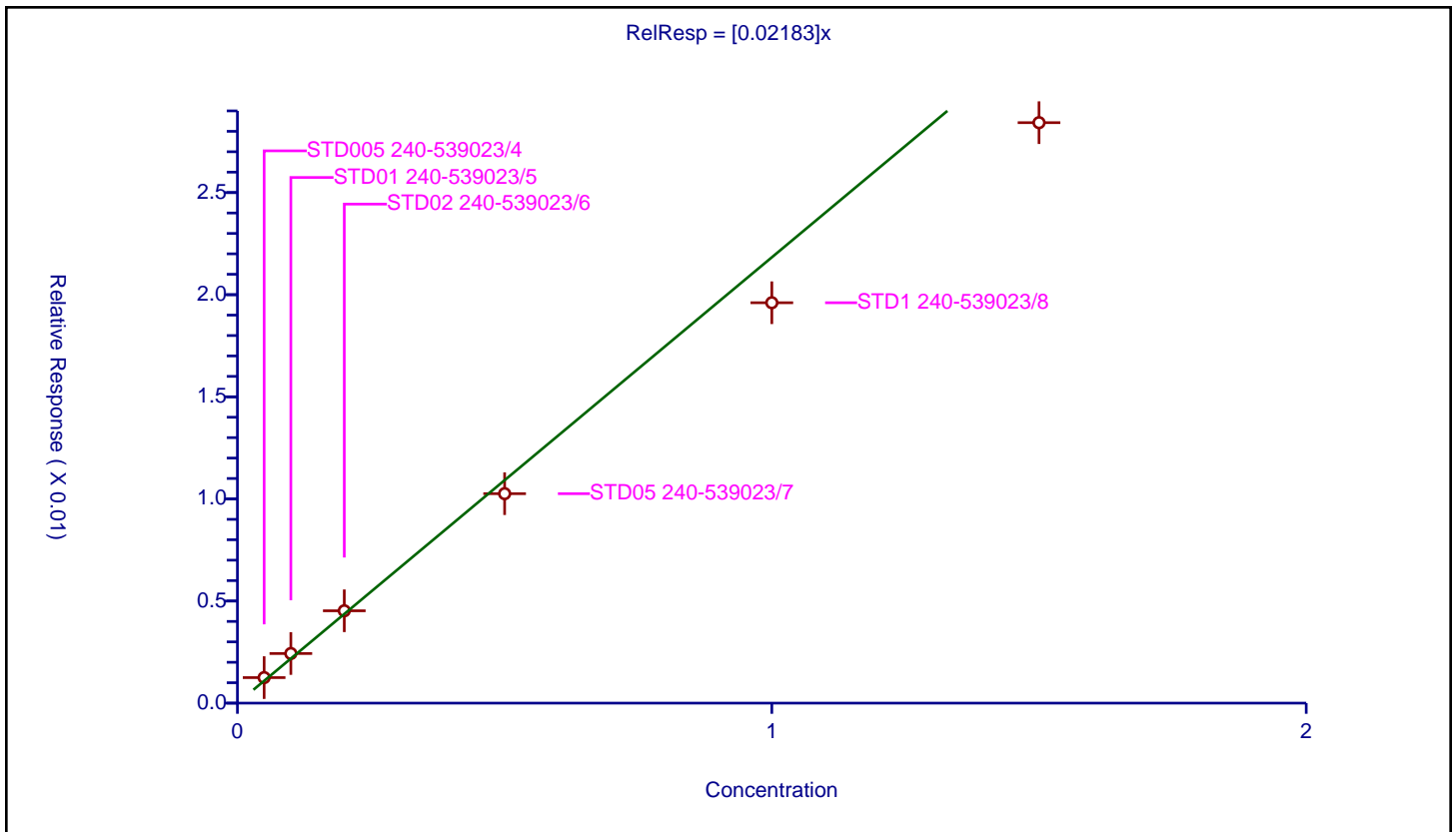
/ PCB-1232 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02183

Error Coefficients	
Standard Error:	10900000
Relative Standard Error:	11.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.00125	0.05	35140094.0	0.025006	Y
2	STD01 240-539023/5	0.1	0.002429	0.05	32259176.0	0.024288	Y
3	STD02 240-539023/6	0.2	0.004522	0.05	32480870.0	0.022611	Y
4	STD05 240-539023/7	0.5	0.010257	0.05	34239526.0	0.020513	Y
5	STD1 240-539023/8	1.0	0.019606	0.05	35358327.0	0.019606	Y
6	STD15 240-539023/9	1.5	0.028423	0.05	32334389.0	0.018949	Y



Calibration

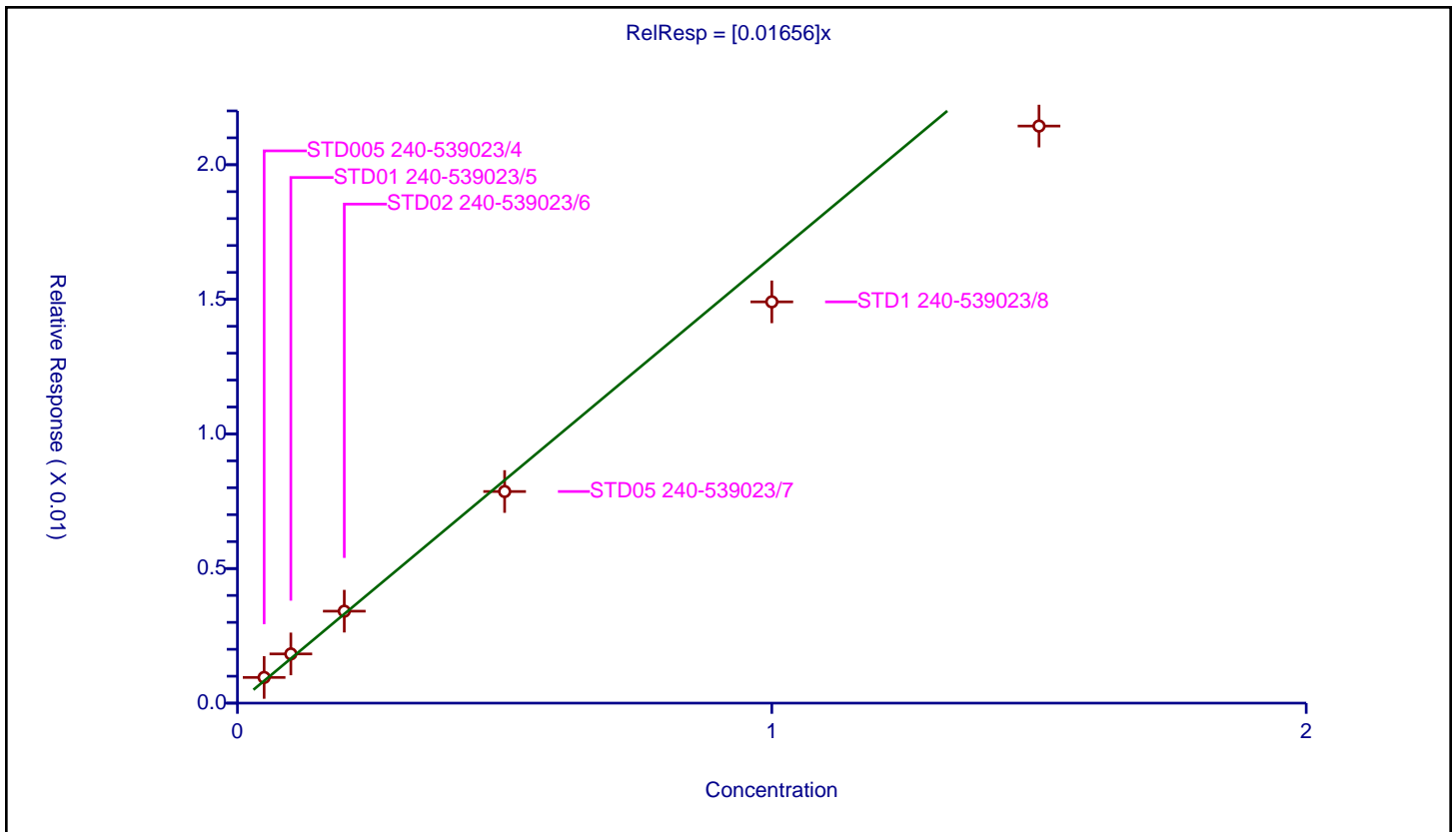
/ PCB-1232 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01656

Error Coefficients	
Standard Error:	8230000
Relative Standard Error:	11.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000954	0.05	35140094.0	0.019087	Y
2	STD01 240-539023/5	0.1	0.001828	0.05	32259176.0	0.018282	Y
3	STD02 240-539023/6	0.2	0.003416	0.05	32480870.0	0.01708	Y
4	STD05 240-539023/7	0.5	0.007861	0.05	34239526.0	0.015722	Y
5	STD1 240-539023/8	1.0	0.014906	0.05	35358327.0	0.014906	Y
6	STD15 240-539023/9	1.5	0.021437	0.05	32334389.0	0.014291	Y



Calibration

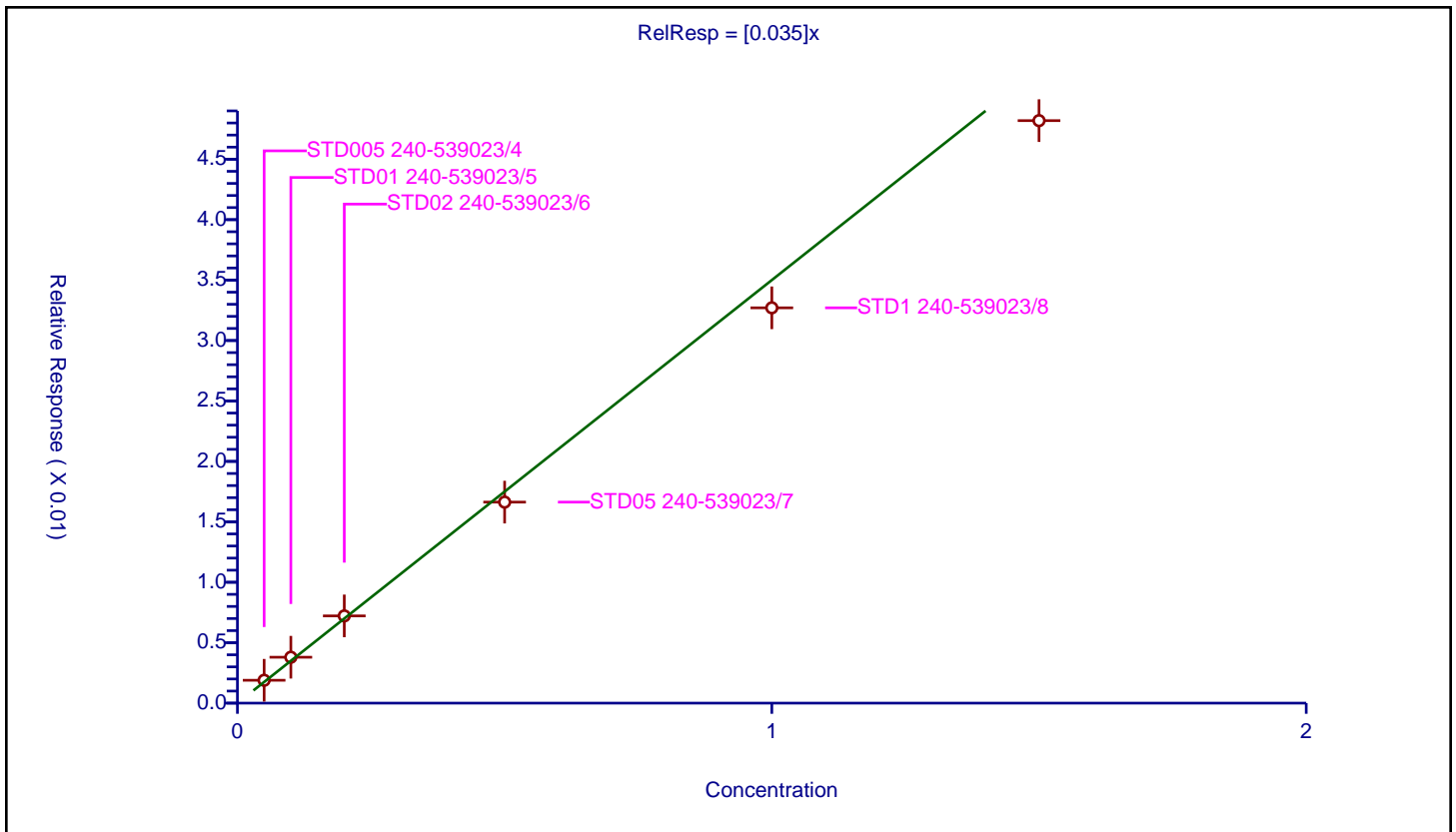
/ PCB-1232 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.035

Error Coefficients	
Standard Error:	18300000
Relative Standard Error:	7.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.001892	0.05	35140094.0	0.03784	Y
2	STD01 240-539023/5	0.1	0.003797	0.05	32259176.0	0.037972	Y
3	STD02 240-539023/6	0.2	0.007218	0.05	32480870.0	0.03609	Y
4	STD05 240-539023/7	0.5	0.016632	0.05	34239526.0	0.033264	Y
5	STD1 240-539023/8	1.0	0.032706	0.05	35358327.0	0.032706	Y
6	STD15 240-539023/9	1.5	0.048194	0.05	32334389.0	0.03213	Y



Calibration

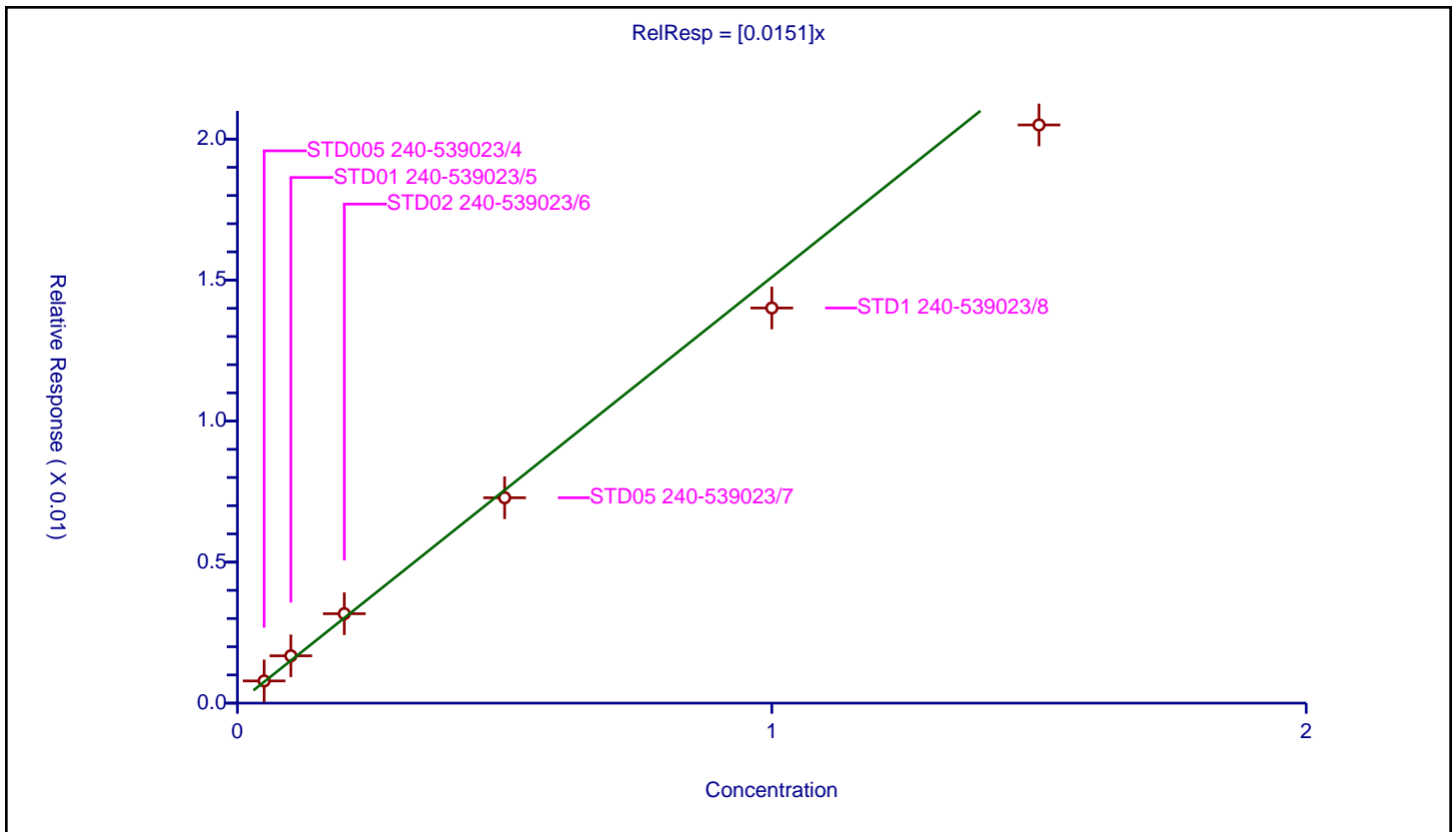
/ PCB-1232 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0151

Error Coefficients	
Standard Error:	7800000
Relative Standard Error:	8.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000787	0.05	35140094.0	0.015749	Y
2	STD01 240-539023/5	0.1	0.001678	0.05	32259176.0	0.016776	Y
3	STD02 240-539023/6	0.2	0.00317	0.05	32480870.0	0.015852	Y
4	STD05 240-539023/7	0.5	0.007283	0.05	34239526.0	0.014566	Y
5	STD1 240-539023/8	1.0	0.014011	0.05	35358327.0	0.014011	Y
6	STD15 240-539023/9	1.5	0.020501	0.05	32334389.0	0.013667	Y



Calibration

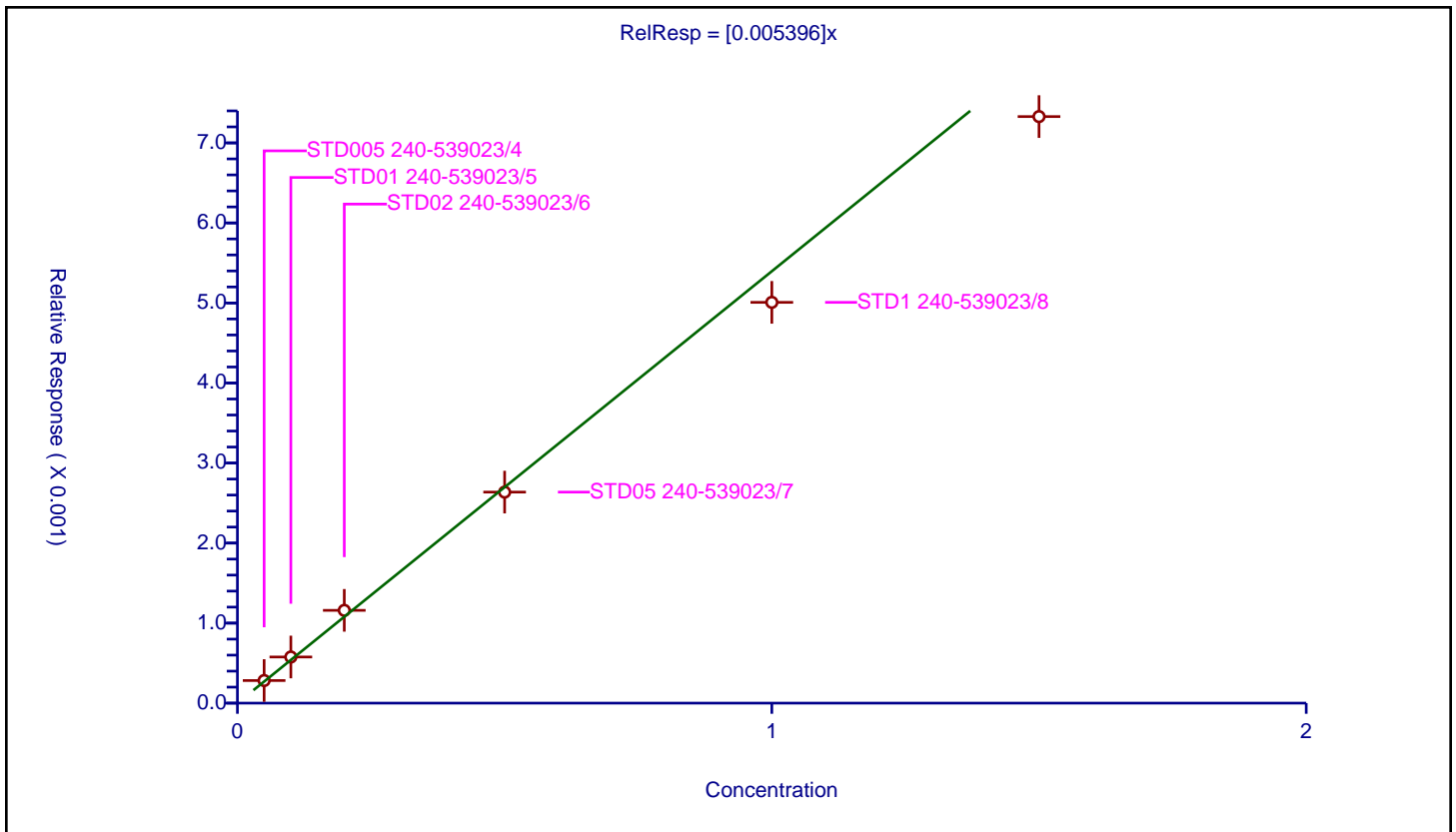
/ PCB-1232 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.005396

Error Coefficients	
Standard Error:	2790000
Relative Standard Error:	7.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000282	0.05	35140094.0	0.005648	Y
2	STD01 240-539023/5	0.1	0.000577	0.05	32259176.0	0.005766	Y
3	STD02 240-539023/6	0.2	0.001159	0.05	32480870.0	0.005796	Y
4	STD05 240-539023/7	0.5	0.002637	0.05	34239526.0	0.005274	Y
5	STD1 240-539023/8	1.0	0.005008	0.05	35358327.0	0.005008	Y
6	STD15 240-539023/9	1.5	0.007329	0.05	32334389.0	0.004886	Y



Calibration

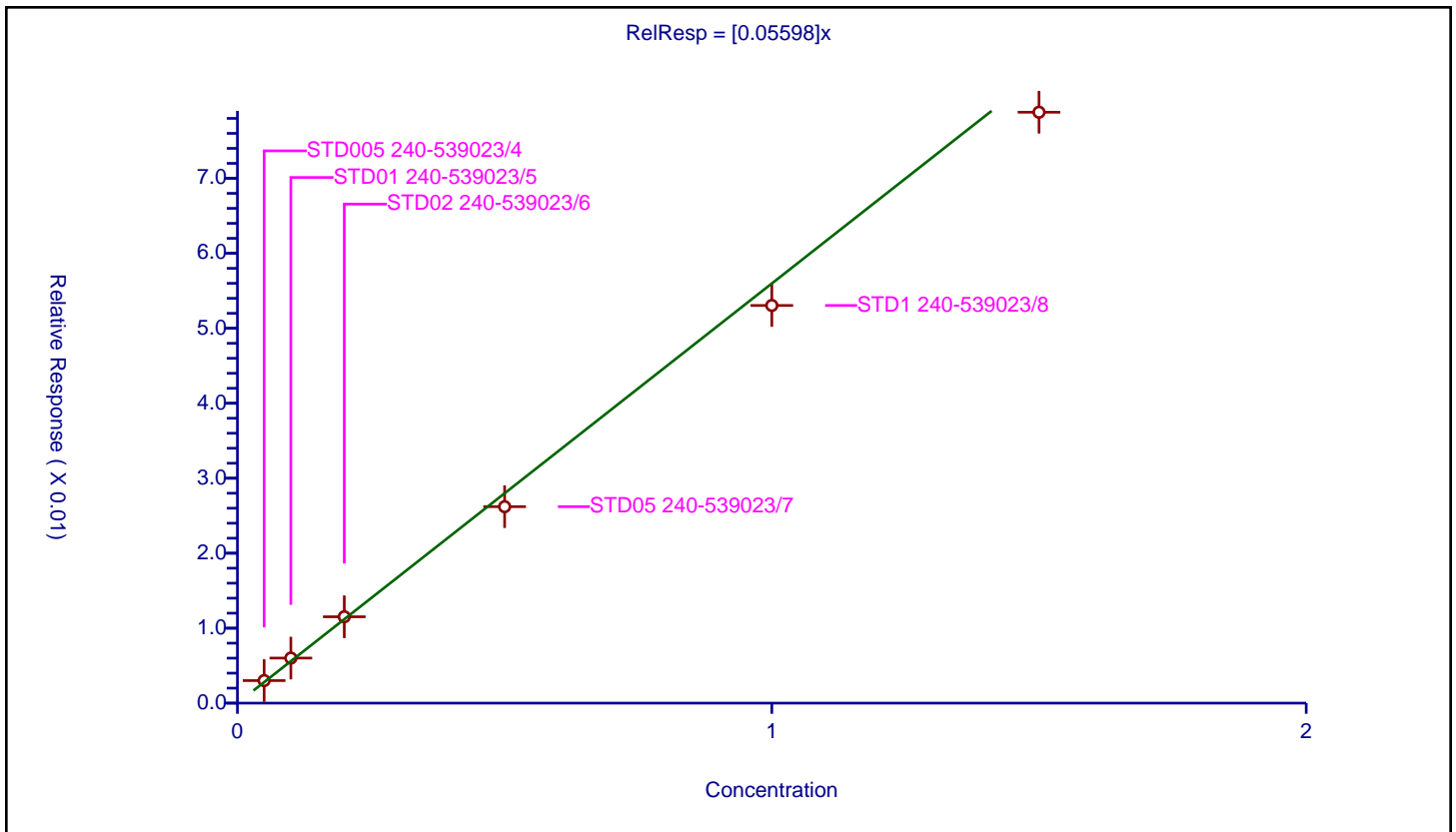
/ PCB-1262 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05598

Error Coefficients	
Standard Error:	29700000
Relative Standard Error:	6.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.003009	0.05	35140094.0	0.060182	Y
2	STD01 240-539023/5	0.1	0.006008	0.05	32259176.0	0.060078	Y
3	STD02 240-539023/6	0.2	0.011518	0.05	32480870.0	0.05759	Y
4	STD05 240-539023/7	0.5	0.026205	0.05	34239526.0	0.05241	Y
5	STD1 240-539023/8	1.0	0.053043	0.05	35358327.0	0.053043	Y
6	STD15 240-539023/9	1.5	0.078823	0.05	32334389.0	0.052549	Y



Calibration

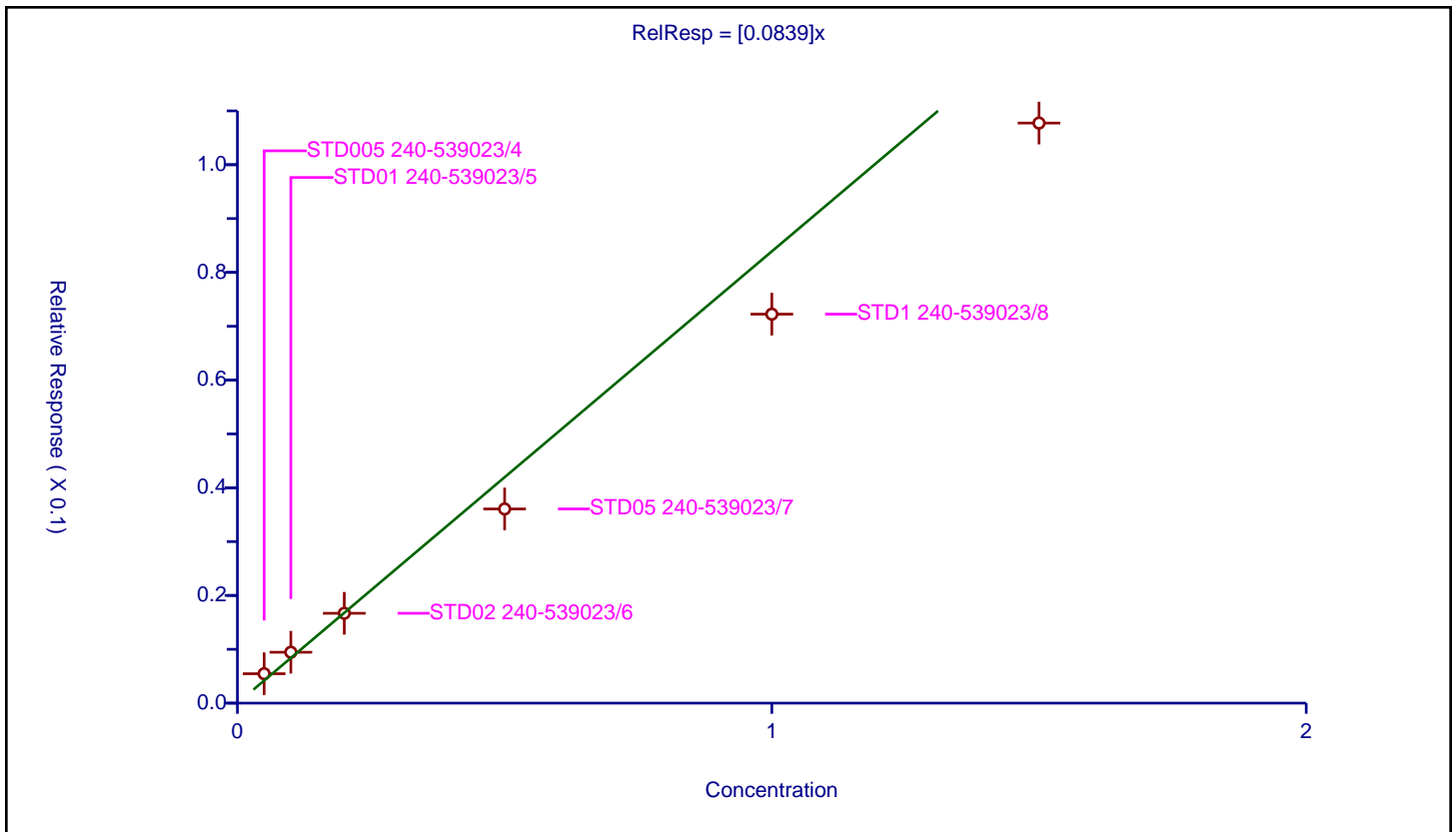
/ PCB-1262 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0839

Error Coefficients	
Standard Error:	40600000
Relative Standard Error:	18.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.927

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.005463	0.05	35140094.0	0.109265	Y
2	STD01 240-539023/5	0.1	0.009452	0.05	32259176.0	0.094523	Y
3	STD02 240-539023/6	0.2	0.016687	0.05	32480870.0	0.083434	Y
4	STD05 240-539023/7	0.5	0.036064	0.05	34239526.0	0.072129	Y
5	STD1 240-539023/8	1.0	0.072246	0.05	35358327.0	0.072246	Y
6	STD15 240-539023/9	1.5	0.107739	0.05	32334389.0	0.071826	Y



Calibration

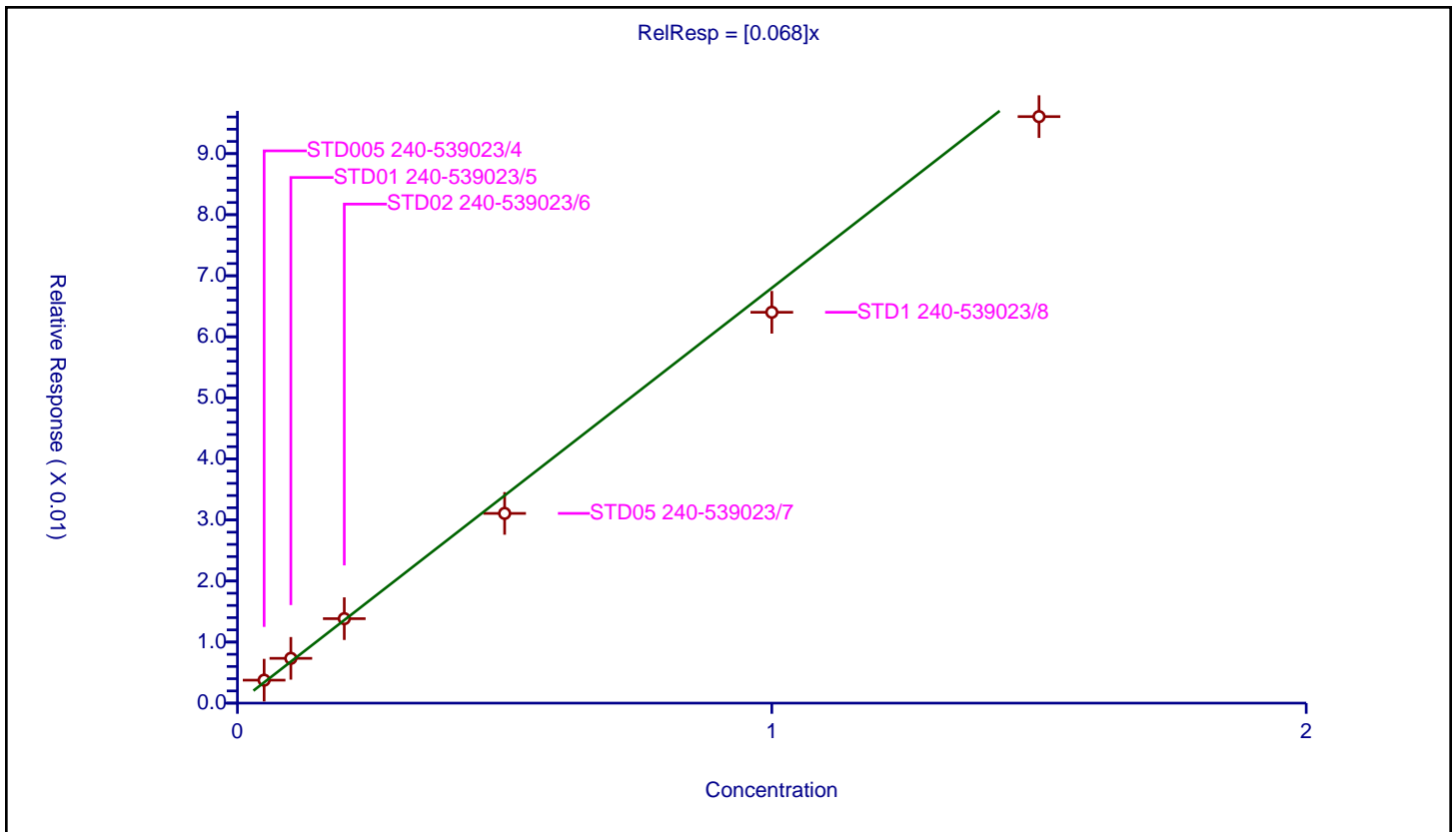
/ PCB-1262 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.068

Error Coefficients	
Standard Error:	36000000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.003764	0.05	35140094.0	0.075284	Y
2	STD01 240-539023/5	0.1	0.007335	0.05	32259176.0	0.073353	Y
3	STD02 240-539023/6	0.2	0.013834	0.05	32480870.0	0.069169	Y
4	STD05 240-539023/7	0.5	0.031074	0.05	34239526.0	0.062147	Y
5	STD1 240-539023/8	1.0	0.064016	0.05	35358327.0	0.064016	Y
6	STD15 240-539023/9	1.5	0.096061	0.05	32334389.0	0.064041	Y



Calibration

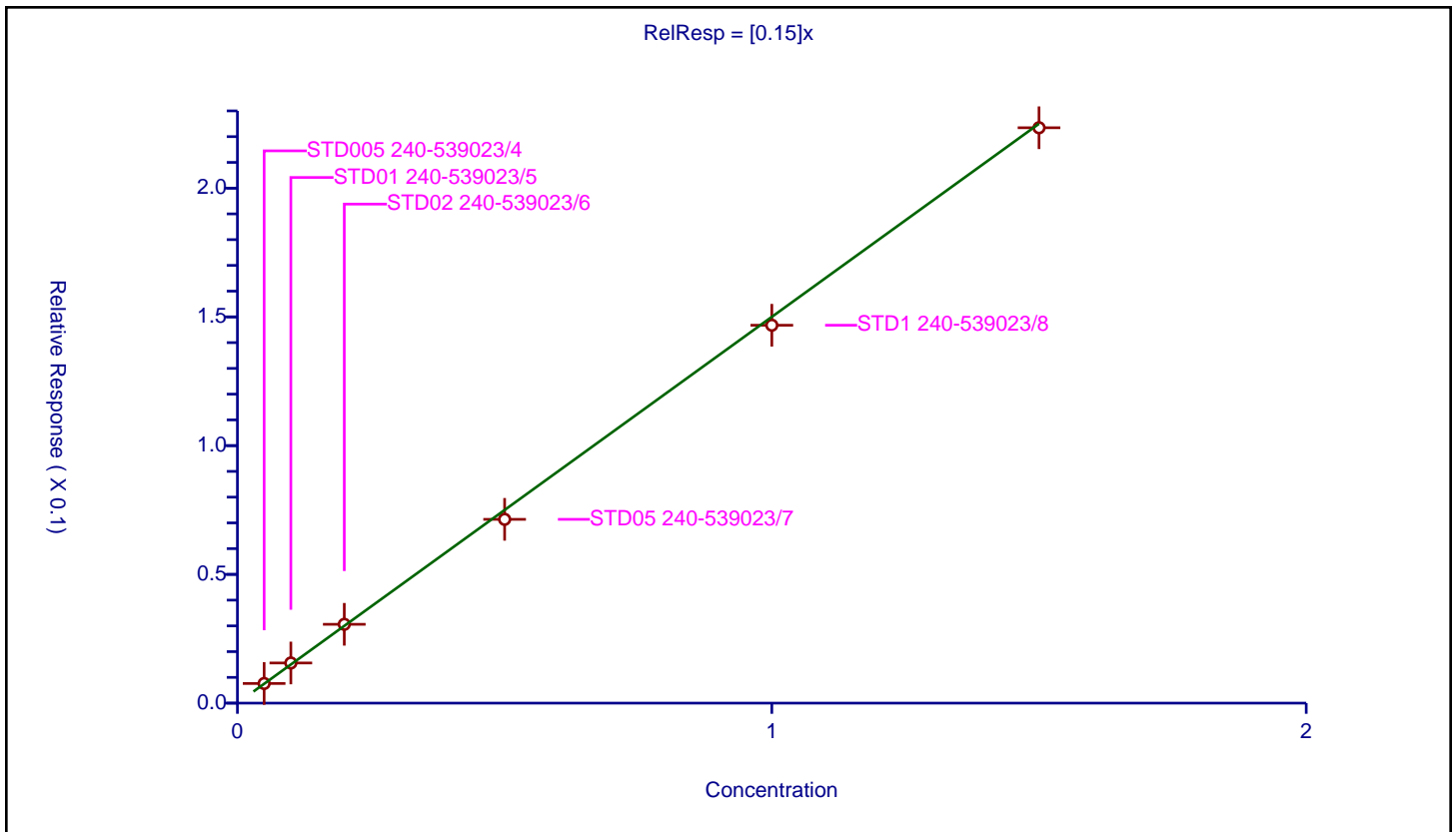
/ PCB-1262 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.15

Error Coefficients	
Standard Error:	83100000
Relative Standard Error:	3.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.007628	0.05	35140094.0	0.15255	Y
2	STD01 240-539023/5	0.1	0.015594	0.05	32259176.0	0.155938	Y
3	STD02 240-539023/6	0.2	0.030606	0.05	32480870.0	0.15303	Y
4	STD05 240-539023/7	0.5	0.071378	0.05	34239526.0	0.142756	Y
5	STD1 240-539023/8	1.0	0.14676	0.05	35358327.0	0.14676	Y
6	STD15 240-539023/9	1.5	0.223449	0.05	32334389.0	0.148966	Y



Calibration

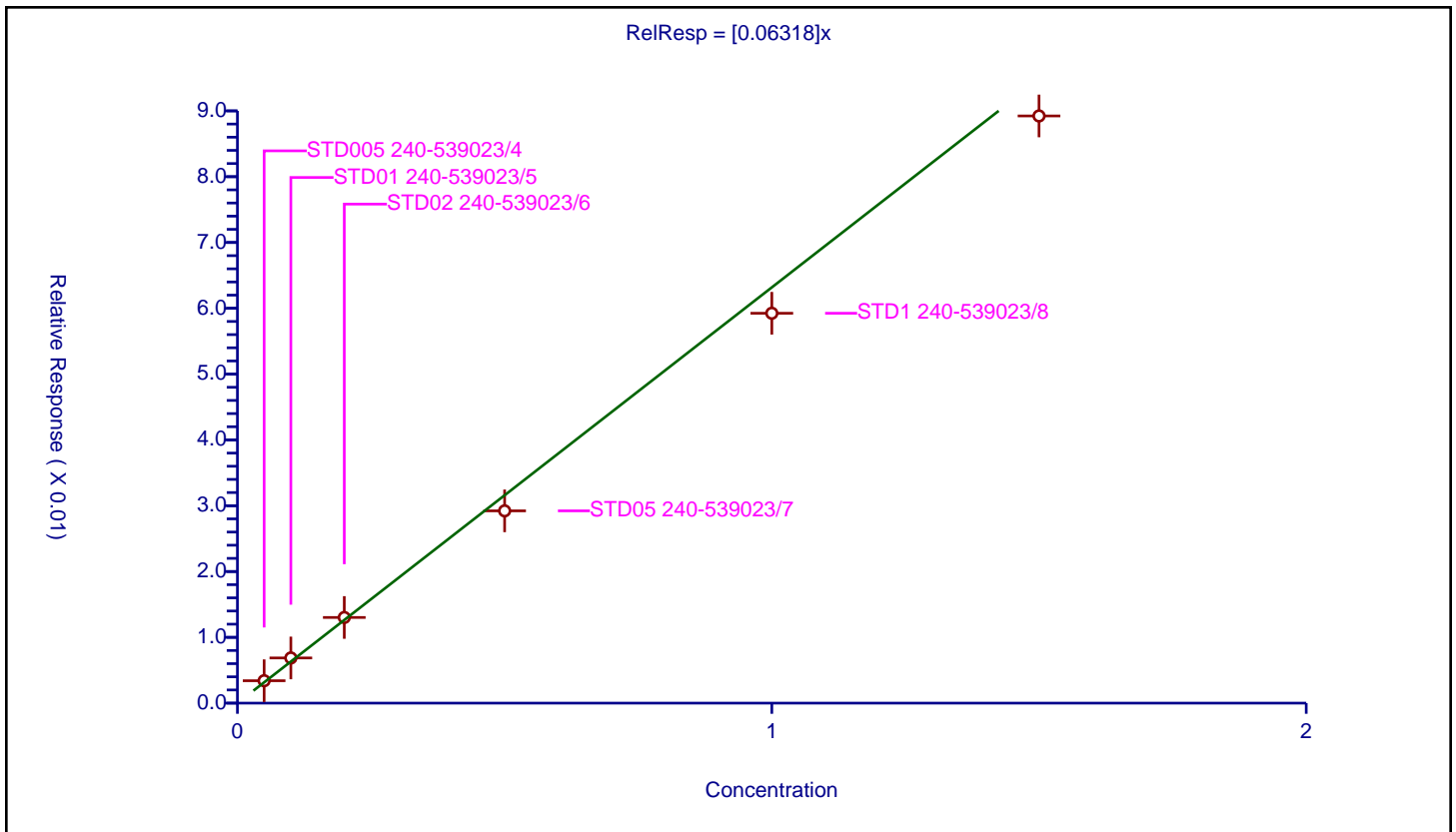
/ PCB-1262 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06318

Error Coefficients	
Standard Error:	33400000
Relative Standard Error:	7.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.003406	0.05	35140094.0	0.068123	Y
2	STD01 240-539023/5	0.1	0.006868	0.05	32259176.0	0.068683	Y
3	STD02 240-539023/6	0.2	0.013018	0.05	32480870.0	0.06509	Y
4	STD05 240-539023/7	0.5	0.029219	0.05	34239526.0	0.058438	Y
5	STD1 240-539023/8	1.0	0.059248	0.05	35358327.0	0.059248	Y
6	STD15 240-539023/9	1.5	0.089231	0.05	32334389.0	0.059487	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 10:18 Calibration End Date: 08/16/2022 11:46 Calibration ID: 67229

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/4	P4081604.D
Level 2	STD01 240-539023/5	P4081605.D
Level 3	STD02 240-539023/6	P4081606.D
Level 4	STD05 240-539023/7	P4081607.D
Level 5	STD1 240-539023/8	P4081608.D
Level 6	STD15 240-539023/9	P4081609.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0235 0.0179	0.0221	0.0211	0.0193	0.0185	Ave		0.020 4			10.7		20.0				
PCB-1232 Peak 2	0.0171 0.0140	0.0167	0.0165	0.0152	0.0146	Ave		0.015 7			8.1		20.0				
PCB-1232 Peak 3	0.0341 0.0286	0.0336	0.0319	0.0300	0.0295	Ave		0.031 3			7.2		20.0				
PCB-1232 Peak 4	0.0127 0.0115	0.0132	0.0135	0.0125	0.0123	Ave		0.012 6			5.7		20.0				
PCB-1232 Peak 5	0.0063 0.0057	0.0063	0.0062	0.0060	0.0060	Ave		0.006 1			3.9		20.0				
PCB-1262 Peak 1	0.0406 0.0336	0.0410	0.0385	0.0342	0.0342	Ave		0.037 0			9.2		20.0				
PCB-1262 Peak 2	0.0602 0.0527	0.0616	0.0598	0.0532	0.0533	Ave		0.056 8			7.3		20.0				
PCB-1262 Peak 3	0.0533 0.0447	0.0527	0.0504	0.0448	0.0450	Ave		0.048 5			8.5		20.0				
PCB-1262 Peak 4	0.1198 0.1084	0.1205	0.1175	0.1062	0.1078	Ave		0.113 4			5.8		20.0				
PCB-1262 Peak 5	0.0907 0.0779	0.0909	0.0868	0.0772	0.0773	Ave		0.083 5			8.1		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 10:18 Calibration End Date: 08/16/2022 11:46 Calibration ID: 67229

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/4	P4081604.D
Level 2	STD01 240-539023/5	P4081605.D
Level 3	STD02 240-539023/6	P4081606.D
Level 4	STD05 240-539023/7	P4081607.D
Level 5	STD1 240-539023/8	P4081608.D
Level 6	STD15 240-539023/9	P4081609.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	1142414 24336526	1989741	3828279	9272346	18186118	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	832897 19121990	1506104	3007798	7267080	14322524	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	1657069 38948988	3032381	5807936	14390045	28951908	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	616995 15651193	1190039	2462667	6011297	12080986	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	307554 7722996	564048	1126339	2886094	5889692	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	1976759 45776052	3692868	7003876	16394316	33579556	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	2925344 71701429	5553757	10866895	25503730	52306852	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	2590541 60826597	4750806	9158210	21487367	44140554	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	5826893 147572940	10865970	21355550	50940201	105730844	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	4409292 106063451	8198156	15778470	37003179	75855617	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081604.D
 Lims ID: std005 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 10:18:51 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-004
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:35 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:49:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.751	1.751	0.000	35140094	0.0500	0.0500	
2	2.021	2.020	0.001	48630854	0.0500	0.0500	
4 PCB-1232							M
1	3.411	3.411	0.000	878730	0.0500	0.0573	
1	3.986	3.986	0.000	670704	0.0500	0.0576	
1	4.653	4.653	0.000	1329704	0.0500	0.0541	
1	4.829	4.829	0.000	553434	0.0500	0.0521	
1	5.151	5.151	0.000	198473	0.0500	0.0523	M
Average of Peak Amounts =						0.0547	
2	4.348	4.348	0.000	1142414	0.0500	0.0576	
2	4.945	4.945	0.000	832897	0.0500	0.0546	
2	5.537	5.537	0.000	1657069	0.0500	0.0544	
2	5.703	5.703	0.000	616995	0.0500	0.0502	
2	5.999	5.999	0.000	307554	0.0500	0.0520	
Average of Peak Amounts =						0.0538	
RPD =							1.69

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	7.008	7.008	0.000	2114807	0.0500	0.0538	
1	7.404	7.404	0.000	3839597	0.0500	0.0651	
1	7.644	7.644	0.000	2645496	0.0500	0.0554	
1	7.947	7.947	0.000	5360629	0.0500	0.0509	
1	8.243	8.243	0.000	2393861	0.0500	0.0539	

Average of Peak Amounts = 0.0558

2	7.809	7.809	0.000	1976759	0.0500	0.0549	
2	8.237	8.237	0.000	2925344	0.0500	0.0530	
2	8.507	8.507	0.000	2590541	0.0500	0.0550	
2	8.732	8.732	0.000	5826893	0.0500	0.0528	
2	9.049	9.049	0.000	4409292	0.0500	0.0543	

Average of Peak Amounts = 0.0540

RPD = 3.29

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@.05PPM_00028

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081604.D

Injection Date: 16-Aug-2022 10:18:51

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1232 1262

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

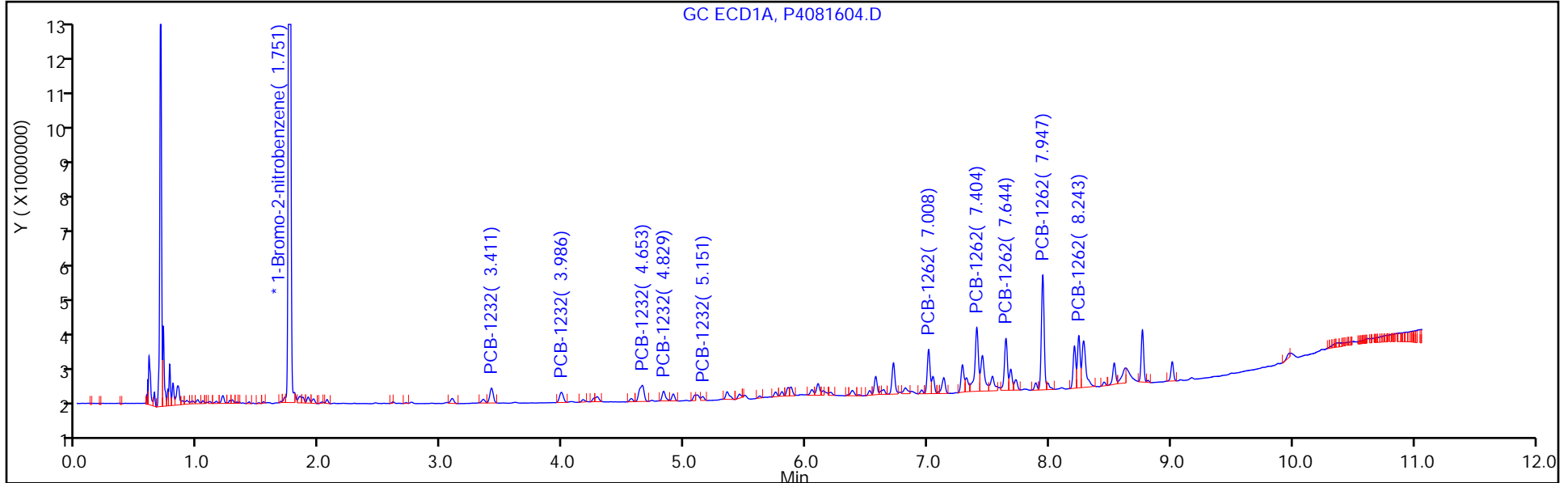
ALS Bottle#: 4

Method: PCB4 is

Limit Group: GC 8082A IS

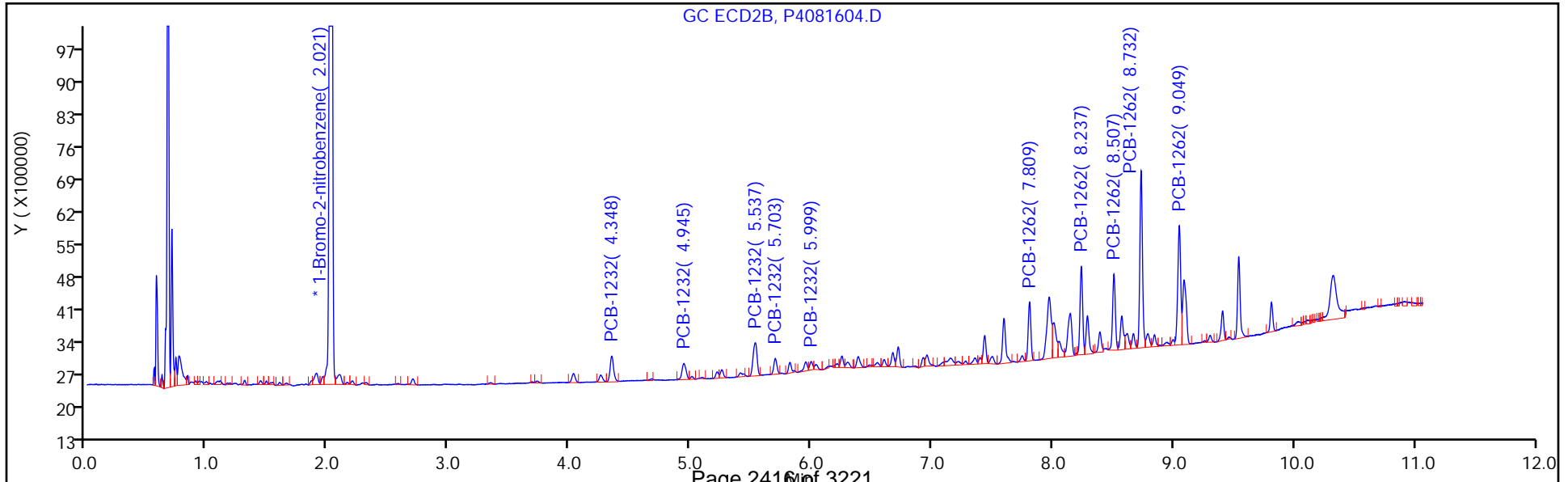
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081605.D
 Lims ID: std01 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 10:36:32 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-005
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:38 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:53:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.753	1.751	0.001	32259176	0.0500	0.0500	
2	2.022	2.020	0.001	45081251	0.0500	0.0500	
4 PCB-1232							
1	3.415	3.411	0.004	1567002	0.1000	0.1113	
1	3.989	3.986	0.003	1179539	0.1000	0.1104	
1	4.654	4.653	0.001	2449900	0.1000	0.1085	
1	4.831	4.829	0.002	1082380	0.1000	0.1111	
1	5.150	5.151	-0.001	372010	0.1000	0.1069	
Average of Peak Amounts =						0.1096	
2	4.349	4.348	0.001	1989741	0.1000	0.1082	
2	4.947	4.945	0.002	1506104	0.1000	0.1064	
2	5.540	5.537	0.003	3032381	0.1000	0.1075	
2	5.706	5.703	0.003	1190039	0.1000	0.1045	
2	6.002	5.999	0.003	564048	0.1000	0.1029	
Average of Peak Amounts =						0.1059	
RPD =						3.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262							M
1	7.007	7.008	-0.001	3876124	0.1000	0.1073	
1	7.402	7.404	-0.002	6098487	0.1000	0.1127	
1	7.640	7.644	-0.004	4732646	0.1000	0.1079	
1	7.943	7.947	-0.004	10060832	0.1000	0.1040	
1	8.240	8.243	-0.003	4431327	0.1000	0.1087	
Average of Peak Amounts =						0.1081	
2	7.804	7.809	-0.005	3692868	0.1000	0.1106	M
2	8.234	8.237	-0.003	5553757	0.1000	0.1085	M
2	8.506	8.507	-0.001	4750806	0.1000	0.1087	M
2	8.732	8.732	0.000	10865970	0.1000	0.1063	
2	9.050	9.049	0.001	8198156	0.1000	0.1089	
Average of Peak Amounts =						0.1086	
							RPD = 0.46

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@0.1PPM_00025

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081605.D

Injection Date: 16-Aug-2022 10:36:32

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1232 1262

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

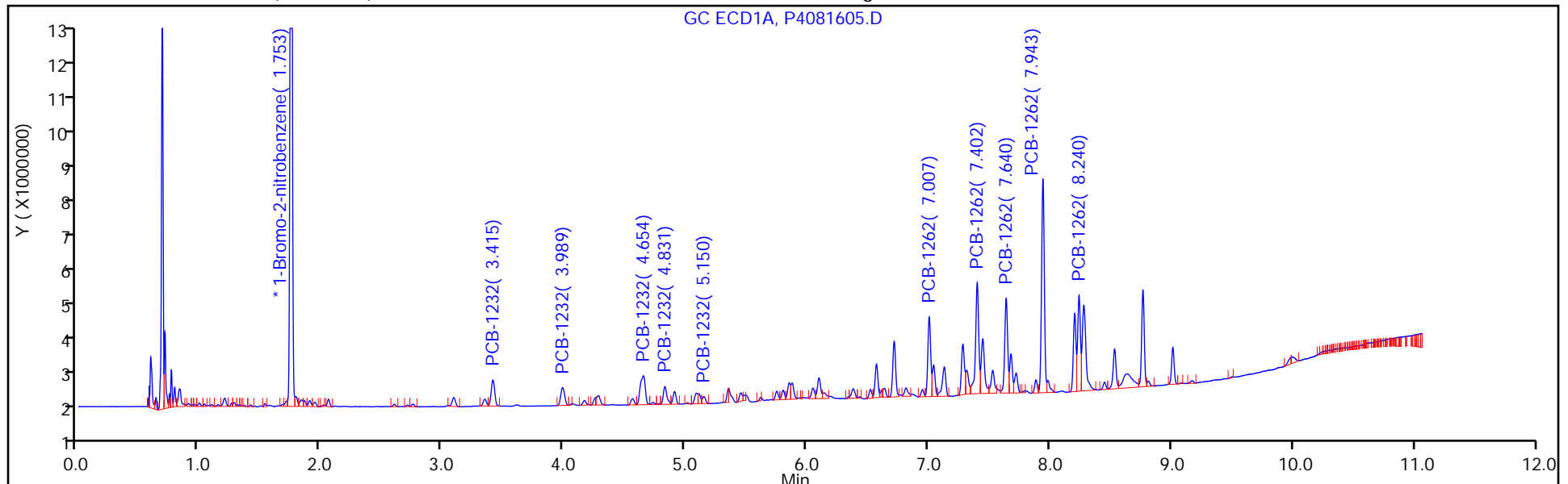
ALS Bottle#: 5

Method: PCB4 is

Limit Group: GC 8082A IS

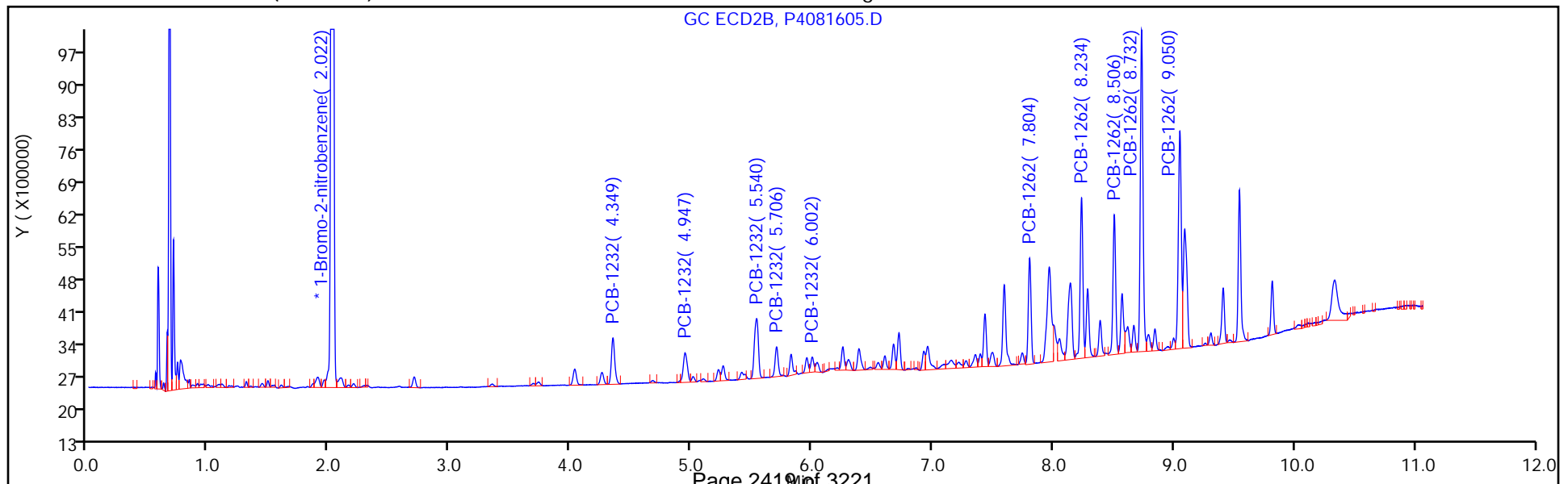
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081605.D

Injection Date: 16-Aug-2022 10:36:32

Instrument ID: A2HP4

Lims ID: std01 1232 1262

Client ID:

Operator ID:

ALS Bottle#: 5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

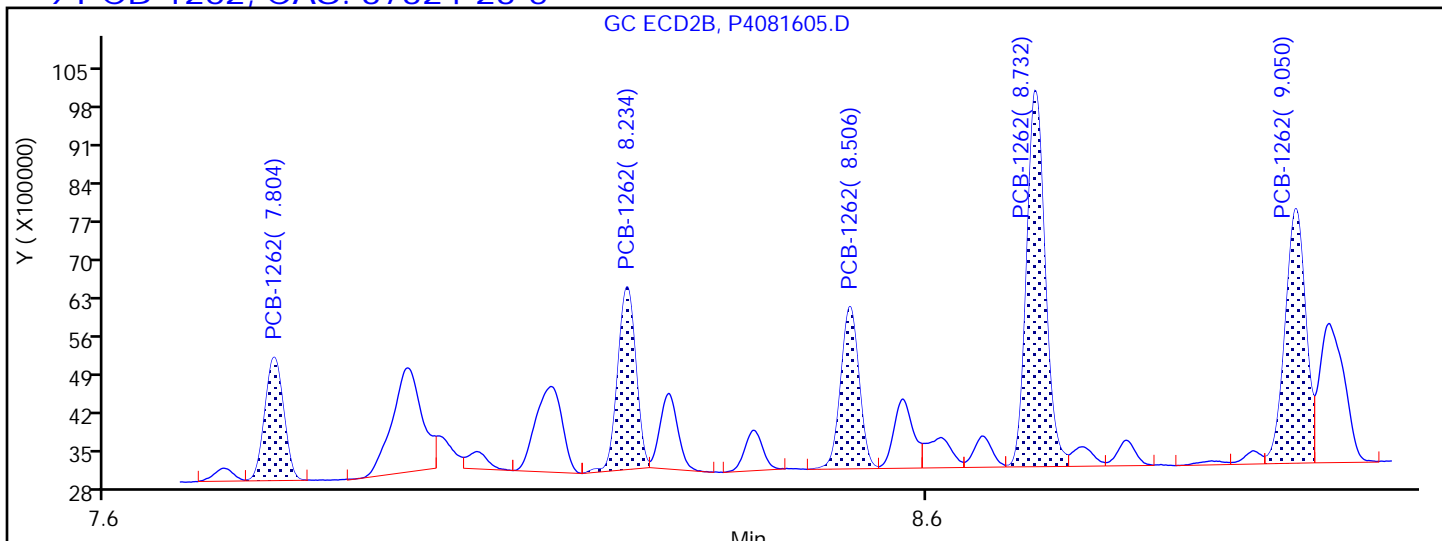
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

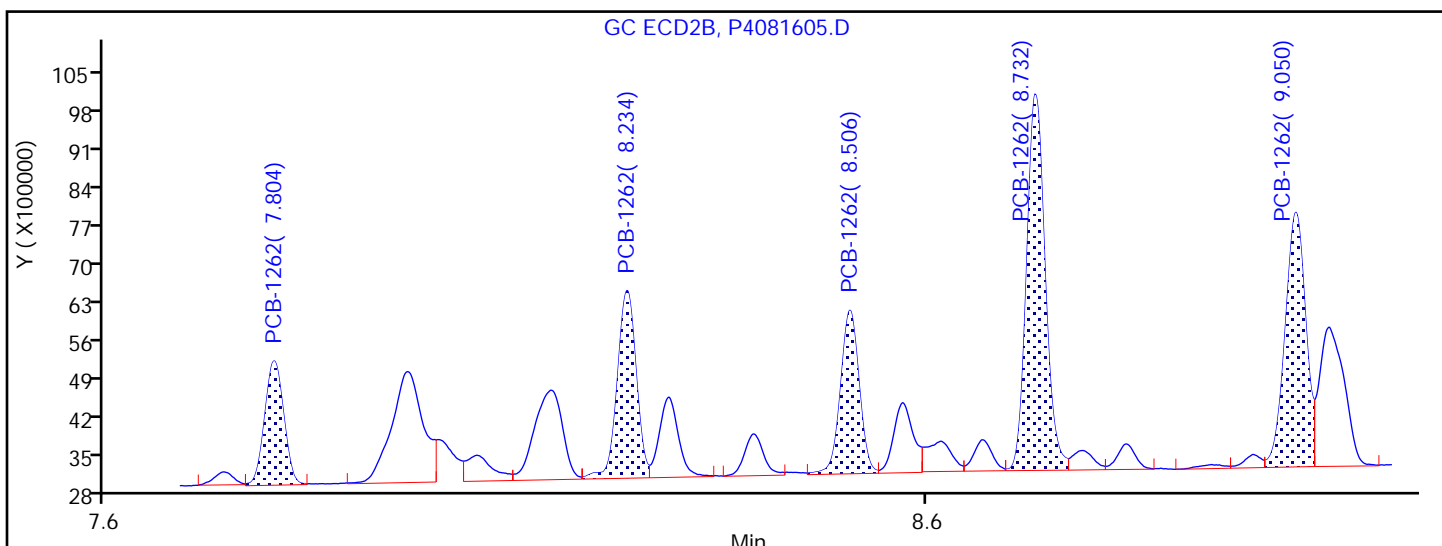
Detector: GC ecd2b

9 PCB-1262, CAS: 37324-23-5



Processing Integration Results

7.804	Response = 3621946
8.234	Response = 5176609
8.506	Response = 4629870
8.732	Response = 10865970
9.050	Response = 8198156



Manual Integration Results

7.804	Response = 3692868	M
8.234	Response = 5553757	M
8.506	Response = 4750806	M
8.732	Response = 10865970	
9.050	Response = 8198156	

Reviewer: WRR8, 17-Aug-2022 07:53:25

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2420 of 3221

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081606.D
 Lims ID: std02 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 10:54:07 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-006
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:41 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:53:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.751	0.003	32480870	0.0500	0.0500	
2	2.025	2.020	0.005	45450454	0.0500	0.0500	
4 PCB-1232							
1	3.418	3.411	0.007	2937700	0.2000	0.2072	
1	3.991	3.986	0.005	2219081	0.2000	0.2063	
1	4.659	4.653	0.006	4688935	0.2000	0.2062	
1	4.833	4.829	0.004	2059574	0.2000	0.2099	
1	5.154	5.151	0.003	752976	0.2000	0.2148	
Average of Peak Amounts =						0.2089	
2	4.354	4.348	0.006	3828279	0.2000	0.2065	
2	4.950	4.945	0.005	3007798	0.2000	0.2108	
2	5.542	5.537	0.005	5807936	0.2000	0.2041	
2	5.707	5.703	0.004	2462667	0.2000	0.2145	
2	6.003	5.999	0.004	1126339	0.2000	0.2038	
Average of Peak Amounts =						0.2080	
RPD = 0.44							

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	7.011	7.008	0.003	7482350	0.2000	0.2058	
1	7.407	7.404	0.003	10840033	0.2000	0.1989	
1	7.647	7.644	0.003	8986684	0.2000	0.2034	
1	7.950	7.947	0.003	19882215	0.2000	0.2040	
1	8.246	8.243	0.003	8456658	0.2000	0.2061	

Average of Peak Amounts = 0.2036

2	7.811	7.809	0.002	7003876	0.2000	0.2081	
2	8.240	8.237	0.003	10866895	0.2000	0.2105	
2	8.510	8.507	0.003	9158210	0.2000	0.2079	
2	8.736	8.732	0.004	21355550	0.2000	0.2072	
2	9.053	9.049	0.004	15778470	0.2000	0.2080	

Average of Peak Amounts = 0.2083

RPD = 2.28

QC Flag Legend

Processing Flags

Reagents:

SG3262@.2PPM_00026

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081606.D

Injection Date: 16-Aug-2022 10:54:07

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1232 1262

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

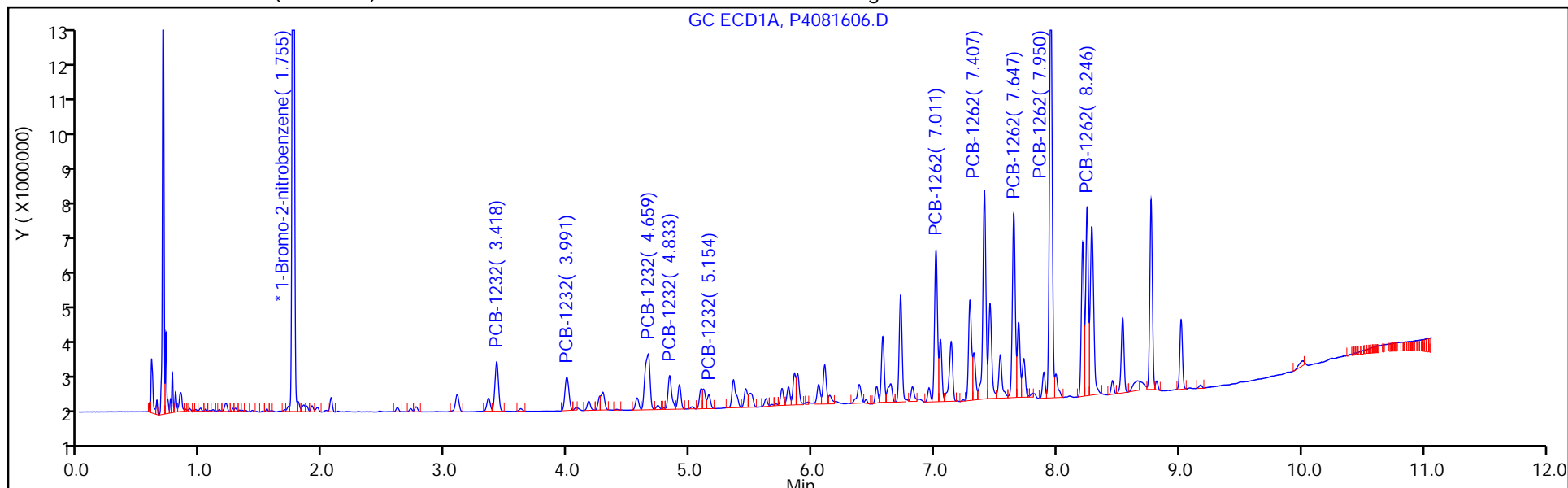
ALS Bottle#: 6

Method: PCB4 is

Limit Group: GC 8082A IS

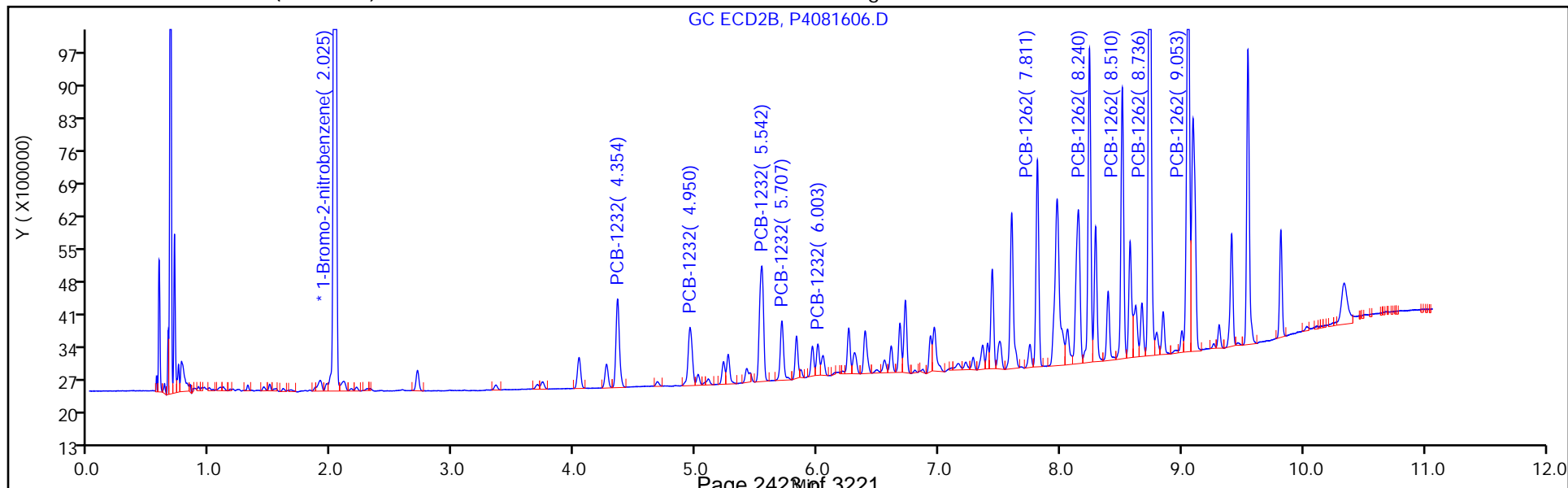
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081607.D
 Lims ID: std05 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 11:11:38 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-007
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene								
1	1.757	1.751	0.006	34239526	0.0500	0.0500		
2	2.026	2.020	0.006	47955148	0.0500	0.0500		
4 PCB-1232								
1	3.421	3.411	0.010	7023666	0.5000	0.4699		
1	3.996	3.986	0.010	5383027	0.5000	0.4747		
1	4.661	4.653	0.008	11389460	0.5000	0.4752		
1	4.836	4.829	0.007	4987372	0.5000	0.4822		
1	5.157	5.151	0.006	1805682	0.5000	0.4887		
		Average of Peak Amounts =					0.4781	
2	4.356	4.348	0.008	9272346	0.5000	0.4740		
2	4.952	4.945	0.007	7267080	0.5000	0.4827		
2	5.544	5.537	0.007	14390045	0.5000	0.4794		
2	5.710	5.703	0.007	6011297	0.5000	0.4963		
2	6.007	5.999	0.008	2886094	0.5000	0.4951		
		Average of Peak Amounts =					0.4855	
					RPD = 1.53			

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	7.012	7.008	0.004	17944814	0.5000	0.4681	
1	7.407	7.404	0.003	24696556	0.5000	0.4298	
1	7.647	7.644	0.003	21278961	0.5000	0.4570	
1	7.949	7.947	0.002	48879033	0.5000	0.4759	
1	8.244	8.243	0.001	20008746	0.5000	0.4625	

Average of Peak Amounts = 0.4587

2	7.810	7.809	0.001	16394316	0.5000	0.4616	
2	8.239	8.237	0.002	25503730	0.5000	0.4683	
2	8.509	8.507	0.002	21487367	0.5000	0.4622	
2	8.733	8.732	0.001	50940201	0.5000	0.4685	
2	9.051	9.049	0.002	37003179	0.5000	0.4622	

Average of Peak Amounts = 0.4646

RPD = 1.28

QC Flag Legend

Processing Flags

Reagents:

SG3262@0.5PPM_00053

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081607.D

Injection Date: 16-Aug-2022 11:11:38

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1232 1262

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

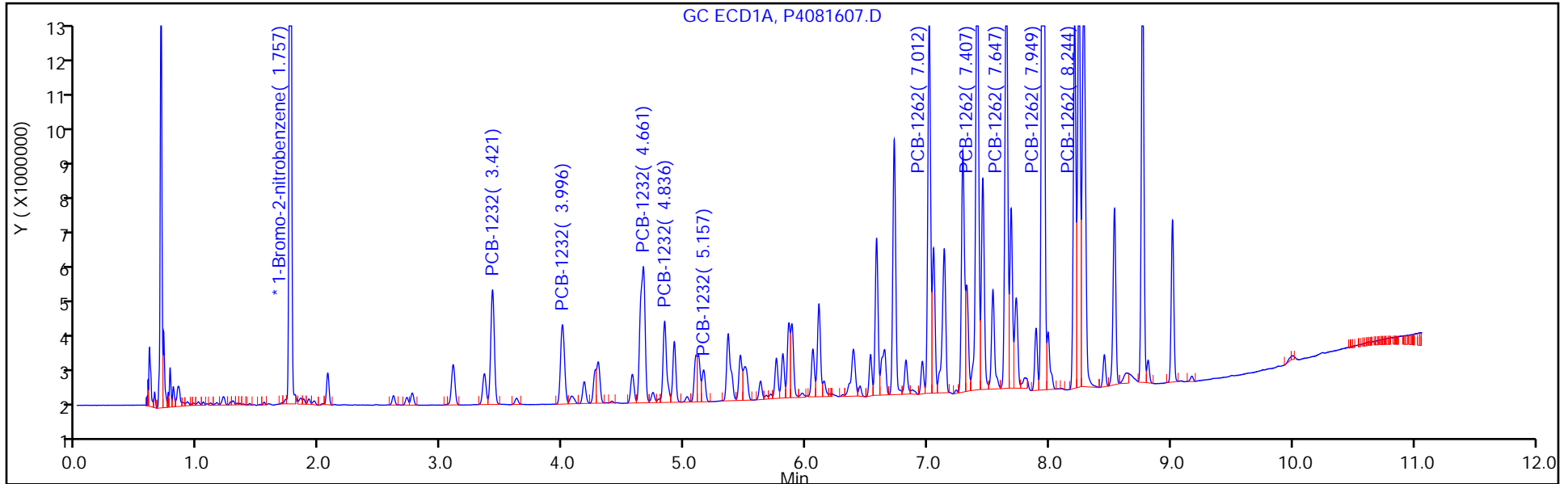
ALS Bottle#: 7

Method: PCB4 is

Limit Group: GC 8082A IS

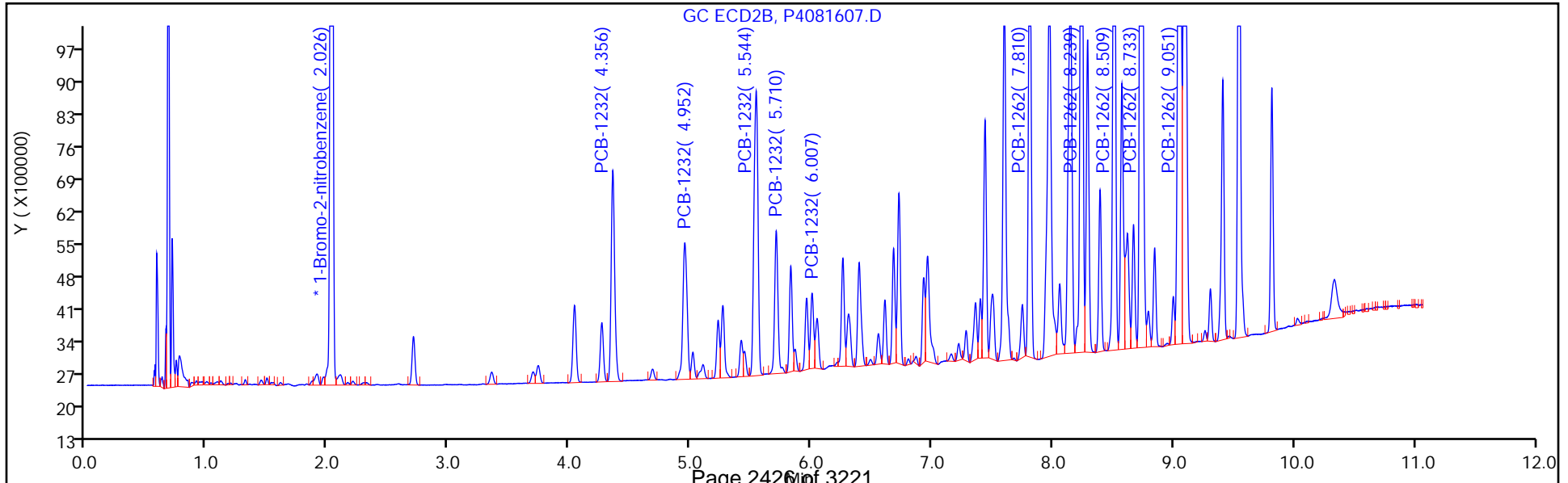
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081608.D
 Lims ID: std1 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 11:29:09 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-008
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:48 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene								
1	1.754	1.751	0.002	35358327	0.0500	0.0500		
2	2.024	2.020	0.004	49041523	0.0500	0.0500		
4 PCB-1232								
1	3.415	3.411	0.004	13864692	1.00	0.8982		
1	3.988	3.986	0.002	10540916	1.00	0.9000		
1	4.654	4.653	0.001	23128677	1.00	0.9345		
1	4.830	4.829	0.001	9907960	1.00	0.9276		
1	5.151	5.151	0.000	3541319	1.00	0.9280		
		Average of Peak Amounts =					0.9177	
2	4.350	4.348	0.002	18186118	1.00	0.9091		
2	4.947	4.945	0.002	14322524	1.00	0.9303		
2	5.539	5.537	0.002	28951908	1.00	0.9431		
2	5.705	5.703	0.002	12080986	1.00	0.9752		
2	6.002	5.999	0.003	5889692	1.00	0.9879		
		Average of Peak Amounts =					0.9491	
					RPD = 3.37			

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262

1	7.010	7.008	0.002	37510531	1.00	0.9476	
1	7.406	7.404	0.002	51089740	1.00	0.8611	
1	7.645	7.644	0.001	45269942	1.00	0.9414	
1	7.948	7.947	0.001	103783942	1.00	0.9784	
1	8.245	8.243	0.002	41897958	1.00	0.9378	

Average of Peak Amounts = 0.9332

2	7.810	7.809	0.001	33579556	1.00	0.9246	
2	8.239	8.237	0.002	52306852	1.00	0.9392	
2	8.510	8.507	0.003	44140554	1.00	0.9285	
2	8.734	8.732	0.002	105730844	1.00	0.9509	
2	9.049	9.049	0.000	75855617	1.00	0.9266	

Average of Peak Amounts = 0.9339

RPD = 0.07

QC Flag Legend

Processing Flags

Reagents:

SG3262@1.0PPM_00038

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081608.D

Injection Date: 16-Aug-2022 11:29:09

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1232 1262

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

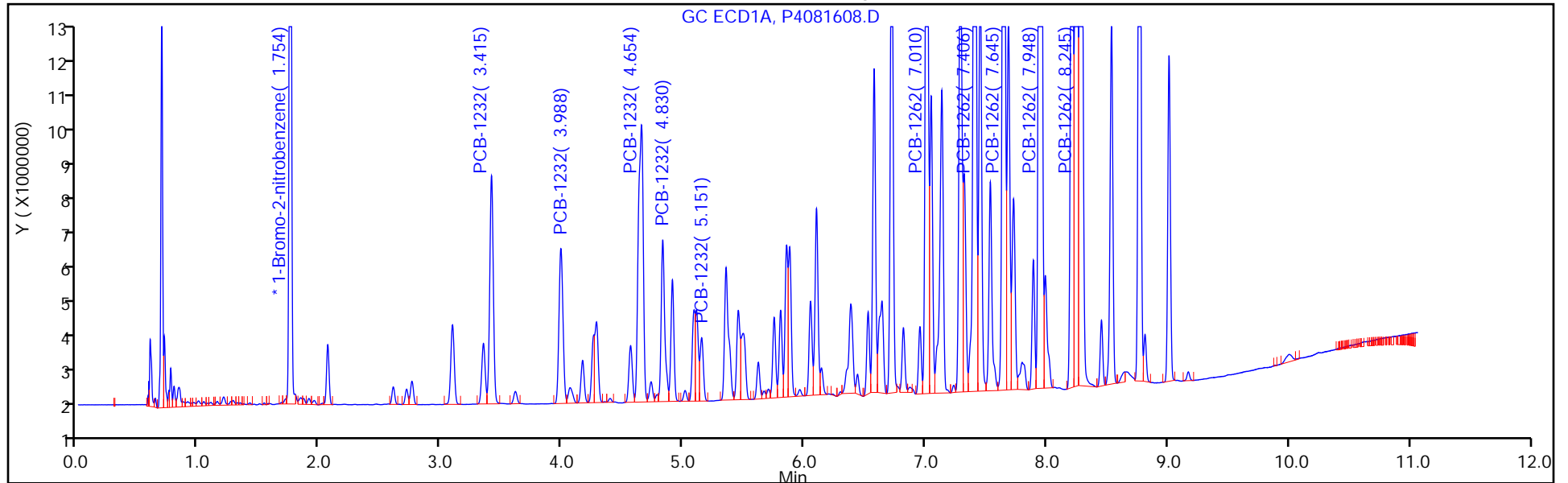
ALS Bottle#: 8

Method: PCB4 is

Limit Group: GC 8082A IS

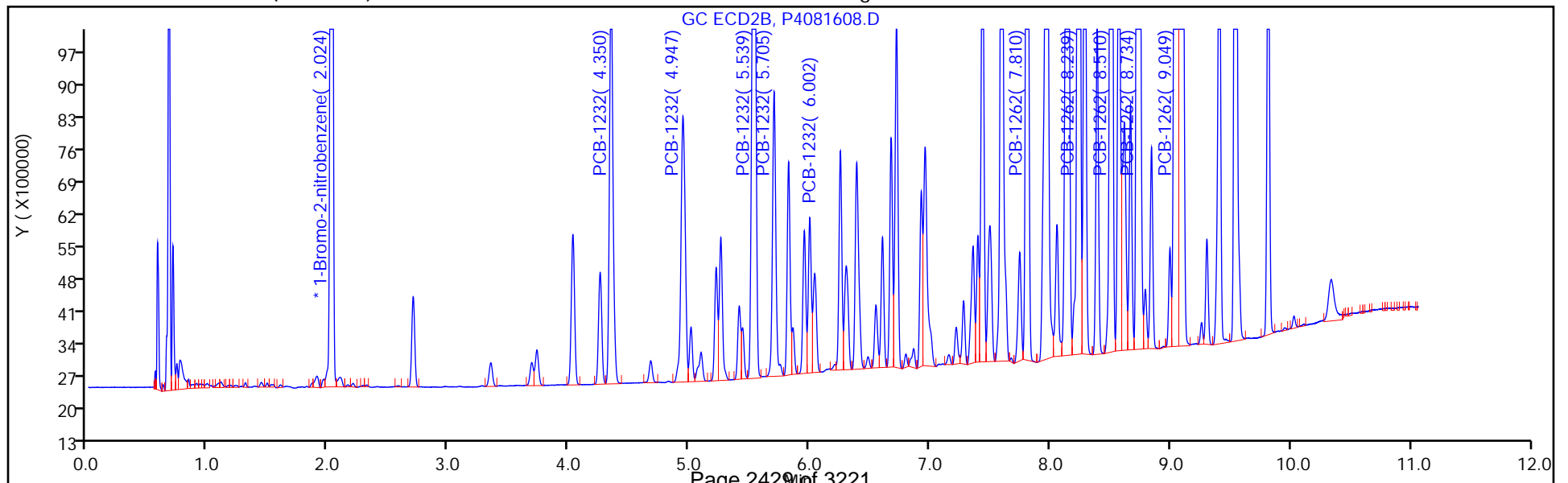
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081609.D
 Lims ID: std15 1232 1262
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 11:46:52 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-009
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:51 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:54:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.758	1.751	0.006	32334389	0.0500	0.0500	
2	2.028	2.020	0.007	45385278	0.0500	0.0500	
4 PCB-1232							
1	3.423	3.411	0.012	18380787	1.50	1.30	
1	3.996	3.986	0.010	13863065	1.50	1.29	
1	4.660	4.653	0.007	31166654	1.50	1.38	
1	4.833	4.829	0.004	13257836	1.50	1.36	
1	5.153	5.151	0.002	4739431	1.50	1.36	
Average of Peak Amounts =						1.34	
2	4.355	4.348	0.007	24336526	1.50	1.31	
2	4.951	4.945	0.006	19121990	1.50	1.34	
2	5.542	5.537	0.005	38948988	1.50	1.37	
2	5.708	5.703	0.005	15651193	1.50	1.37	
2	6.006	5.999	0.007	7722996	1.50	1.40	
Average of Peak Amounts =						1.36	
RPD =						1.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262							M
1	7.013	7.008	0.005	50973734	1.50	1.41	M
1	7.409	7.404	0.005	69673568	1.50	1.28	M
1	7.649	7.644	0.005	62121738	1.50	1.41	M
1	7.952	7.947	0.005	144501627	1.50	1.49	M
1	8.248	8.243	0.005	57704314	1.50	1.41	M
Average of Peak Amounts =						1.40	
2	7.813	7.809	0.004	45776052	1.50	1.36	
2	8.242	8.237	0.005	71701429	1.50	1.39	
2	8.513	8.507	0.006	60826597	1.50	1.38	
2	8.738	8.732	0.006	147572940	1.50	1.43	
2	9.054	9.049	0.005	106063451	1.50	1.40	
Average of Peak Amounts =						1.39	
RPD = 0.53							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG3262@1.5PPM_00014

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:10:53

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081609.D

Injection Date: 16-Aug-2022 11:46:52

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1232 1262

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

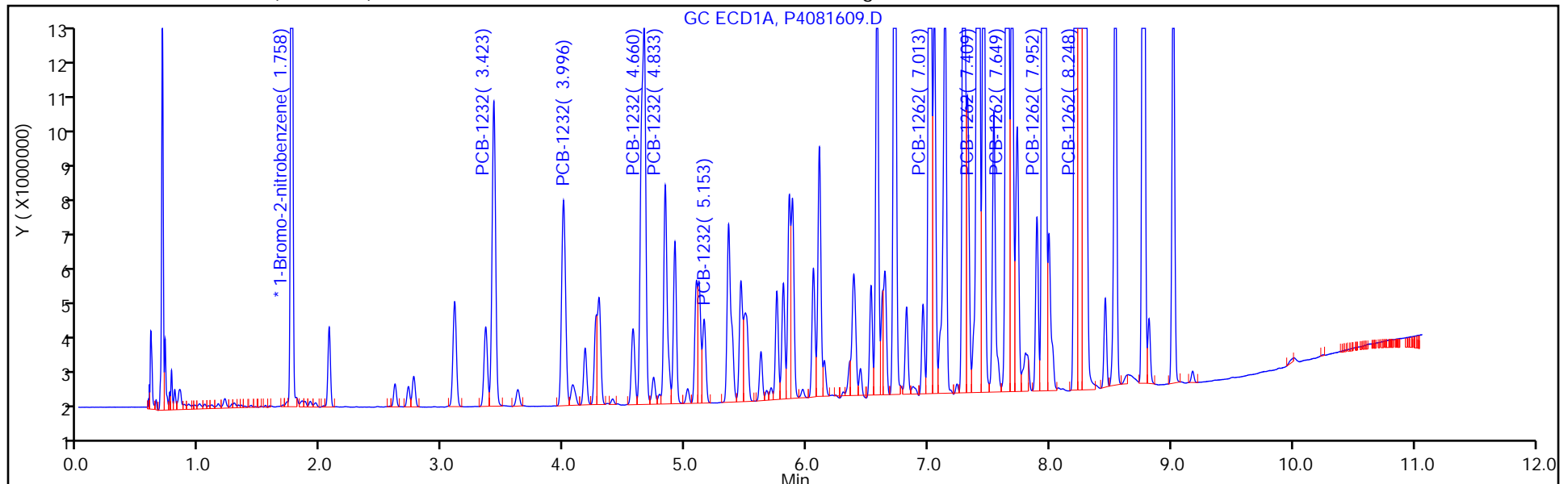
ALS Bottle#: 9

Method: PCB4 is

Limit Group: GC 8082A IS

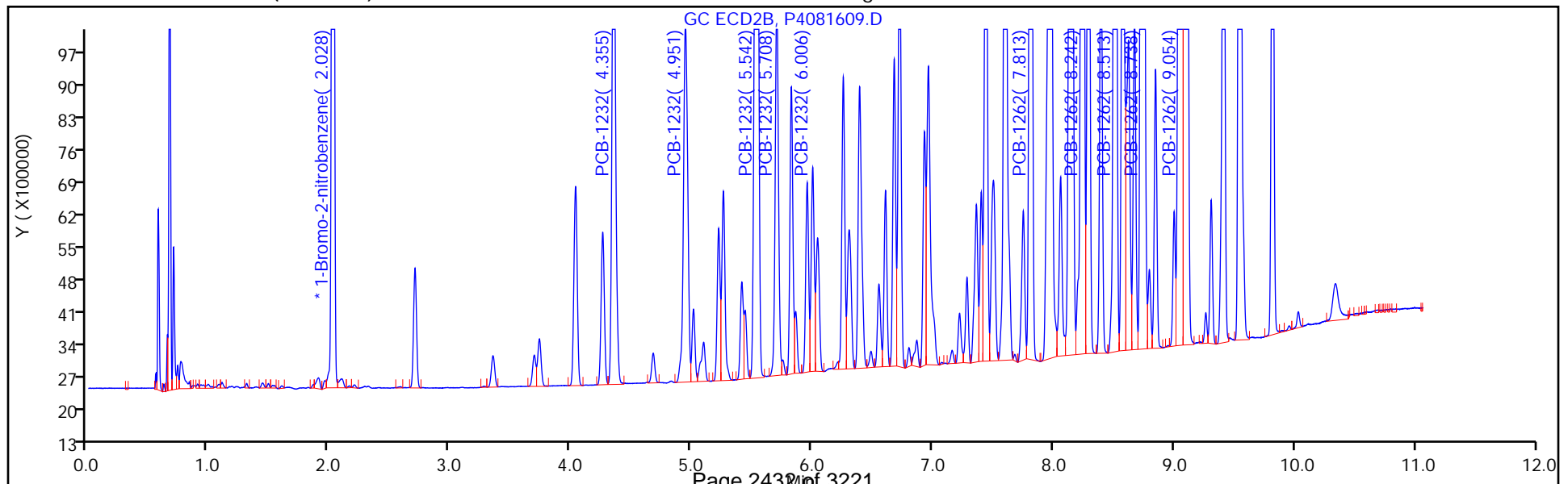
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

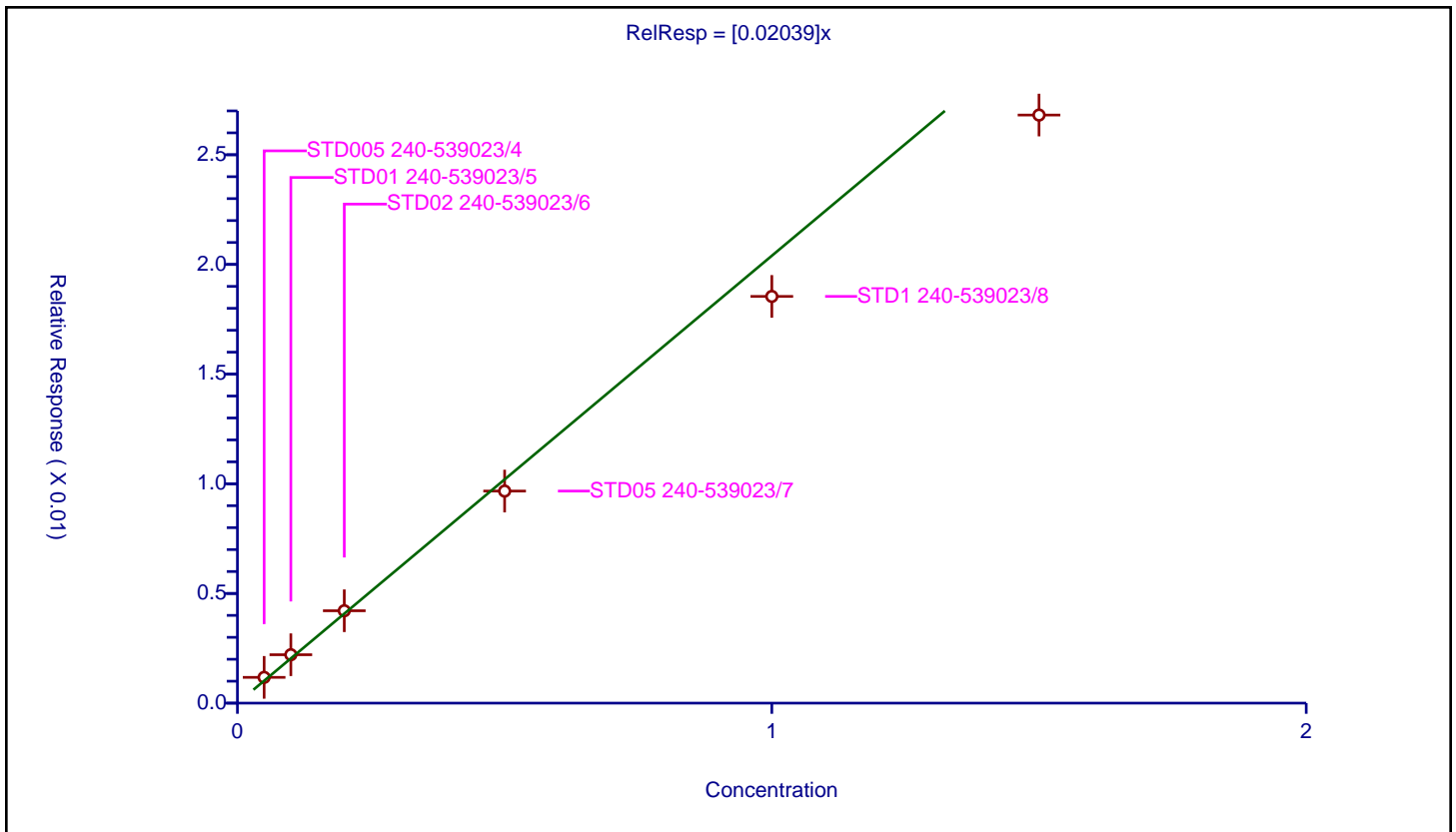
/ PCB-1232 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02039

Error Coefficients	
Standard Error:	14300000
Relative Standard Error:	10.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.001175	0.05	48630854.0	0.023492	Y
2	STD01 240-539023/5	0.1	0.002207	0.05	45081251.0	0.022068	Y
3	STD02 240-539023/6	0.2	0.004211	0.05	45450454.0	0.021057	Y
4	STD05 240-539023/7	0.5	0.009668	0.05	47955148.0	0.019335	Y
5	STD1 240-539023/8	1.0	0.018542	0.05	49041523.0	0.018542	Y
6	STD15 240-539023/9	1.5	0.026811	0.05	45385278.0	0.017874	Y



Calibration

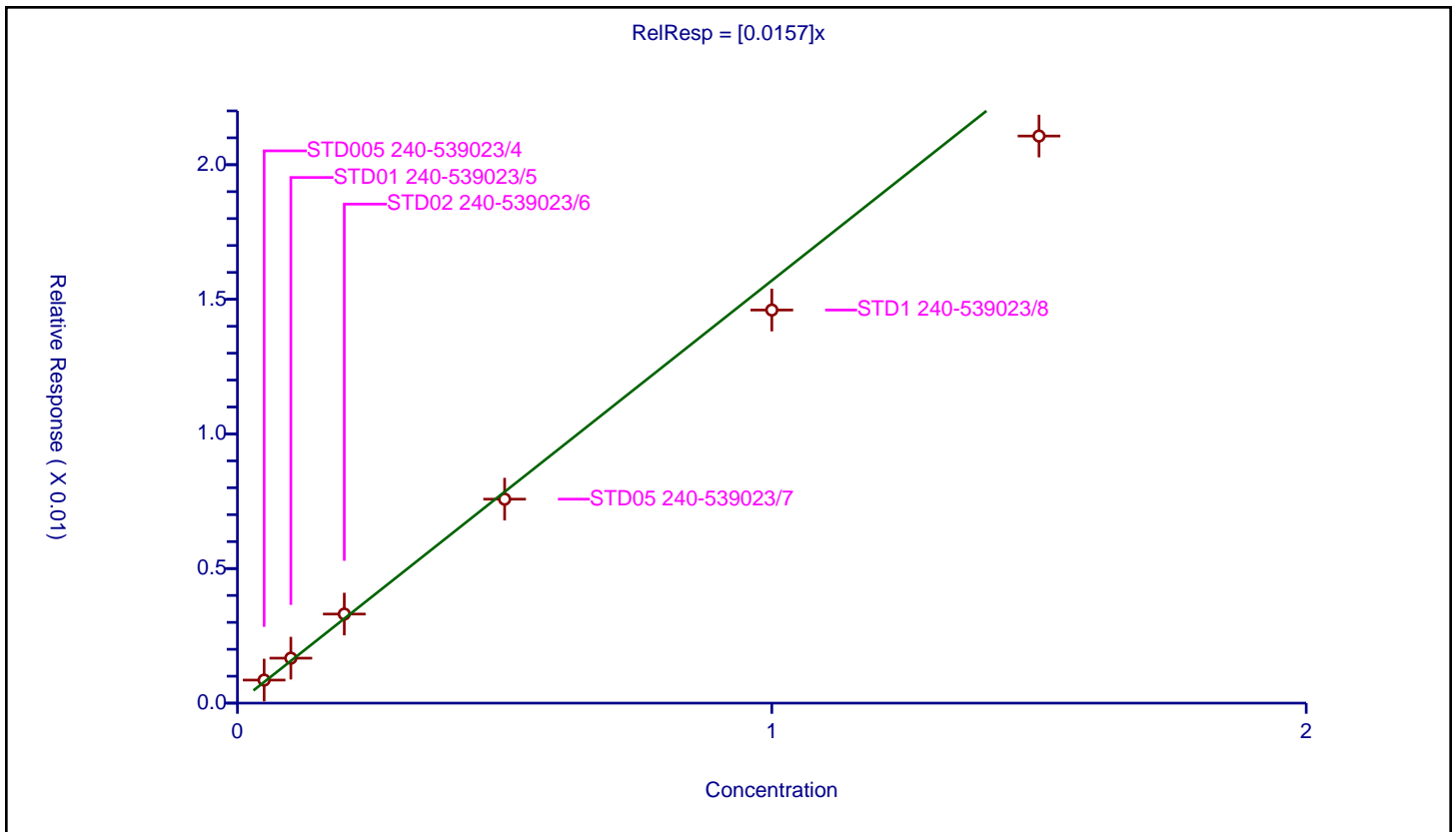
/ PCB-1232 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0157

Error Coefficients	
Standard Error:	11300000
Relative Standard Error:	8.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000856	0.05	48630854.0	0.017127	Y
2	STD01 240-539023/5	0.1	0.00167	0.05	45081251.0	0.016704	Y
3	STD02 240-539023/6	0.2	0.003309	0.05	45450454.0	0.016544	Y
4	STD05 240-539023/7	0.5	0.007577	0.05	47955148.0	0.015154	Y
5	STD1 240-539023/8	1.0	0.014602	0.05	49041523.0	0.014602	Y
6	STD15 240-539023/9	1.5	0.021066	0.05	45385278.0	0.014044	Y



Calibration

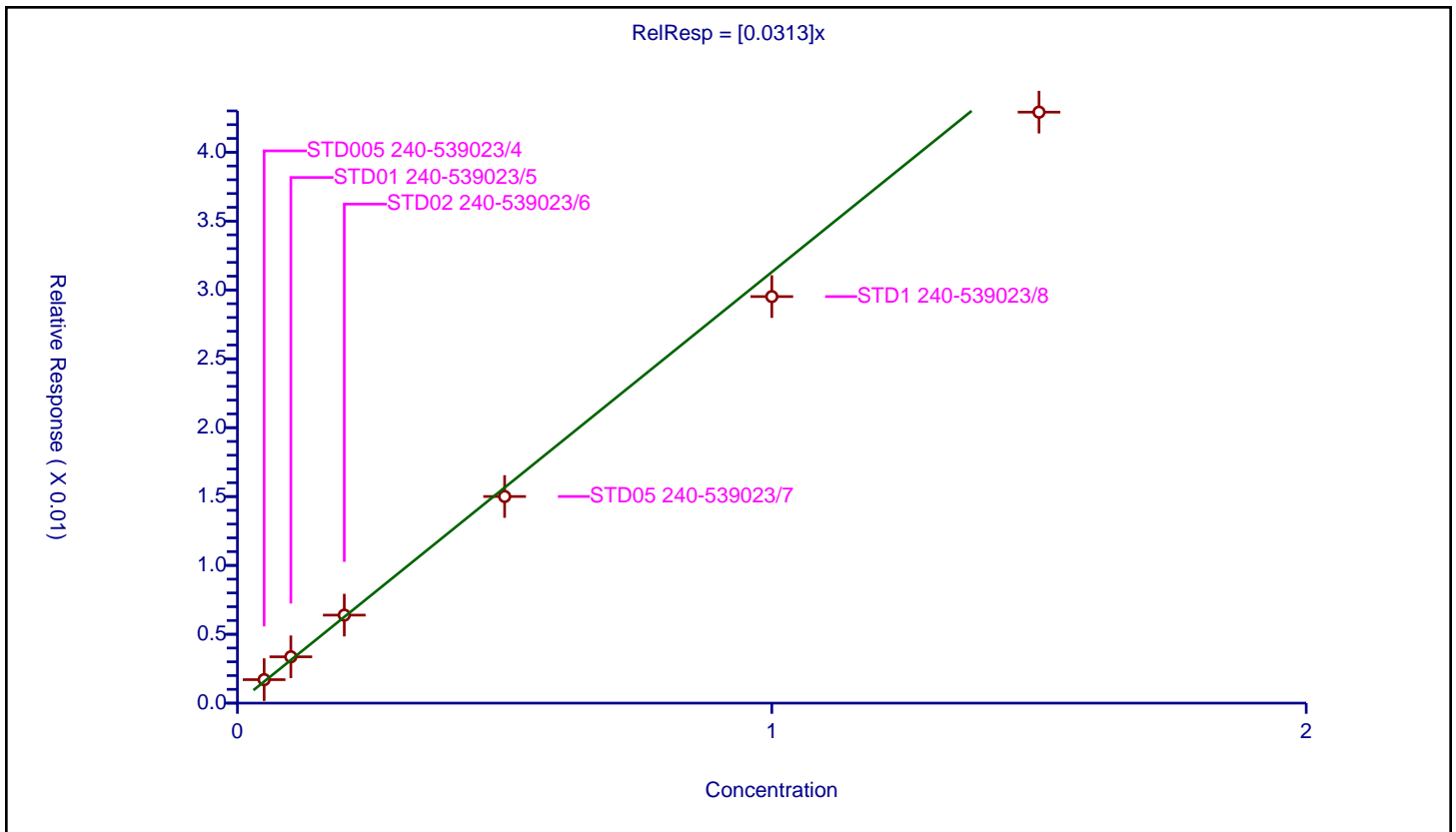
/ PCB-1232 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0313

Error Coefficients	
Standard Error:	22800000
Relative Standard Error:	7.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.001704	0.05	48630854.0	0.034074	Y
2	STD01 240-539023/5	0.1	0.003363	0.05	45081251.0	0.033632	Y
3	STD02 240-539023/6	0.2	0.006389	0.05	45450454.0	0.031947	Y
4	STD05 240-539023/7	0.5	0.015004	0.05	47955148.0	0.030007	Y
5	STD1 240-539023/8	1.0	0.029518	0.05	49041523.0	0.029518	Y
6	STD15 240-539023/9	1.5	0.042909	0.05	45385278.0	0.028606	Y



Calibration

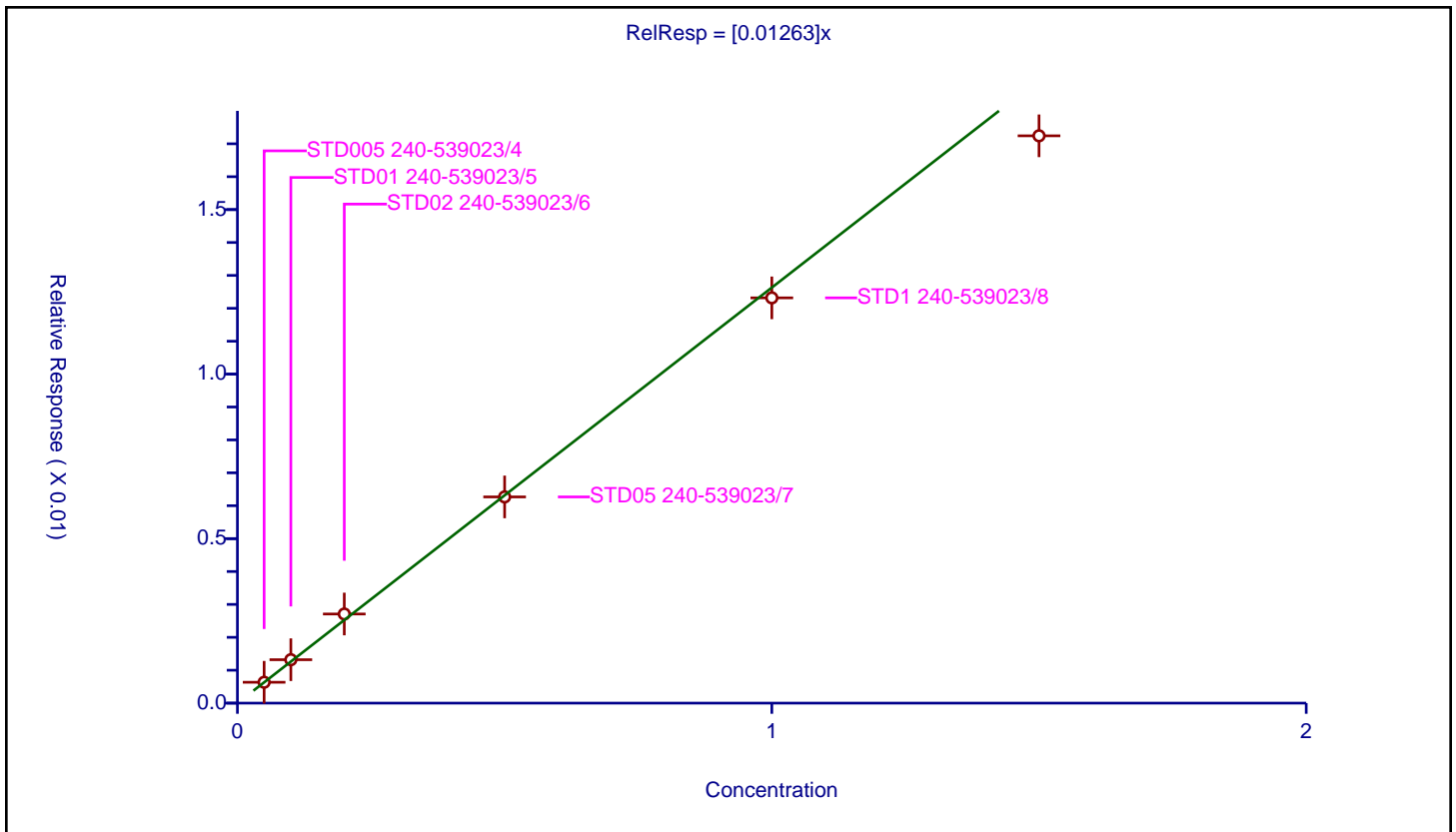
/ PCB-1232 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01263

Error Coefficients	
Standard Error:	9330000
Relative Standard Error:	5.7
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000634	0.05	48630854.0	0.012687	Y
2	STD01 240-539023/5	0.1	0.00132	0.05	45081251.0	0.013199	Y
3	STD02 240-539023/6	0.2	0.002709	0.05	45450454.0	0.013546	Y
4	STD05 240-539023/7	0.5	0.006268	0.05	47955148.0	0.012535	Y
5	STD1 240-539023/8	1.0	0.012317	0.05	49041523.0	0.012317	Y
6	STD15 240-539023/9	1.5	0.017243	0.05	45385278.0	0.011495	Y



Calibration

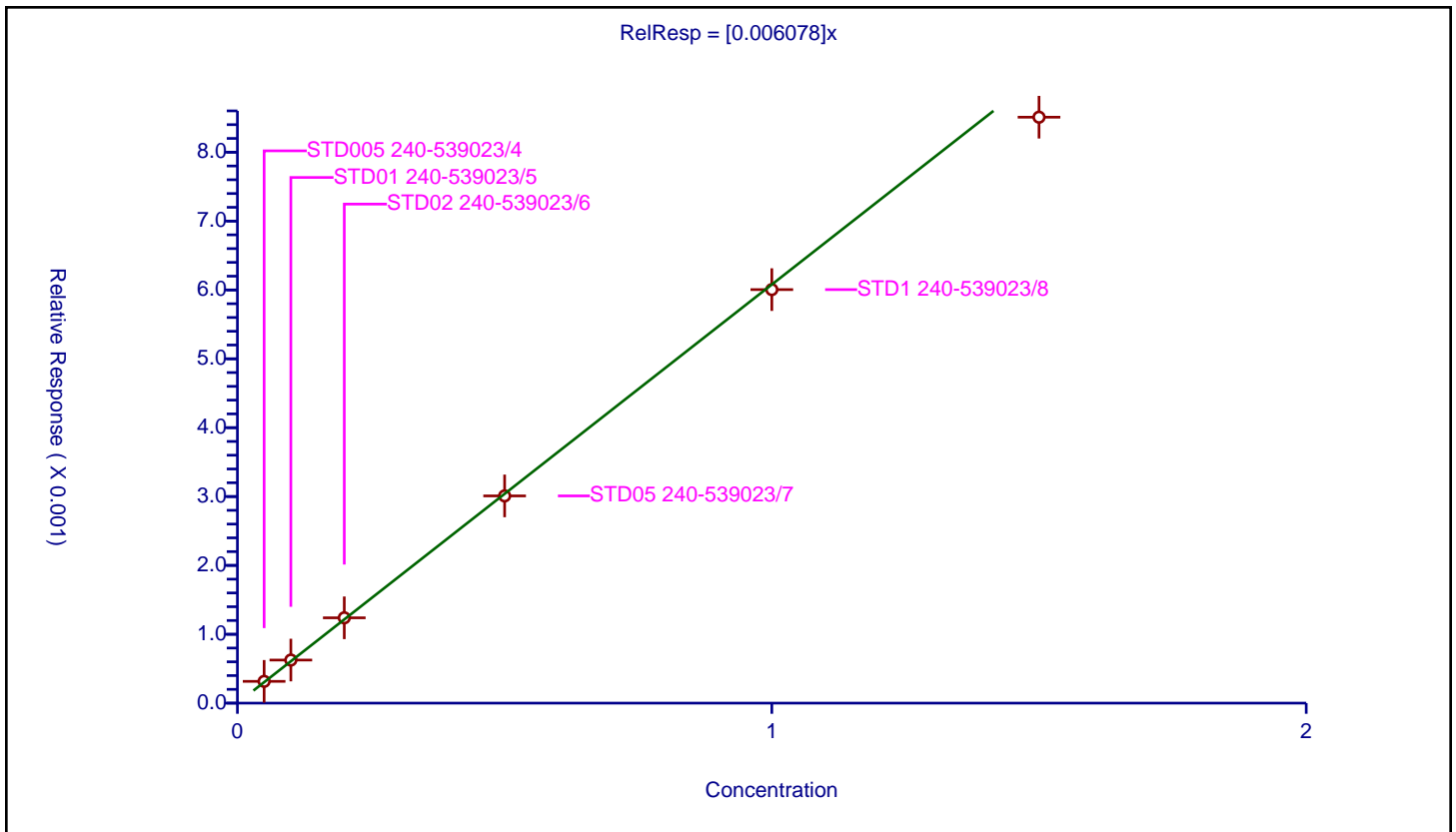
/ PCB-1232 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.006078

Error Coefficients	
Standard Error:	4570000
Relative Standard Error:	3.9
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.000316	0.05	48630854.0	0.006324	Y
2	STD01 240-539023/5	0.1	0.000626	0.05	45081251.0	0.006256	Y
3	STD02 240-539023/6	0.2	0.001239	0.05	45450454.0	0.006195	Y
4	STD05 240-539023/7	0.5	0.003009	0.05	47955148.0	0.006018	Y
5	STD1 240-539023/8	1.0	0.006005	0.05	49041523.0	0.006005	Y
6	STD15 240-539023/9	1.5	0.008508	0.05	45385278.0	0.005672	Y



Calibration

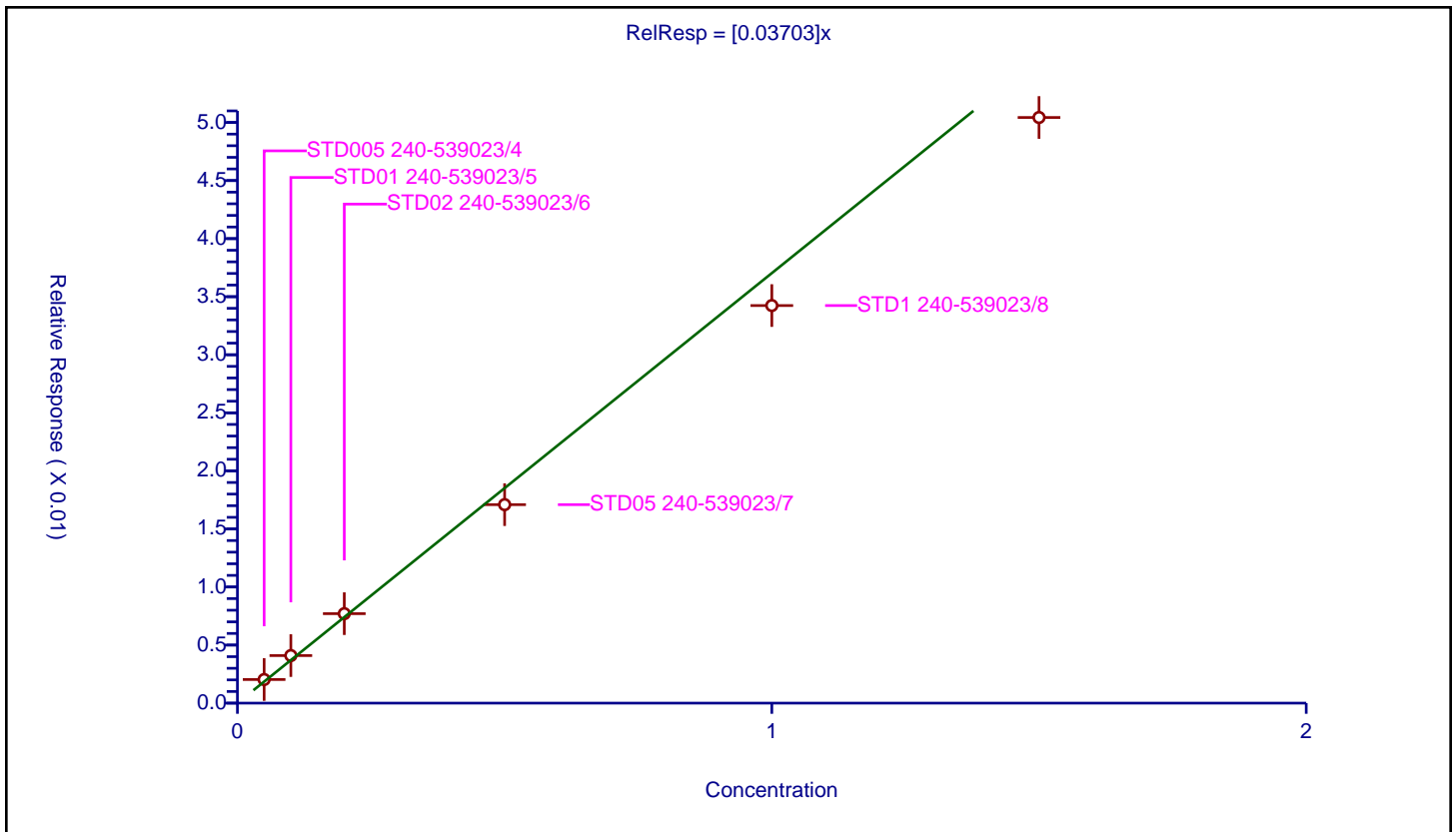
/ PCB-1262 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03703

Error Coefficients	
Standard Error:	26700000
Relative Standard Error:	9.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.002032	0.05	48630854.0	0.040648	Y
2	STD01 240-539023/5	0.1	0.004096	0.05	45081251.0	0.040958	Y
3	STD02 240-539023/6	0.2	0.007705	0.05	45450454.0	0.038525	Y
4	STD05 240-539023/7	0.5	0.017093	0.05	47955148.0	0.034187	Y
5	STD1 240-539023/8	1.0	0.034236	0.05	49041523.0	0.034236	Y
6	STD15 240-539023/9	1.5	0.050431	0.05	45385278.0	0.03362	Y



Calibration

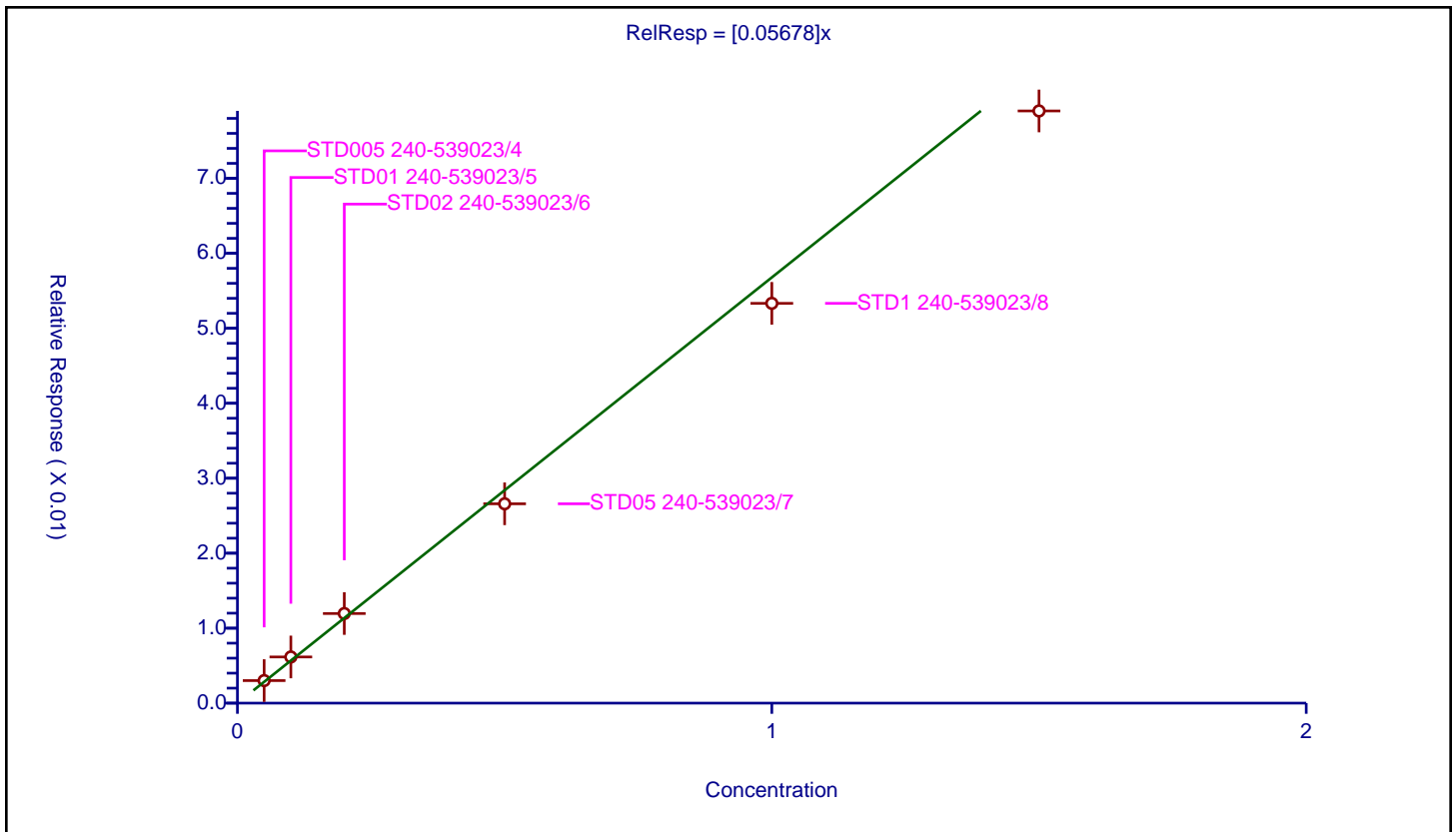
/ PCB-1262 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05678

Error Coefficients	
Standard Error:	41700000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.003008	0.05	48630854.0	0.060154	Y
2	STD01 240-539023/5	0.1	0.00616	0.05	45081251.0	0.061597	Y
3	STD02 240-539023/6	0.2	0.011955	0.05	45450454.0	0.059773	Y
4	STD05 240-539023/7	0.5	0.026591	0.05	47955148.0	0.053182	Y
5	STD1 240-539023/8	1.0	0.053329	0.05	49041523.0	0.053329	Y
6	STD15 240-539023/9	1.5	0.078992	0.05	45385278.0	0.052661	Y



Calibration

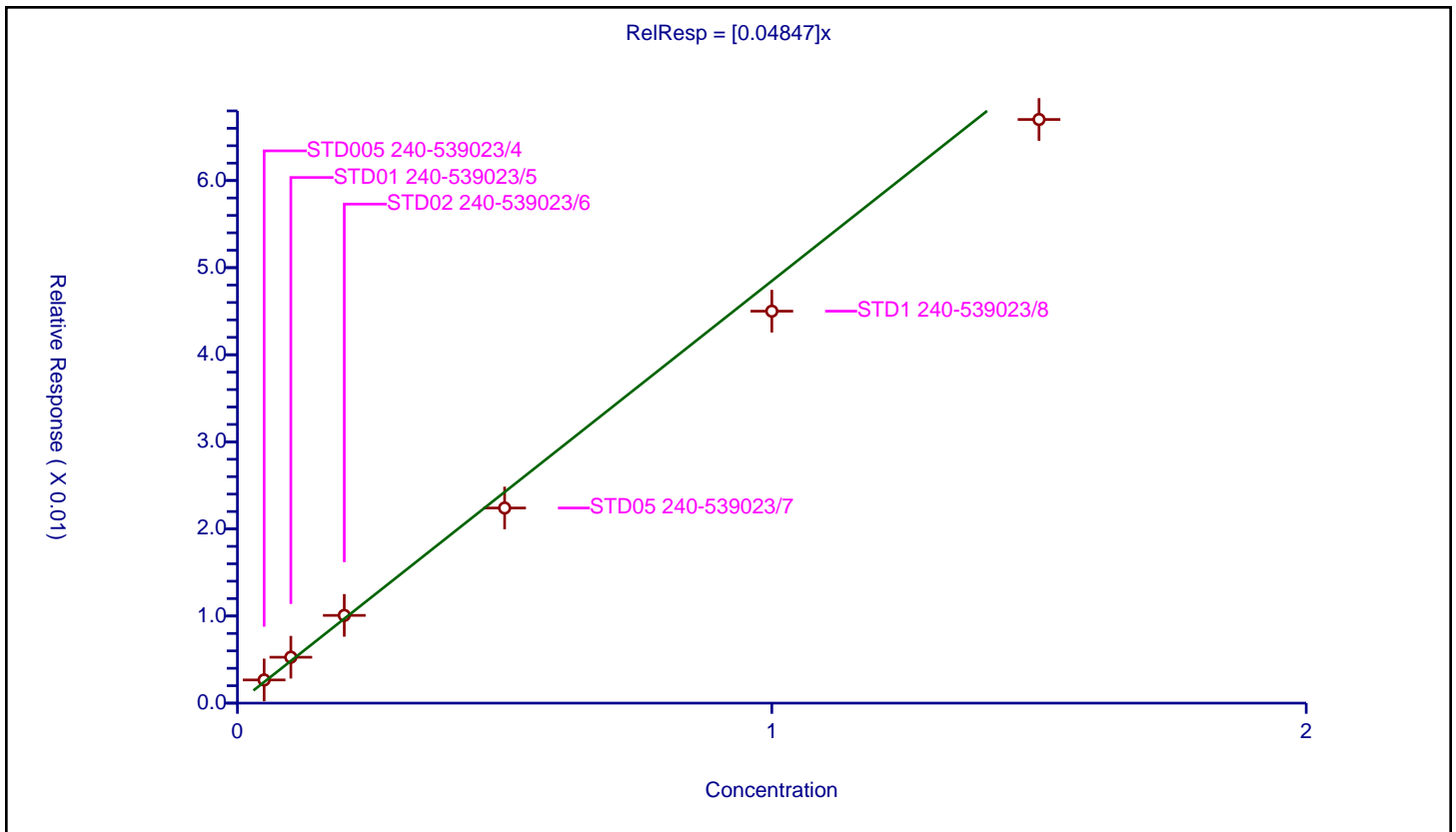
/ PCB-1262 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04847

Error Coefficients	
Standard Error:	35300000
Relative Standard Error:	8.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.002663	0.05	48630854.0	0.053269	Y
2	STD01 240-539023/5	0.1	0.005269	0.05	45081251.0	0.052692	Y
3	STD02 240-539023/6	0.2	0.010075	0.05	45450454.0	0.050375	Y
4	STD05 240-539023/7	0.5	0.022404	0.05	47955148.0	0.044807	Y
5	STD1 240-539023/8	1.0	0.045003	0.05	49041523.0	0.045003	Y
6	STD15 240-539023/9	1.5	0.067011	0.05	45385278.0	0.044674	Y



Calibration

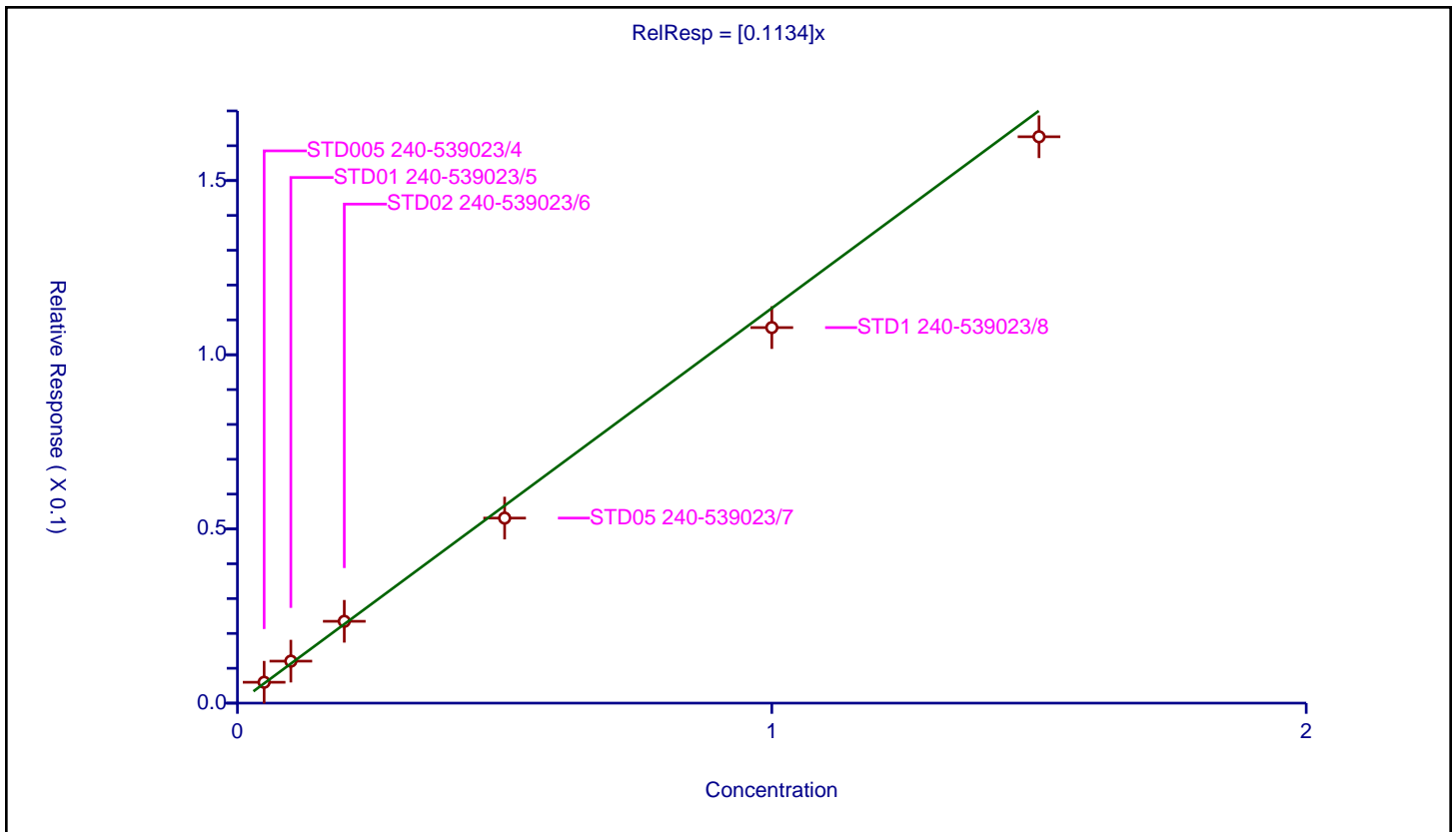
/ PCB-1262 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1134

Error Coefficients	
Standard Error:	85000000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.005991	0.05	48630854.0	0.119819	Y
2	STD01 240-539023/5	0.1	0.012052	0.05	45081251.0	0.120515	Y
3	STD02 240-539023/6	0.2	0.023493	0.05	45450454.0	0.117466	Y
4	STD05 240-539023/7	0.5	0.053112	0.05	47955148.0	0.106225	Y
5	STD1 240-539023/8	1.0	0.107797	0.05	49041523.0	0.107797	Y
6	STD15 240-539023/9	1.5	0.162578	0.05	45385278.0	0.108385	Y



Calibration

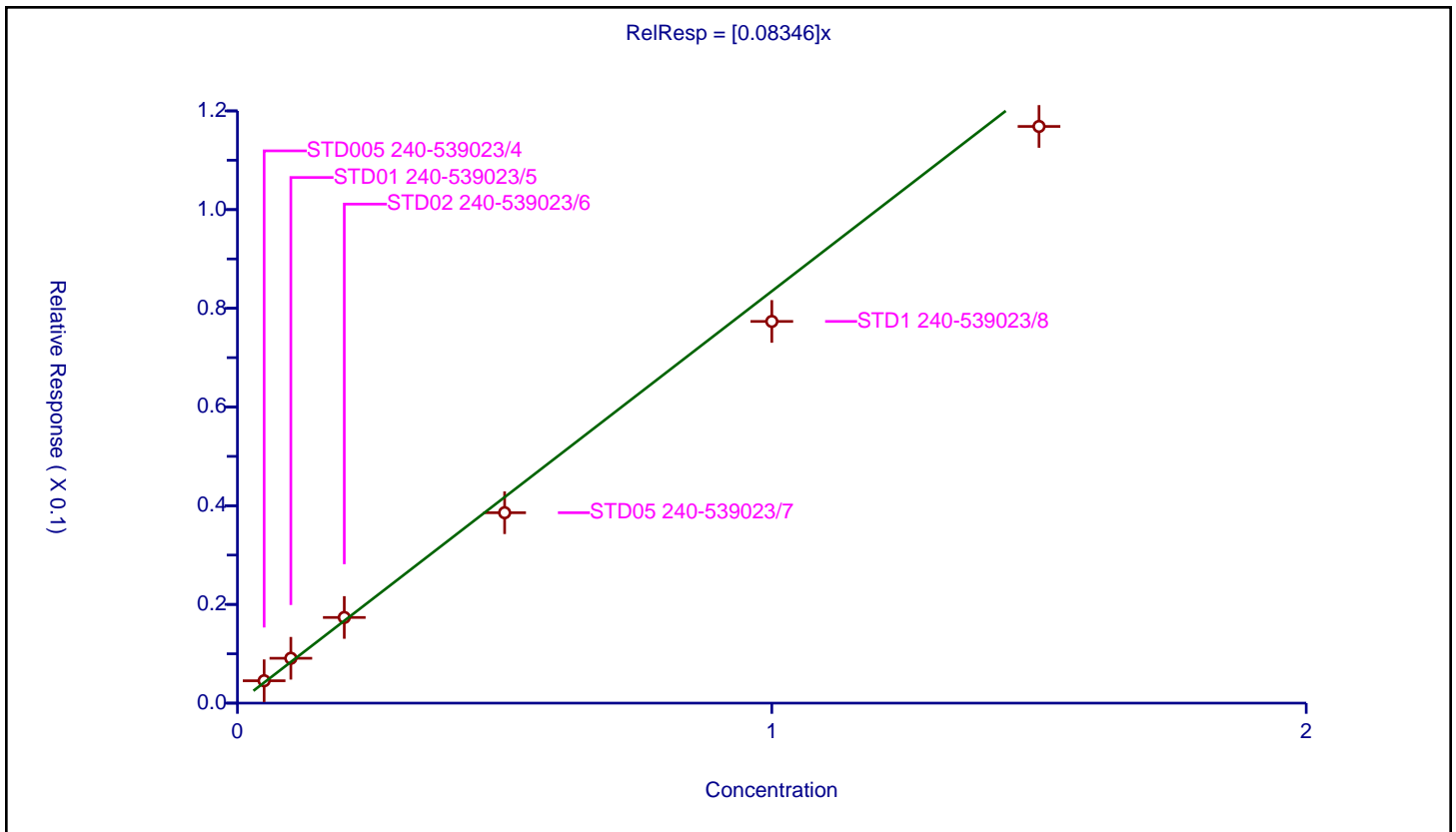
/ PCB-1262 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08346

Error Coefficients	
Standard Error:	61200000
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/4	0.05	0.004533	0.05	48630854.0	0.090669	Y
2	STD01 240-539023/5	0.1	0.009093	0.05	45081251.0	0.090926	Y
3	STD02 240-539023/6	0.2	0.017358	0.05	45450454.0	0.086789	Y
4	STD05 240-539023/7	0.5	0.038581	0.05	47955148.0	0.077162	Y
5	STD1 240-539023/8	1.0	0.077338	0.05	49041523.0	0.077338	Y
6	STD15 240-539023/9	1.5	0.116848	0.05	45385278.0	0.077899	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 12:04 Calibration End Date: 08/16/2022 13:32 Calibration ID: 67236

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/10	P4081610.D
Level 2	STD01 240-539023/11	P4081611.D
Level 3	STD02 240-539023/12	P4081612.D
Level 4	STD05 240-539023/13	P4081613.D
Level 5	STD1 240-539023/14	P4081614.D
Level 6	STD15 240-539023/15	P4081615.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0182 0.0140	0.0169	0.0166	0.0155	0.0144	Ave		0.016 0			10.1		20.0				
PCB-1242 Peak 2	0.0349 0.0266	0.0326	0.0313	0.0289	0.0273	Ave		0.030 3			10.7		20.0				
PCB-1242 Peak 3	0.0705 0.0633	0.0684	0.0664	0.0639	0.0634	Ave		0.066 0			4.6		20.0				
PCB-1242 Peak 4	0.0304 0.0265	0.0303	0.0294	0.0277	0.0267	Ave		0.028 5			6.2		20.0				
PCB-1242 Peak 5	0.0131 0.0105	0.0125	0.0123	0.0114	0.0107	Ave		0.011 8			8.8		20.0				
PCB-1268 Peak 1	0.2061 0.2037	0.1994	0.2021	0.2035	0.1955	Ave		0.201 7			1.9		20.0				
PCB-1268 Peak 2	0.2101 0.1953	0.2024	0.1976	0.2029	0.1926	Ave		0.200 1			3.2		20.0				
PCB-1268 Peak 3	0.1714 0.1708	0.1690	0.1695	0.1738	0.1663	Ave		0.170 1			1.5		20.0				
PCB-1268 Peak 4	0.0768 0.0721	0.0743	0.0737	0.0759	0.0708	Ave		0.073 9			3.0		20.0				
PCB-1268 Peak 5	0.5548 0.5807	0.5511	0.5659	0.5861	0.5581	Ave		0.566 1			2.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 12:04 Calibration End Date: 08/16/2022 13:32 Calibration ID: 67236

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/10	P4081610.D
Level 2	STD01 240-539023/11	P4081611.D
Level 3	STD02 240-539023/12	P4081612.D
Level 4	STD05 240-539023/13	P4081613.D
Level 5	STD1 240-539023/14	P4081614.D
Level 6	STD15 240-539023/15	P4081615.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	609592 13944650	1120308	2220282	4656697	10103333	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	1165465 26467438	2153408	4182129	8667536	19090776	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	2356279 62882433	4524141	8869400	19178075	44396685	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	1014039 26283944	2005466	3926231	8318045	18731874	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	438771 10441827	824874	1636087	3423915	7528281	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	6885529 202437314	13176958	26989074	61123306	136951641	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	7019282 194029282	13377378	26385932	60917351	134881375	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	5726351 169677215	11172115	22636608	52198104	116470693	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	2563954 71681069	4909026	9843224	22784105	49568637	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	18534424 576936337	36429141	75575244	176006290	390939239	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081610.D
 Lims ID: std005 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 12:04:29 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-010
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:55 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	33406408	0.0500	0.0500	
2	2.026	2.020	0.005	46604457	0.0500	0.0500	

5 PCB-1242

1	3.417	3.417	0.000	609592	0.0500	0.0572	
1	3.993	3.993	0.000	1165465	0.0500	0.0577	
1	4.660	4.660	0.000	2356279	0.0500	0.0534	
1	4.834	4.834	0.000	1014039	0.0500	0.0533	
1	5.153	5.153	0.000	438771	0.0500	0.0559	

Average of Peak Amounts = 0.0555

2	4.355	4.355	0.000	771156	0.0500	0.0559	
2	4.952	4.952	0.000	1399204	0.0500	0.0546	
2	5.540	5.540	0.000	2996740	0.0500	0.0545	
2	5.707	5.707	0.000	1169120	0.0500	0.0522	
2	6.005	6.005	0.000	791408	0.0500	0.0613	

Average of Peak Amounts = 0.0557

RPD = 0.42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

11 PCB-1268

1	8.248	8.248	0.000	6885529	0.0500	0.0511	
1	8.282	8.282	0.000	7019282	0.0500	0.0525	
1	8.457	8.457	0.000	5726351	0.0500	0.0504	
1	8.772	8.772	0.000	2563954	0.0500	0.0519	
1	9.018	9.018	0.000	18534424	0.0500	0.0490	

Average of Peak Amounts = 0.0510

2	9.053	9.053	0.000	7743182	0.0500	0.0536	
2	9.093	9.093	0.000	7501010	0.0500	0.0534	
2	9.312	9.312	0.000	6599425	0.0500	0.0531	
2	9.548	9.548	0.000	2944640	0.0500	0.0543	
2	9.820	9.820	0.000	19901055	0.0500	0.0511	

Average of Peak Amounts = 0.0531

RPD = 4.09

QC Flag Legend

Processing Flags

Reagents:

SG4268@.05PPM_00023

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081610.D

Injection Date: 16-Aug-2022 12:04:29

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1242 1268

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

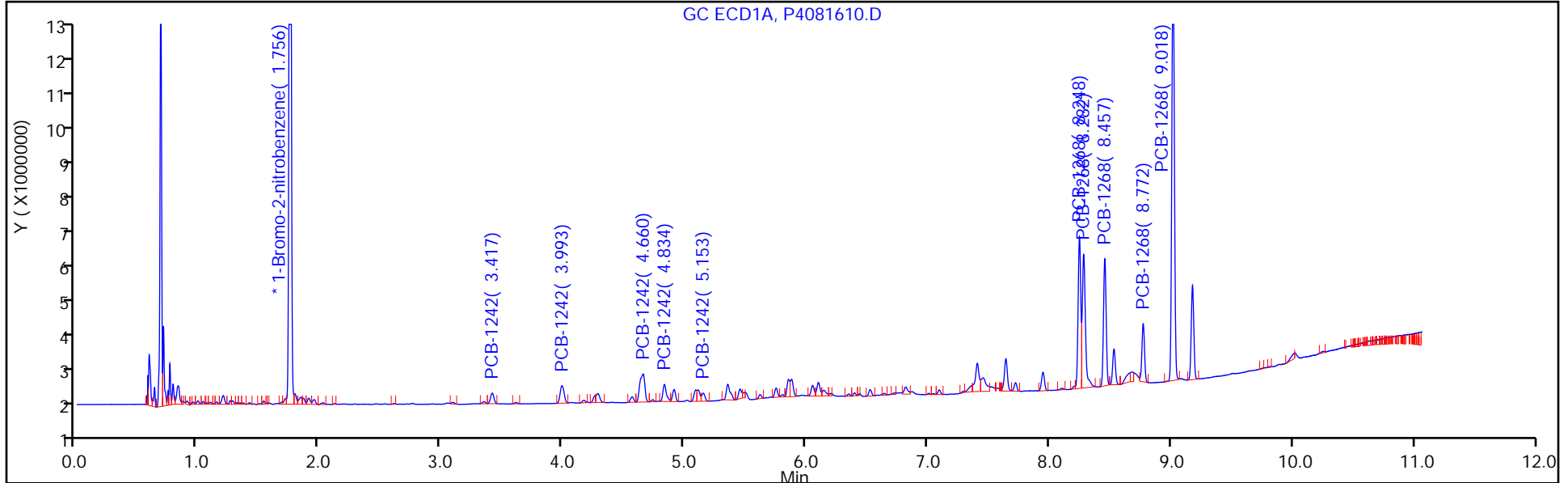
ALS Bottle#: 10

Method: PCB4 is

Limit Group: GC 8082A IS

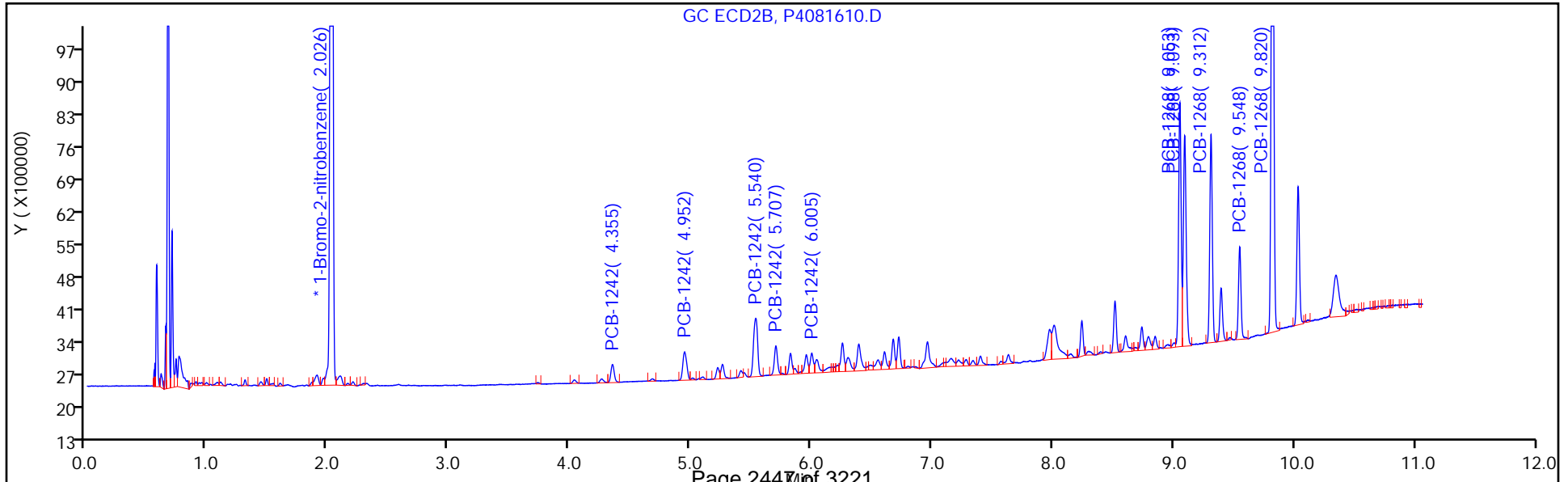
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081611.D
 Lims ID: std01 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 12:22:01 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-011
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:58 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.756	1.751	0.005	33048600	0.0500	0.0500	
2	2.027	2.020	0.007	46327488	0.0500	0.0500	
5 PCB-1242							
1	3.419	3.417	0.002	1120308	0.1000	0.1062	
1	3.992	3.993	-0.001	2153408	0.1000	0.1077	
1	4.659	4.660	-0.001	4524141	0.1000	0.1037	
1	4.835	4.834	0.001	2005466	0.1000	0.1065	
1	5.156	5.153	0.003	824874	0.1000	0.1062	
Average of Peak Amounts =						0.1060	
2	4.354	4.355	-0.001	1466016	0.1000	0.1069	
2	4.951	4.952	-0.001	2742963	0.1000	0.1077	
2	5.544	5.540	0.004	5632307	0.1000	0.1030	
2	5.711	5.707	0.004	2384311	0.1000	0.1072	
2	6.007	6.005	0.002	1317035	0.1000	0.1026	
Average of Peak Amounts =						0.1055	
						RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

11 PCB-1268

1	8.248	8.248	0.000	13176958	0.1000	0.0988	
1	8.283	8.282	0.001	13377378	0.1000	0.1011	
1	8.456	8.457	-0.001	11172115	0.1000	0.0993	
1	8.771	8.772	-0.001	4909026	0.1000	0.1005	
1	9.016	9.018	-0.002	36429141	0.1000	0.0974	

Average of Peak Amounts = 0.0994

2	9.051	9.053	-0.002	14569325	0.1000	0.1014	
2	9.091	9.093	-0.002	14199630	0.1000	0.1016	
2	9.309	9.312	-0.003	12547784	0.1000	0.1017	
2	9.546	9.548	-0.002	5570331	0.1000	0.1034	
2	9.816	9.820	-0.004	38302900	0.1000	0.0989	

Average of Peak Amounts = 0.1014

RPD = 1.97

QC Flag Legend

Processing Flags

Reagents:

SG4268@.1PPM_00024

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081611.D

Injection Date: 16-Aug-2022 12:22:01

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1242 1268

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

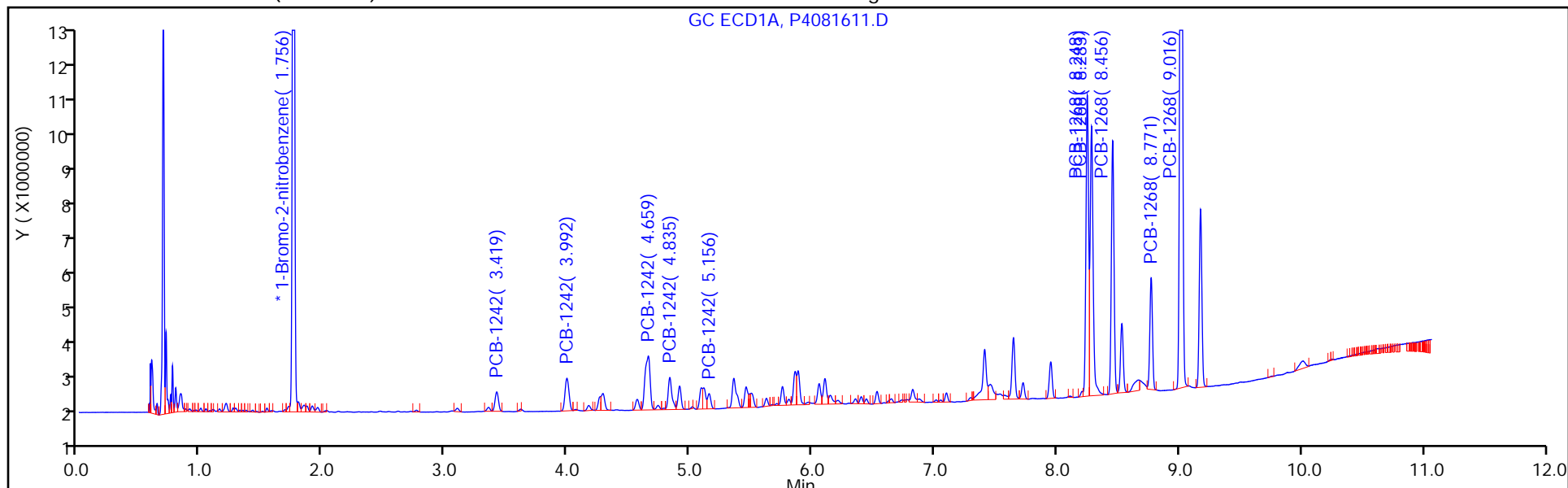
ALS Bottle#: 11

Method: PCB4 is

Limit Group: GC 8082A IS

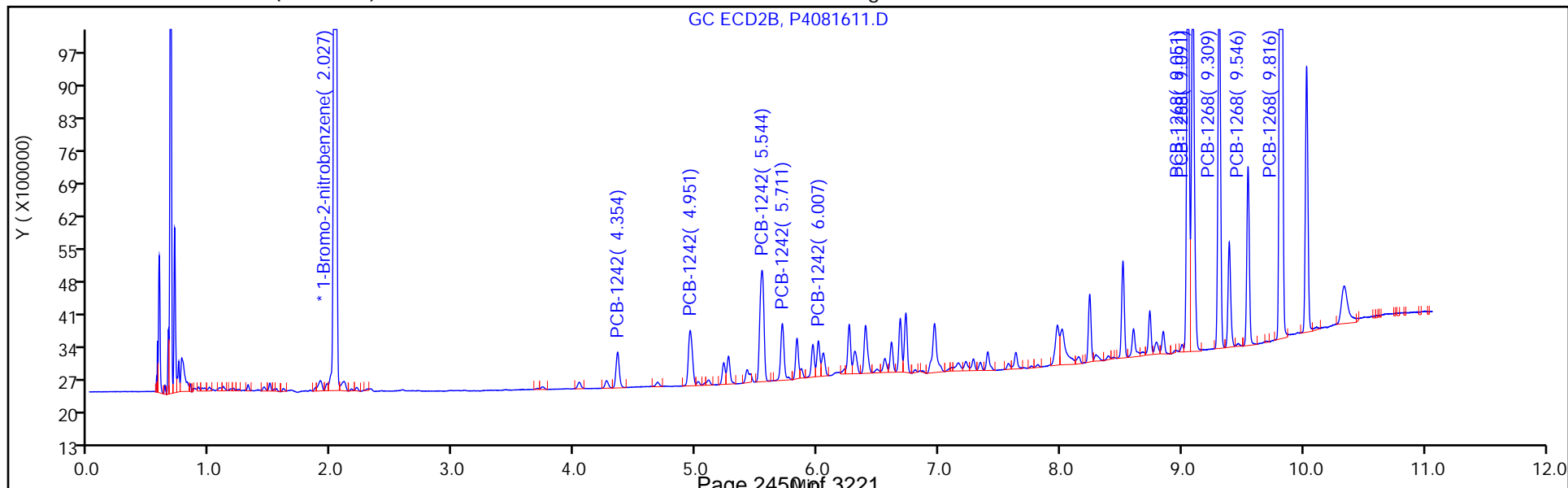
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D
 Lims ID: std02 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 12:39:40 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-012
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:02 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.759	1.751	0.008	33388476	0.0500	0.0500	
2	2.030	2.020	0.009	47133849	0.0500	0.0500	

5 PCB-1242

1	3.422	3.417	0.005	2220282	0.2000	0.2083	
1	3.994	3.993	0.001	4182129	0.2000	0.2070	
1	4.661	4.660	0.001	8869400	0.2000	0.2013	
1	4.836	4.834	0.002	3926231	0.2000	0.2063	
1	5.156	5.153	0.003	1636087	0.2000	0.2084	

Average of Peak Amounts = 0.2063

2	4.356	4.355	0.001	2883378	0.2000	0.2067	
2	4.953	4.952	0.001	5354960	0.2000	0.2068	
2	5.545	5.540	0.005	11355314	0.2000	0.2041	
2	5.711	5.707	0.004	4728859	0.2000	0.2089	
2	6.008	6.005	0.003	2672015	0.2000	0.2046	

Average of Peak Amounts = 0.2062

RPD = 0.02

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

11 PCB-1268

1	8.250	8.248	0.002	26989074	0.2000	0.2004	
1	8.284	8.282	0.002	26385932	0.2000	0.1974	
1	8.457	8.457	0.000	22636608	0.2000	0.1992	
1	8.771	8.772	-0.001	9843224	0.2000	0.1994	
1	9.016	9.018	-0.002	75575244	0.2000	0.1999	
Average of Peak Amounts =						0.1993	
2	9.052	9.053	-0.001	29271677	0.2000	0.2003	
2	9.092	9.093	-0.001	28336935	0.2000	0.1994	
2	9.310	9.312	-0.002	25175245	0.2000	0.2005	
2	9.547	9.548	-0.001	11053227	0.2000	0.2017	
2	9.819	9.820	-0.001	77894164	0.2000	0.1976	
Average of Peak Amounts =						0.1999	

RPD = 0.31

QC Flag Legend

Processing Flags

Reagents:

SG4268@.2PPM_00023

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D

Injection Date: 16-Aug-2022 12:39:40

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1242 1268

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

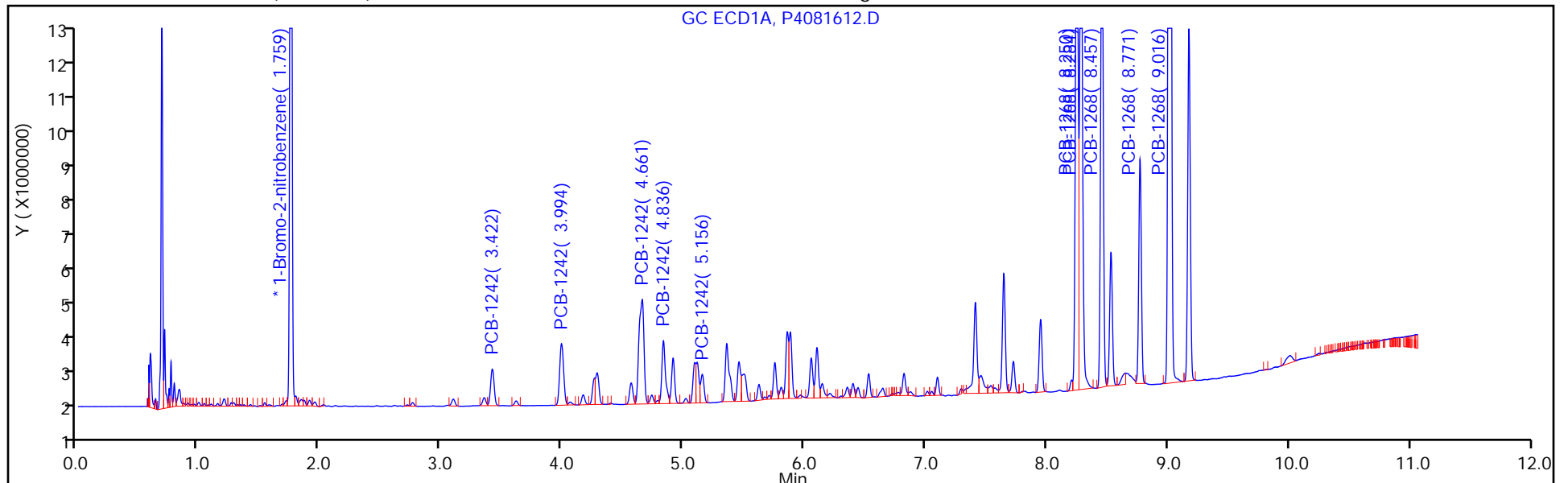
ALS Bottle#: 12

Method: PCB4 is

Limit Group: GC 8082A IS

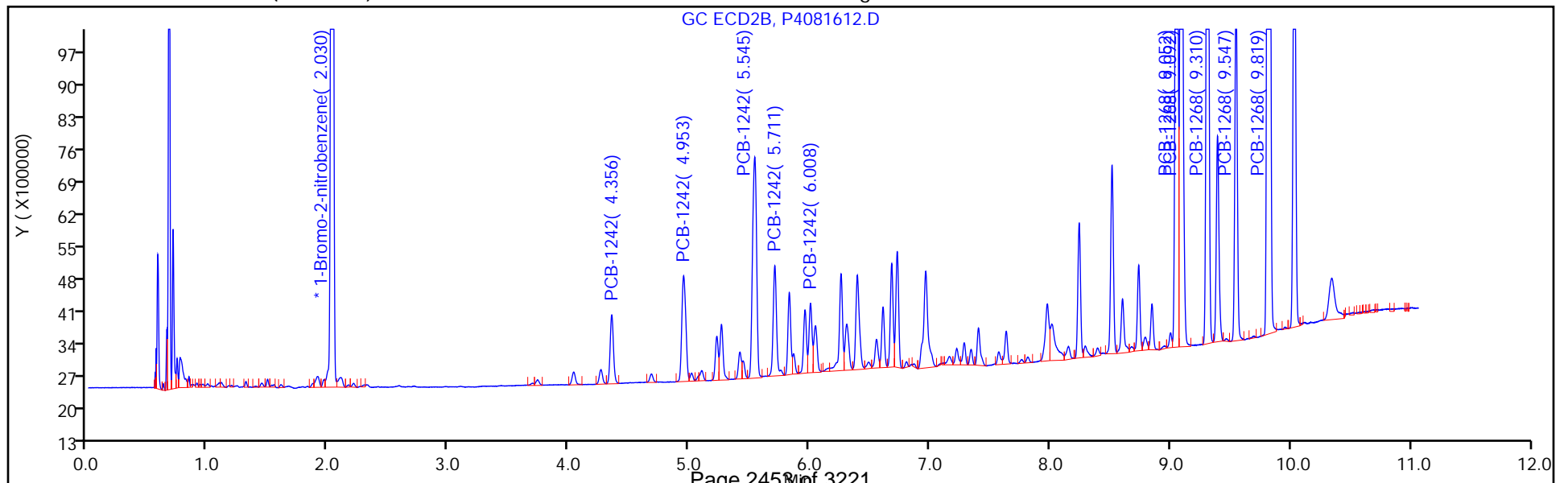
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081613.D
 Lims ID: std05 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 12:57:26 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-013
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:06 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	30029793	0.0500	0.0500	
2	2.026	2.020	0.006	42112713	0.0500	0.0500	

5 PCB-1242

1	3.419	3.417	0.002	4656697	0.5000	0.4857	
1	3.992	3.993	-0.001	8667536	0.5000	0.4770	
1	4.658	4.660	-0.002	19178075	0.5000	0.4839	
1	4.834	4.834	0.000	8318045	0.5000	0.4860	
1	5.156	5.153	0.003	3423915	0.5000	0.4850	

Average of Peak Amounts = 0.4835

2	4.354	4.355	-0.001	6046096	0.5000	0.4851	
2	4.952	4.952	0.000	11247733	0.5000	0.4860	
2	5.543	5.540	0.003	24023871	0.5000	0.4833	
2	5.710	5.707	0.003	10000928	0.5000	0.4944	
2	6.006	6.005	0.001	5460736	0.5000	0.4680	

Average of Peak Amounts = 0.4834

RPD = 0.03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.248	8.248	0.000	61123306	0.5000	0.5045	
1	8.284	8.282	0.002	60917351	0.5000	0.5068	
1	8.456	8.457	-0.001	52198104	0.5000	0.5108	
1	8.771	8.772	-0.001	22784105	0.5000	0.5132	
1	9.016	9.018	-0.002	176006290	0.5000	0.5176	
Average of Peak Amounts =						0.5106	
2	9.051	9.053	-0.002	65183326	0.5000	0.4992	
2	9.091	9.093	-0.002	64005704	0.5000	0.5040	
2	9.309	9.312	-0.003	56477855	0.5000	0.5033	
2	9.546	9.548	-0.002	24853748	0.5000	0.5075	
2	9.817	9.820	-0.003	180934339	0.5000	0.5138	
Average of Peak Amounts =						0.5056	
						RPD =	0.99

QC Flag Legend

Processing Flags

Reagents:

SG4268@0.5PPM_00054

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:07

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081613.D

Injection Date: 16-Aug-2022 12:57:26

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1242 1268

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

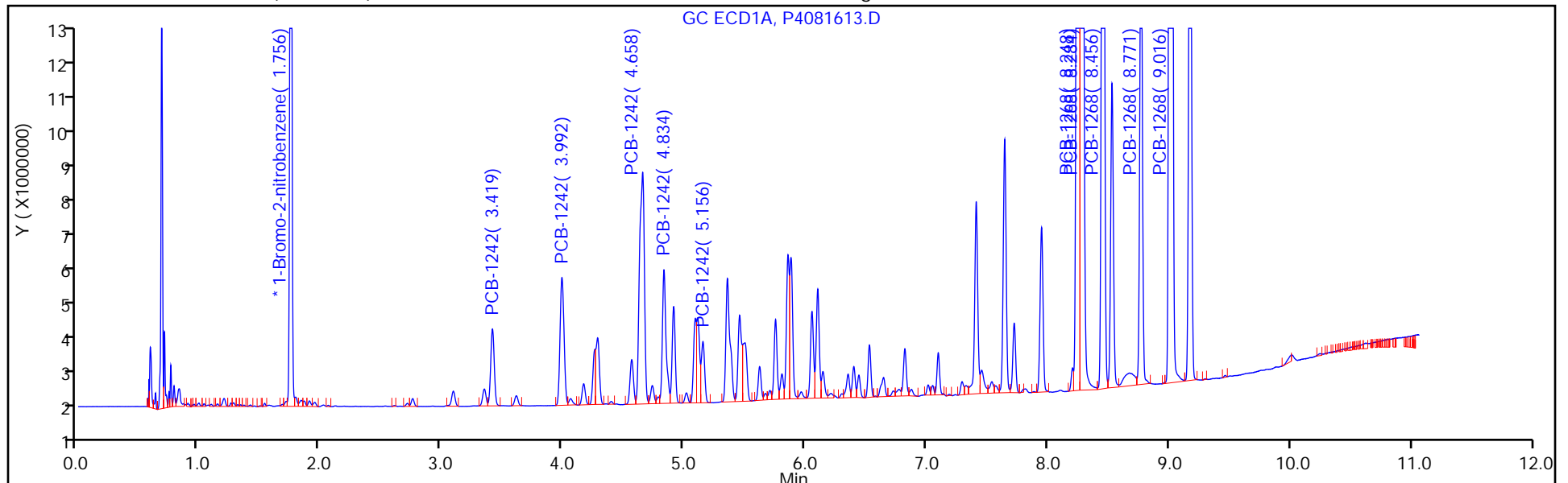
ALS Bottle#: 13

Method: PCB4 is

Limit Group: GC 8082A IS

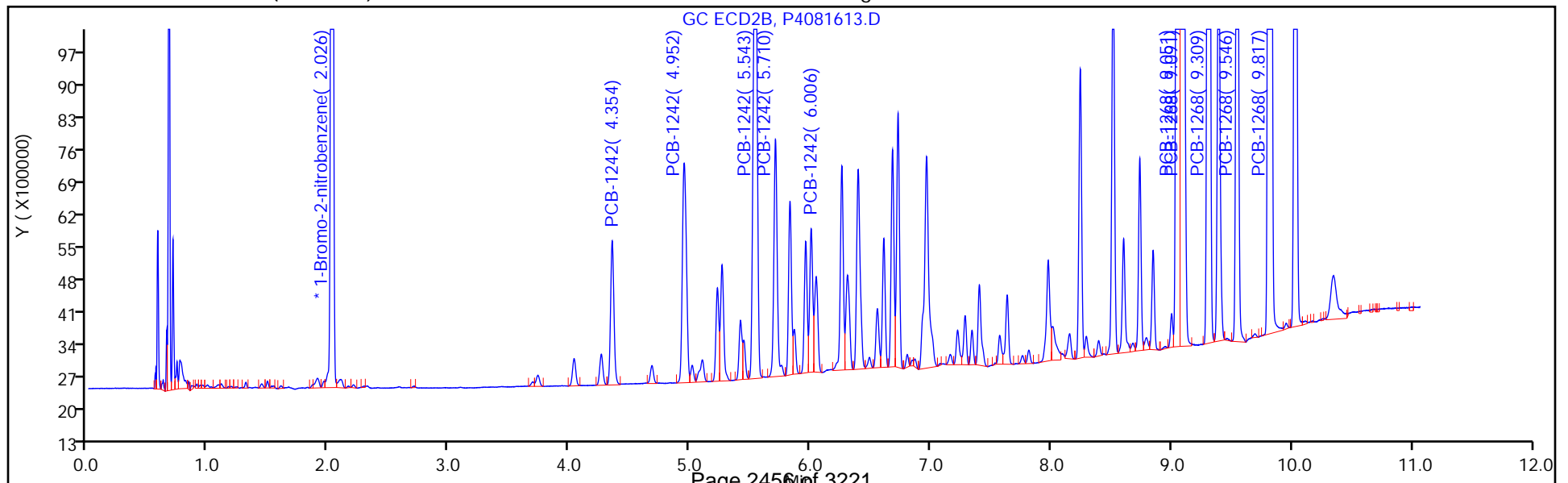
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081614.D
 Lims ID: std1 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 13:15:12 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-014
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:10 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene
 1 1.756 1.751 0.005 35022144 0.0500 0.0500
 2 2.027 2.020 0.006 49042730 0.0500 0.0500

5 PCB-1242
 1 3.419 3.417 0.002 10103333 1.00 0.9035
 1 3.993 3.993 0.000 19090776 1.00 0.9008
 1 4.657 4.660 -0.003 44396685 1.00 0.9605
 1 4.833 4.834 -0.001 18731874 1.00 0.9384
 1 5.153 5.153 0.000 7528281 1.00 0.9144
 Average of Peak Amounts = 0.9235
 2 4.353 4.355 -0.002 13309376 1.00 0.9170
 2 4.950 4.952 -0.002 24887157 1.00 0.9235
 2 5.540 5.540 0.000 55046851 1.00 0.9509
 2 5.707 5.707 0.000 21863056 1.00 0.9281
 2 6.004 6.005 -0.001 12190173 1.00 0.8972
 Average of Peak Amounts = 0.9233

RPD = 0.02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.247	8.248	-0.001	136951641	1.00	0.9692	
1	8.282	8.282	0.000	134881375	1.00	0.9622	
1	8.455	8.457	-0.002	116470693	1.00	0.9774	
1	8.768	8.772	-0.004	49568637	1.00	0.9574	
1	9.014	9.018	-0.004	390939239	1.00	0.9859	
Average of Peak Amounts =						0.9704	
2	9.050	9.053	-0.003	143678184	1.00	0.9448	
2	9.090	9.093	-0.003	139616030	1.00	0.9441	
2	9.308	9.312	-0.004	123351153	1.00	0.9440	
2	9.545	9.548	-0.003	52384595	1.00	0.9186	
2	9.817	9.820	-0.003	396578387	1.00	0.9671	
Average of Peak Amounts =						0.9437	

RPD = 2.79

QC Flag Legend

Processing Flags

Reagents:

SG42/68@1.0PP_00042

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:11

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081614.D

Injection Date: 16-Aug-2022 13:15:12

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1242 1268

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

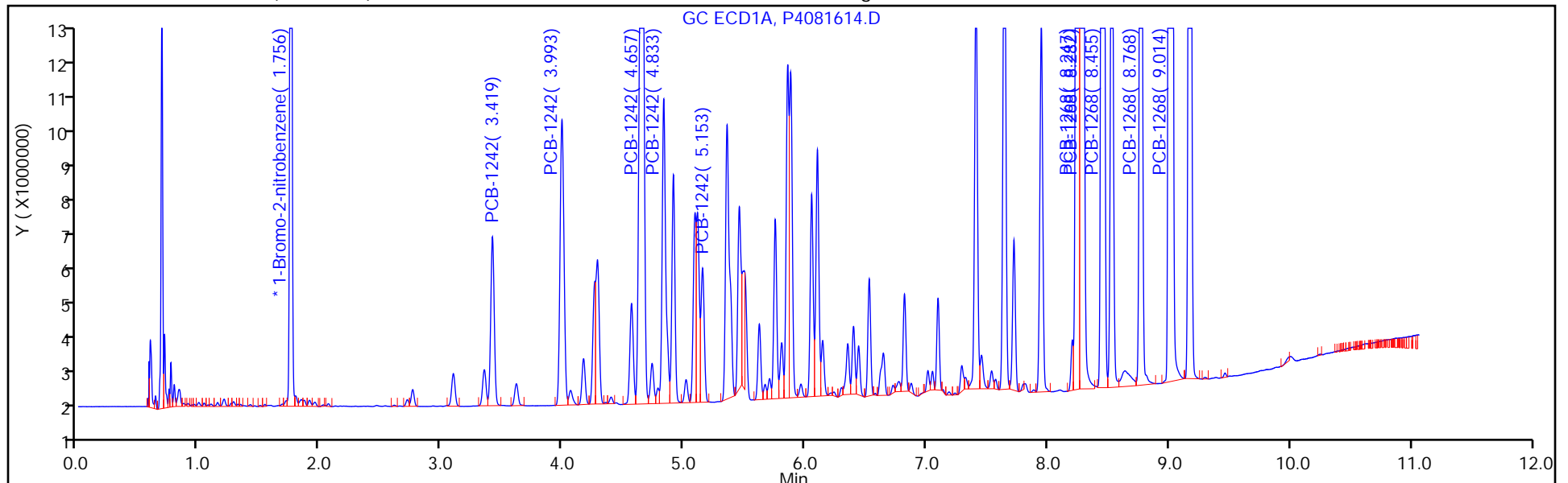
ALS Bottle#: 14

Method: PCB4 is

Limit Group: GC 8082A IS

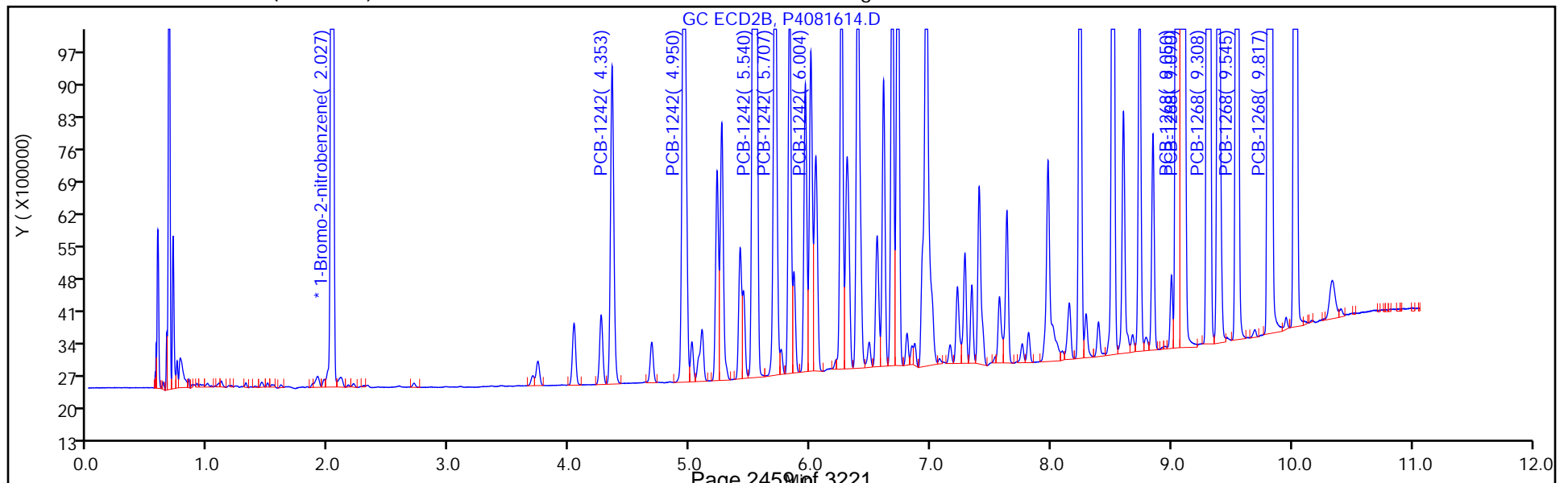
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081615.D
 Lims ID: std15 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 13:32:45 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-015
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:14 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene
 1 1.757 1.751 0.006 33119869 0.0500 0.0500
 2 2.027 2.020 0.007 46737370 0.0500 0.0500

5 PCB-1242
 1 3.422 3.417 0.005 13944650 1.50 1.32
 1 3.996 3.993 0.003 26467438 1.50 1.32
 1 4.662 4.660 0.002 62882433 1.50 1.44
 1 4.836 4.834 0.002 26283944 1.50 1.39
 1 5.157 5.153 0.004 10441827 1.50 1.34
 Average of Peak Amounts = 1.36
 2 4.356 4.355 0.001 18494834 1.50 1.34
 2 4.952 4.952 0.000 34690191 1.50 1.35
 2 5.545 5.540 0.005 78003444 1.50 1.41
 2 5.710 5.707 0.003 31063160 1.50 1.38
 2 6.007 6.005 0.002 17317499 1.50 1.34

Average of Peak Amounts = 1.36

RPD = 0.17

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081615.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.249	8.248	0.001	202437314	1.50	1.51	
1	8.285	8.282	0.003	194029282	1.50	1.46	
1	8.458	8.457	0.001	169677215	1.50	1.51	
1	8.772	8.772	0.000	71681069	1.50	1.46	
1	9.017	9.018	-0.001	576936337	1.50	1.54	

Average of Peak Amounts = 1.50

2	9.052	9.053	-0.001	210738592	1.50	1.45	
2	9.091	9.093	-0.002	204391594	1.50	1.45	
2	9.308	9.312	-0.004	180718183	1.50	1.45	
2	9.545	9.548	-0.003	76390545	1.50	1.41	
2	9.817	9.820	-0.003	590257527	1.50	1.51	

Average of Peak Amounts = 1.45

RPD = 2.91

QC Flag Legend

Processing Flags

Reagents:

SG4268@1.5PPM_00014

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:15

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081615.D

Injection Date: 16-Aug-2022 13:32:45

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1242 1268

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

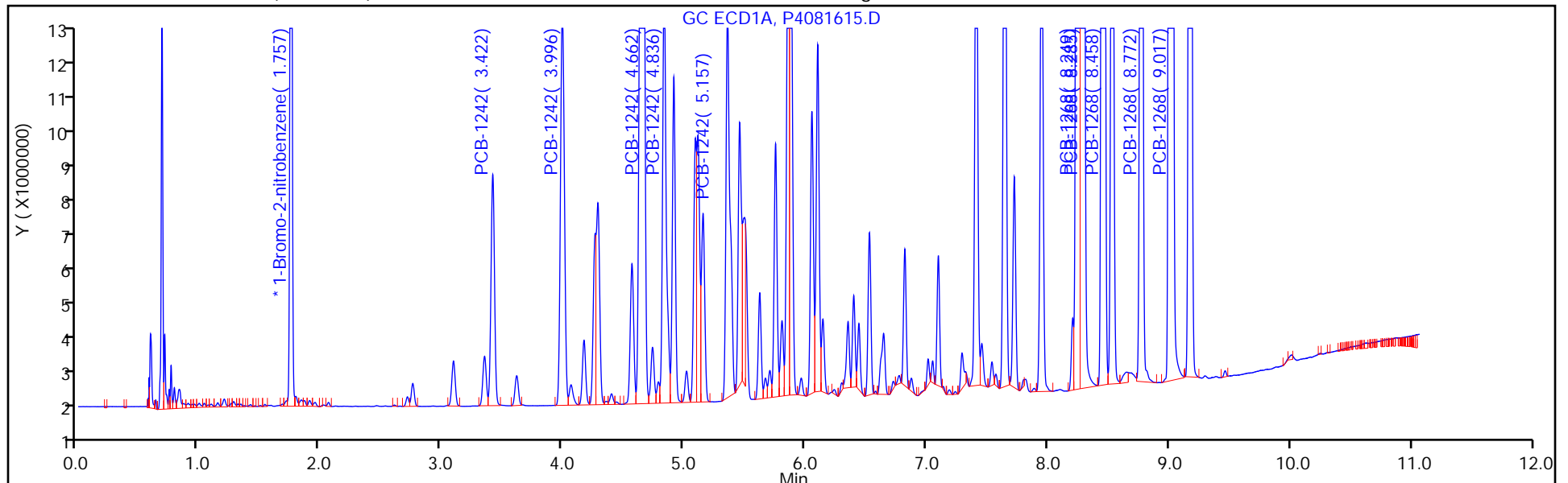
ALS Bottle#: 15

Method: PCB4 is

Limit Group: GC 8082A IS

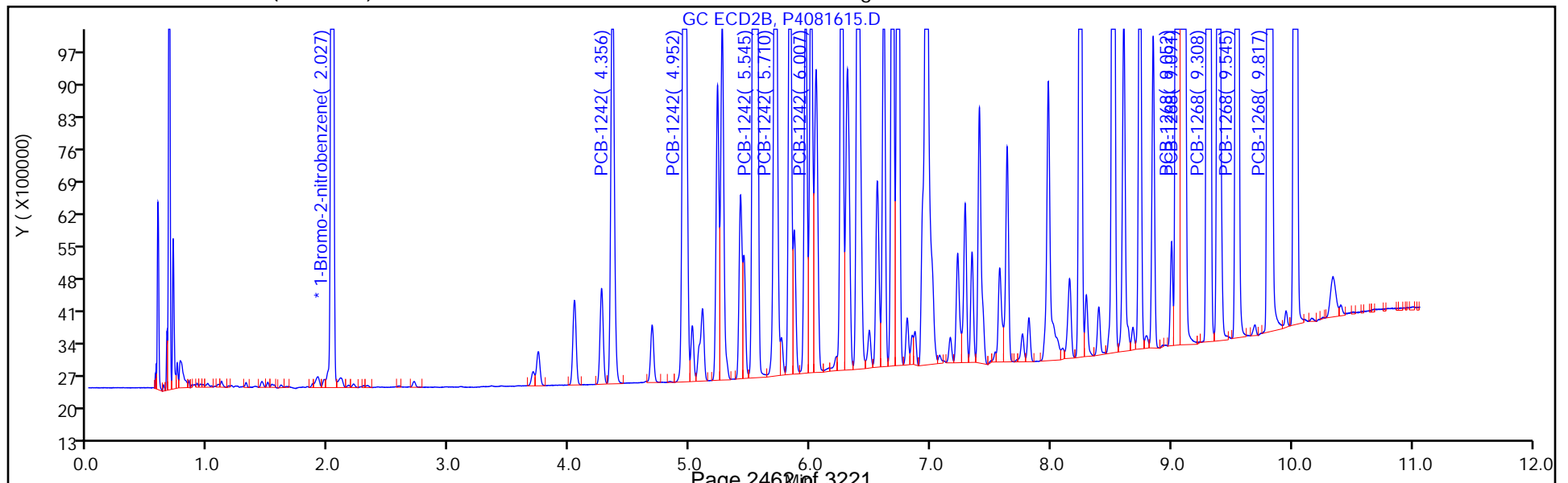
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

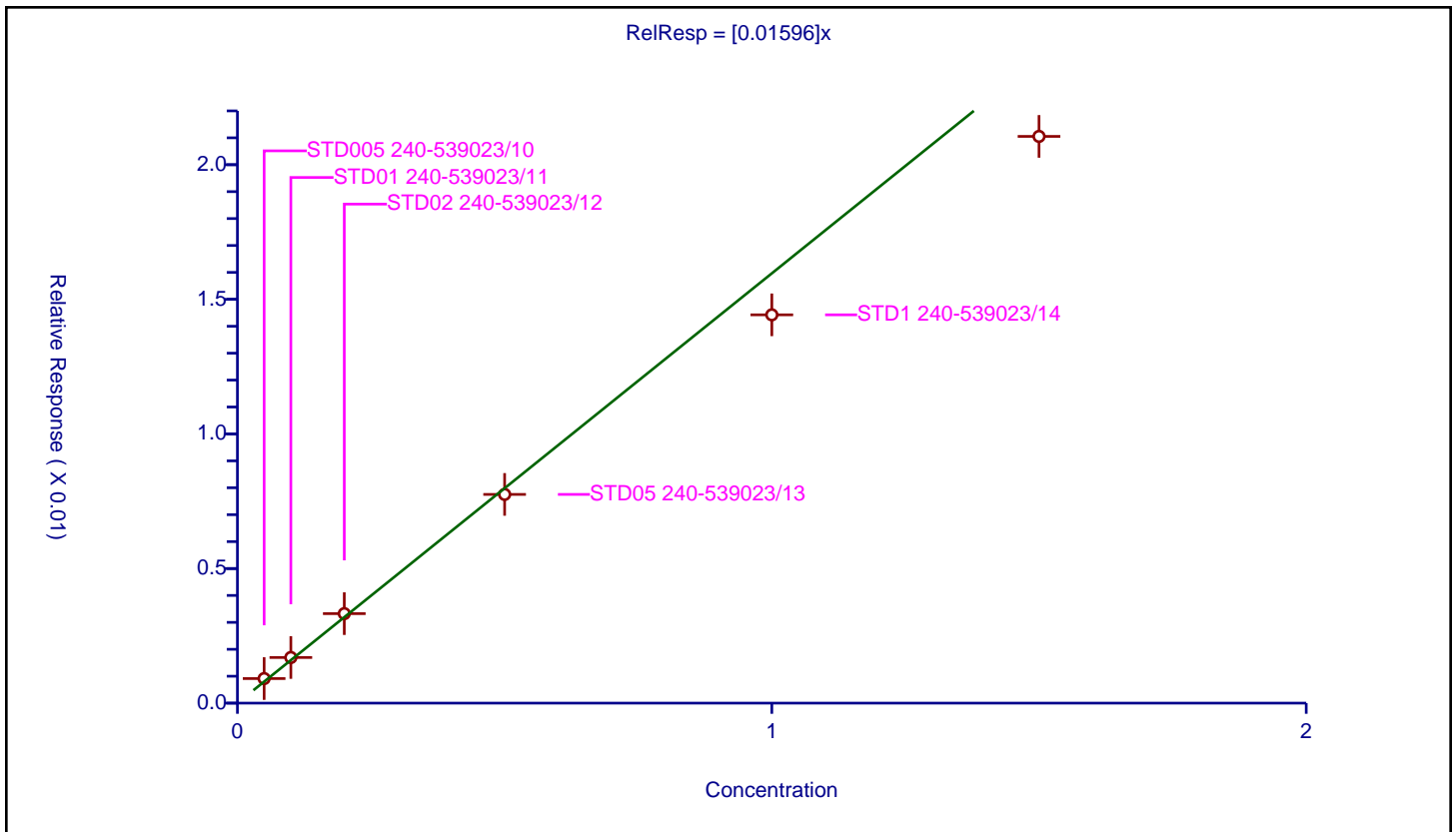
/ PCB-1242 Peak 1

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01596

Error Coefficients	
Standard Error:	8060000
Relative Standard Error:	10.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.000912	0.05	33406408.0	0.018248	Y
2	STD01 240-539023/11	0.1	0.001695	0.05	33048600.0	0.016949	Y
3	STD02 240-539023/12	0.2	0.003325	0.05	33388476.0	0.016625	Y
4	STD05 240-539023/13	0.5	0.007753	0.05	30029793.0	0.015507	Y
5	STD1 240-539023/14	1.0	0.014424	0.05	35022144.0	0.014424	Y
6	STD15 240-539023/15	1.5	0.021052	0.05	33119869.0	0.014035	Y



Calibration

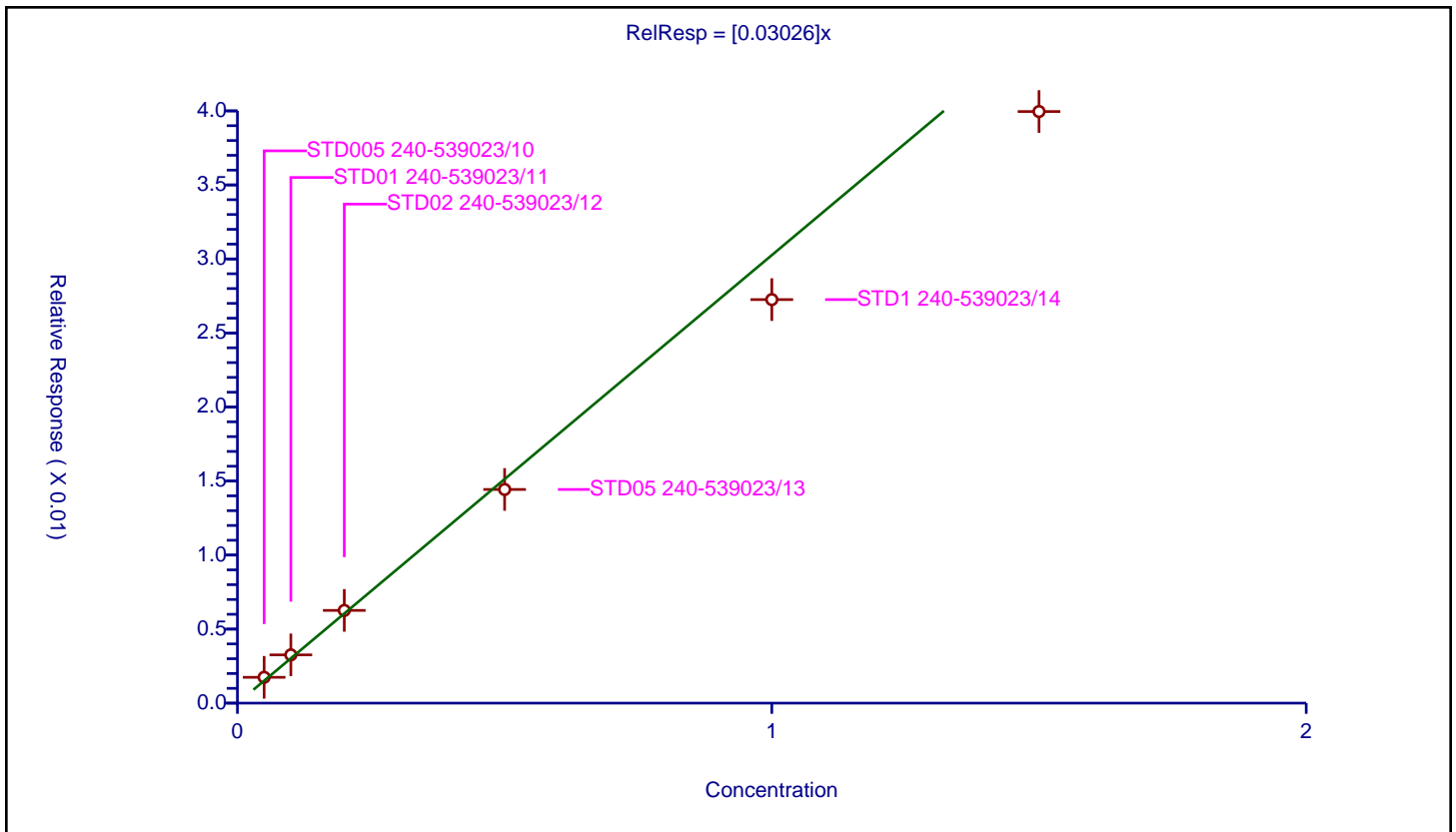
/ PCB-1242 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03026

Error Coefficients	
Standard Error:	15300000
Relative Standard Error:	10.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.001744	0.05	33406408.0	0.034887	Y
2	STD01 240-539023/11	0.1	0.003258	0.05	33048600.0	0.032579	Y
3	STD02 240-539023/12	0.2	0.006263	0.05	33388476.0	0.031314	Y
4	STD05 240-539023/13	0.5	0.014432	0.05	30029793.0	0.028863	Y
5	STD1 240-539023/14	1.0	0.027255	0.05	35022144.0	0.027255	Y
6	STD15 240-539023/15	1.5	0.039957	0.05	33119869.0	0.026638	Y



Calibration

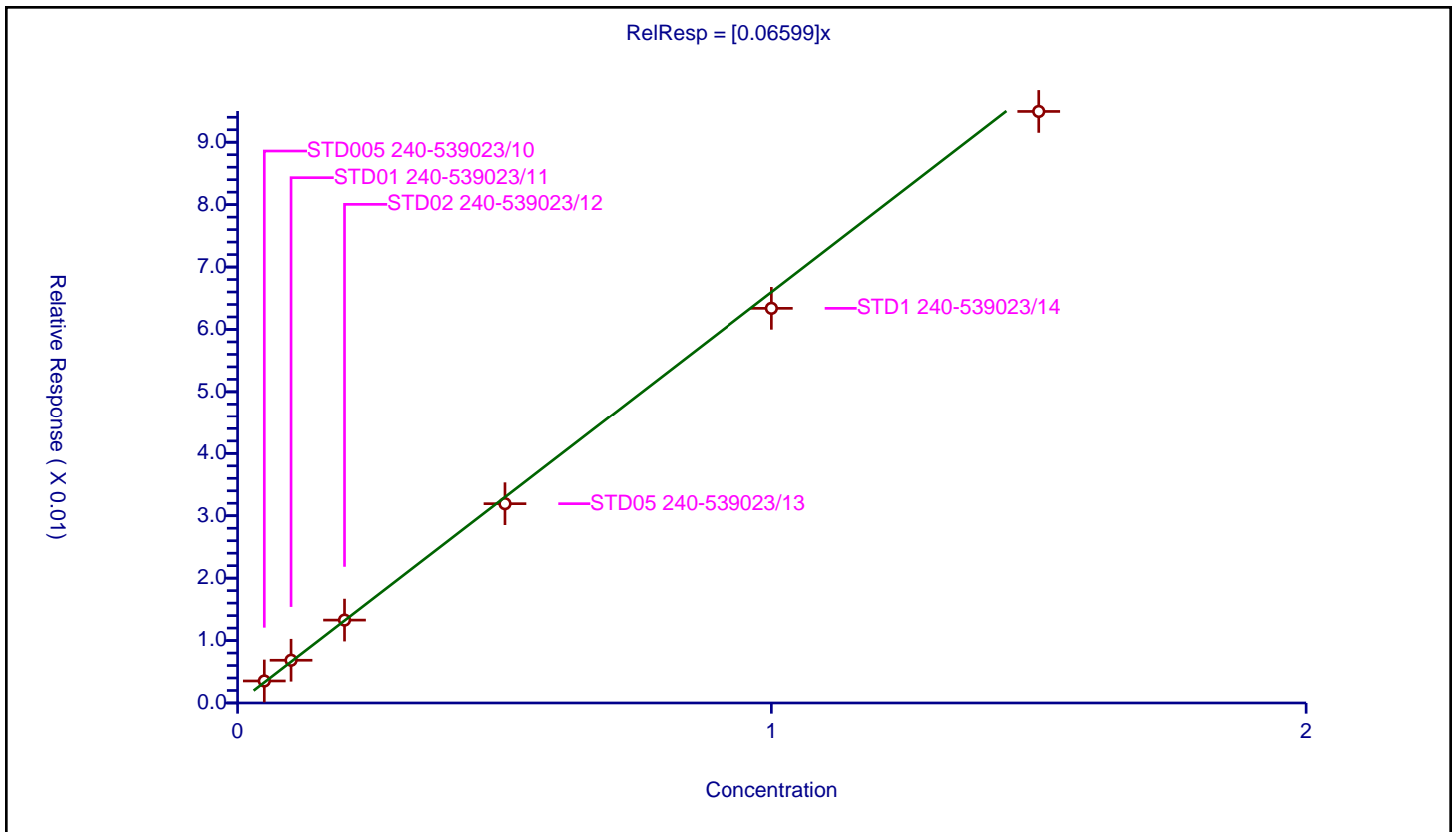
/ PCB-1242 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06599

Error Coefficients	
Standard Error:	35800000
Relative Standard Error:	4.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.003527	0.05	33406408.0	0.070534	Y
2	STD01 240-539023/11	0.1	0.006845	0.05	33048600.0	0.068447	Y
3	STD02 240-539023/12	0.2	0.013282	0.05	33388476.0	0.066411	Y
4	STD05 240-539023/13	0.5	0.031932	0.05	30029793.0	0.063863	Y
5	STD1 240-539023/14	1.0	0.063384	0.05	35022144.0	0.063384	Y
6	STD15 240-539023/15	1.5	0.094932	0.05	33119869.0	0.063288	Y



Calibration

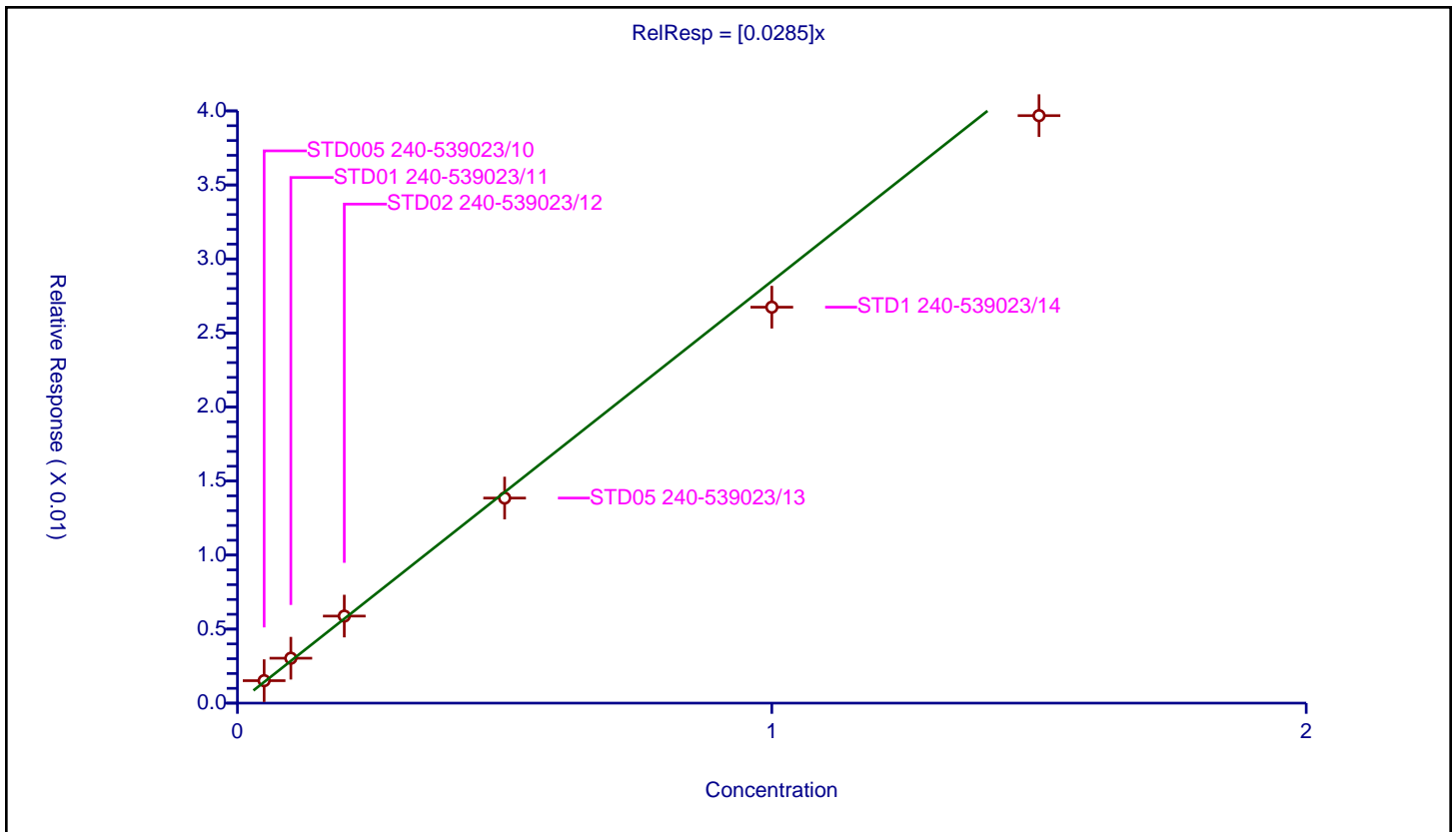
/ PCB-1242 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0285

Error Coefficients	
Standard Error:	15000000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.001518	0.05	33406408.0	0.030355	Y
2	STD01 240-539023/11	0.1	0.003034	0.05	33048600.0	0.030341	Y
3	STD02 240-539023/12	0.2	0.00588	0.05	33388476.0	0.029398	Y
4	STD05 240-539023/13	0.5	0.01385	0.05	30029793.0	0.027699	Y
5	STD1 240-539023/14	1.0	0.026743	0.05	35022144.0	0.026743	Y
6	STD15 240-539023/15	1.5	0.03968	0.05	33119869.0	0.026453	Y



Calibration

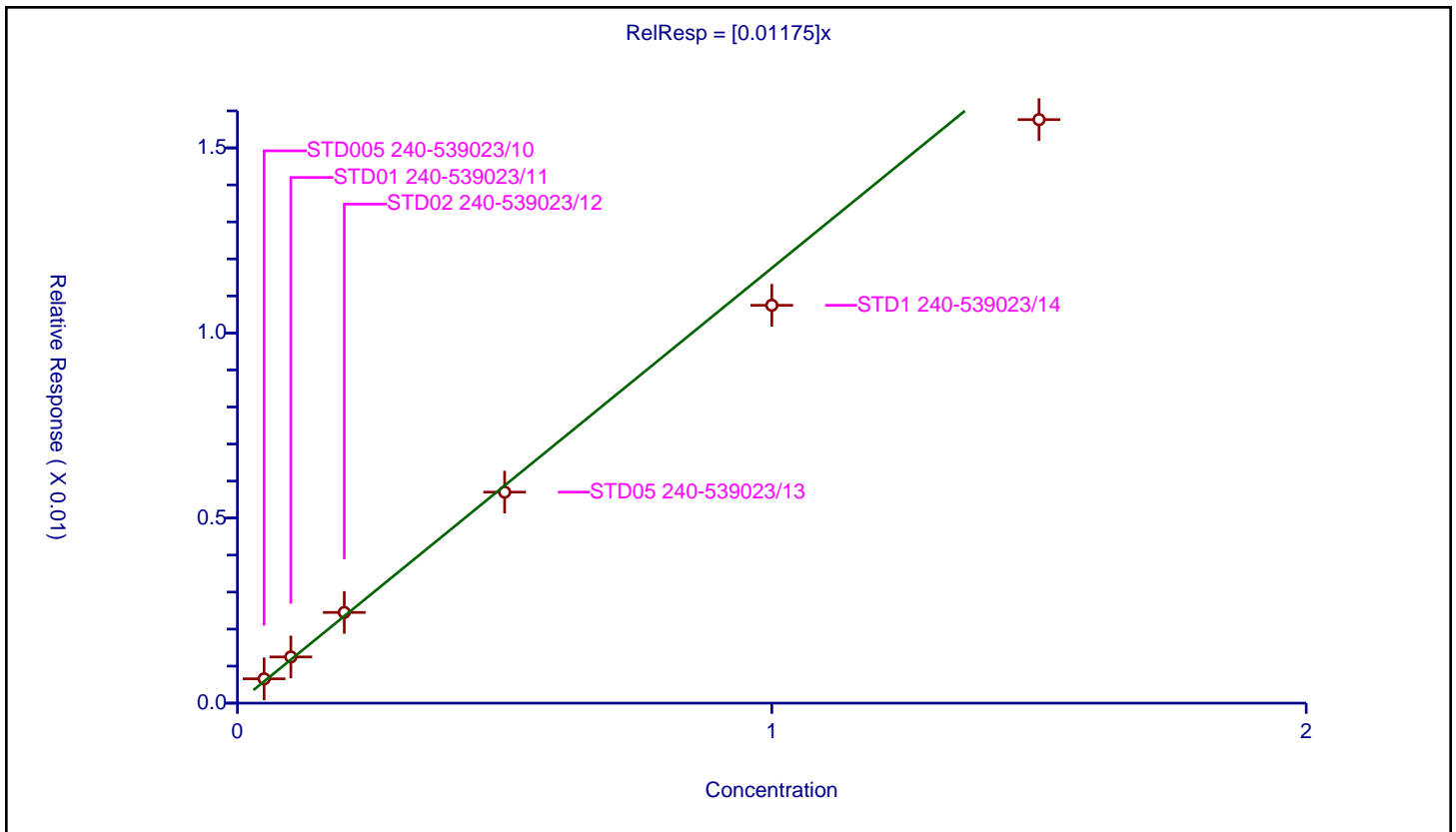
/ PCB-1242 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01175

Error Coefficients	
Standard Error:	6020000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.000657	0.05	33406408.0	0.013134	Y
2	STD01 240-539023/11	0.1	0.001248	0.05	33048600.0	0.01248	Y
3	STD02 240-539023/12	0.2	0.00245	0.05	33388476.0	0.01225	Y
4	STD05 240-539023/13	0.5	0.005701	0.05	30029793.0	0.011402	Y
5	STD1 240-539023/14	1.0	0.010748	0.05	35022144.0	0.010748	Y
6	STD15 240-539023/15	1.5	0.015764	0.05	33119869.0	0.010509	Y



Calibration

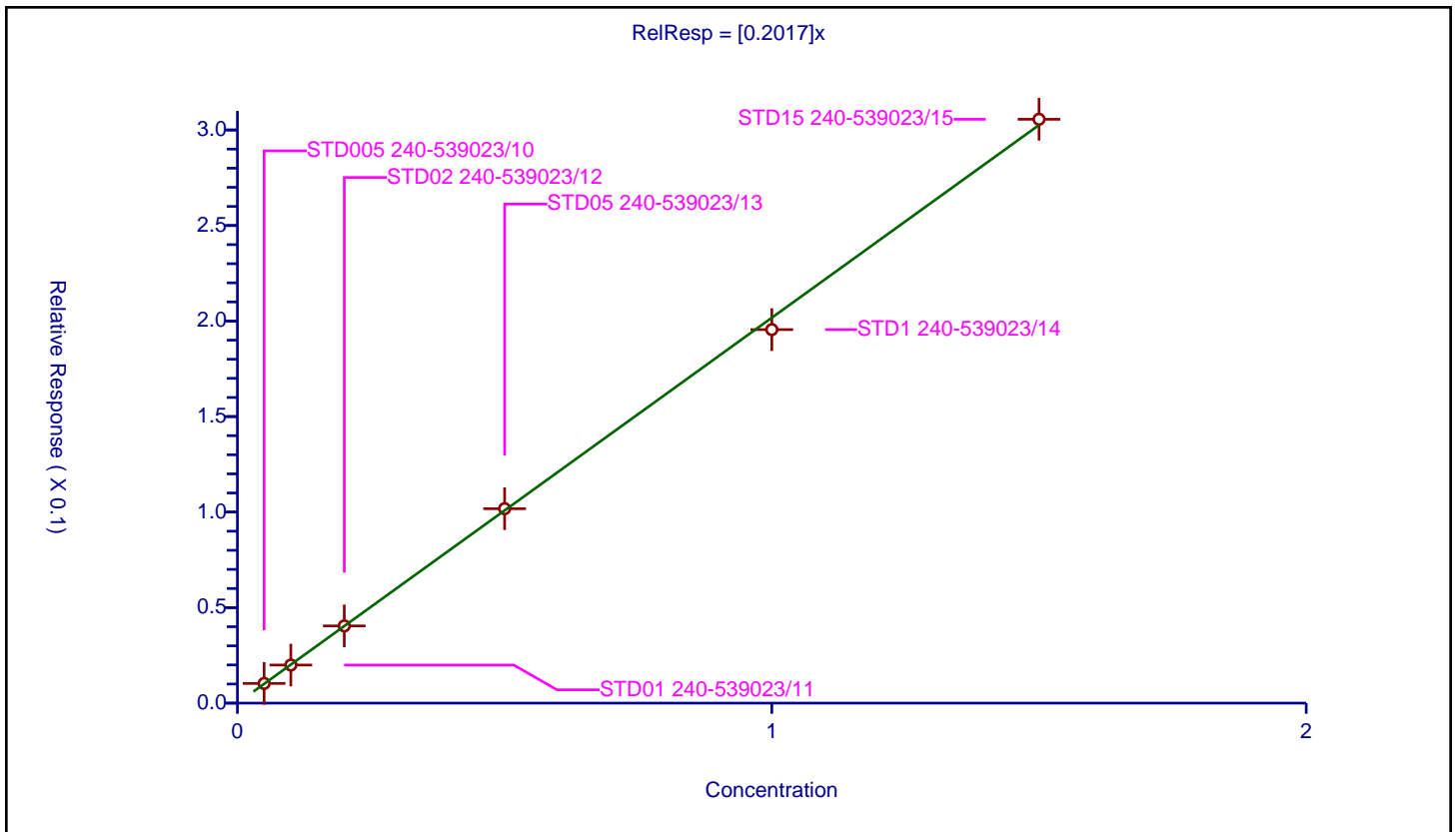
/ PCB-1268 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2017

Error Coefficients	
Standard Error:	114000000
Relative Standard Error:	1.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.010306	0.05	33406408.0	0.206114	Y
2	STD01 240-539023/11	0.1	0.019936	0.05	33048600.0	0.199357	Y
3	STD02 240-539023/12	0.2	0.040417	0.05	33388476.0	0.202084	Y
4	STD05 240-539023/13	0.5	0.101771	0.05	30029793.0	0.203542	Y
5	STD1 240-539023/14	1.0	0.195521	0.05	35022144.0	0.195521	Y
6	STD15 240-539023/15	1.5	0.305613	0.05	33119869.0	0.203742	Y



Calibration

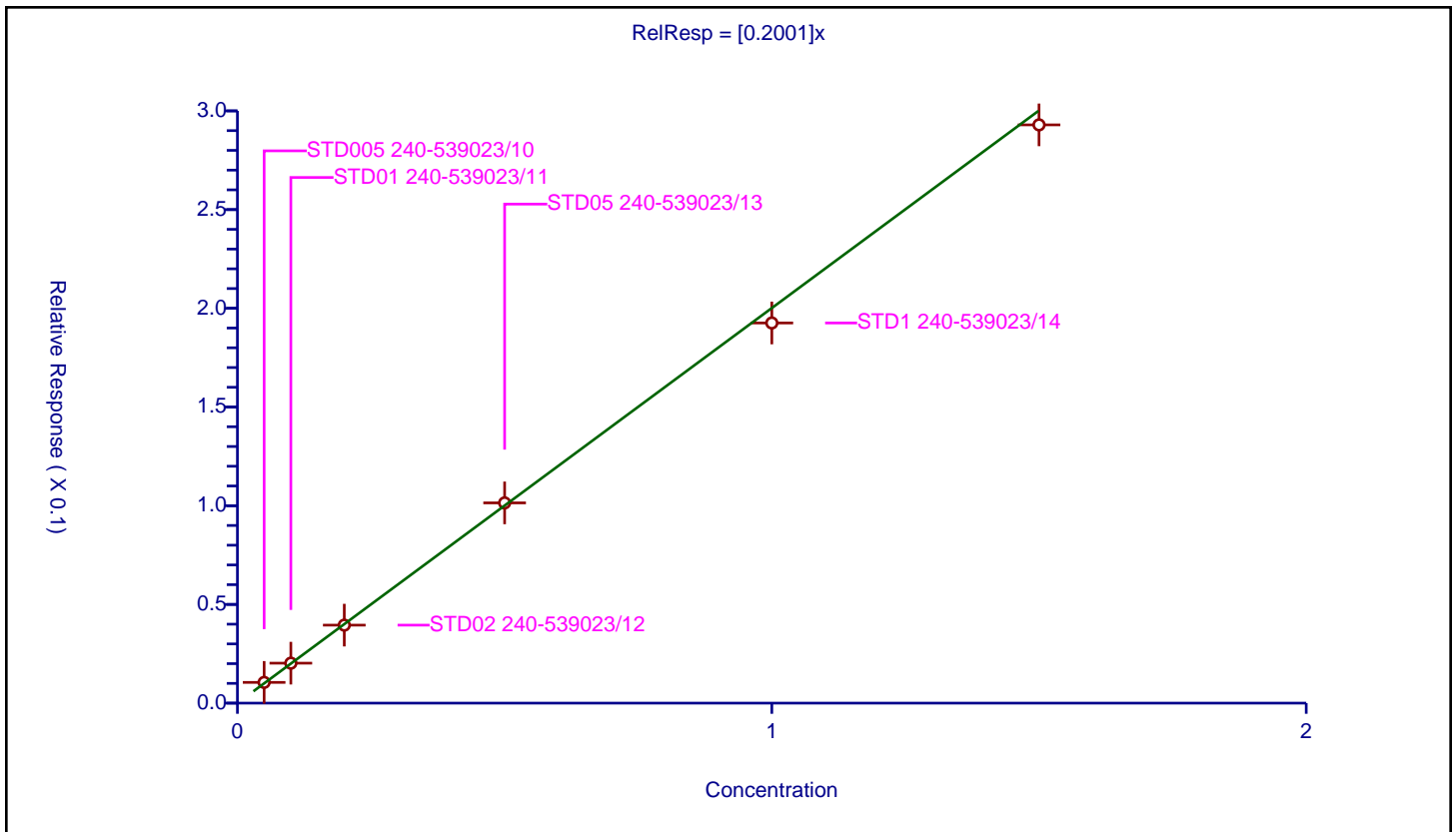
/ PCB-1268 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2001

Error Coefficients	
Standard Error:	110000000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.010506	0.05	33406408.0	0.210118	Y
2	STD01 240-539023/11	0.1	0.020239	0.05	33048600.0	0.202389	Y
3	STD02 240-539023/12	0.2	0.039514	0.05	33388476.0	0.197568	Y
4	STD05 240-539023/13	0.5	0.101428	0.05	30029793.0	0.202856	Y
5	STD1 240-539023/14	1.0	0.192566	0.05	35022144.0	0.192566	Y
6	STD15 240-539023/15	1.5	0.29292	0.05	33119869.0	0.19528	Y



Calibration

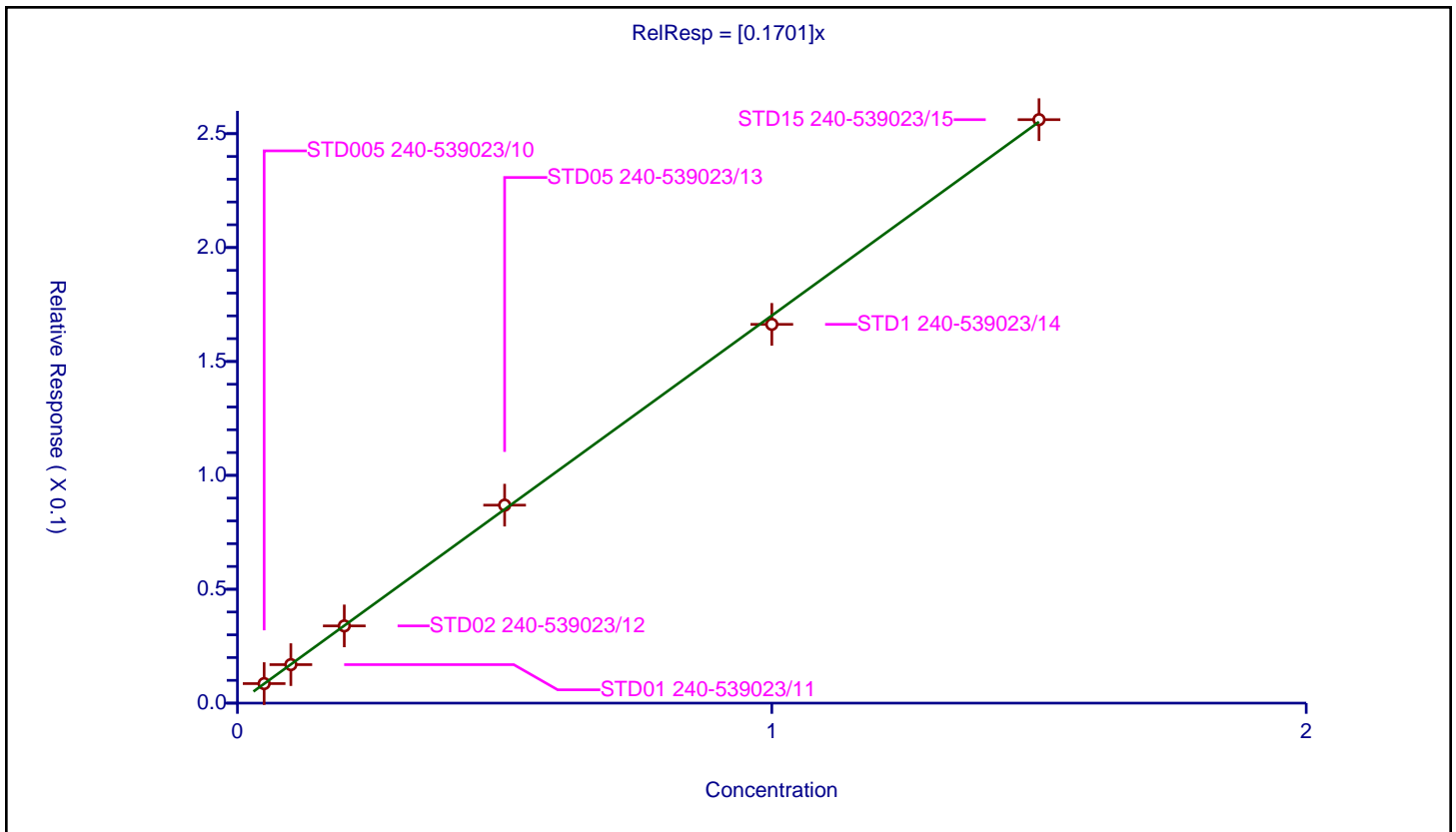
/ PCB-1268 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1701

Error Coefficients	
Standard Error:	95700000
Relative Standard Error:	1.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.008571	0.05	33406408.0	0.171415	Y
2	STD01 240-539023/11	0.1	0.016903	0.05	33048600.0	0.169026	Y
3	STD02 240-539023/12	0.2	0.033899	0.05	33388476.0	0.169494	Y
4	STD05 240-539023/13	0.5	0.086911	0.05	30029793.0	0.173821	Y
5	STD1 240-539023/14	1.0	0.166282	0.05	35022144.0	0.166282	Y
6	STD15 240-539023/15	1.5	0.256156	0.05	33119869.0	0.170771	Y



Calibration

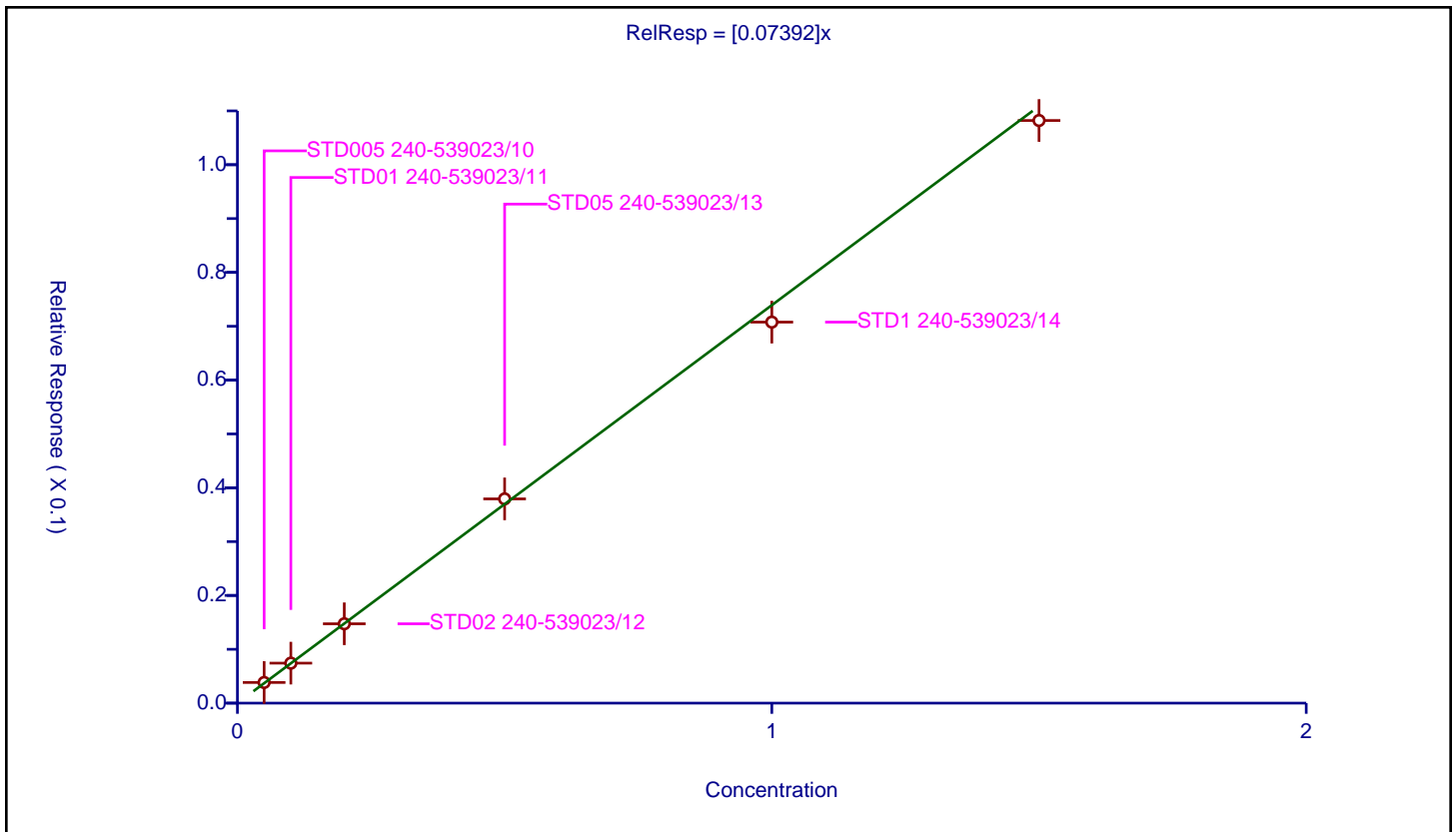
/ PCB-1268 Peak 4

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07392

Error Coefficients	
Standard Error:	40600000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.003838	0.05	33406408.0	0.07675	Y
2	STD01 240-539023/11	0.1	0.007427	0.05	33048600.0	0.07427	Y
3	STD02 240-539023/12	0.2	0.01474	0.05	33388476.0	0.073702	Y
4	STD05 240-539023/13	0.5	0.037936	0.05	30029793.0	0.075872	Y
5	STD1 240-539023/14	1.0	0.070768	0.05	35022144.0	0.070768	Y
6	STD15 240-539023/15	1.5	0.108215	0.05	33119869.0	0.072143	Y



Calibration

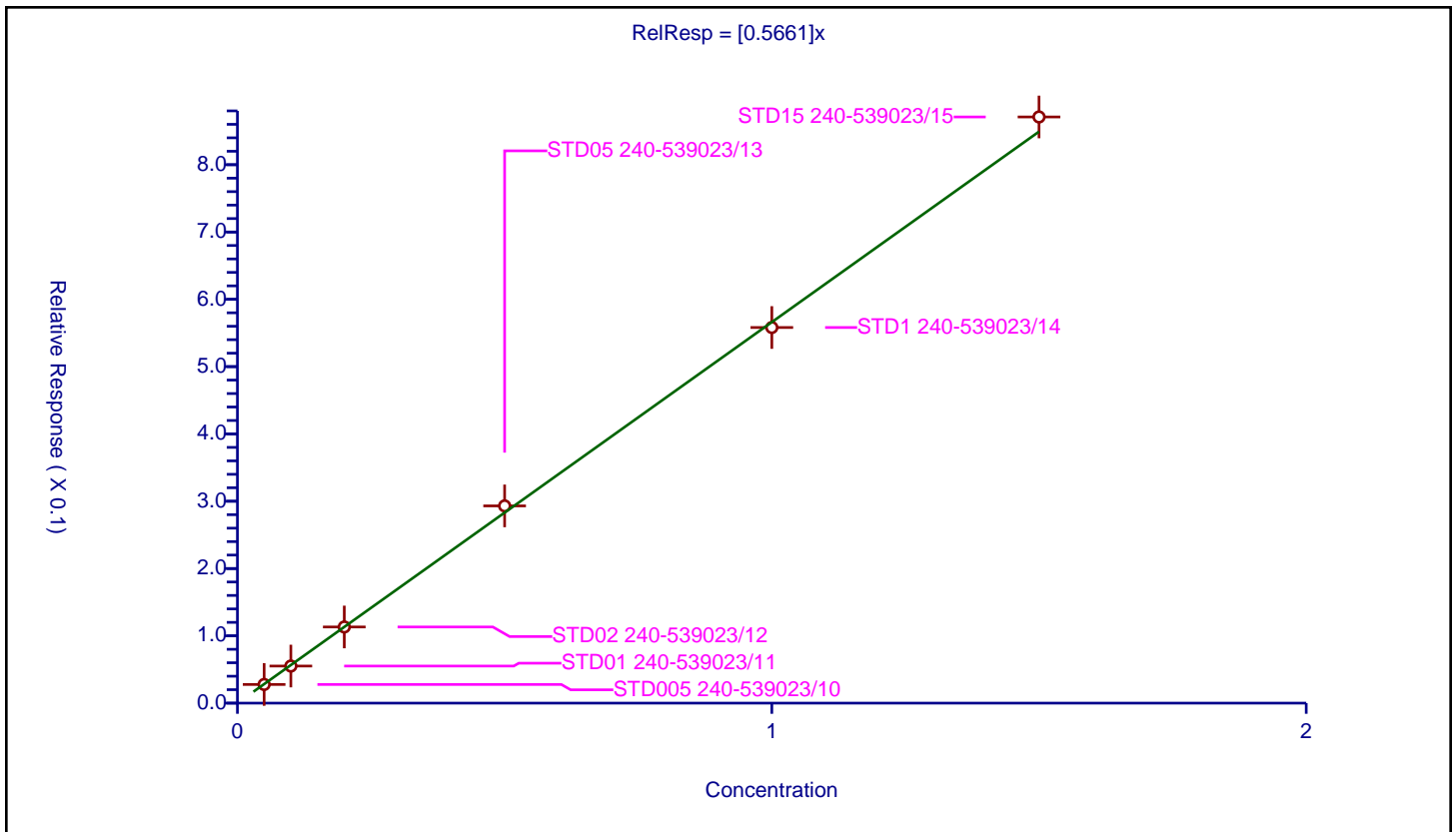
/ PCB-1268 Peak 5

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5661

Error Coefficients	
Standard Error:	324000000
Relative Standard Error:	2.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.027741	0.05	33406408.0	0.554816	Y
2	STD01 240-539023/11	0.1	0.055114	0.05	33048600.0	0.551145	Y
3	STD02 240-539023/12	0.2	0.113176	0.05	33388476.0	0.565878	Y
4	STD05 240-539023/13	0.5	0.293053	0.05	30029793.0	0.586106	Y
5	STD1 240-539023/14	1.0	0.558132	0.05	35022144.0	0.558132	Y
6	STD15 240-539023/15	1.5	0.870982	0.05	33119869.0	0.580655	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 12:04 Calibration End Date: 08/16/2022 13:32 Calibration ID: 67237

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/10	P4081610.D
Level 2	STD01 240-539023/11	P4081611.D
Level 3	STD02 240-539023/12	P4081612.D
Level 4	STD05 240-539023/13	P4081613.D
Level 5	STD1 240-539023/14	P4081614.D
Level 6	STD15 240-539023/15	P4081615.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0165 0.0132	0.0158	0.0153	0.0144	0.0136	Ave		0.014 8			8.9		20.0				
PCB-1242 Peak 2	0.0300 0.0247	0.0296	0.0284	0.0267	0.0254	Ave		0.027 5			8.0		20.0				
PCB-1242 Peak 3	0.0643 0.0556	0.0608	0.0602	0.0570	0.0561	Ave		0.059 0			5.7		20.0				
PCB-1242 Peak 4	0.0251 0.0222	0.0257	0.0251	0.0237	0.0223	Ave		0.024 0			6.4		20.0				
PCB-1242 Peak 5	0.0170 0.0124	0.0142	0.0142	0.0130	0.0124	Ave		0.013 9			12.5		20.0				
PCB-1268 Peak 1	0.1661 0.1503	0.1572	0.1553	0.1548	0.1465	Ave		0.155 0			4.3		20.0				
PCB-1268 Peak 2	0.1610 0.1458	0.1533	0.1503	0.1520	0.1423	Ave		0.150 8			4.3		20.0				
PCB-1268 Peak 3	0.1416 0.1289	0.1354	0.1335	0.1341	0.1258	Ave		0.133 2			4.1		20.0				
PCB-1268 Peak 4	0.0632 0.0545	0.0601	0.0586	0.0590	0.0534	Ave		0.058 1			6.3		20.0				
PCB-1268 Peak 5	0.4270 0.4210	0.4134	0.4132	0.4296	0.4043	Ave		0.418 1			2.3		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 12:04 Calibration End Date: 08/16/2022 13:32 Calibration ID: 67237

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/10	P4081610.D
Level 2	STD01 240-539023/11	P4081611.D
Level 3	STD02 240-539023/12	P4081612.D
Level 4	STD05 240-539023/13	P4081613.D
Level 5	STD1 240-539023/14	P4081614.D
Level 6	STD15 240-539023/15	P4081615.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	771156 18494834	1466016	2883378	6046096	13309376	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	1399204 34690191	2742963	5354960	11247733	24887157	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	2996740 78003444	5632307	11355314	24023871	55046851	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	1169120 31063160	2384311	4728859	10000928	21863056	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	791408 17317499	1317035	2672015	5460736	12190173	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	7743182 210738592	14569325	29271677	65183326	143678184	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	7501010 204391594	14199630	28336935	64005704	139616030	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	6599425 180718183	12547784	25175245	56477855	123351153	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	2944640 76390545	5570331	11053227	24853748	52384595	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	19901055 590257527	38302900	77894164	180934339	396578387	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081610.D
 Lims ID: std005 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 12:04:29 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-010
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:55 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	33406408	0.0500	0.0500	
2	2.026	2.020	0.005	46604457	0.0500	0.0500	
5 PCB-1242							
1	3.417	3.417	0.000	609592	0.0500	0.0572	
1	3.993	3.993	0.000	1165465	0.0500	0.0577	
1	4.660	4.660	0.000	2356279	0.0500	0.0534	
1	4.834	4.834	0.000	1014039	0.0500	0.0533	
1	5.153	5.153	0.000	438771	0.0500	0.0559	
Average of Peak Amounts =						0.0555	
2	4.355	4.355	0.000	771156	0.0500	0.0559	
2	4.952	4.952	0.000	1399204	0.0500	0.0546	
2	5.540	5.540	0.000	2996740	0.0500	0.0545	
2	5.707	5.707	0.000	1169120	0.0500	0.0522	
2	6.005	6.005	0.000	791408	0.0500	0.0613	
Average of Peak Amounts =						0.0557	
						RPD = 0.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

11 PCB-1268

1	8.248	8.248	0.000	6885529	0.0500	0.0511	
1	8.282	8.282	0.000	7019282	0.0500	0.0525	
1	8.457	8.457	0.000	5726351	0.0500	0.0504	
1	8.772	8.772	0.000	2563954	0.0500	0.0519	
1	9.018	9.018	0.000	18534424	0.0500	0.0490	

Average of Peak Amounts = 0.0510

2	9.053	9.053	0.000	7743182	0.0500	0.0536	
2	9.093	9.093	0.000	7501010	0.0500	0.0534	
2	9.312	9.312	0.000	6599425	0.0500	0.0531	
2	9.548	9.548	0.000	2944640	0.0500	0.0543	
2	9.820	9.820	0.000	19901055	0.0500	0.0511	

Average of Peak Amounts = 0.0531

RPD = 4.09

QC Flag Legend

Processing Flags

Reagents:

SG4268@.05PPM_00023

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081610.D

Injection Date: 16-Aug-2022 12:04:29

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1242 1268

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

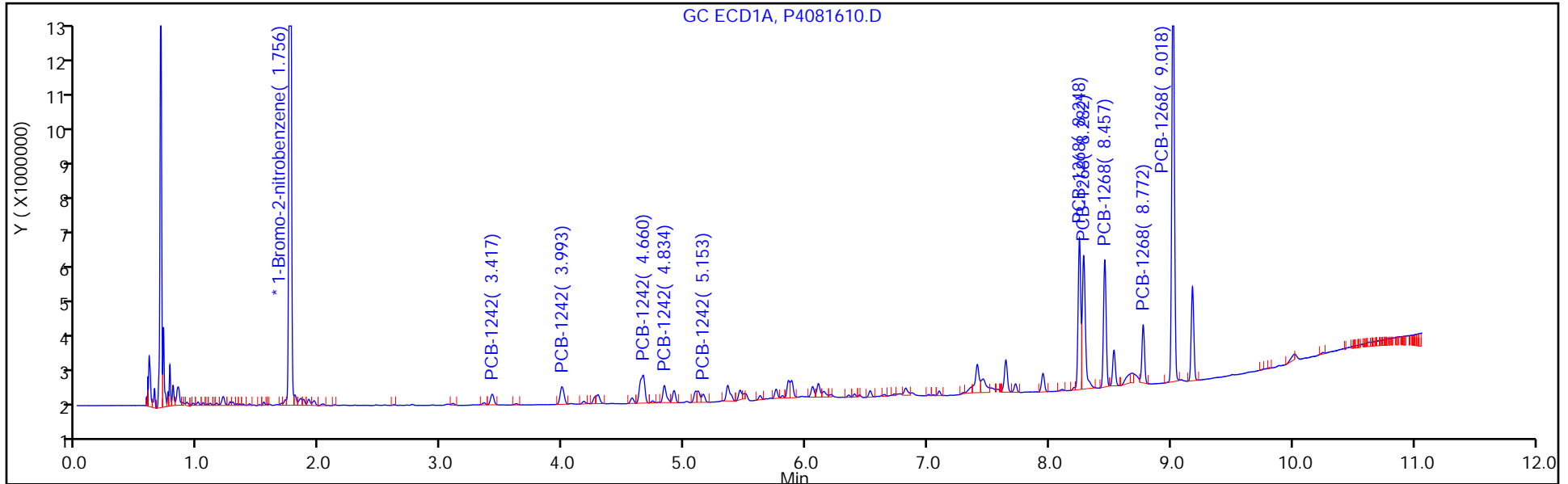
ALS Bottle#: 10

Method: PCB4 is

Limit Group: GC 8082A IS

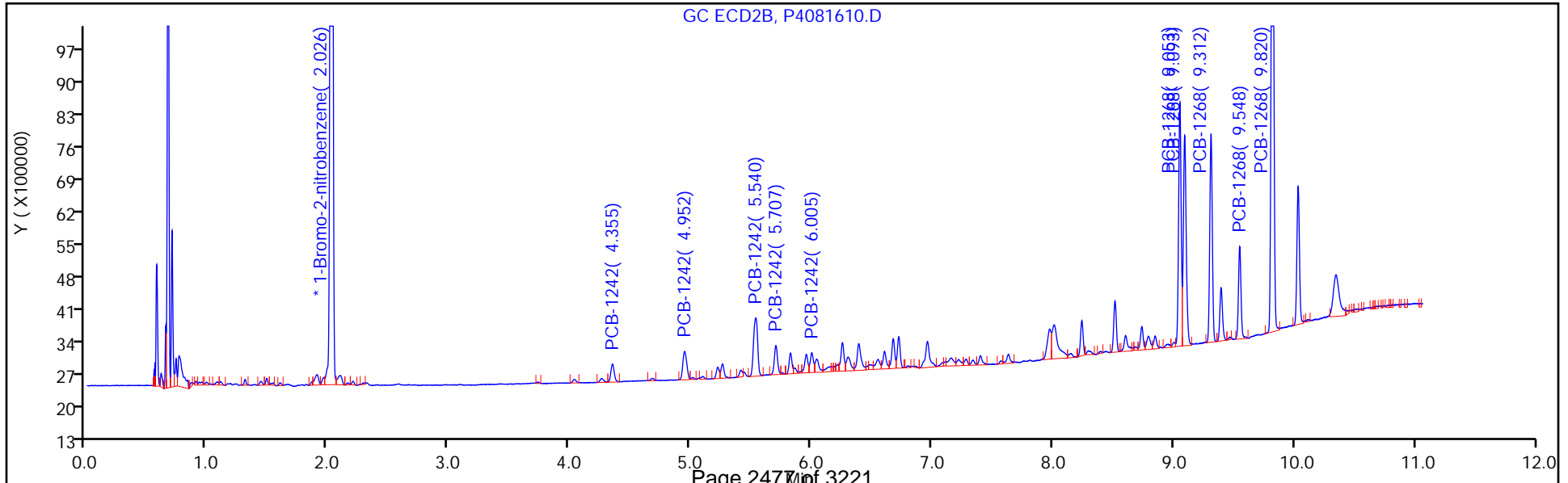
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081611.D
 Lims ID: std01 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 12:22:01 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-011
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:10:58 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	33048600	0.0500	0.0500	
2	2.027	2.020	0.007	46327488	0.0500	0.0500	

5 PCB-1242

1	3.419	3.417	0.002	1120308	0.1000	0.1062	
1	3.992	3.993	-0.001	2153408	0.1000	0.1077	
1	4.659	4.660	-0.001	4524141	0.1000	0.1037	
1	4.835	4.834	0.001	2005466	0.1000	0.1065	
1	5.156	5.153	0.003	824874	0.1000	0.1062	

Average of Peak Amounts = 0.1060

2	4.354	4.355	-0.001	1466016	0.1000	0.1069	
2	4.951	4.952	-0.001	2742963	0.1000	0.1077	
2	5.544	5.540	0.004	5632307	0.1000	0.1030	
2	5.711	5.707	0.004	2384311	0.1000	0.1072	
2	6.007	6.005	0.002	1317035	0.1000	0.1026	

Average of Peak Amounts = 0.1055

RPD = 0.52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.248	8.248	0.000	13176958	0.1000	0.0988	
1	8.283	8.282	0.001	13377378	0.1000	0.1011	
1	8.456	8.457	-0.001	11172115	0.1000	0.0993	
1	8.771	8.772	-0.001	4909026	0.1000	0.1005	
1	9.016	9.018	-0.002	36429141	0.1000	0.0974	

Average of Peak Amounts = 0.0994

2	9.051	9.053	-0.002	14569325	0.1000	0.1014	
2	9.091	9.093	-0.002	14199630	0.1000	0.1016	
2	9.309	9.312	-0.003	12547784	0.1000	0.1017	
2	9.546	9.548	-0.002	5570331	0.1000	0.1034	
2	9.816	9.820	-0.004	38302900	0.1000	0.0989	

Average of Peak Amounts = 0.1014

RPD = 1.97

QC Flag Legend

Processing Flags

Reagents:

SG4268@.1PPM_00024

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:00

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081611.D

Injection Date: 16-Aug-2022 12:22:01

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1242 1268

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

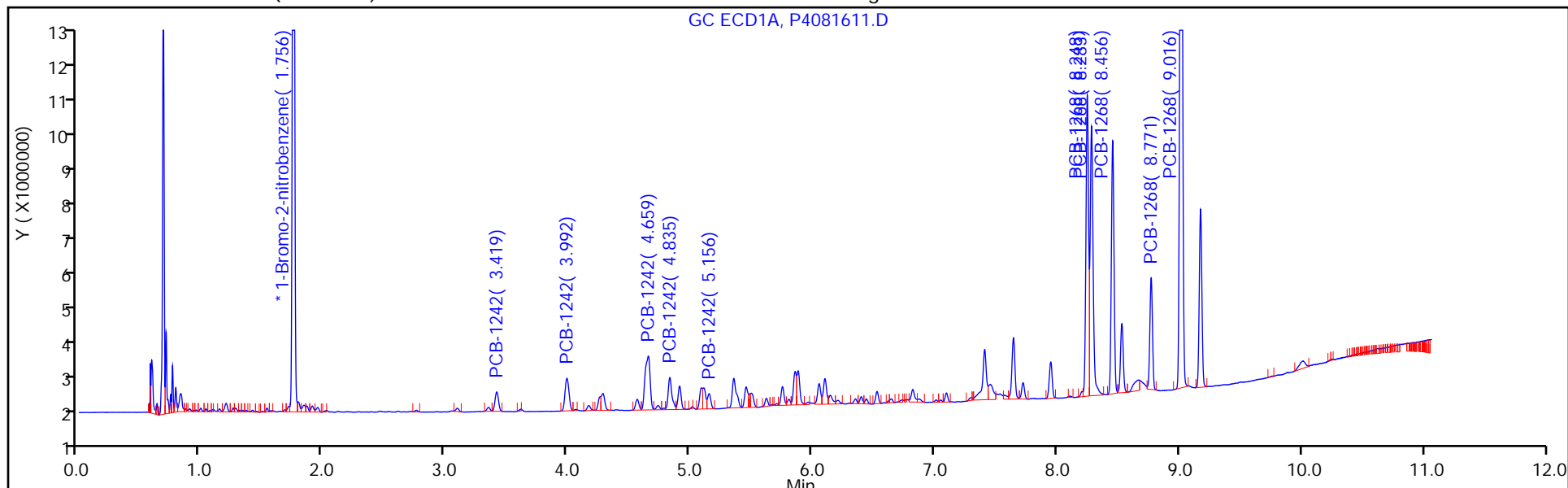
ALS Bottle#: 11

Method: PCB4 is

Limit Group: GC 8082A IS

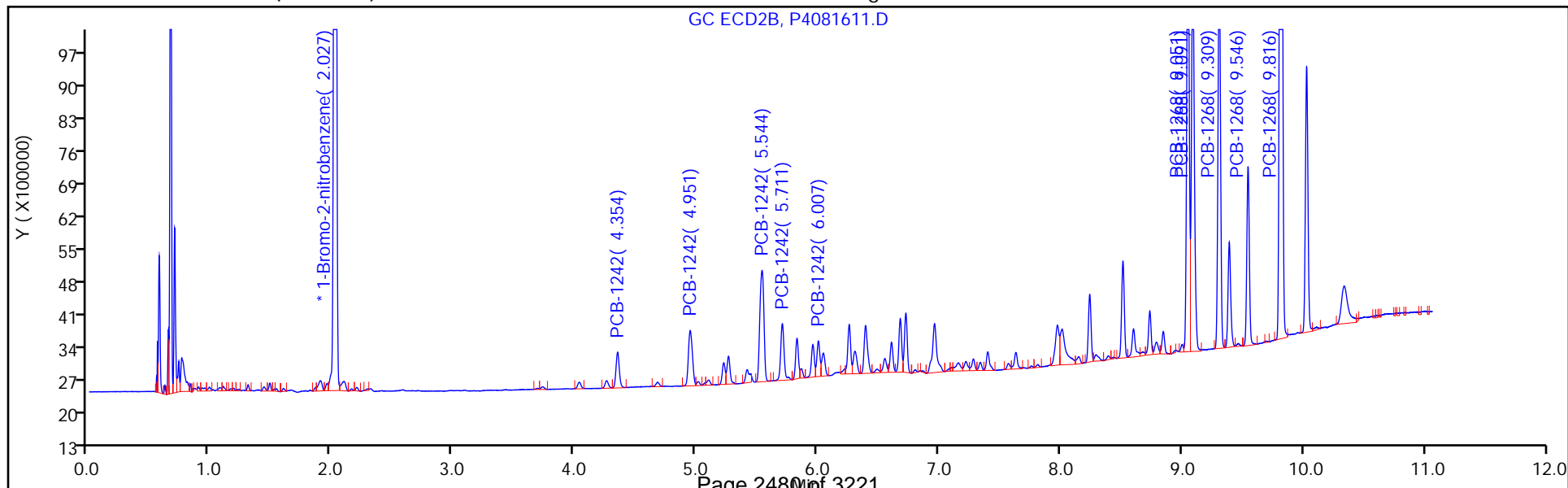
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D
 Lims ID: std02 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 12:39:40 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-012
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:02 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:55:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.759	1.751	0.008	33388476	0.0500	0.0500	
2	2.030	2.020	0.009	47133849	0.0500	0.0500	
5 PCB-1242							
1	3.422	3.417	0.005	2220282	0.2000	0.2083	
1	3.994	3.993	0.001	4182129	0.2000	0.2070	
1	4.661	4.660	0.001	8869400	0.2000	0.2013	
1	4.836	4.834	0.002	3926231	0.2000	0.2063	
1	5.156	5.153	0.003	1636087	0.2000	0.2084	
Average of Peak Amounts =						0.2063	
2	4.356	4.355	0.001	2883378	0.2000	0.2067	
2	4.953	4.952	0.001	5354960	0.2000	0.2068	
2	5.545	5.540	0.005	11355314	0.2000	0.2041	
2	5.711	5.707	0.004	4728859	0.2000	0.2089	
2	6.008	6.005	0.003	2672015	0.2000	0.2046	
Average of Peak Amounts =						0.2062	
RPD =						0.02	

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.250	8.248	0.002	26989074	0.2000	0.2004	
1	8.284	8.282	0.002	26385932	0.2000	0.1974	
1	8.457	8.457	0.000	22636608	0.2000	0.1992	
1	8.771	8.772	-0.001	9843224	0.2000	0.1994	
1	9.016	9.018	-0.002	75575244	0.2000	0.1999	
Average of Peak Amounts =						0.1993	
2	9.052	9.053	-0.001	29271677	0.2000	0.2003	
2	9.092	9.093	-0.001	28336935	0.2000	0.1994	
2	9.310	9.312	-0.002	25175245	0.2000	0.2005	
2	9.547	9.548	-0.001	11053227	0.2000	0.2017	
2	9.819	9.820	-0.001	77894164	0.2000	0.1976	
Average of Peak Amounts =						0.1999	

RPD = 0.31

QC Flag Legend

Processing Flags

Reagents:

SG4268@.2PPM_00023

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:04

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081612.D

Injection Date: 16-Aug-2022 12:39:40

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1242 1268

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

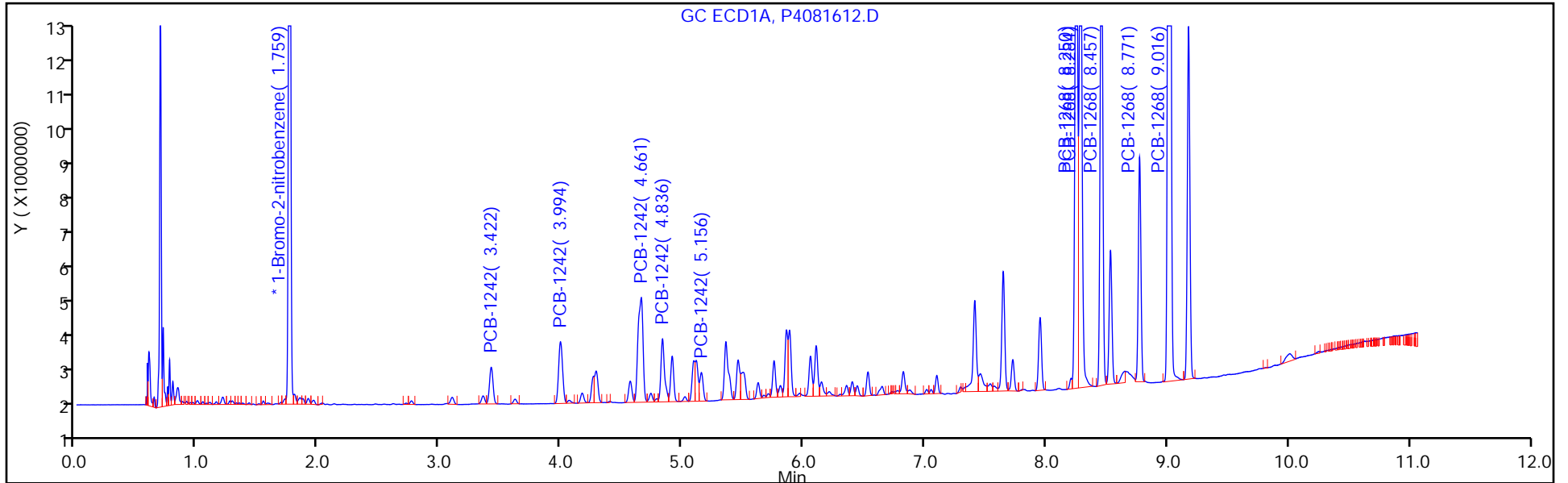
ALS Bottle#: 12

Method: PCB4 is

Limit Group: GC 8082A IS

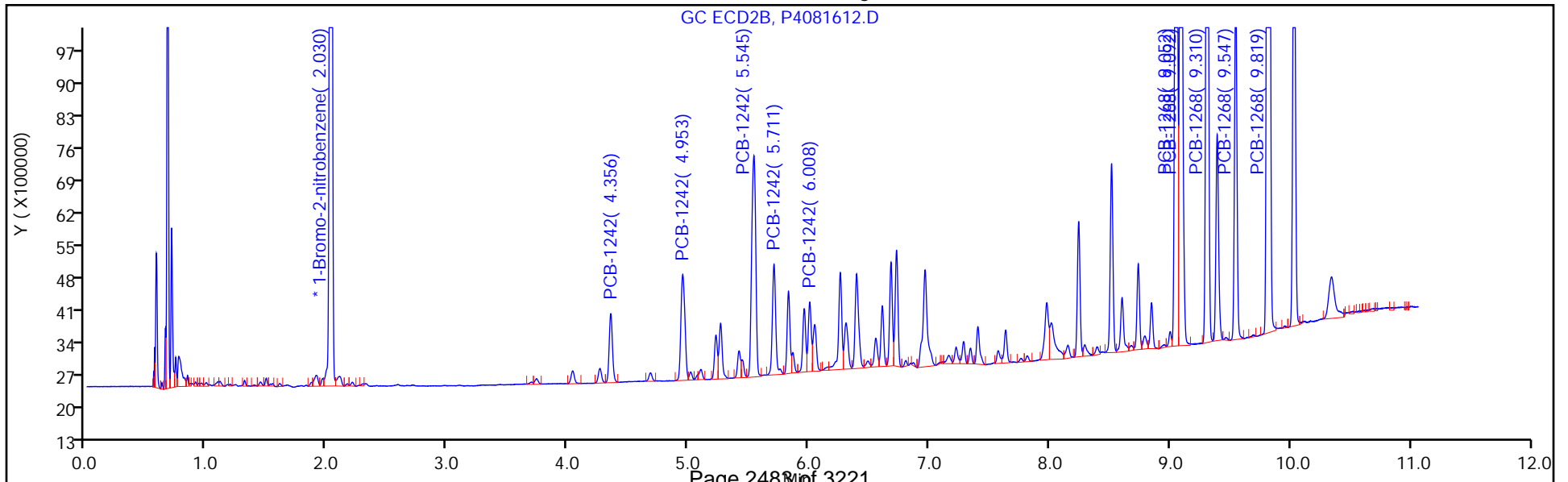
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081613.D
 Lims ID: std05 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 12:57:26 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-013
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:06 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	30029793	0.0500	0.0500	
2	2.026	2.020	0.006	42112713	0.0500	0.0500	

5 PCB-1242

1	3.419	3.417	0.002	4656697	0.5000	0.4857	
1	3.992	3.993	-0.001	8667536	0.5000	0.4770	
1	4.658	4.660	-0.002	19178075	0.5000	0.4839	
1	4.834	4.834	0.000	8318045	0.5000	0.4860	
1	5.156	5.153	0.003	3423915	0.5000	0.4850	

Average of Peak Amounts = 0.4835

2	4.354	4.355	-0.001	6046096	0.5000	0.4851	
2	4.952	4.952	0.000	11247733	0.5000	0.4860	
2	5.543	5.540	0.003	24023871	0.5000	0.4833	
2	5.710	5.707	0.003	10000928	0.5000	0.4944	
2	6.006	6.005	0.001	5460736	0.5000	0.4680	

Average of Peak Amounts = 0.4834

RPD = 0.03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.248	8.248	0.000	61123306	0.5000	0.5045	
1	8.284	8.282	0.002	60917351	0.5000	0.5068	
1	8.456	8.457	-0.001	52198104	0.5000	0.5108	
1	8.771	8.772	-0.001	22784105	0.5000	0.5132	
1	9.016	9.018	-0.002	176006290	0.5000	0.5176	
Average of Peak Amounts =						0.5106	
2	9.051	9.053	-0.002	65183326	0.5000	0.4992	
2	9.091	9.093	-0.002	64005704	0.5000	0.5040	
2	9.309	9.312	-0.003	56477855	0.5000	0.5033	
2	9.546	9.548	-0.002	24853748	0.5000	0.5075	
2	9.817	9.820	-0.003	180934339	0.5000	0.5138	
Average of Peak Amounts =						0.5056	
						RPD =	0.99

QC Flag Legend

Processing Flags

Reagents:

SG4268@0.5PPM_00054

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:08

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081613.D

Injection Date: 16-Aug-2022 12:57:26

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1242 1268

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

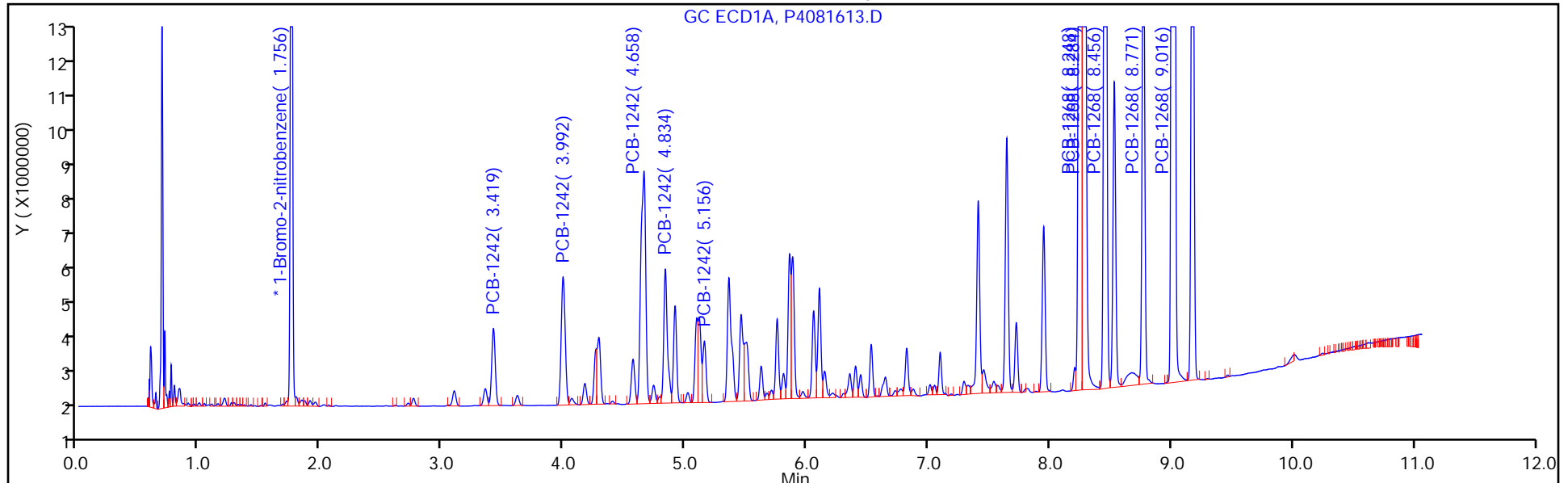
ALS Bottle#: 13

Method: PCB4 is

Limit Group: GC 8082A IS

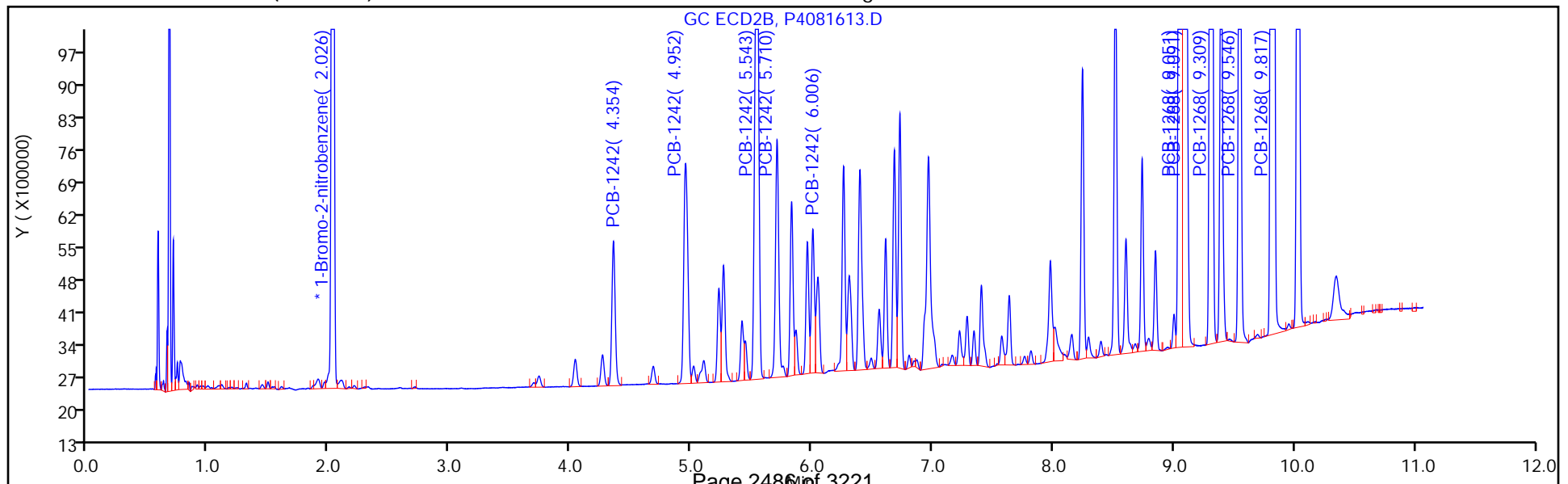
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081614.D
 Lims ID: std1 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 13:15:12 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-014
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:10 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	35022144	0.0500	0.0500	
2	2.027	2.020	0.006	49042730	0.0500	0.0500	

5 PCB-1242

1	3.419	3.417	0.002	10103333	1.00	0.9035	
1	3.993	3.993	0.000	19090776	1.00	0.9008	
1	4.657	4.660	-0.003	44396685	1.00	0.9605	
1	4.833	4.834	-0.001	18731874	1.00	0.9384	
1	5.153	5.153	0.000	7528281	1.00	0.9144	

Average of Peak Amounts = 0.9235

2	4.353	4.355	-0.002	13309376	1.00	0.9170	
2	4.950	4.952	-0.002	24887157	1.00	0.9235	
2	5.540	5.540	0.000	55046851	1.00	0.9509	
2	5.707	5.707	0.000	21863056	1.00	0.9281	
2	6.004	6.005	-0.001	12190173	1.00	0.8972	

Average of Peak Amounts = 0.9233

RPD = 0.02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.247	8.248	-0.001	136951641	1.00	0.9692	
1	8.282	8.282	0.000	134881375	1.00	0.9622	
1	8.455	8.457	-0.002	116470693	1.00	0.9774	
1	8.768	8.772	-0.004	49568637	1.00	0.9574	
1	9.014	9.018	-0.004	390939239	1.00	0.9859	
Average of Peak Amounts =						0.9704	
2	9.050	9.053	-0.003	143678184	1.00	0.9448	
2	9.090	9.093	-0.003	139616030	1.00	0.9441	
2	9.308	9.312	-0.004	123351153	1.00	0.9440	
2	9.545	9.548	-0.003	52384595	1.00	0.9186	
2	9.817	9.820	-0.003	396578387	1.00	0.9671	
Average of Peak Amounts =						0.9437	

RPD = 2.79

QC Flag Legend

Processing Flags

Reagents:

SG42/68@1.0PP_00042

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:12

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081614.D

Injection Date: 16-Aug-2022 13:15:12

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1242 1268

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

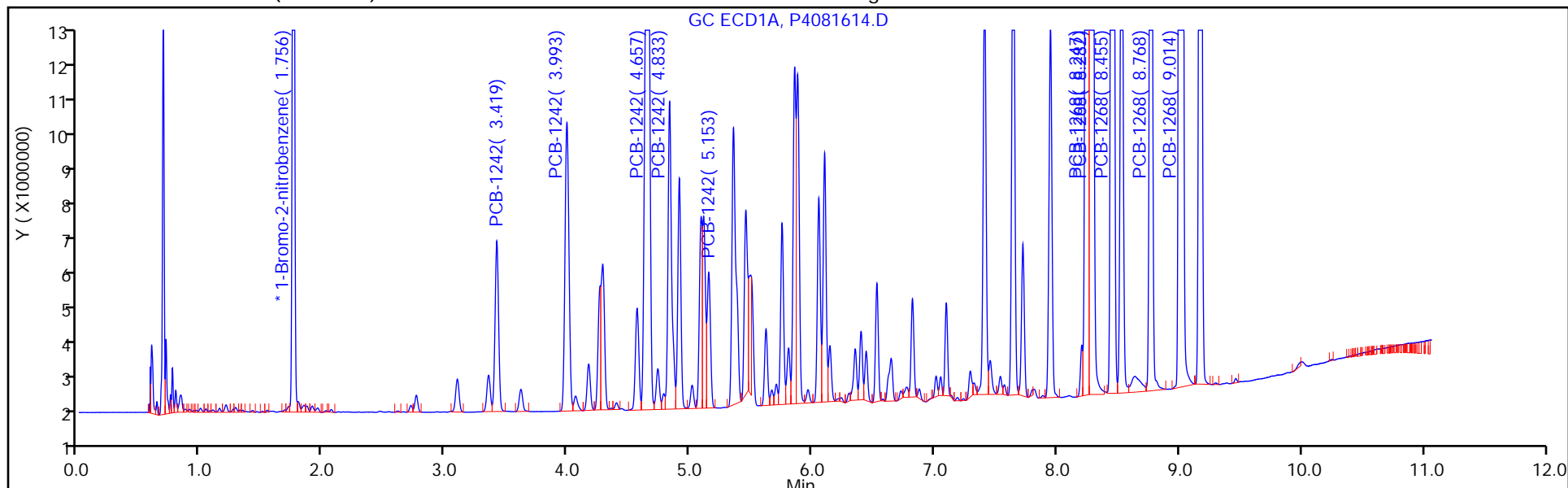
ALS Bottle#: 14

Method: PCB4 is

Limit Group: GC 8082A IS

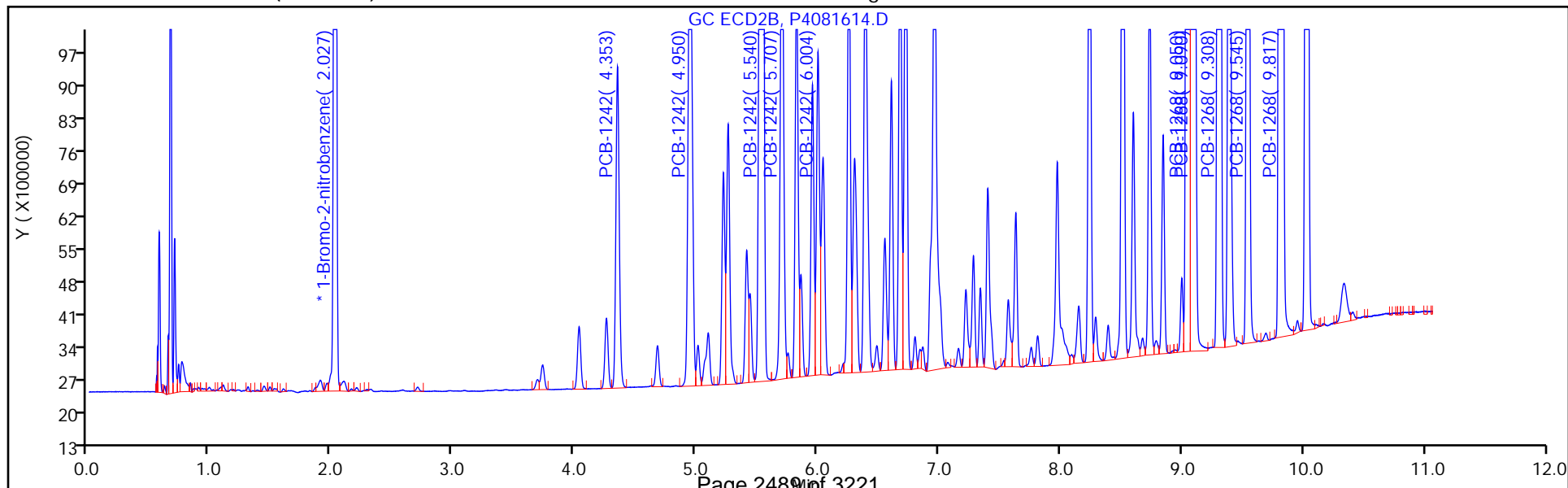
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081615.D
 Lims ID: std15 1242 1268
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 13:32:45 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-015
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:14 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:56:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene
 1 1.757 1.751 0.006 33119869 0.0500 0.0500
 2 2.027 2.020 0.007 46737370 0.0500 0.0500

5 PCB-1242
 1 3.422 3.417 0.005 13944650 1.50 1.32
 1 3.996 3.993 0.003 26467438 1.50 1.32
 1 4.662 4.660 0.002 62882433 1.50 1.44
 1 4.836 4.834 0.002 26283944 1.50 1.39
 1 5.157 5.153 0.004 10441827 1.50 1.34
 Average of Peak Amounts = 1.36
 2 4.356 4.355 0.001 18494834 1.50 1.34
 2 4.952 4.952 0.000 34690191 1.50 1.35
 2 5.545 5.540 0.005 78003444 1.50 1.41
 2 5.710 5.707 0.003 31063160 1.50 1.38
 2 6.007 6.005 0.002 17317499 1.50 1.34
 Average of Peak Amounts = 1.36

RPD = 0.17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.249	8.248	0.001	202437314	1.50	1.51	
1	8.285	8.282	0.003	194029282	1.50	1.46	
1	8.458	8.457	0.001	169677215	1.50	1.51	
1	8.772	8.772	0.000	71681069	1.50	1.46	
1	9.017	9.018	-0.001	576936337	1.50	1.54	

Average of Peak Amounts = 1.50

2	9.052	9.053	-0.001	210738592	1.50	1.45	
2	9.091	9.093	-0.002	204391594	1.50	1.45	
2	9.308	9.312	-0.004	180718183	1.50	1.45	
2	9.545	9.548	-0.003	76390545	1.50	1.41	
2	9.817	9.820	-0.003	590257527	1.50	1.51	

Average of Peak Amounts = 1.45

RPD = 2.91

QC Flag Legend

Processing Flags

Reagents:

SG4268@1.5PPM_00014

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:15

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081615.D

Injection Date: 16-Aug-2022 13:32:45

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1242 1268

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

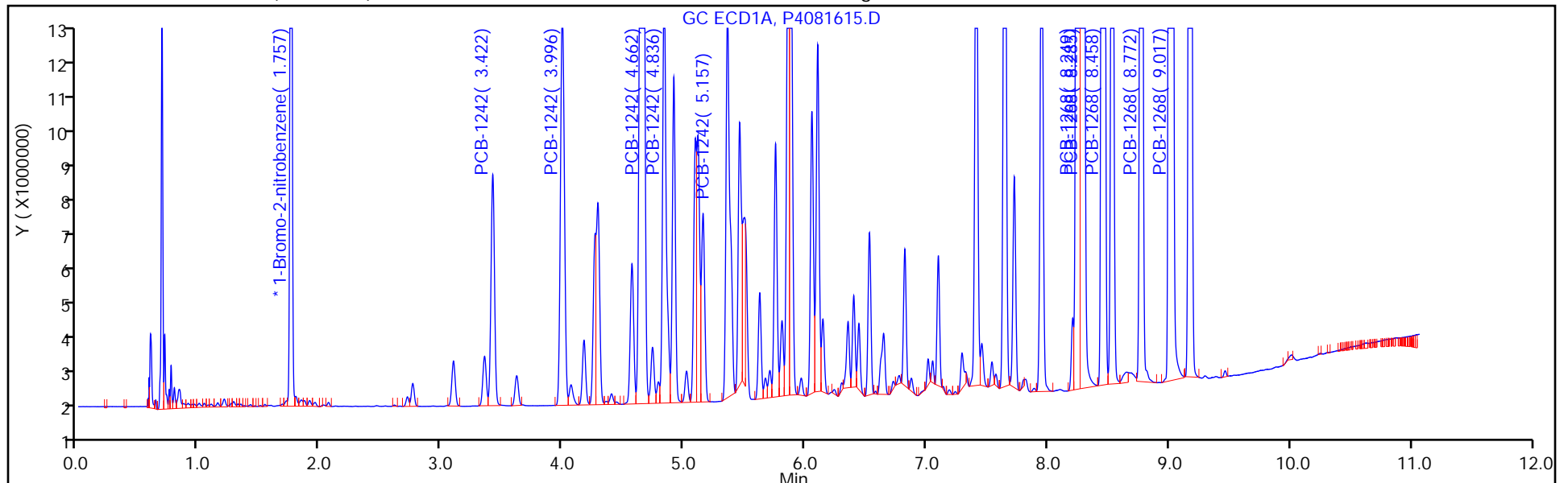
ALS Bottle#: 15

Method: PCB4 is

Limit Group: GC 8082A IS

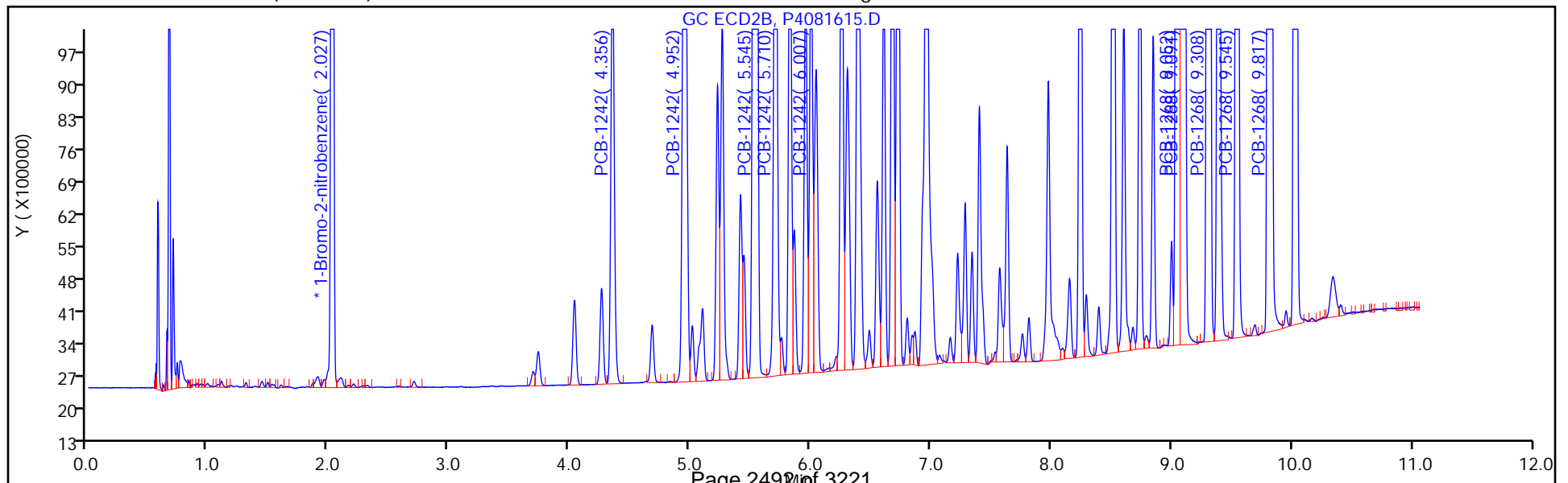
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

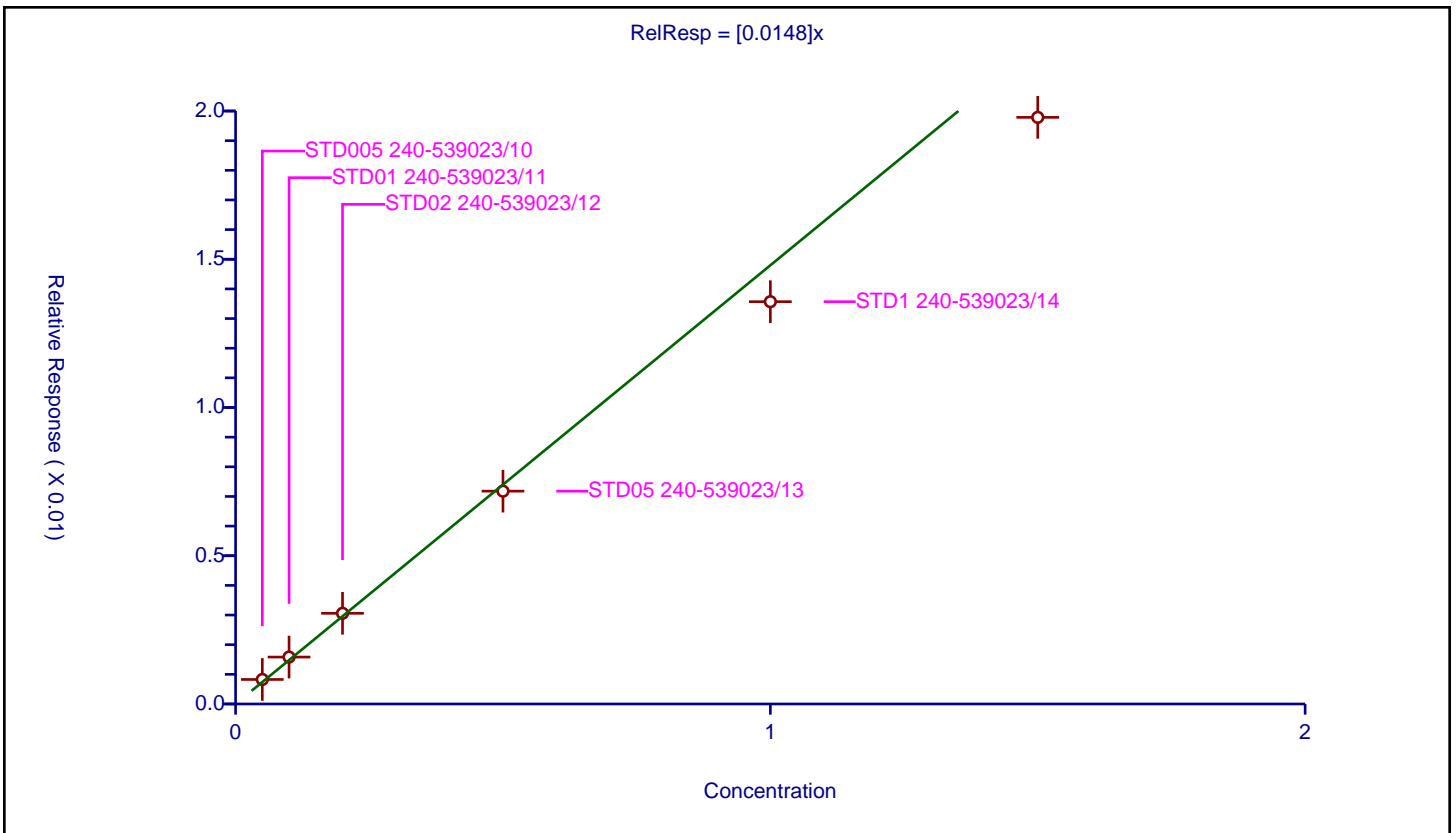
/ PCB-1242 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0148

Error Coefficients	
Standard Error:	10600000
Relative Standard Error:	8.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.000827	0.05	46604457.0	0.016547	Y
2	STD01 240-539023/11	0.1	0.001582	0.05	46327488.0	0.015822	Y
3	STD02 240-539023/12	0.2	0.003059	0.05	47133849.0	0.015294	Y
4	STD05 240-539023/13	0.5	0.007178	0.05	42112713.0	0.014357	Y
5	STD1 240-539023/14	1.0	0.013569	0.05	49042730.0	0.013569	Y
6	STD15 240-539023/15	1.5	0.019786	0.05	46737370.0	0.013191	Y



Calibration

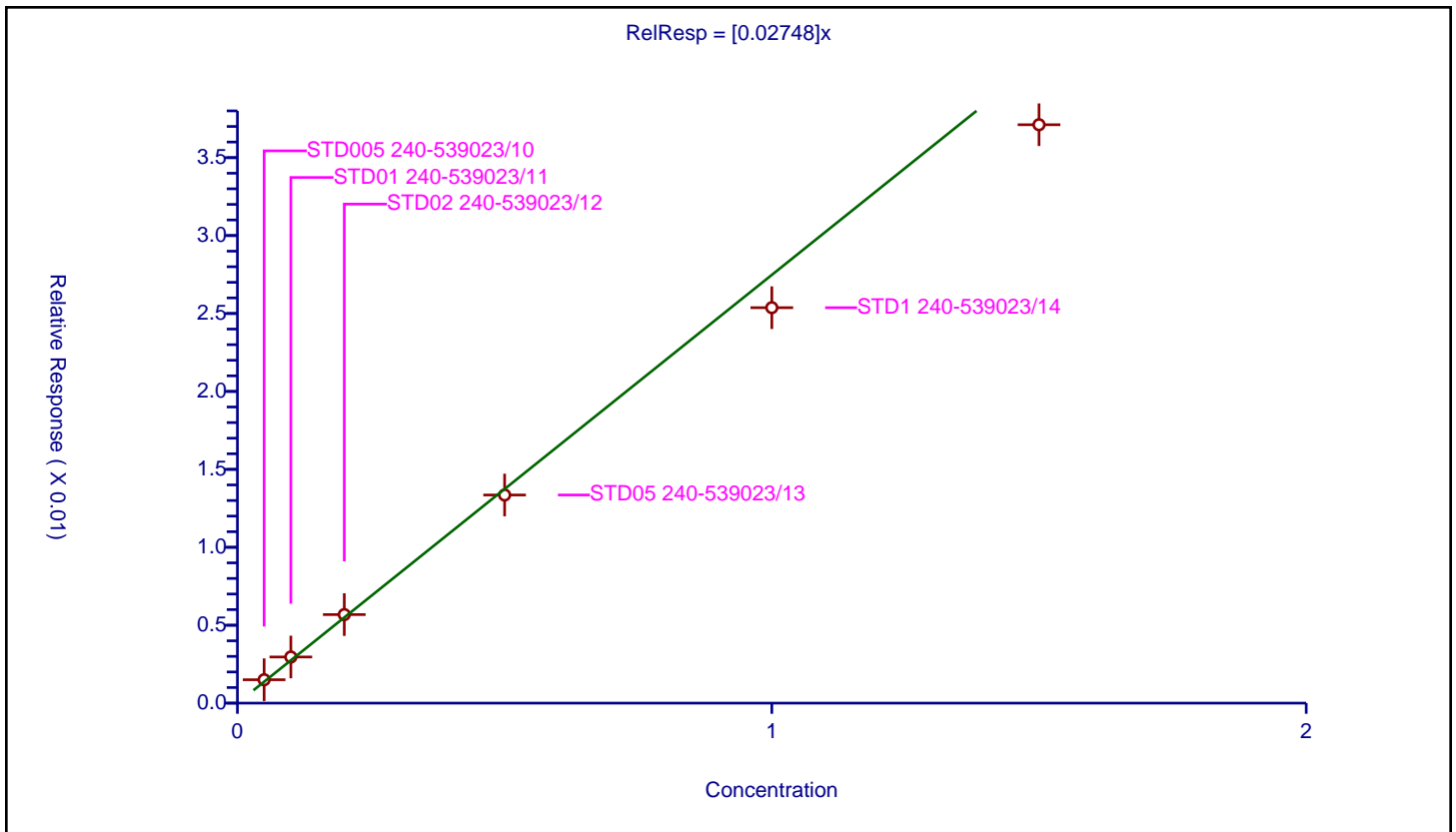
/ PCB-1242 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02748

Error Coefficients	
Standard Error:	19900000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.001501	0.05	46604457.0	0.030023	Y
2	STD01 240-539023/11	0.1	0.00296	0.05	46327488.0	0.029604	Y
3	STD02 240-539023/12	0.2	0.005681	0.05	47133849.0	0.028403	Y
4	STD05 240-539023/13	0.5	0.013354	0.05	42112713.0	0.026709	Y
5	STD1 240-539023/14	1.0	0.025373	0.05	49042730.0	0.025373	Y
6	STD15 240-539023/15	1.5	0.037112	0.05	46737370.0	0.024741	Y



Calibration

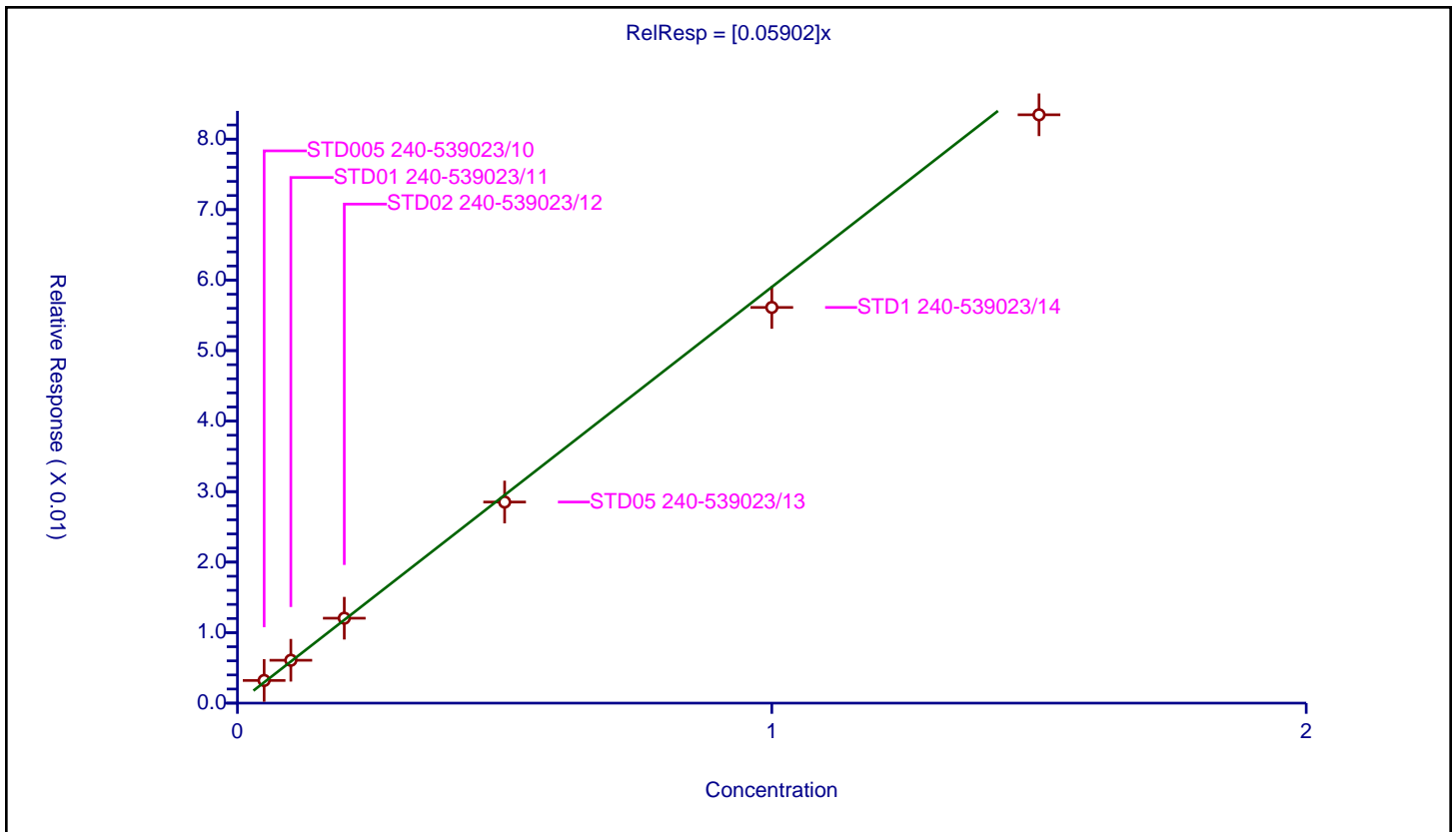
/ PCB-1242 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05902

Error Coefficients	
Standard Error:	44400000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.003215	0.05	46604457.0	0.064302	Y
2	STD01 240-539023/11	0.1	0.006079	0.05	46327488.0	0.060788	Y
3	STD02 240-539023/12	0.2	0.012046	0.05	47133849.0	0.060229	Y
4	STD05 240-539023/13	0.5	0.028523	0.05	42112713.0	0.057047	Y
5	STD1 240-539023/14	1.0	0.056121	0.05	49042730.0	0.056121	Y
6	STD15 240-539023/15	1.5	0.083449	0.05	46737370.0	0.055632	Y



Calibration

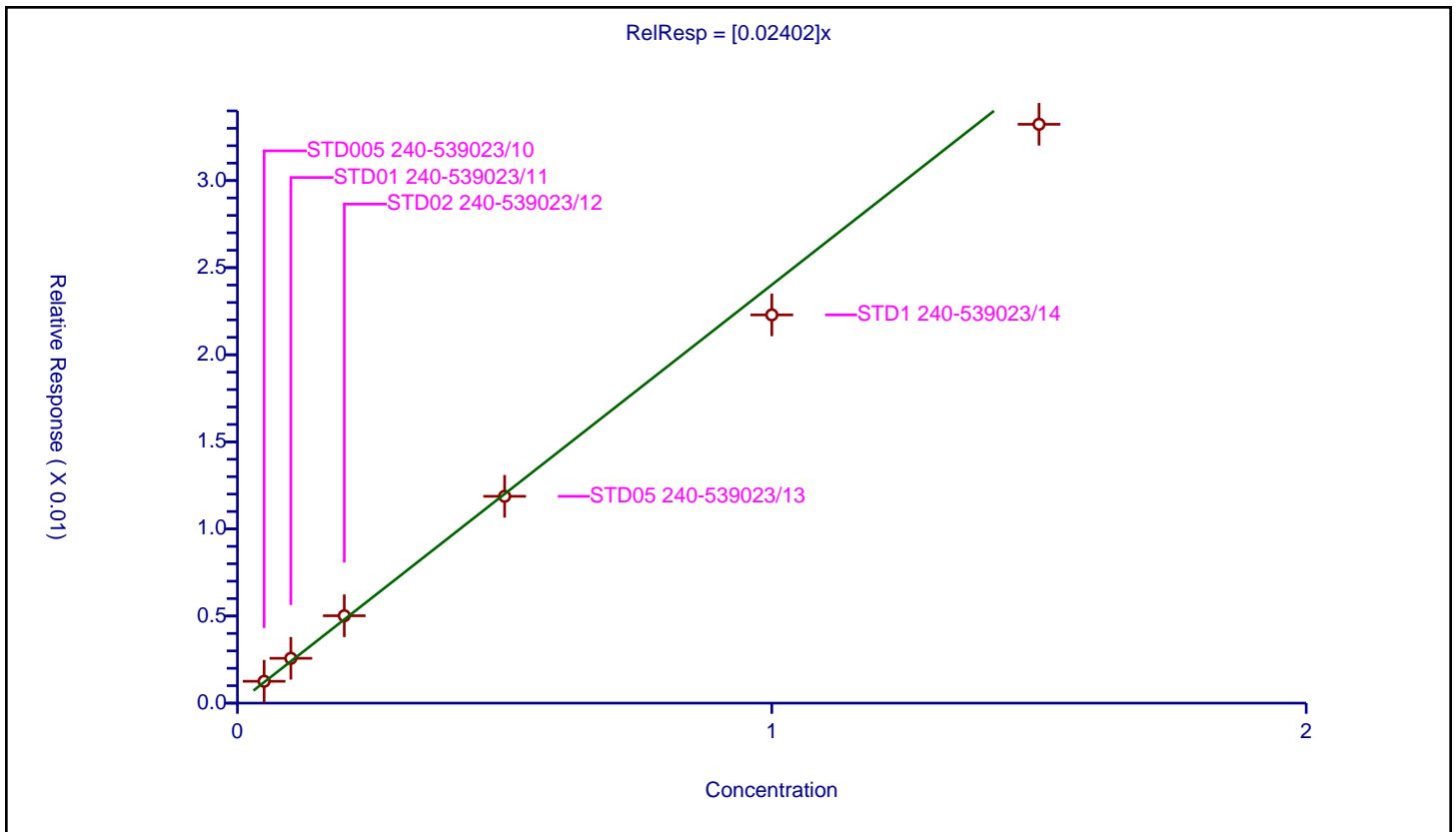
/ PCB-1242 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02402

Error Coefficients	
Standard Error:	17700000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.001254	0.05	46604457.0	0.025086	Y
2	STD01 240-539023/11	0.1	0.002573	0.05	46327488.0	0.025733	Y
3	STD02 240-539023/12	0.2	0.005016	0.05	47133849.0	0.025082	Y
4	STD05 240-539023/13	0.5	0.011874	0.05	42112713.0	0.023748	Y
5	STD1 240-539023/14	1.0	0.02229	0.05	49042730.0	0.02229	Y
6	STD15 240-539023/15	1.5	0.033232	0.05	46737370.0	0.022154	Y



Calibration

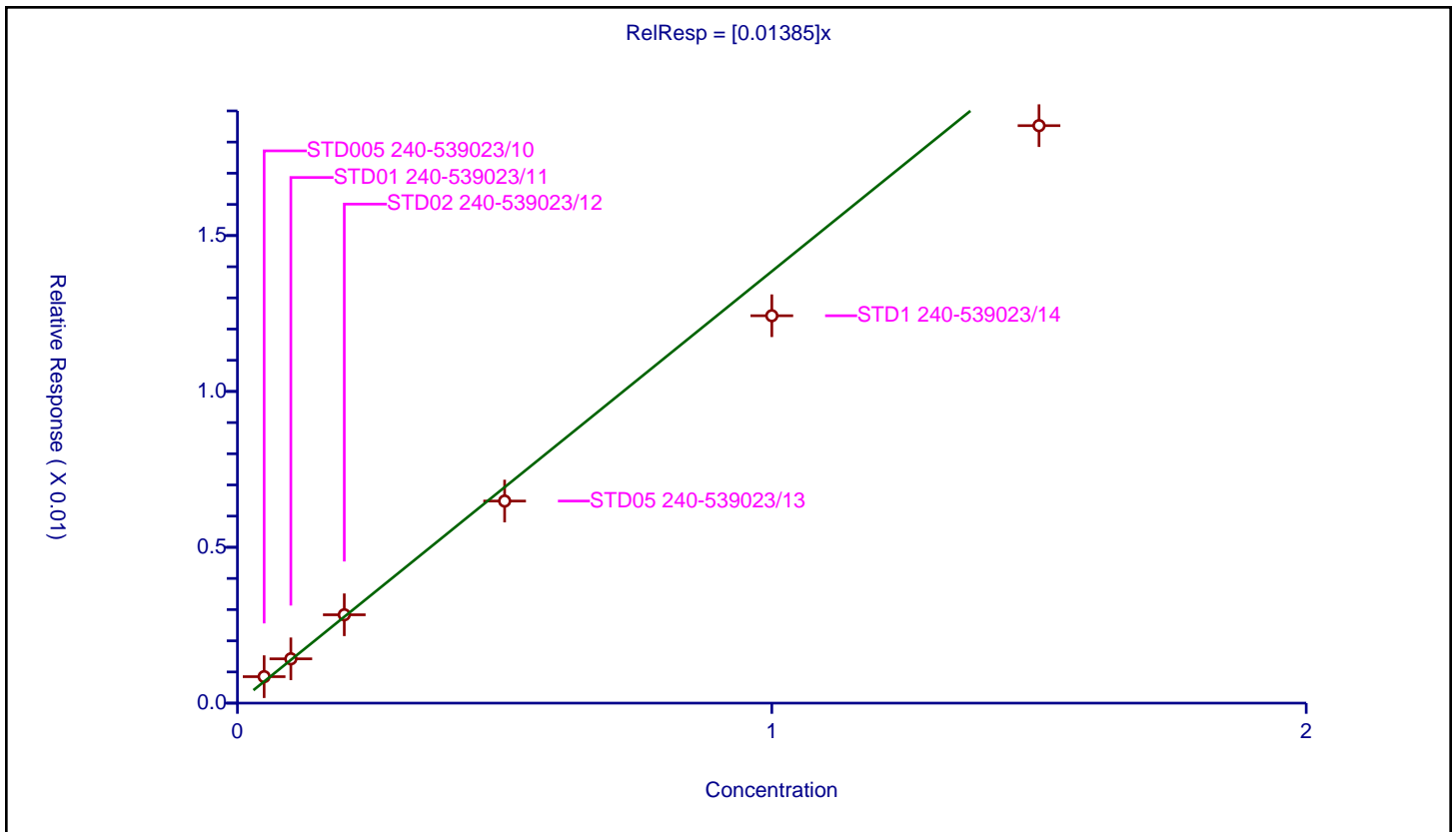
/ PCB-1242 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01385

Error Coefficients	
Standard Error:	9880000
Relative Standard Error:	12.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.000849	0.05	46604457.0	0.016981	Y
2	STD01 240-539023/11	0.1	0.001421	0.05	46327488.0	0.014214	Y
3	STD02 240-539023/12	0.2	0.002834	0.05	47133849.0	0.014172	Y
4	STD05 240-539023/13	0.5	0.006483	0.05	42112713.0	0.012967	Y
5	STD1 240-539023/14	1.0	0.012428	0.05	49042730.0	0.012428	Y
6	STD15 240-539023/15	1.5	0.018526	0.05	46737370.0	0.012351	Y



Calibration

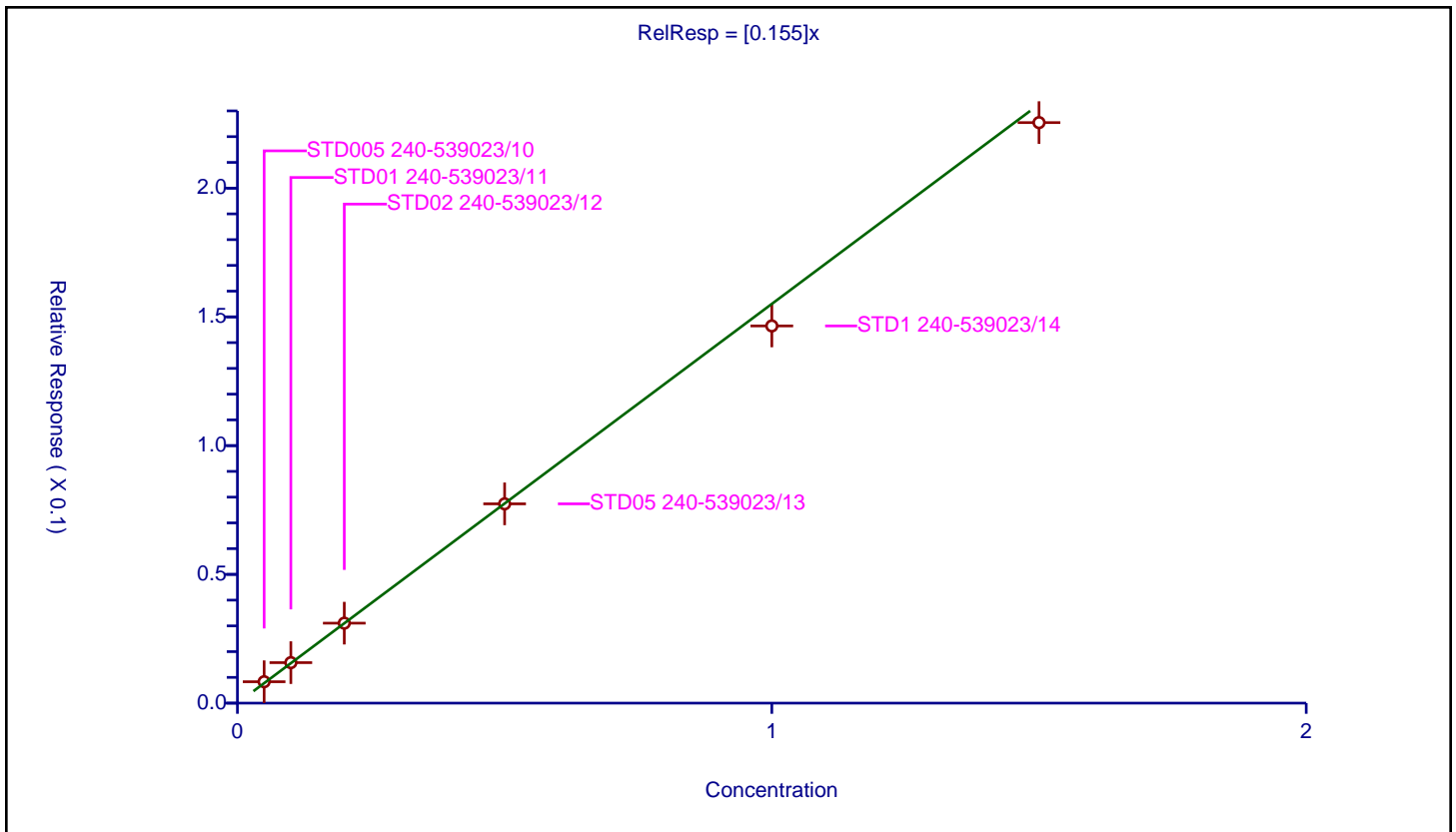
/ PCB-1268 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.155

Error Coefficients	
Standard Error:	119000000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.008307	0.05	46604457.0	0.166147	Y
2	STD01 240-539023/11	0.1	0.015724	0.05	46327488.0	0.157243	Y
3	STD02 240-539023/12	0.2	0.031052	0.05	47133849.0	0.155258	Y
4	STD05 240-539023/13	0.5	0.077392	0.05	42112713.0	0.154783	Y
5	STD1 240-539023/14	1.0	0.146483	0.05	49042730.0	0.146483	Y
6	STD15 240-539023/15	1.5	0.22545	0.05	46737370.0	0.1503	Y



Calibration

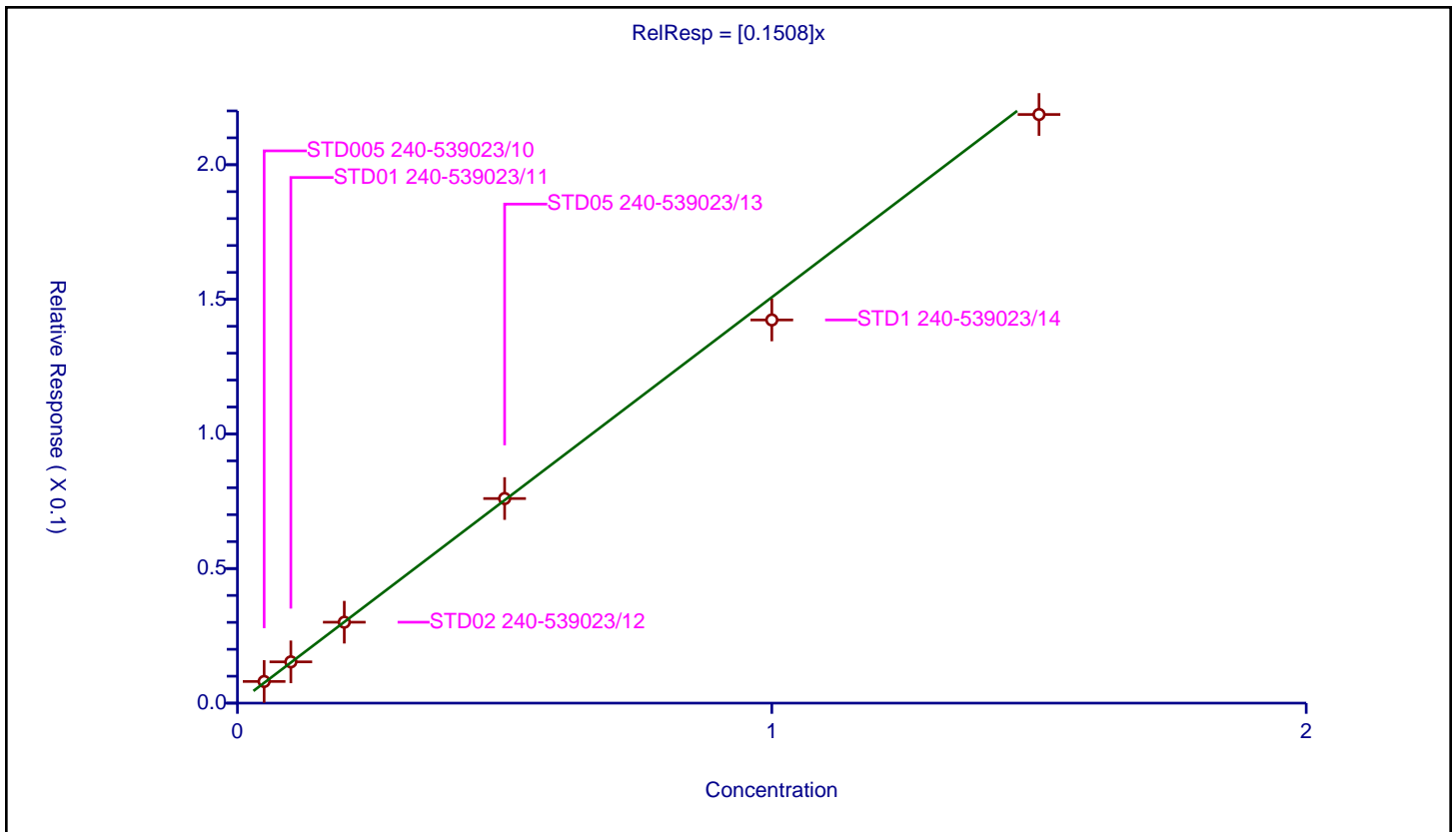
/ PCB-1268 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1508

Error Coefficients	
Standard Error:	115000000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.008048	0.05	46604457.0	0.16095	Y
2	STD01 240-539023/11	0.1	0.015325	0.05	46327488.0	0.153253	Y
3	STD02 240-539023/12	0.2	0.03006	0.05	47133849.0	0.1503	Y
4	STD05 240-539023/13	0.5	0.075993	0.05	42112713.0	0.151987	Y
5	STD1 240-539023/14	1.0	0.142341	0.05	49042730.0	0.142341	Y
6	STD15 240-539023/15	1.5	0.21866	0.05	46737370.0	0.145773	Y



Calibration

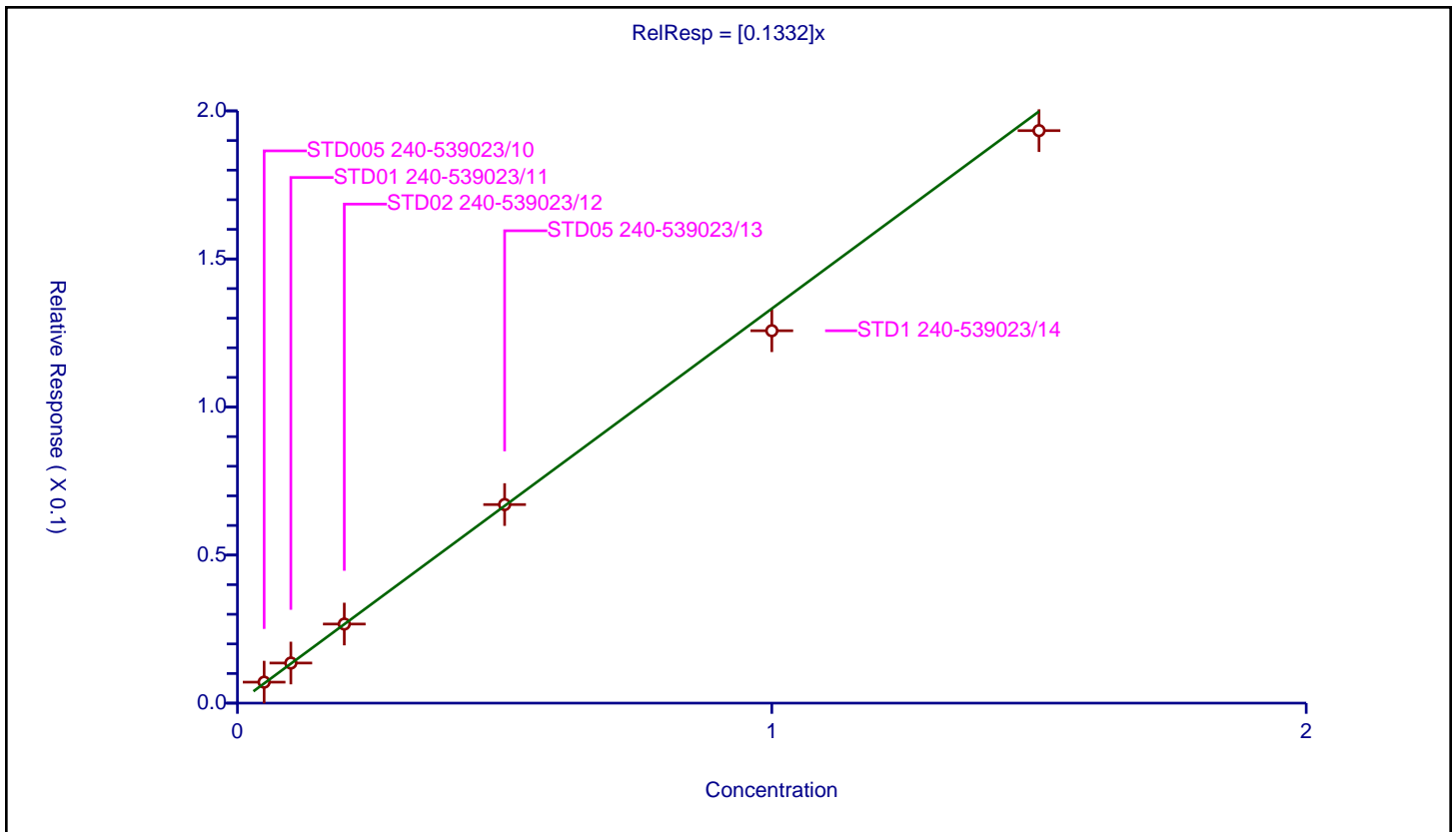
/ PCB-1268 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1332

Error Coefficients	
Standard Error:	102000000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.00708	0.05	46604457.0	0.141605	Y
2	STD01 240-539023/11	0.1	0.013542	0.05	46327488.0	0.135425	Y
3	STD02 240-539023/12	0.2	0.026706	0.05	47133849.0	0.133531	Y
4	STD05 240-539023/13	0.5	0.067056	0.05	42112713.0	0.134111	Y
5	STD1 240-539023/14	1.0	0.125759	0.05	49042730.0	0.125759	Y
6	STD15 240-539023/15	1.5	0.193334	0.05	46737370.0	0.128889	Y



Calibration

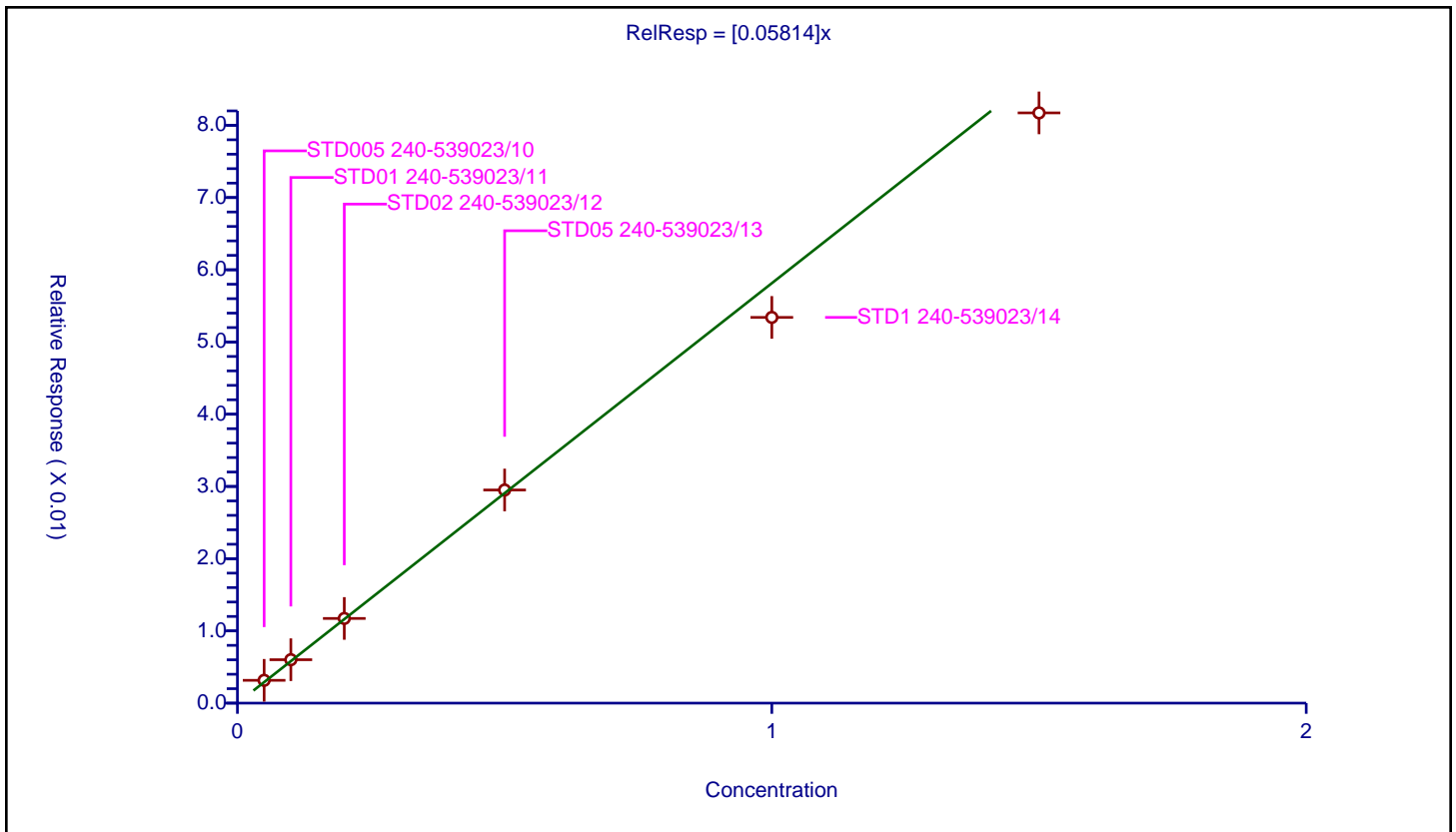
/ PCB-1268 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05814

Error Coefficients	
Standard Error:	43300000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.003159	0.05	46604457.0	0.063184	Y
2	STD01 240-539023/11	0.1	0.006012	0.05	46327488.0	0.060119	Y
3	STD02 240-539023/12	0.2	0.011725	0.05	47133849.0	0.058627	Y
4	STD05 240-539023/13	0.5	0.029509	0.05	42112713.0	0.059017	Y
5	STD1 240-539023/14	1.0	0.053407	0.05	49042730.0	0.053407	Y
6	STD15 240-539023/15	1.5	0.081723	0.05	46737370.0	0.054482	Y



Calibration

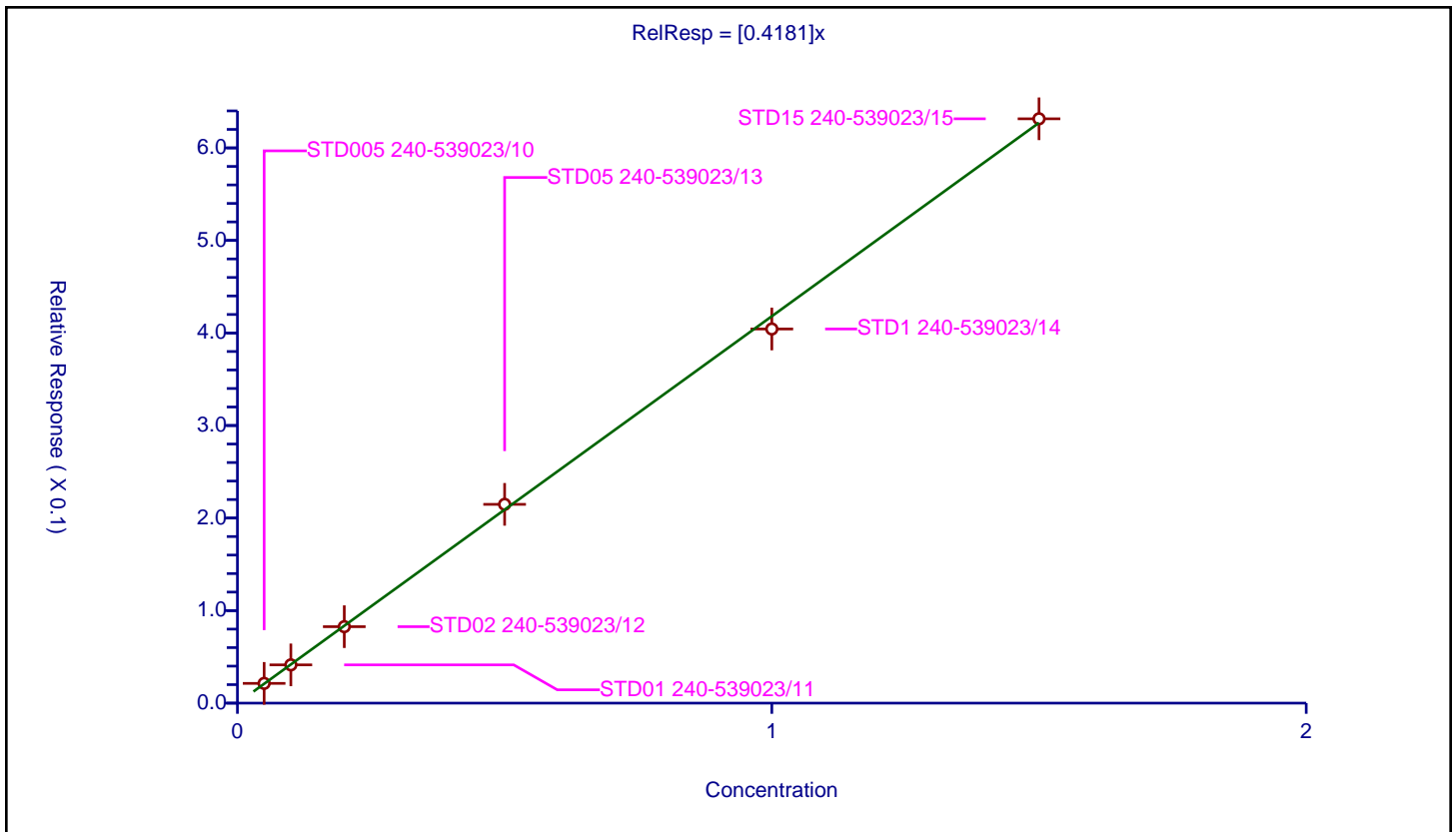
/ PCB-1268 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4181

Error Coefficients	
Standard Error:	331000000
Relative Standard Error:	2.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/10	0.05	0.021351	0.05	46604457.0	0.42702	Y
2	STD01 240-539023/11	0.1	0.041339	0.05	46327488.0	0.413393	Y
3	STD02 240-539023/12	0.2	0.082631	0.05	47133849.0	0.413154	Y
4	STD05 240-539023/13	0.5	0.214822	0.05	42112713.0	0.429643	Y
5	STD1 240-539023/14	1.0	0.404319	0.05	49042730.0	0.404319	Y
6	STD15 240-539023/15	1.5	0.631462	0.05	46737370.0	0.420975	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:50 Calibration End Date: 08/16/2022 15:18 Calibration ID: 67244

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/16	P4081616.D
Level 2	STD01 240-539023/17	P4081617.D
Level 3	STD02 240-539023/18	P4081618.D
Level 4	STD05 240-539023/19	P4081619.D
Level 5	STD1 240-539023/20	P4081620.D
Level 6	STD15 240-539023/21	P4081621.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0166 0.0119	0.0153	0.0144	0.0142	0.0121	Ave		0.014 1			13.0		20.0				
PCB-1248 Peak 2	0.0440 0.0359	0.0403	0.0400	0.0375	0.0355	Ave		0.038 9			8.3		20.0				
PCB-1248 Peak 3	0.0487 0.0396	0.0446	0.0440	0.0396	0.0382	Ave		0.042 5			9.4		20.0				
PCB-1248 Peak 4	0.0385 0.0313	0.0359	0.0341	0.0299	0.0296	Ave		0.033 2			10.7		20.0				
PCB-1248 Peak 5	0.0244 0.0200	0.0223	0.0218	0.0195	0.0188	Ave		0.021 1			9.9		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:50 Calibration End Date: 08/16/2022 15:18 Calibration ID: 67244

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/16	P4081616.D
Level 2	STD01 240-539023/17	P4081617.D
Level 3	STD02 240-539023/18	P4081618.D
Level 4	STD05 240-539023/19	P4081619.D
Level 5	STD1 240-539023/20	P4081620.D
Level 6	STD15 240-539023/21	P4081621.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	583568 12319258	1057838	1996764	4759929	8389214	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	1542019 37011874	2791754	5552449	12553987	24653698	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	1706214 40874869	3092263	6106503	13244660	26584995	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	1349287 32261990	2484709	4728083	9997474	20562699	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	854649 20582211	1542751	3025476	6507573	13069884	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081616.D
 Lims ID: std005 1248
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 13:50:20 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-016
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:18 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:57:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.757	1.751	0.006	35064280	0.0500	0.0500	
2	2.026	2.020	0.006	48964307	0.0500	0.0500	
7 PCB-1248							M
1	3.990	3.990	0.000	583568	0.0500	0.0591	
1	4.656	4.656	0.000	1542019	0.0500	0.0566	M
1	5.355	5.355	0.000	1706214	0.0500	0.0573	
1	6.101	6.101	0.000	1349287	0.0500	0.0580	
1	6.528	6.528	0.000	854649	0.0500	0.0577	
Average of Peak Amounts =						0.0577	
2	4.947	4.947	0.000	693457	0.0500	0.0564	
2	5.536	5.536	0.000	1934820	0.0500	0.0565	
2	6.395	6.395	0.000	1637091	0.0500	0.0558	
2	6.727	6.727	0.000	1824269	0.0500	0.0539	
2	7.403	7.403	0.000	940495	0.0500	0.0542	
Average of Peak Amounts =						0.0553	
RPD = 4.20							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@.05ppm_00034

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:19

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081616.D

Injection Date: 16-Aug-2022 13:50:20

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1248

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

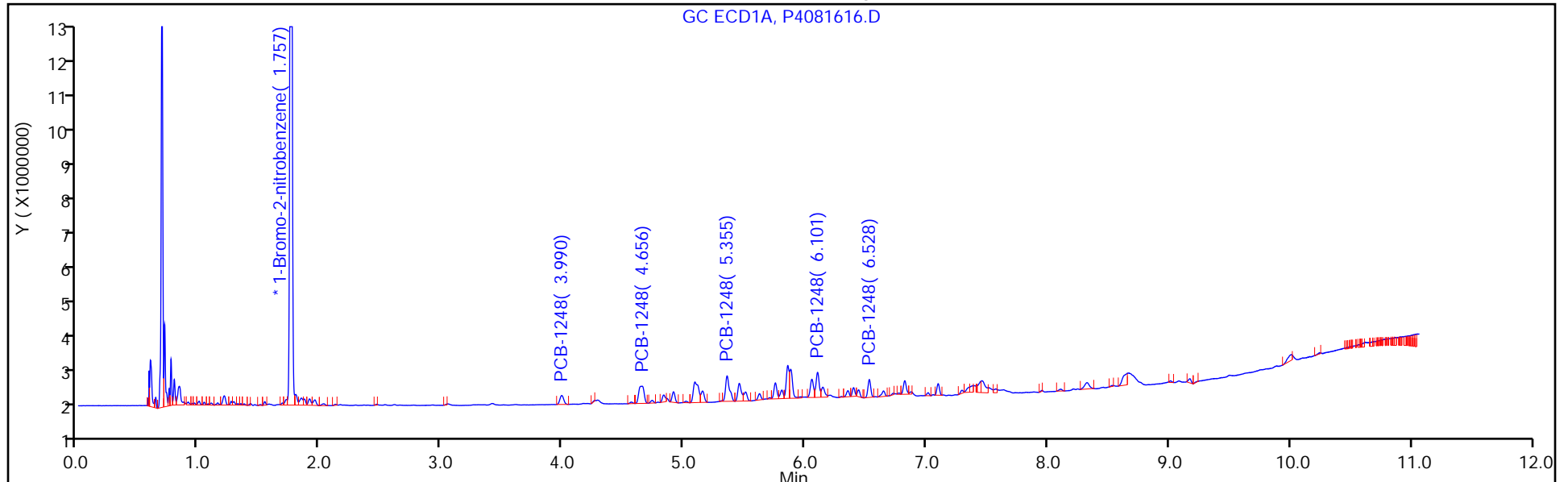
ALS Bottle#: 16

Method: PCB4 is

Limit Group: GC 8082A IS

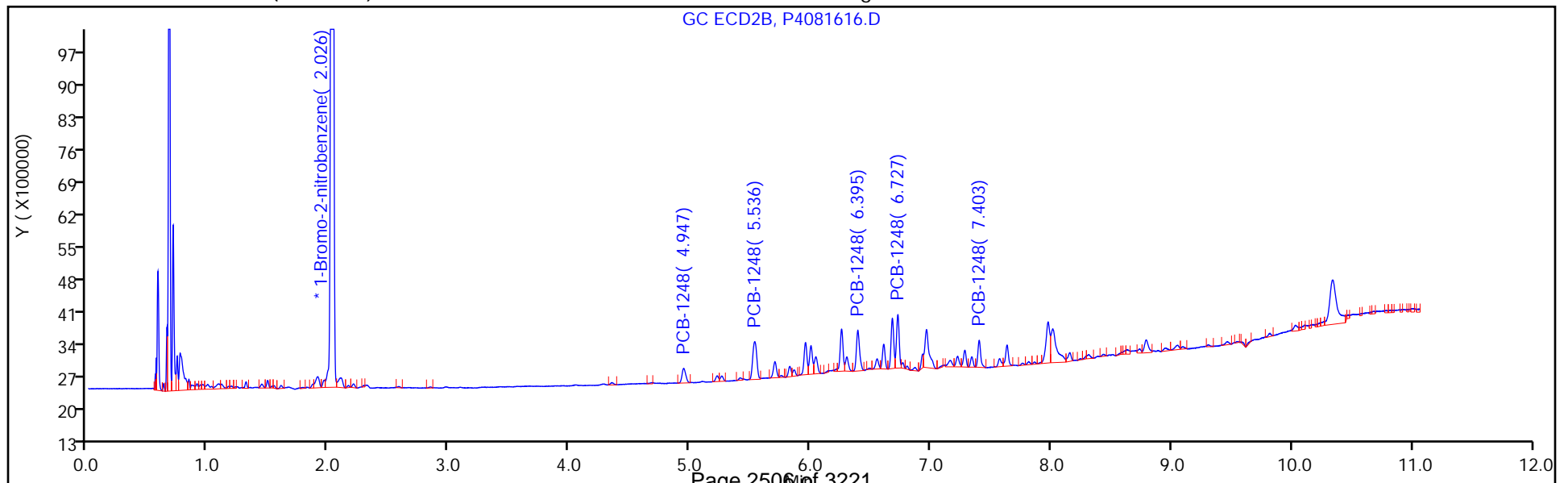
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081616.D

Injection Date: 16-Aug-2022 13:50:20

Instrument ID: A2HP4

Lims ID: std005 1248

Client ID:

Operator ID:

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

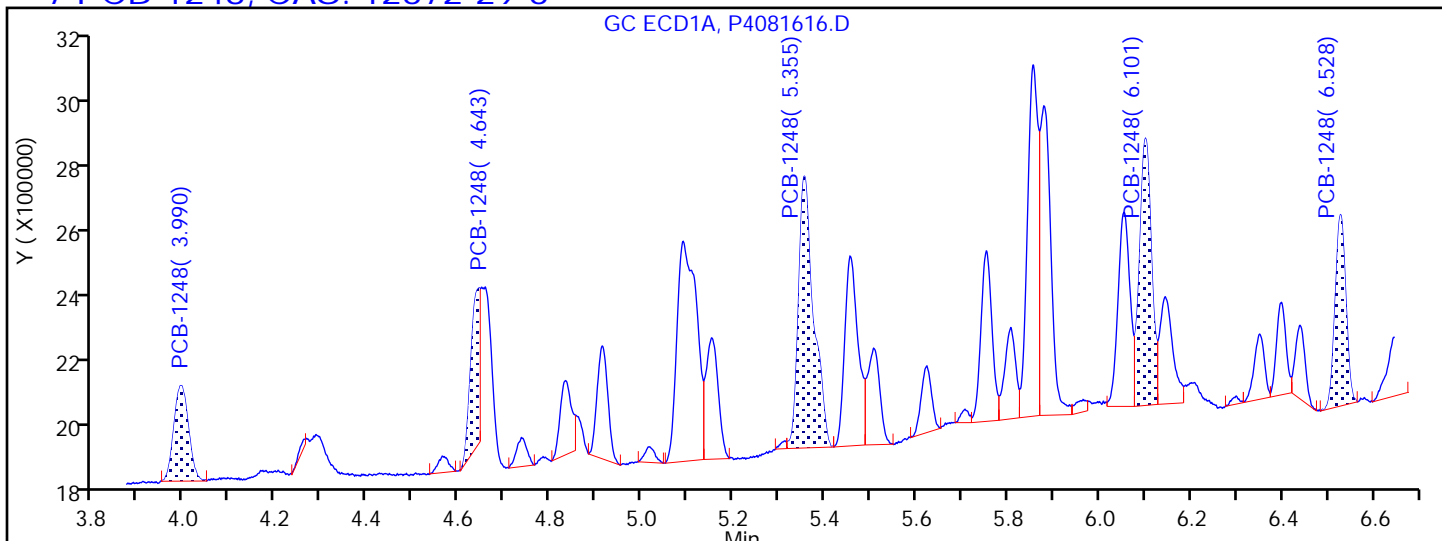
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

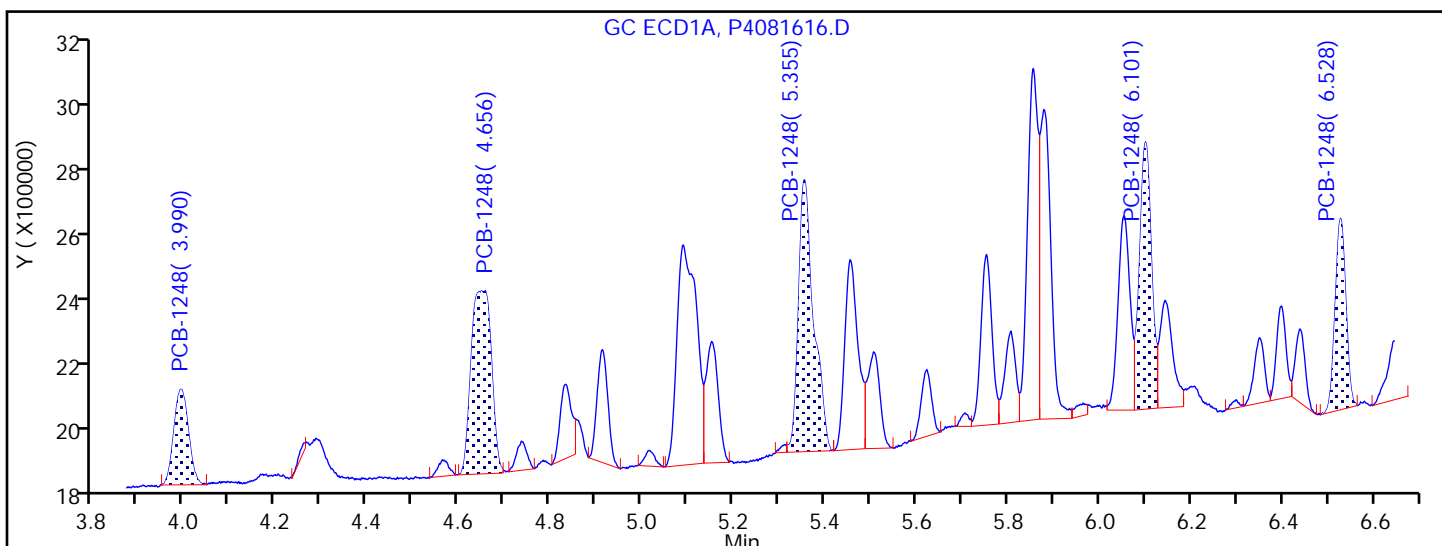
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.990	Response = 583568
4.643	Response = 593522
5.355	Response = 1706214
6.101	Response = 1349287
6.528	Response = 854649



Manual Integration Results

3.990	Response = 583568	
4.656	Response = 1542019	M
5.355	Response = 1706214	
6.101	Response = 1349287	
6.528	Response = 854649	

Reviewer: WRR8, 17-Aug-2022 07:57:09

Audit Action: Manually Integrated

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081617.D
 Lims ID: std01 1248
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 14:07:59 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-017
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:22 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:57:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.755	1.751	0.003	34639105	0.0500	0.0500	
2	2.025	2.020	0.004	48349131	0.0500	0.0500	
7 PCB-1248							M
1	3.988	3.990	-0.002	1057838	0.1000	0.1084	
1	4.655	4.656	-0.001	2791754	0.1000	0.1037	M
1	5.354	5.355	-0.001	3092263	0.1000	0.1051	
1	6.097	6.101	-0.004	2484709	0.1000	0.1080	
1	6.522	6.528	-0.006	1542751	0.1000	0.1055	
Average of Peak Amounts =						0.1061	
2	4.947	4.947	0.000	1263923	0.1000	0.1040	
2	5.536	5.536	0.000	3558748	0.1000	0.1053	
2	6.389	6.395	-0.006	3027606	0.1000	0.1044	
2	6.721	6.727	-0.006	3548400	0.1000	0.1062	
2	7.399	7.403	-0.004	1812533	0.1000	0.1058	
Average of Peak Amounts =						0.1051	
RPD = 0.95							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.1PPM_00038

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081617.D

Injection Date: 16-Aug-2022 14:07:59

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1248

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

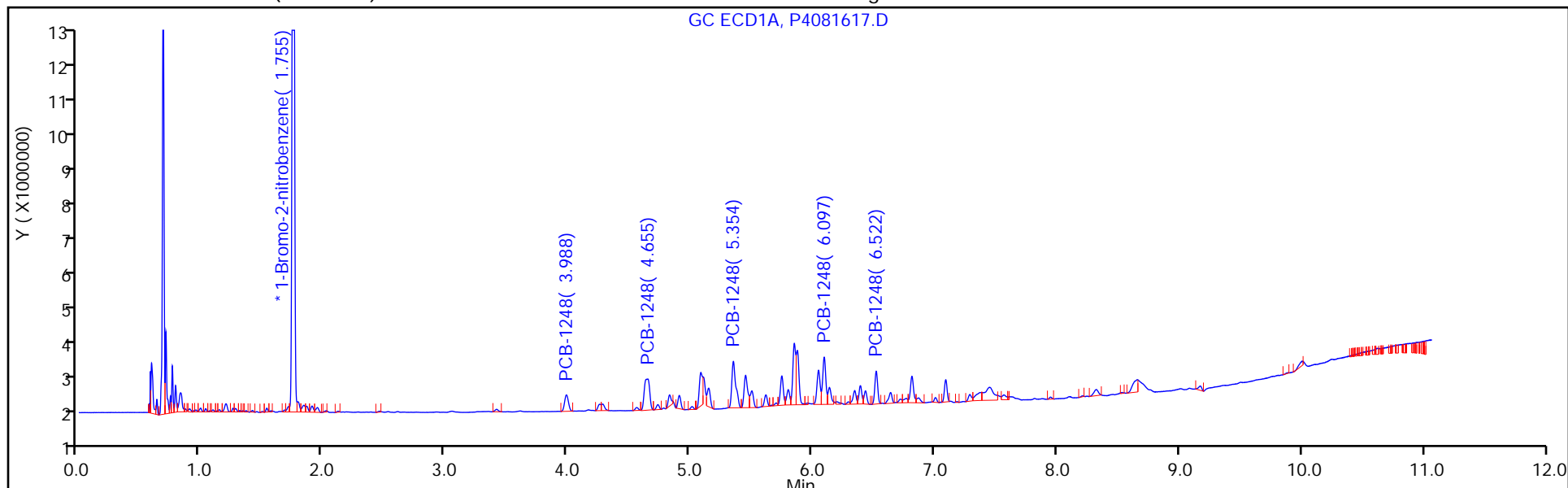
ALS Bottle#: 17

Method: PCB4 is

Limit Group: GC 8082A IS

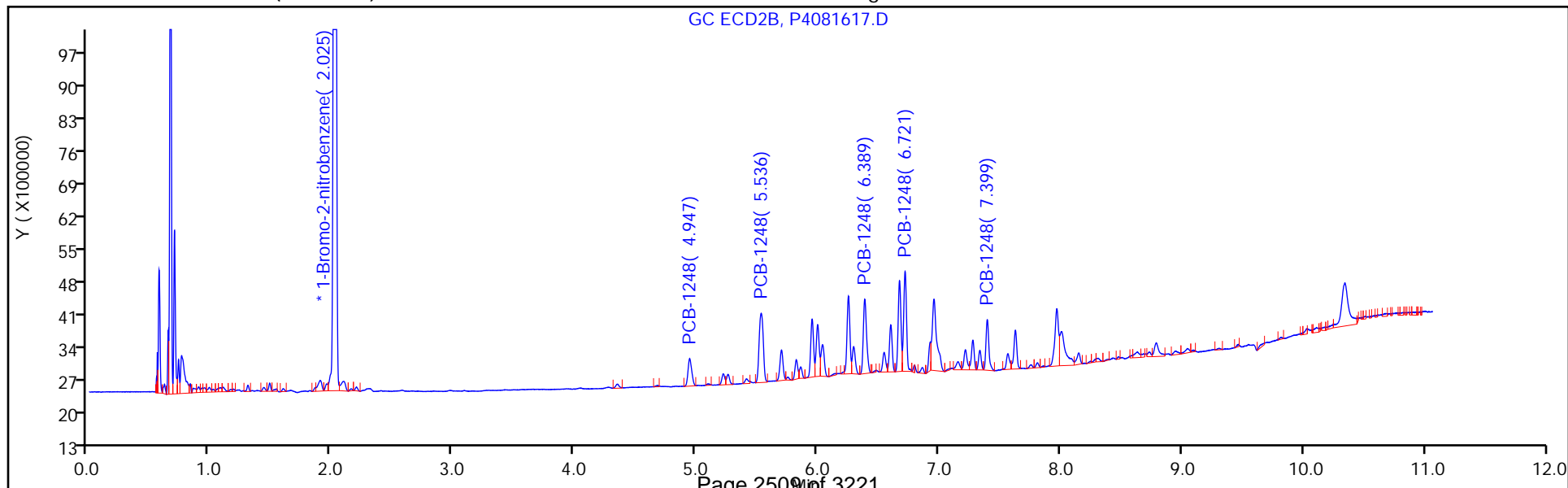
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081617.D

Injection Date: 16-Aug-2022 14:07:59

Instrument ID: A2HP4

Lims ID: std01 1248

Client ID:

Operator ID:

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

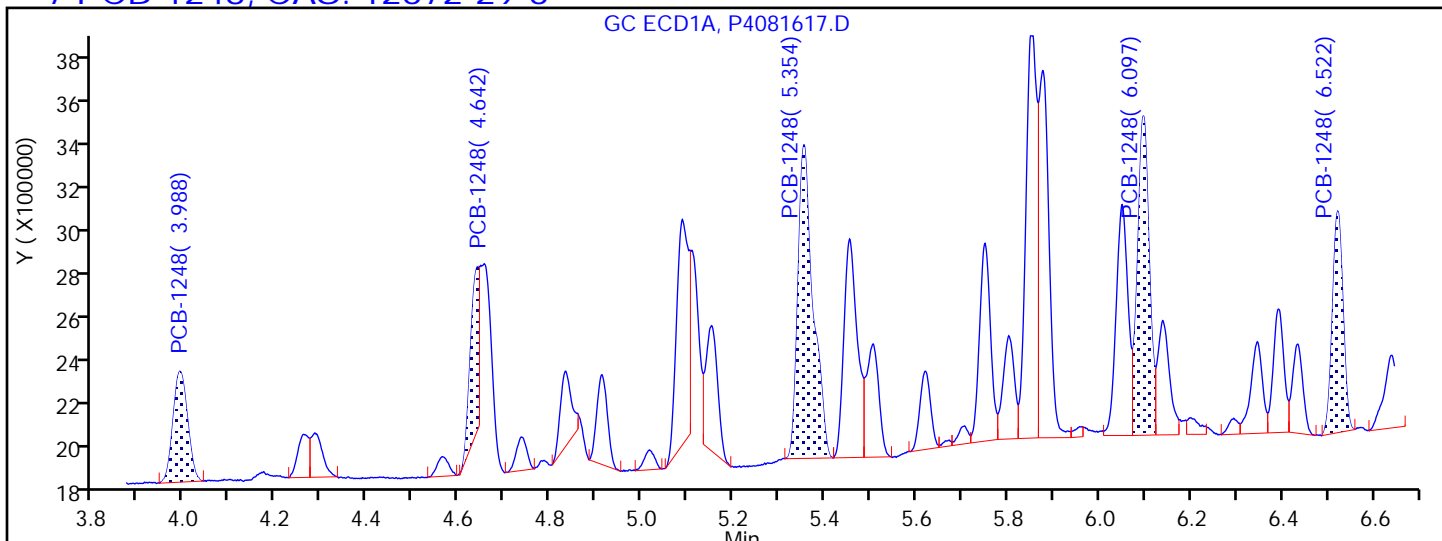
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

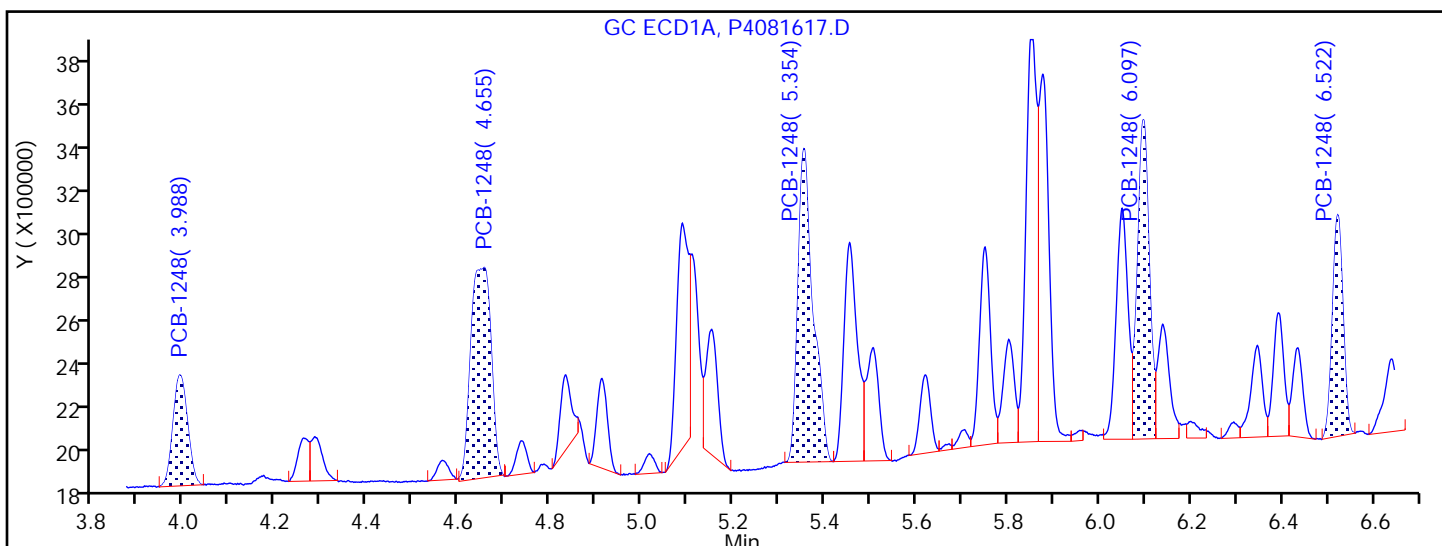
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.988	Response = 1057838
4.642	Response = 929731
5.354	Response = 3092263
6.097	Response = 2484709
6.522	Response = 1542751



Manual Integration Results

3.988	Response = 1057838
4.655	Response = 2791754
5.354	Response = 3092263
6.097	Response = 2484709
6.522	Response = 1542751

M

Reviewer: WRR8, 17-Aug-2022 07:57:39

Audit Action: Manually Integrated

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081618.D
 Lims ID: std02 1248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 14:25:38 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-018
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:26 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:58:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.754	1.751	0.003	34694342	0.0500	0.0500	
2	2.023	2.020	0.003	48508964	0.0500	0.0500	
7 PCB-1248							M
1	3.982	3.990	-0.008	1996764	0.2000	0.2042	
1	4.635	4.656	-0.021	5552449	0.2000	0.2059	M
1	5.351	5.355	-0.004	6106503	0.2000	0.2073	
1	6.099	6.101	-0.002	4728083	0.2000	0.2053	
1	6.526	6.528	-0.002	3025476	0.2000	0.2065	
Average of Peak Amounts =						0.2058	
2	4.942	4.947	-0.005	2504957	0.2000	0.2055	
2	5.535	5.536	-0.001	6922798	0.2000	0.2042	
2	6.392	6.395	-0.003	6051804	0.2000	0.2081	
2	6.725	6.727	-0.002	7010201	0.2000	0.2090	
2	7.401	7.403	-0.002	3508966	0.2000	0.2041	
Average of Peak Amounts =						0.2062	
RPD = 0.16							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.2ppm_00033

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081618.D

Injection Date: 16-Aug-2022 14:25:38

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1248

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

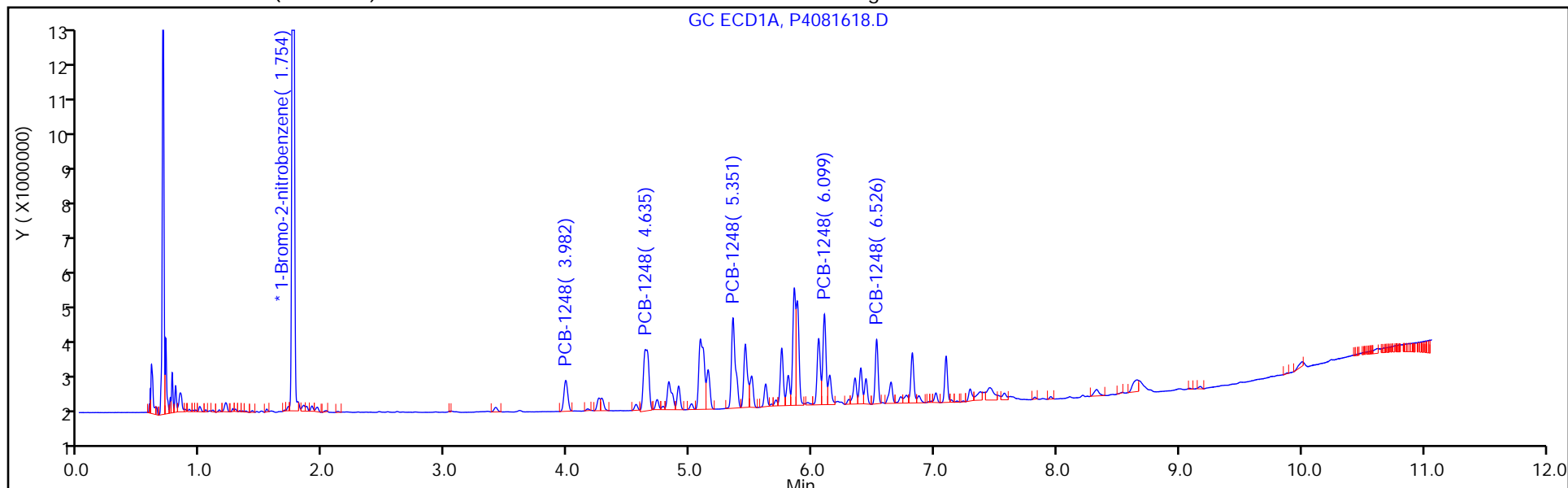
ALS Bottle#: 18

Method: PCB4 is

Limit Group: GC 8082A IS

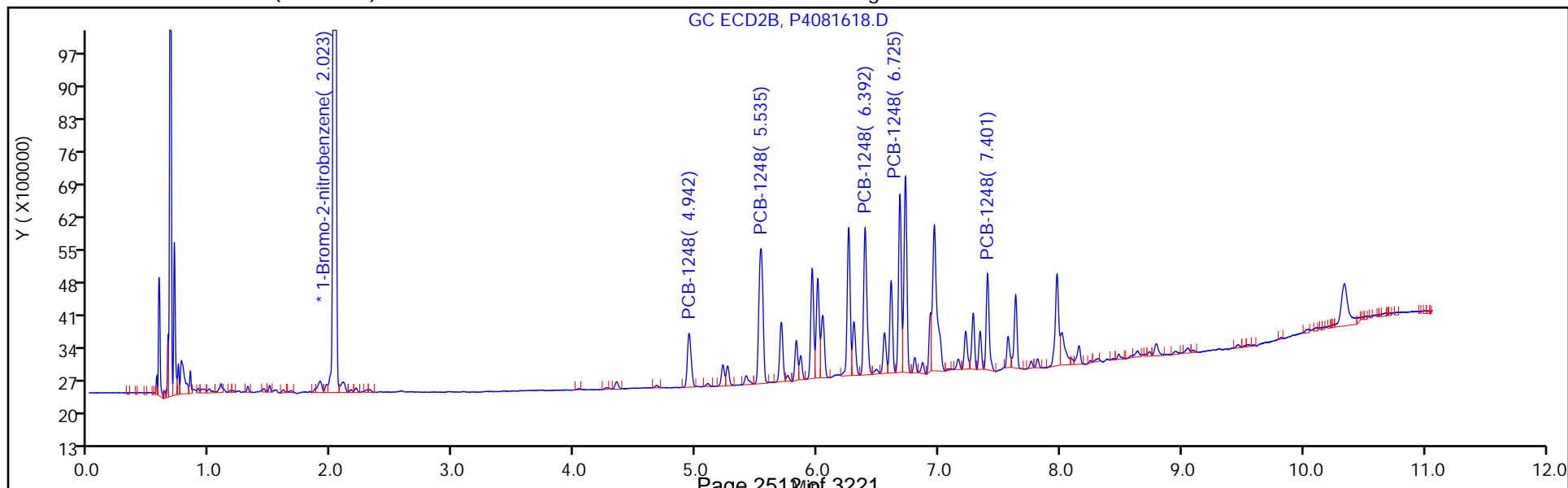
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081618.D

Injection Date: 16-Aug-2022 14:25:38

Instrument ID: A2HP4

Lims ID: std02 1248

Client ID:

Operator ID:

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

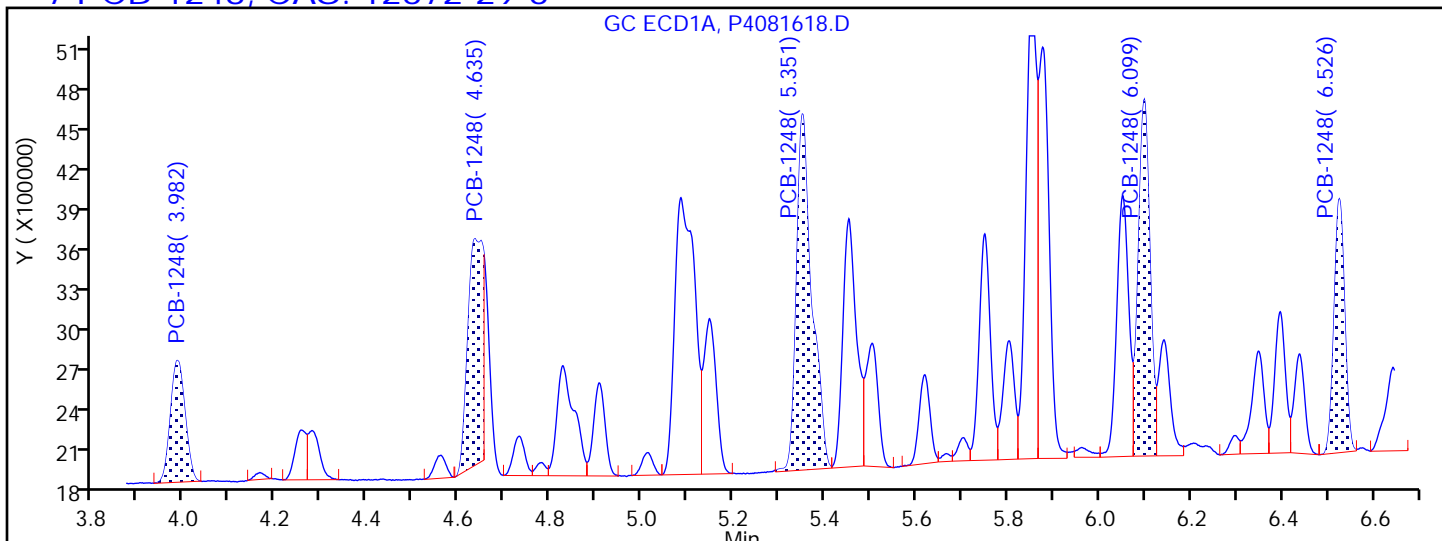
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

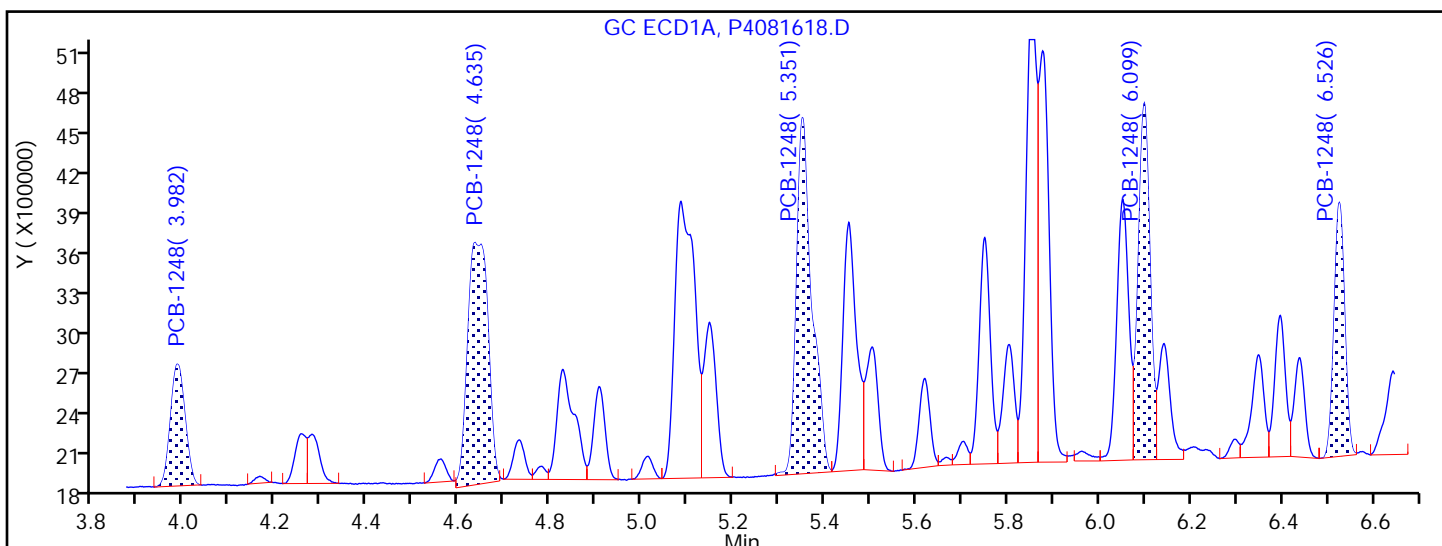
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.982	Response = 1996764
4.635	Response = 3784368
5.351	Response = 6106503
6.099	Response = 4728083
6.526	Response = 3025476



Manual Integration Results

3.982	Response = 1996764	
4.635	Response = 5552449	M
5.351	Response = 6106503	
6.099	Response = 4728083	
6.526	Response = 3025476	

Reviewer: WRR8, 17-Aug-2022 07:58:10

Audit Action: Manually Integrated

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081619.D
 Lims ID: std05 1248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 14:43:17 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-019
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:30 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:58:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.757	1.751	0.005	33438563	0.0500	0.0500	
2	2.026	2.020	0.005	47081942	0.0500	0.0500	
7 PCB-1248							M
1	3.992	3.990	0.002	4759929	0.5000	0.5051	
1	4.655	4.656	-0.001	12553987	0.5000	0.4830	M
1	5.355	5.355	0.000	13244660	0.5000	0.4664	M
1	6.101	6.101	0.000	9997474	0.5000	0.4503	
1	6.527	6.528	-0.001	6507573	0.5000	0.4610	
Average of Peak Amounts =						0.4732	
2	4.948	4.947	0.001	6101796	0.5000	0.5157	
2	5.540	5.536	0.004	15956373	0.5000	0.4849	
2	6.394	6.395	-0.001	12990471	0.5000	0.4601	
2	6.726	6.727	-0.001	14943196	0.5000	0.4591	
2	7.402	7.403	-0.001	7876584	0.5000	0.4721	
Average of Peak Amounts =						0.4784	
RPD = 1.09							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.5ppm_00058

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081619.D

Injection Date: 16-Aug-2022 14:43:17

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1248

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

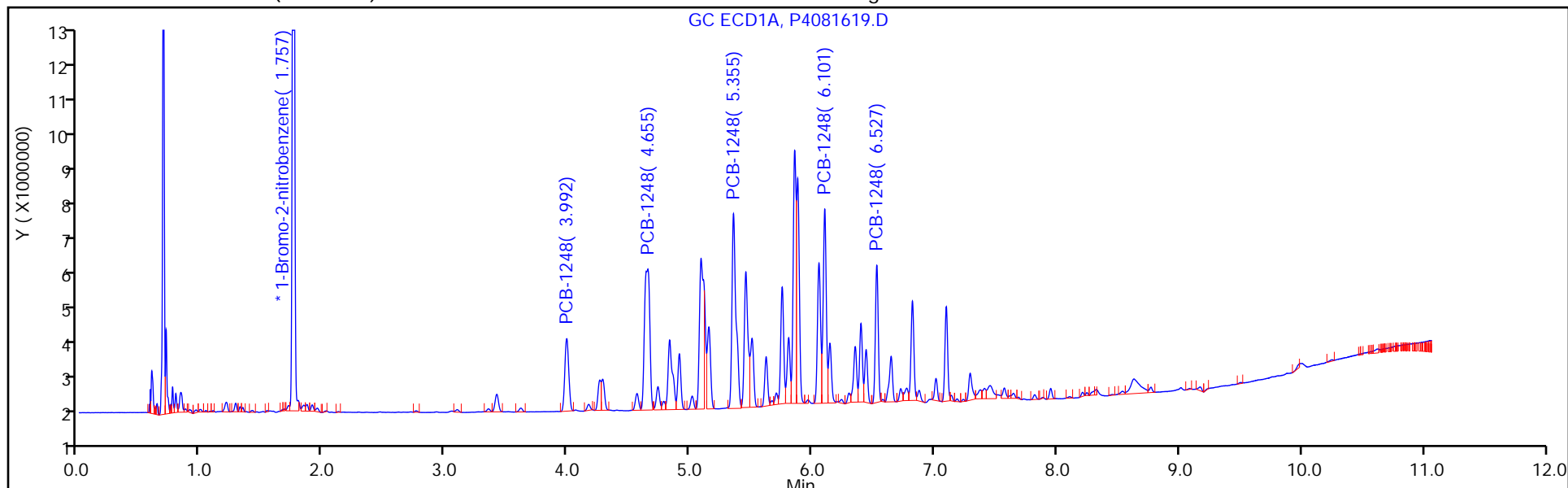
ALS Bottle#: 19

Method: PCB4 is

Limit Group: GC 8082A IS

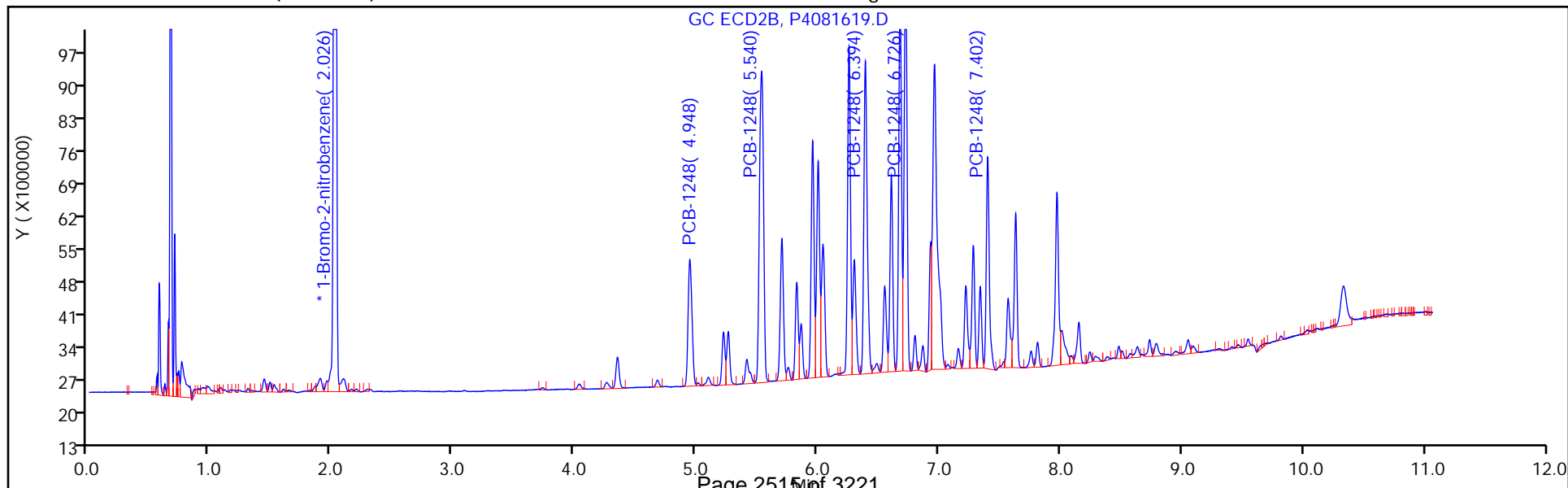
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081619.D

Injection Date: 16-Aug-2022 14:43:17

Instrument ID: A2HP4

Lims ID: std05 1248

Client ID:

Operator ID:

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

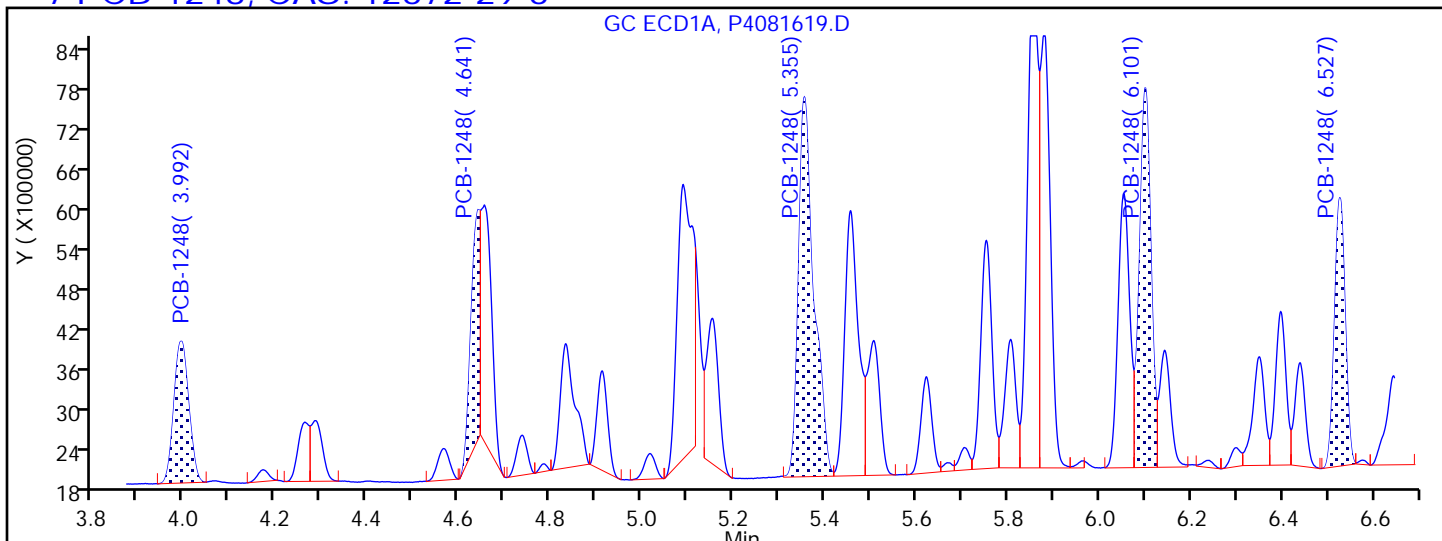
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

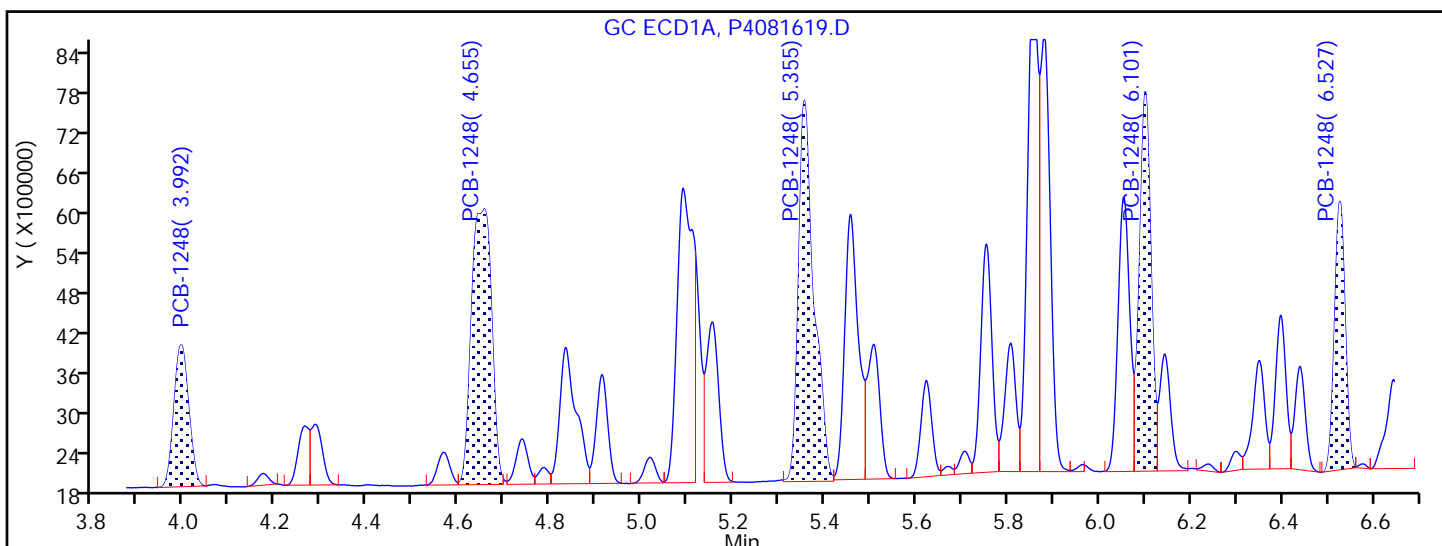
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.992	Response = 4759929
4.641	Response = 4595779
5.355	Response = 13141241
6.101	Response = 9997474
6.527	Response = 6507573



Manual Integration Results

3.992	Response = 4759929	
4.655	Response = 12553987	M
5.355	Response = 13244660	M
6.101	Response = 9997474	
6.527	Response = 6507573	

Reviewer: WRR8, 17-Aug-2022 07:58:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2516 of 3221

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081620.D
 Lims ID: std1 1248
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 15:00:52 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-020
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:35 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:59:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.756	1.751	0.004	34771887	0.0500	0.0500	
2	2.026	2.020	0.005	48785725	0.0500	0.0500	
7 PCB-1248							
1	3.987	3.990	-0.003	8389214	1.00	0.8561	M
1	4.653	4.656	-0.003	24653698	1.00	0.9122	M
1	5.352	5.355	-0.003	26584995	1.00	0.9003	
1	6.096	6.101	-0.005	20562699	1.00	0.8907	
1	6.523	6.528	-0.005	13069884	1.00	0.8903	
Average of Peak Amounts =						0.8899	
2	4.947	4.947	0.000	10927825	1.00	0.8913	
2	5.536	5.536	0.000	30875413	1.00	0.9055	
2	6.389	6.395	-0.006	27037102	1.00	0.9242	
2	6.721	6.727	-0.006	31368295	1.00	0.9301	
2	7.393	7.403	-0.010	16028230	1.00	0.9271	
Average of Peak Amounts =						0.9156	
RPD = 2.85							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@1.0ppm_00044

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:36

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081620.D

Injection Date: 16-Aug-2022 15:00:52

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1248

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

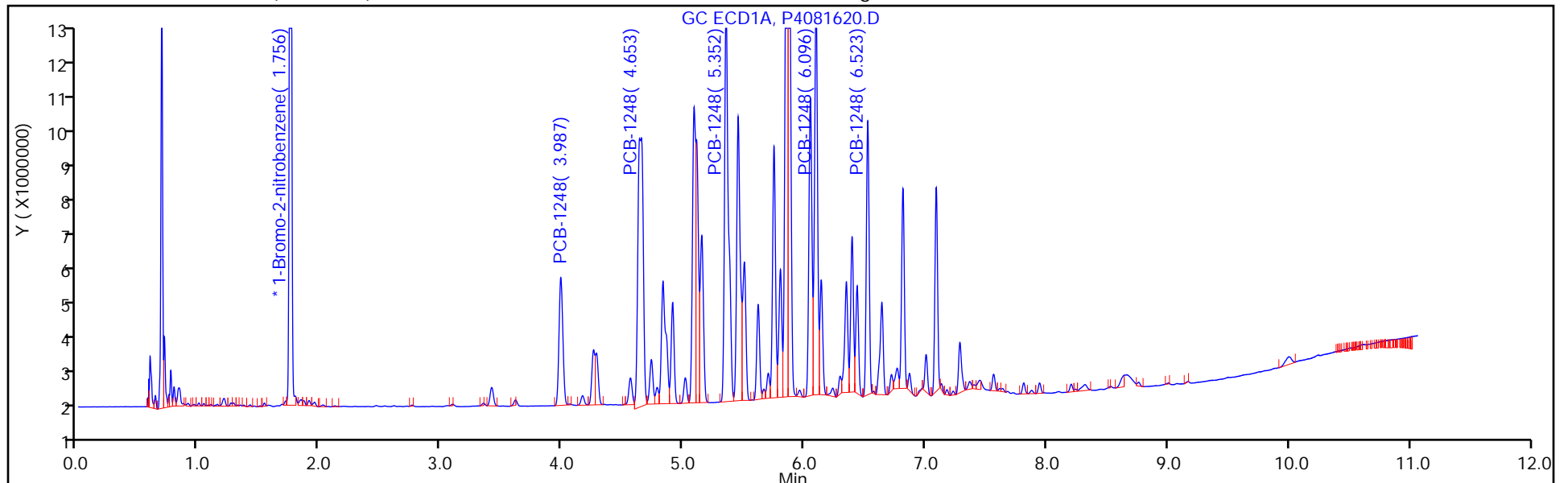
ALS Bottle#: 20

Method: PCB4 is

Limit Group: GC 8082A IS

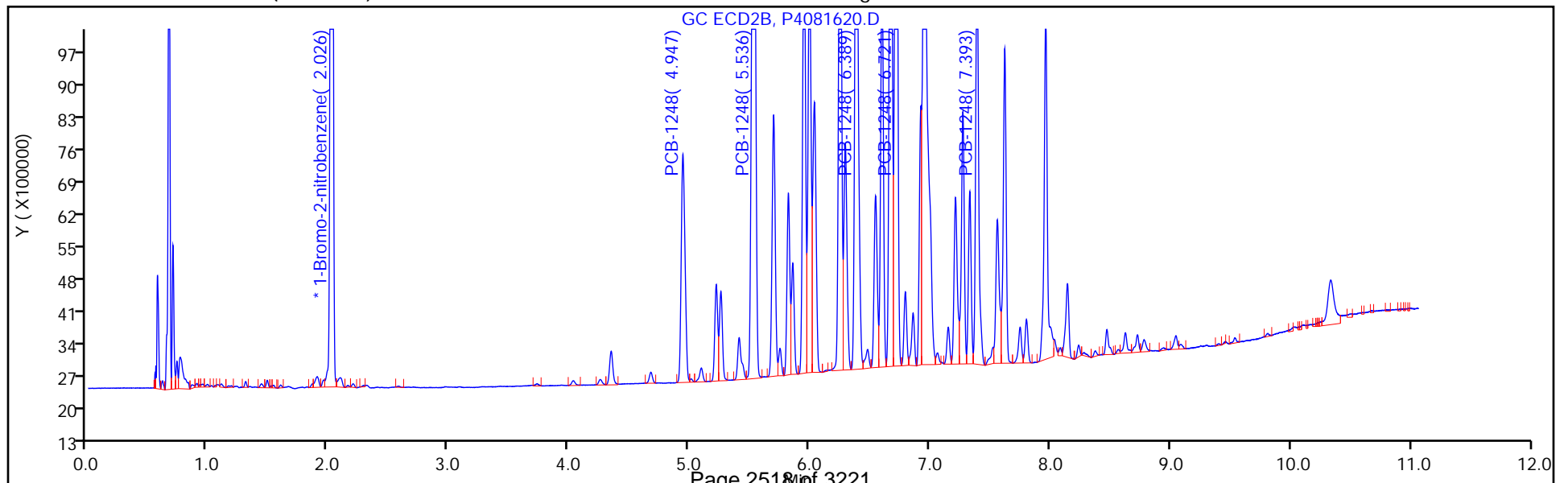
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081620.D

Injection Date: 16-Aug-2022 15:00:52

Instrument ID: A2HP4

Lims ID: std1 1248

Client ID:

Operator ID:

ALS Bottle#: 20

Worklist Smp#: 20

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

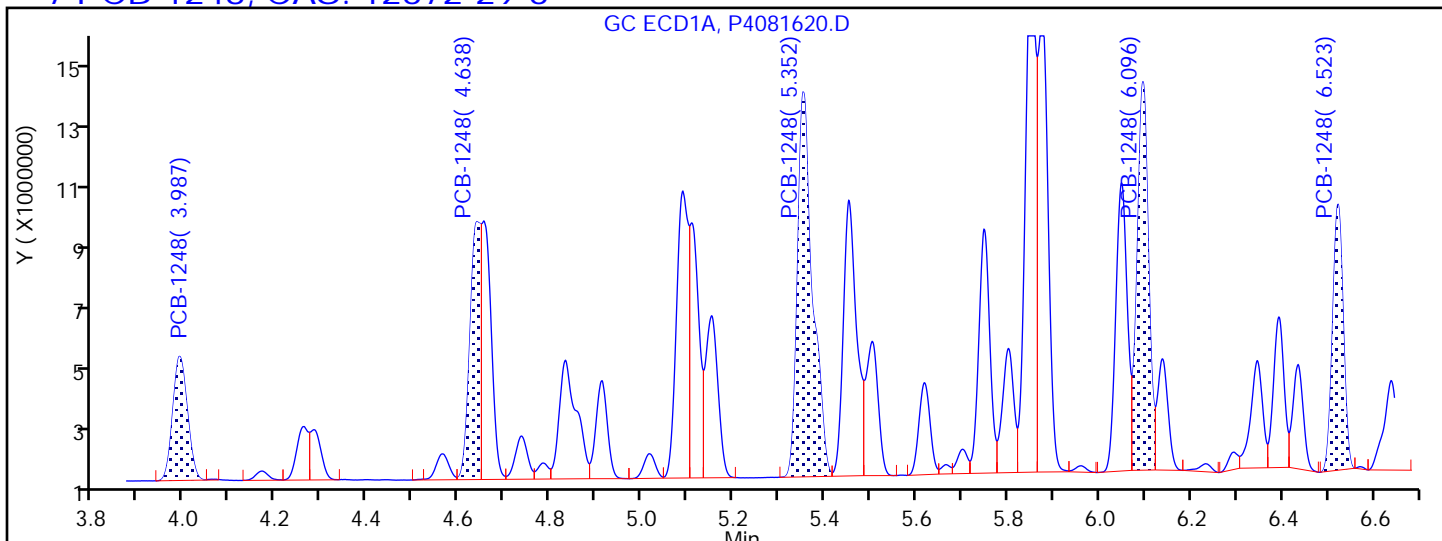
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

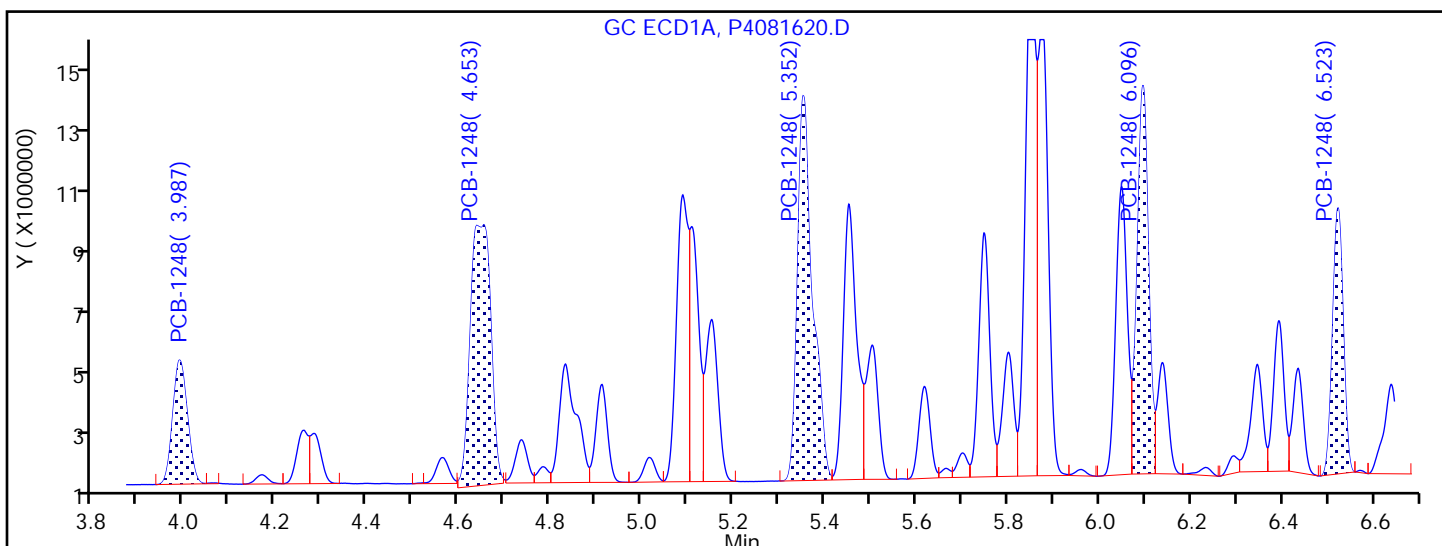
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.987	Response = 8389214
4.638	Response = 12802906
5.352	Response = 26584995
6.096	Response = 20562699
6.523	Response = 13069884



Manual Integration Results

3.987	Response = 8389214	
4.653	Response = 24653698	M
5.352	Response = 26584995	
6.096	Response = 20562699	
6.523	Response = 13069884	

Reviewer: WRR8, 17-Aug-2022 07:59:09

Audit Action: Manually Integrated

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081621.D
 Lims ID: std15 1248
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 15:18:42 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-021
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:39 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:59:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.751	1.751	0.000	34371699	0.0500	0.0500	
2	2.021	2.020	0.001	48009342	0.0500	0.0500	
7 PCB-1248							M
1	3.987	3.990	-0.003	12319258	1.50	1.27	
1	4.653	4.656	-0.003	37011874	1.50	1.39	M
1	5.354	5.355	-0.001	40874869	1.50	1.40	
1	6.101	6.101	0.000	32261990	1.50	1.41	
1	6.528	6.528	0.000	20582211	1.50	1.42	
Average of Peak Amounts =						1.38	
2	4.946	4.947	-0.001	15979141	1.50	1.32	
2	5.537	5.536	0.001	46310691	1.50	1.38	
2	6.395	6.395	0.000	41272490	1.50	1.43	
2	6.727	6.727	0.000	48145181	1.50	1.45	
2	7.403	7.403	0.000	24656829	1.50	1.45	
Average of Peak Amounts =						1.41	
						RPD = 2.13	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@1.5ppm_00013

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:41

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081621.D

Injection Date: 16-Aug-2022 15:18:42

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1248

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

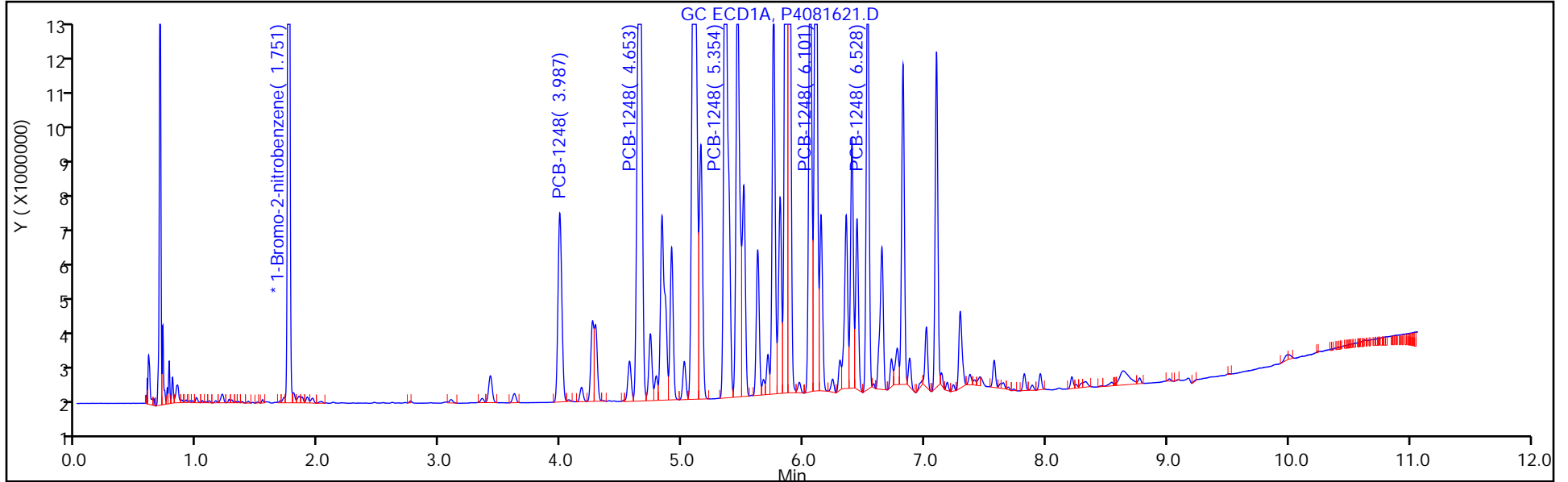
ALS Bottle#: 21

Method: PCB4 is

Limit Group: GC 8082A IS

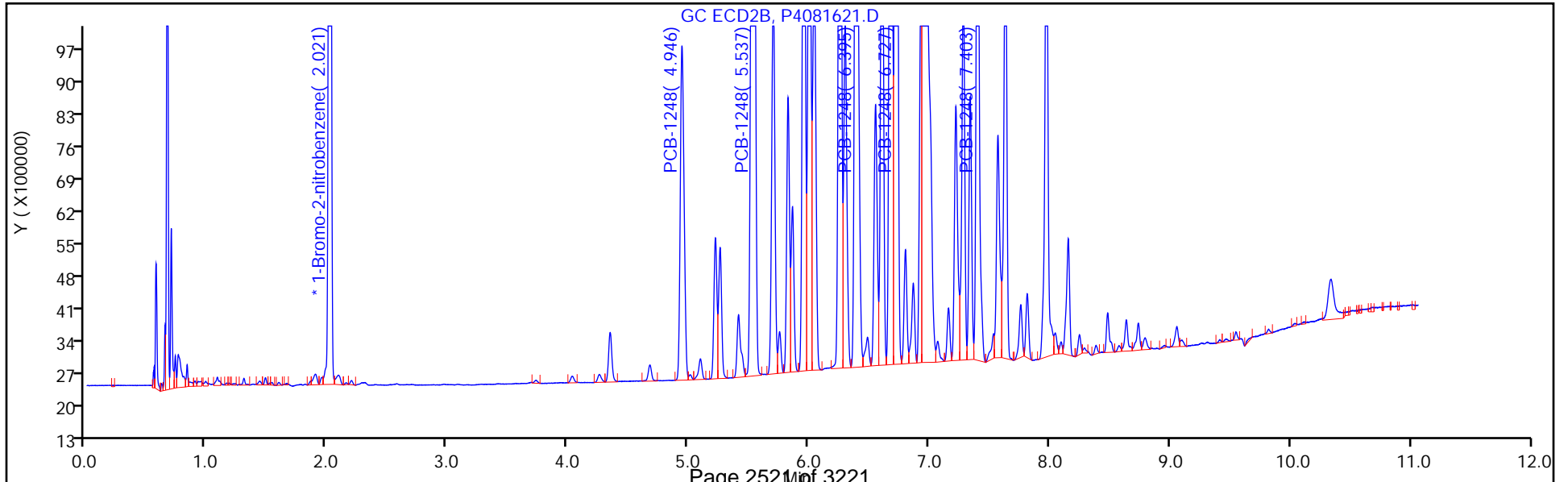
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081621.D

Injection Date: 16-Aug-2022 15:18:42

Instrument ID: A2HP4

Lims ID: std15 1248

Client ID:

Operator ID:

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

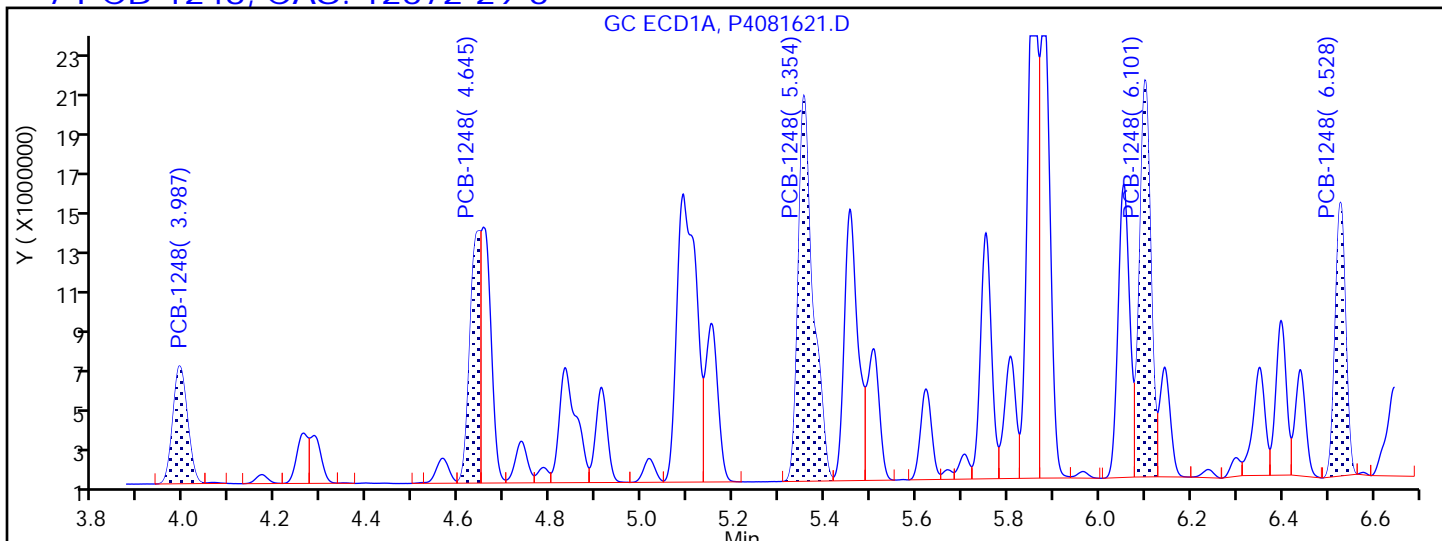
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

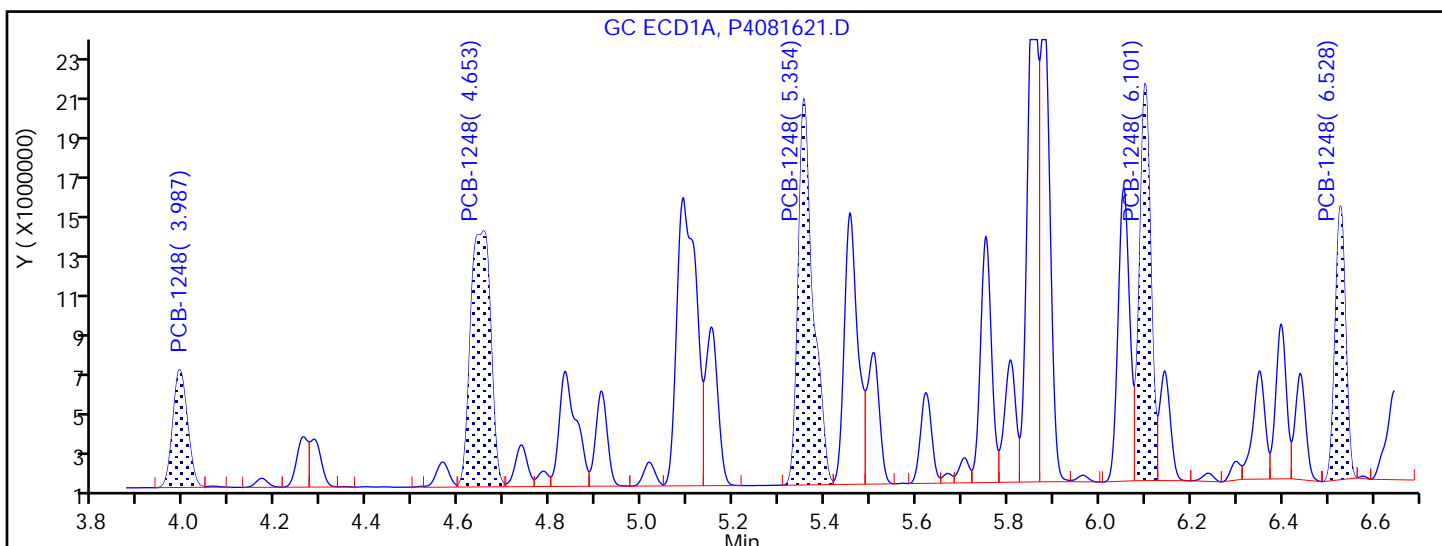
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.987	Response = 12319258
4.645	Response = 18925773
5.354	Response = 40874869
6.101	Response = 32261990
6.528	Response = 20582211



Manual Integration Results

3.987	Response = 12319258	
4.653	Response = 37011874	M
5.354	Response = 40874869	
6.101	Response = 32261990	
6.528	Response = 20582211	

Reviewer: WRR8, 17-Aug-2022 08:00:00

Audit Action: Assigned New Baseline

Calibration

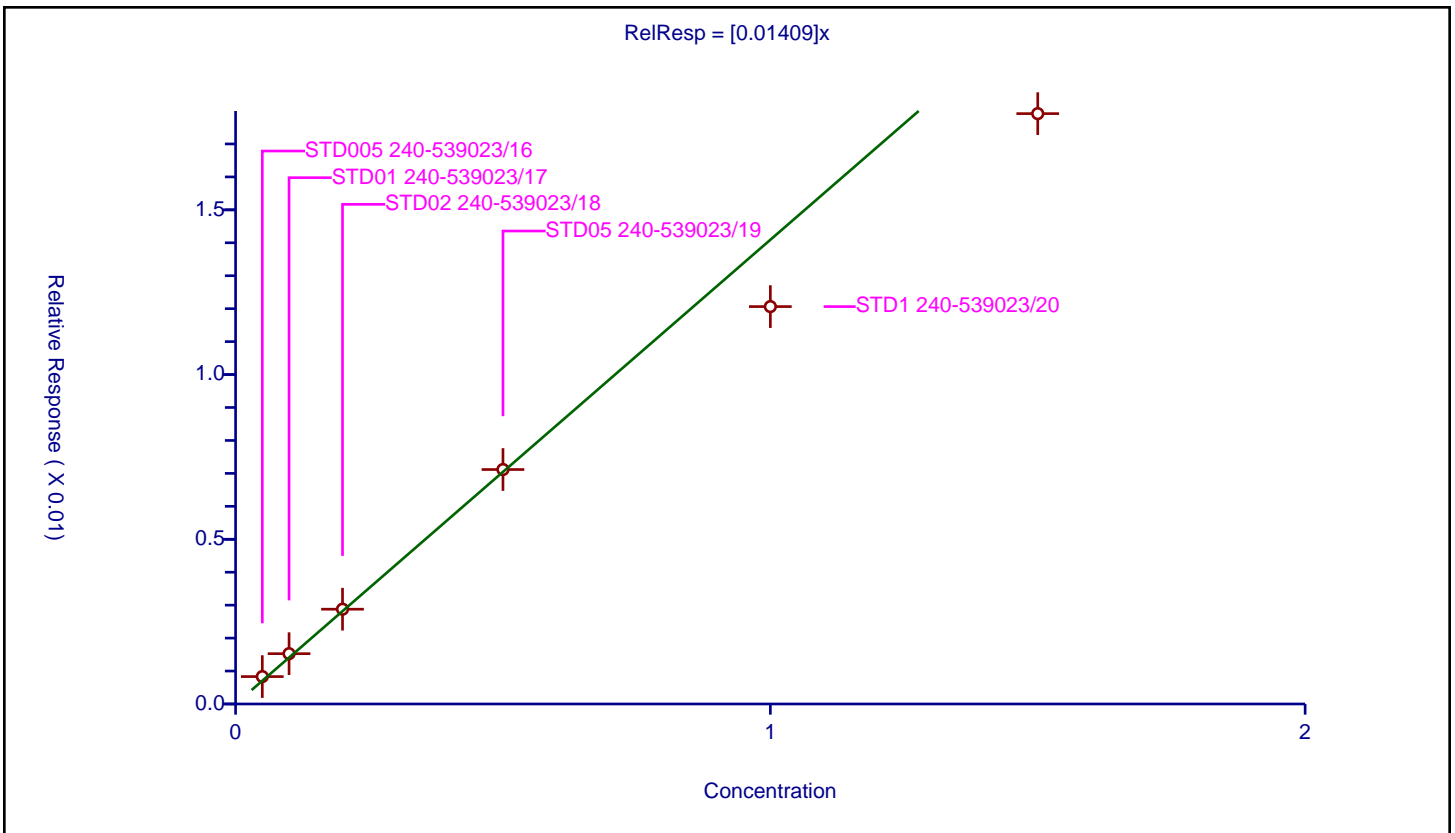
/ PCB-1248 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01409

Error Coefficients	
Standard Error:	7070000
Relative Standard Error:	13.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.000832	0.05	35064280.0	0.016643	Y
2	STD01 240-539023/17	0.1	0.001527	0.05	34639105.0	0.015269	Y
3	STD02 240-539023/18	0.2	0.002878	0.05	34694342.0	0.014388	Y
4	STD05 240-539023/19	0.5	0.007117	0.05	33438563.0	0.014235	Y
5	STD1 240-539023/20	1.0	0.012063	0.05	34771887.0	0.012063	Y
6	STD15 240-539023/21	1.5	0.017921	0.05	34371699.0	0.011947	Y



Calibration

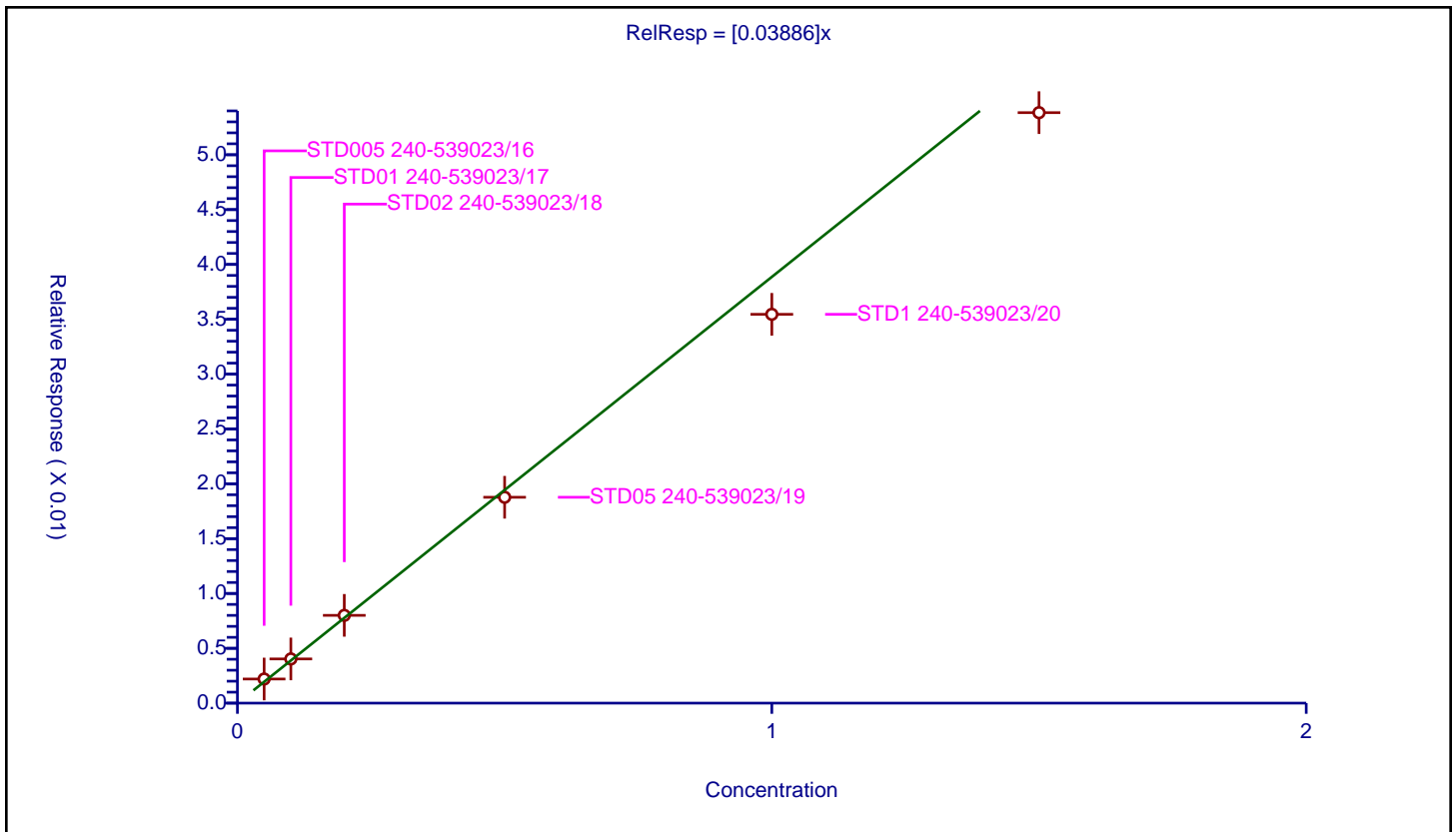
/ PCB-1248 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03886

Error Coefficients	
Standard Error:	20900000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.002199	0.05	35064280.0	0.043977	Y
2	STD01 240-539023/17	0.1	0.00403	0.05	34639105.0	0.040298	Y
3	STD02 240-539023/18	0.2	0.008002	0.05	34694342.0	0.04001	Y
4	STD05 240-539023/19	0.5	0.018772	0.05	33438563.0	0.037543	Y
5	STD1 240-539023/20	1.0	0.035451	0.05	34771887.0	0.035451	Y
6	STD15 240-539023/21	1.5	0.053841	0.05	34371699.0	0.035894	Y



Calibration

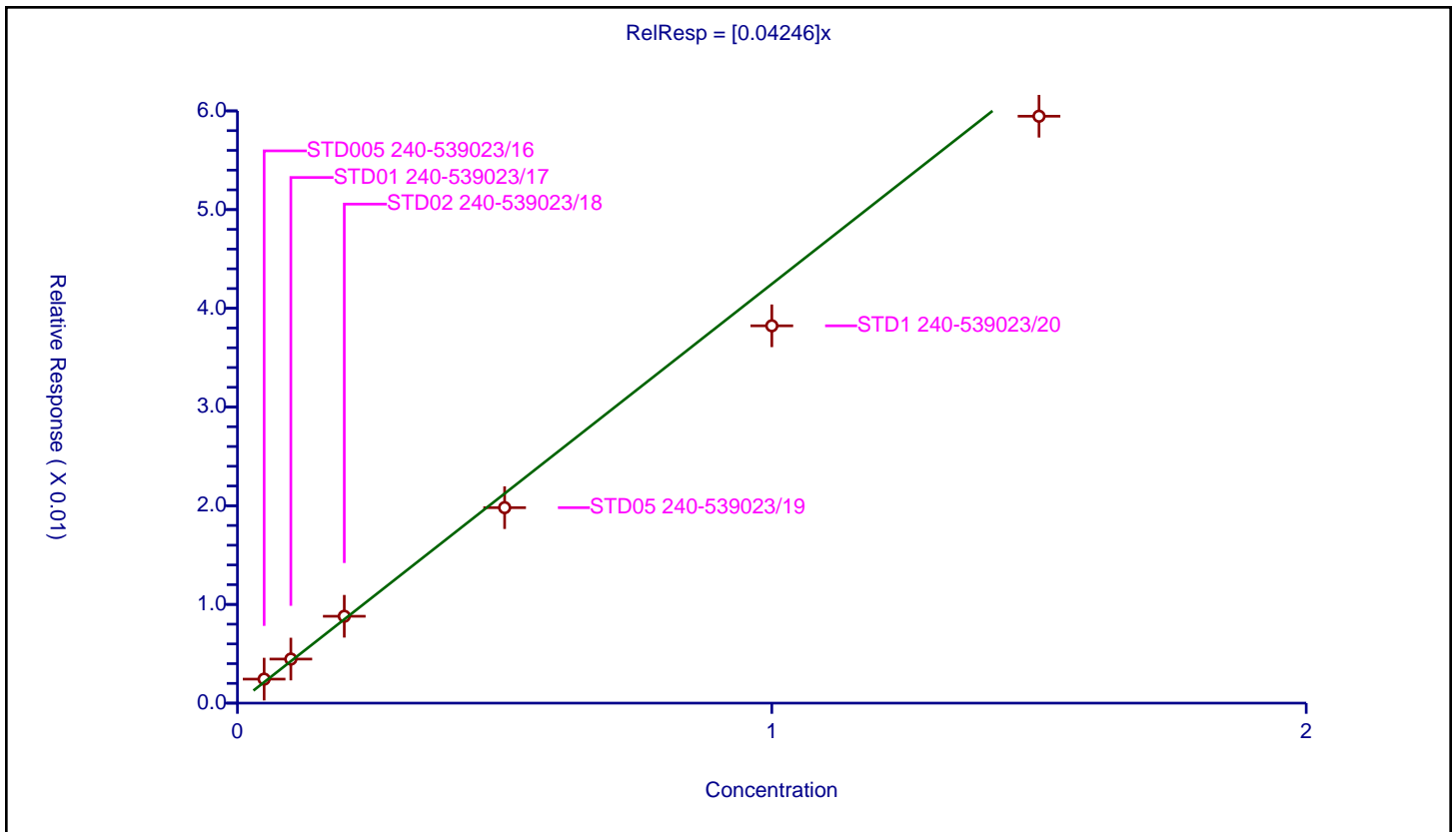
/ PCB-1248 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04246

Error Coefficients	
Standard Error:	22800000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.002433	0.05	35064280.0	0.04866	Y
2	STD01 240-539023/17	0.1	0.004464	0.05	34639105.0	0.044635	Y
3	STD02 240-539023/18	0.2	0.0088	0.05	34694342.0	0.044002	Y
4	STD05 240-539023/19	0.5	0.019804	0.05	33438563.0	0.039609	Y
5	STD1 240-539023/20	1.0	0.038228	0.05	34771887.0	0.038228	Y
6	STD15 240-539023/21	1.5	0.05946	0.05	34371699.0	0.03964	Y



Calibration

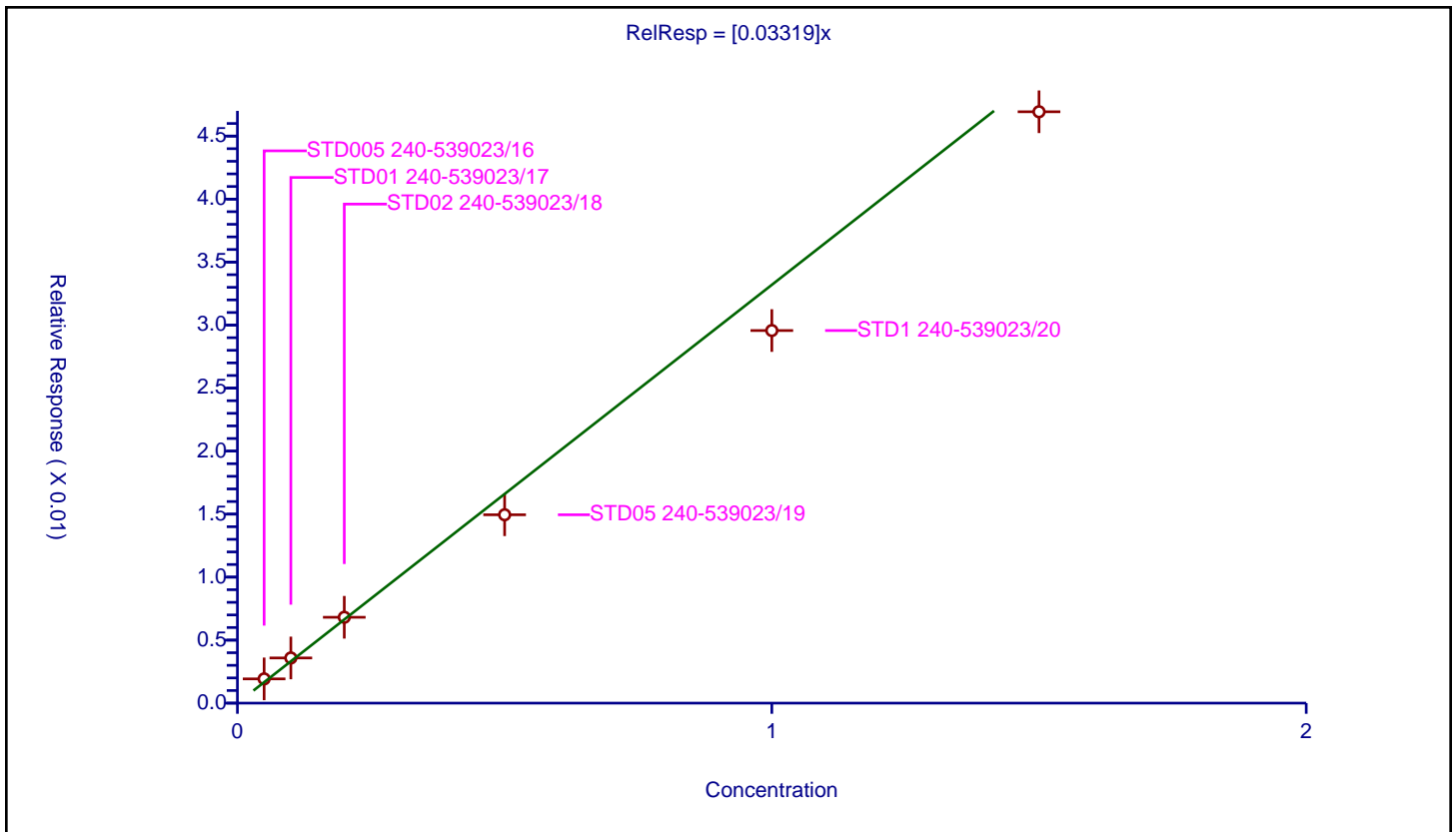
/ PCB-1248 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03319

Error Coefficients	
Standard Error:	17900000
Relative Standard Error:	10.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.001924	0.05	35064280.0	0.03848	Y
2	STD01 240-539023/17	0.1	0.003587	0.05	34639105.0	0.035866	Y
3	STD02 240-539023/18	0.2	0.006814	0.05	34694342.0	0.03407	Y
4	STD05 240-539023/19	0.5	0.014949	0.05	33438563.0	0.029898	Y
5	STD1 240-539023/20	1.0	0.029568	0.05	34771887.0	0.029568	Y
6	STD15 240-539023/21	1.5	0.046931	0.05	34371699.0	0.031287	Y



Calibration

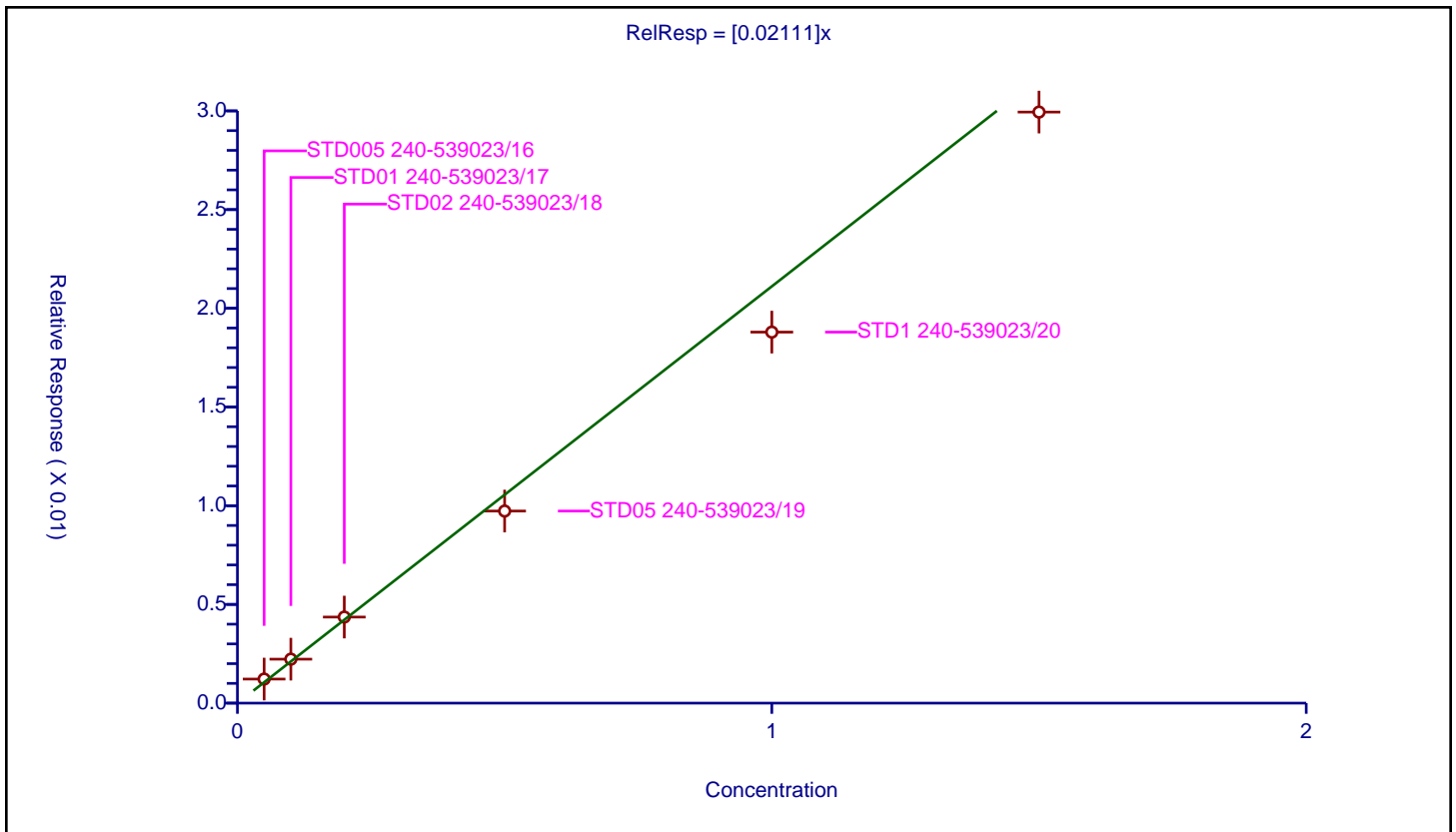
/ PCB-1248 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02111

Error Coefficients	
Standard Error:	11400000
Relative Standard Error:	9.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.001219	0.05	35064280.0	0.024374	Y
2	STD01 240-539023/17	0.1	0.002227	0.05	34639105.0	0.022269	Y
3	STD02 240-539023/18	0.2	0.00436	0.05	34694342.0	0.021801	Y
4	STD05 240-539023/19	0.5	0.009731	0.05	33438563.0	0.019461	Y
5	STD1 240-539023/20	1.0	0.018794	0.05	34771887.0	0.018794	Y
6	STD15 240-539023/21	1.5	0.029941	0.05	34371699.0	0.01996	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:50 Calibration End Date: 08/16/2022 15:18 Calibration ID: 67245

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/16	P4081616.D
Level 2	STD01 240-539023/17	P4081617.D
Level 3	STD02 240-539023/18	P4081618.D
Level 4	STD05 240-539023/19	P4081619.D
Level 5	STD1 240-539023/20	P4081620.D
Level 6	STD15 240-539023/21	P4081621.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0142 0.0111	0.0131	0.0129	0.0130	0.0112	Ave		0.012 6			9.5		20.0				
PCB-1248 Peak 2	0.0395 0.0322	0.0368	0.0357	0.0339	0.0316	Ave		0.034 9			8.6		20.0				
PCB-1248 Peak 3	0.0334 0.0287	0.0313	0.0312	0.0276	0.0277	Ave		0.030 0			7.9		20.0				
PCB-1248 Peak 4	0.0373 0.0334	0.0367	0.0361	0.0317	0.0321	Ave		0.034 6			7.0		20.0				
PCB-1248 Peak 5	0.0192 0.0171	0.0187	0.0181	0.0167	0.0164	Ave		0.017 7			6.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 13:50 Calibration End Date: 08/16/2022 15:18 Calibration ID: 67245

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/16	P4081616.D
Level 2	STD01 240-539023/17	P4081617.D
Level 3	STD02 240-539023/18	P4081618.D
Level 4	STD05 240-539023/19	P4081619.D
Level 5	STD1 240-539023/20	P4081620.D
Level 6	STD15 240-539023/21	P4081621.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	693457 15979141	1263923	2504957	6101796	10927825	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	1934820 46310691	3558748	6922798	15956373	30875413	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	1637091 41272490	3027606	6051804	12990471	27037102	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	1824269 48145181	3548400	7010201	14943196	31368295	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	940495 24656829	1812533	3508966	7876584	16028230	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081616.D
 Lims ID: std005 1248
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 13:50:20 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-016
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:18 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:57:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.757	1.751	0.006	35064280	0.0500	0.0500	
2	2.026	2.020	0.006	48964307	0.0500	0.0500	
7 PCB-1248							M
1	3.990	3.990	0.000	583568	0.0500	0.0591	
1	4.656	4.656	0.000	1542019	0.0500	0.0566	M
1	5.355	5.355	0.000	1706214	0.0500	0.0573	
1	6.101	6.101	0.000	1349287	0.0500	0.0580	
1	6.528	6.528	0.000	854649	0.0500	0.0577	
Average of Peak Amounts =						0.0577	
2	4.947	4.947	0.000	693457	0.0500	0.0564	
2	5.536	5.536	0.000	1934820	0.0500	0.0565	
2	6.395	6.395	0.000	1637091	0.0500	0.0558	
2	6.727	6.727	0.000	1824269	0.0500	0.0539	
2	7.403	7.403	0.000	940495	0.0500	0.0542	
Average of Peak Amounts =						0.0553	
RPD = 4.20							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@.05ppm_00034

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081616.D

Injection Date: 16-Aug-2022 13:50:20

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1248

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

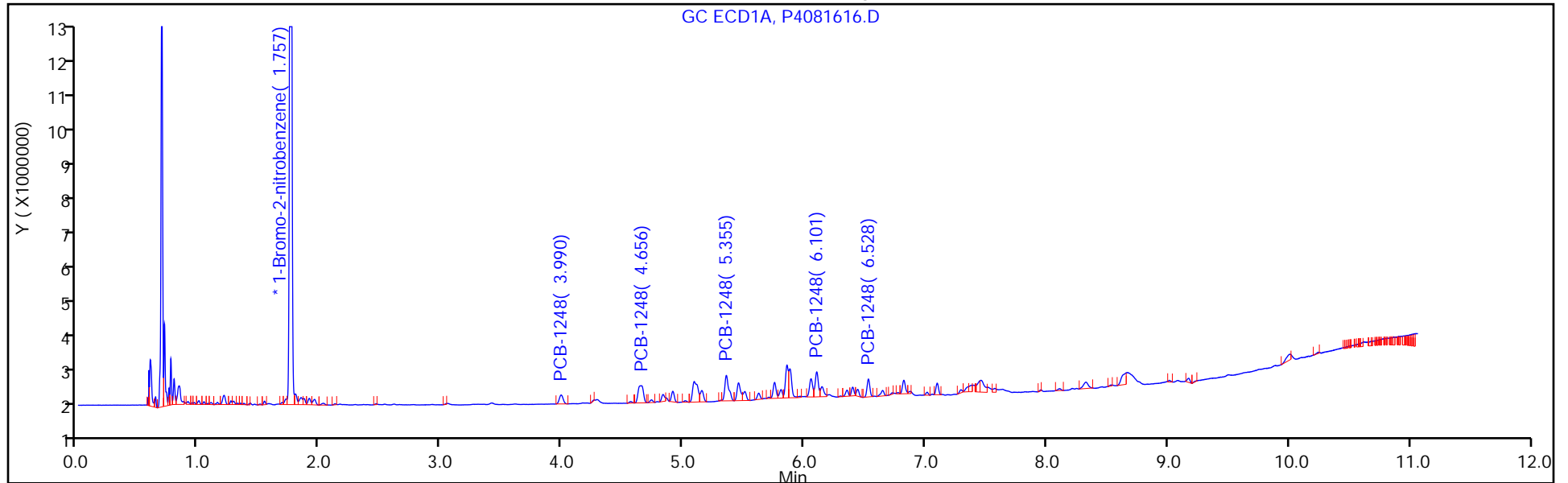
ALS Bottle#: 16

Method: PCB4 is

Limit Group: GC 8082A IS

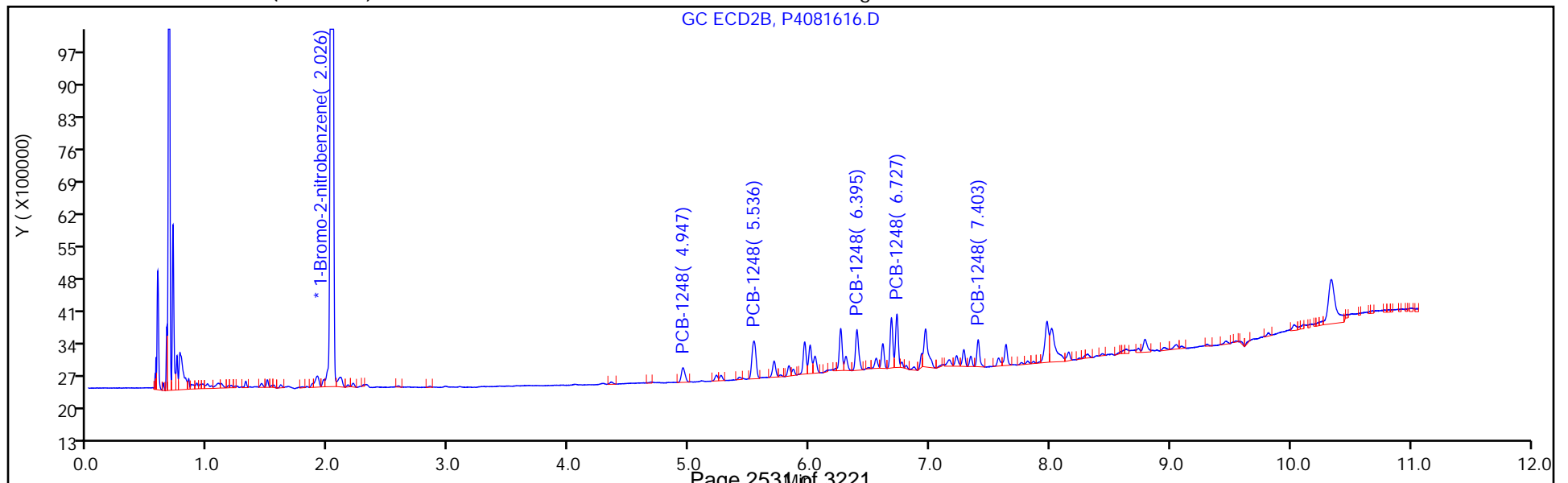
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081617.D
 Lims ID: std01 1248
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 14:07:59 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-017
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:22 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:57:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.755	1.751	0.003	34639105	0.0500	0.0500	
2	2.025	2.020	0.004	48349131	0.0500	0.0500	
7 PCB-1248							M
1	3.988	3.990	-0.002	1057838	0.1000	0.1084	
1	4.655	4.656	-0.001	2791754	0.1000	0.1037	M
1	5.354	5.355	-0.001	3092263	0.1000	0.1051	
1	6.097	6.101	-0.004	2484709	0.1000	0.1080	
1	6.522	6.528	-0.006	1542751	0.1000	0.1055	
Average of Peak Amounts =						0.1061	
2	4.947	4.947	0.000	1263923	0.1000	0.1040	
2	5.536	5.536	0.000	3558748	0.1000	0.1053	
2	6.389	6.395	-0.006	3027606	0.1000	0.1044	
2	6.721	6.727	-0.006	3548400	0.1000	0.1062	
2	7.399	7.403	-0.004	1812533	0.1000	0.1058	
Average of Peak Amounts =						0.1051	
RPD = 0.95							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.1PPM_00038

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081617.D

Injection Date: 16-Aug-2022 14:07:59

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1248

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

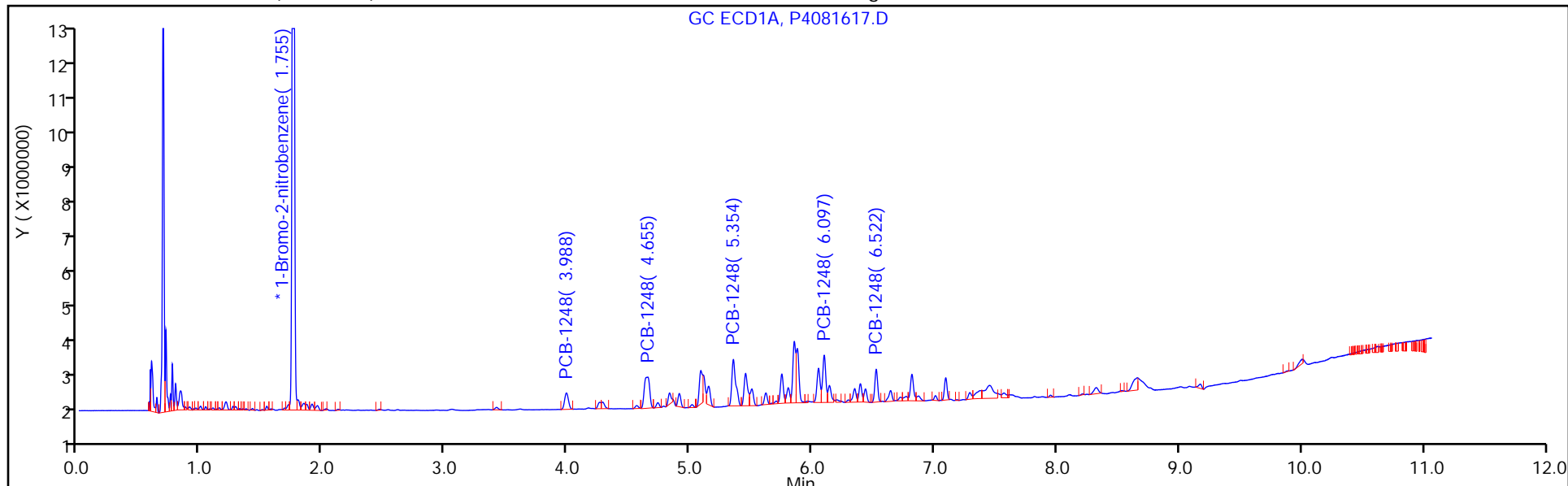
ALS Bottle#: 17

Method: PCB4 is

Limit Group: GC 8082A IS

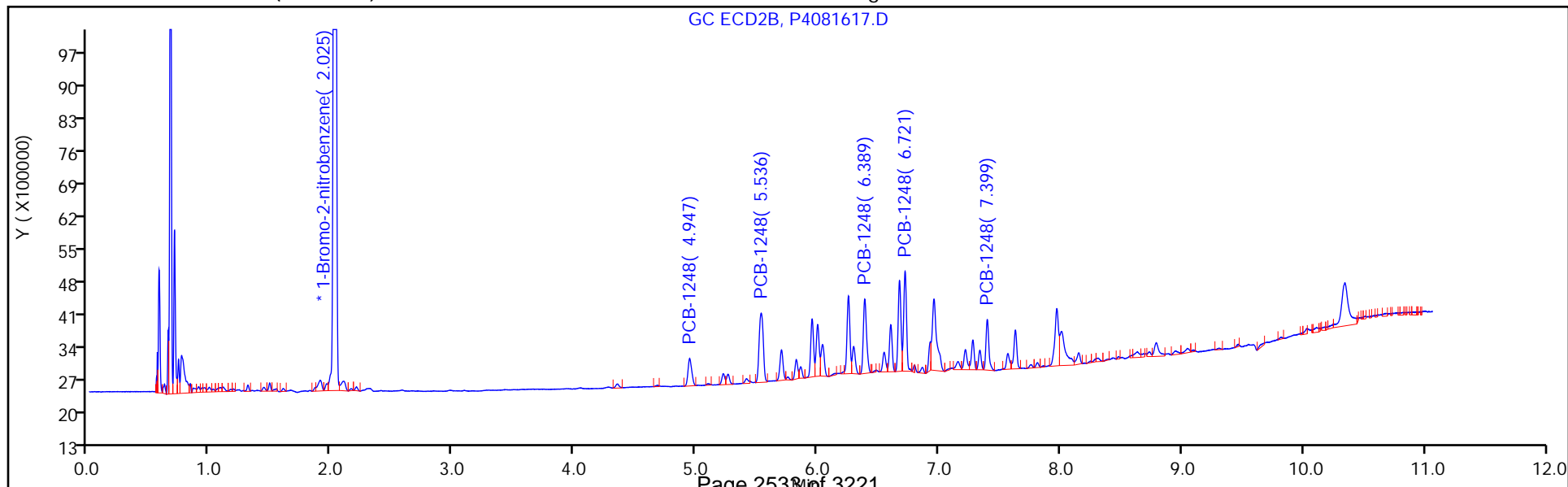
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081618.D
 Lims ID: std02 1248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 14:25:38 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-018
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:26 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:58:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.754	1.751	0.003	34694342	0.0500	0.0500	
2	2.023	2.020	0.003	48508964	0.0500	0.0500	
7 PCB-1248							M
1	3.982	3.990	-0.008	1996764	0.2000	0.2042	
1	4.635	4.656	-0.021	5552449	0.2000	0.2059	M
1	5.351	5.355	-0.004	6106503	0.2000	0.2073	
1	6.099	6.101	-0.002	4728083	0.2000	0.2053	
1	6.526	6.528	-0.002	3025476	0.2000	0.2065	
Average of Peak Amounts =						0.2058	
2	4.942	4.947	-0.005	2504957	0.2000	0.2055	
2	5.535	5.536	-0.001	6922798	0.2000	0.2042	
2	6.392	6.395	-0.003	6051804	0.2000	0.2081	
2	6.725	6.727	-0.002	7010201	0.2000	0.2090	
2	7.401	7.403	-0.002	3508966	0.2000	0.2041	
Average of Peak Amounts =						0.2062	
RPD = 0.16							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.2ppm_00033

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081618.D

Injection Date: 16-Aug-2022 14:25:38

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1248

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

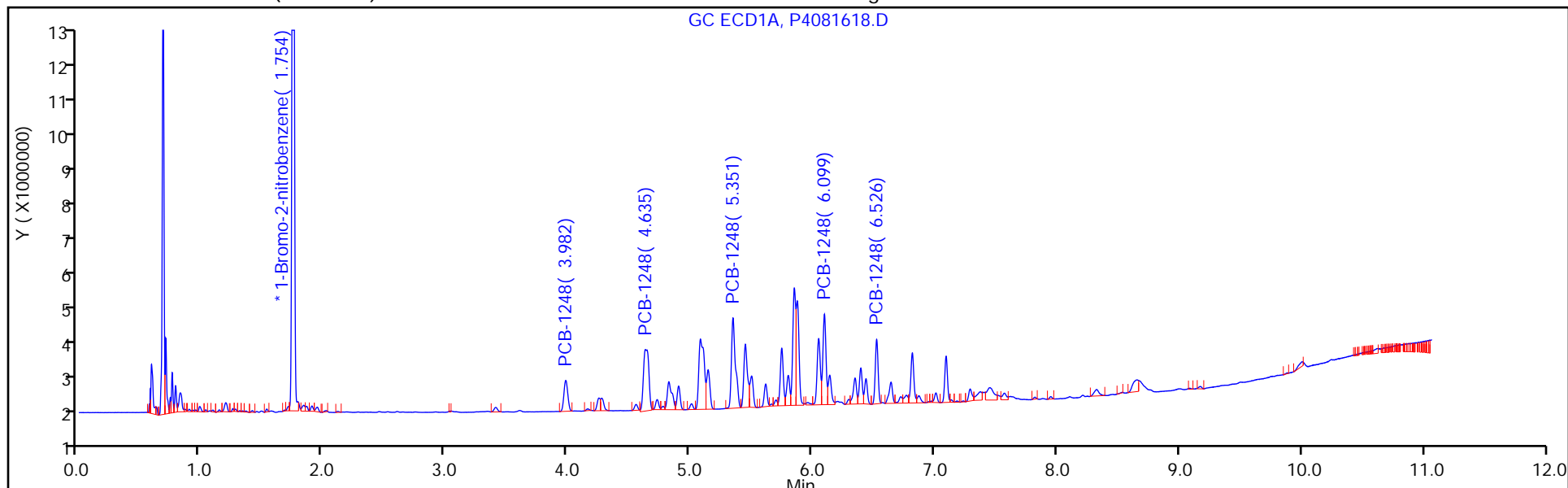
ALS Bottle#: 18

Method: PCB4 is

Limit Group: GC 8082A IS

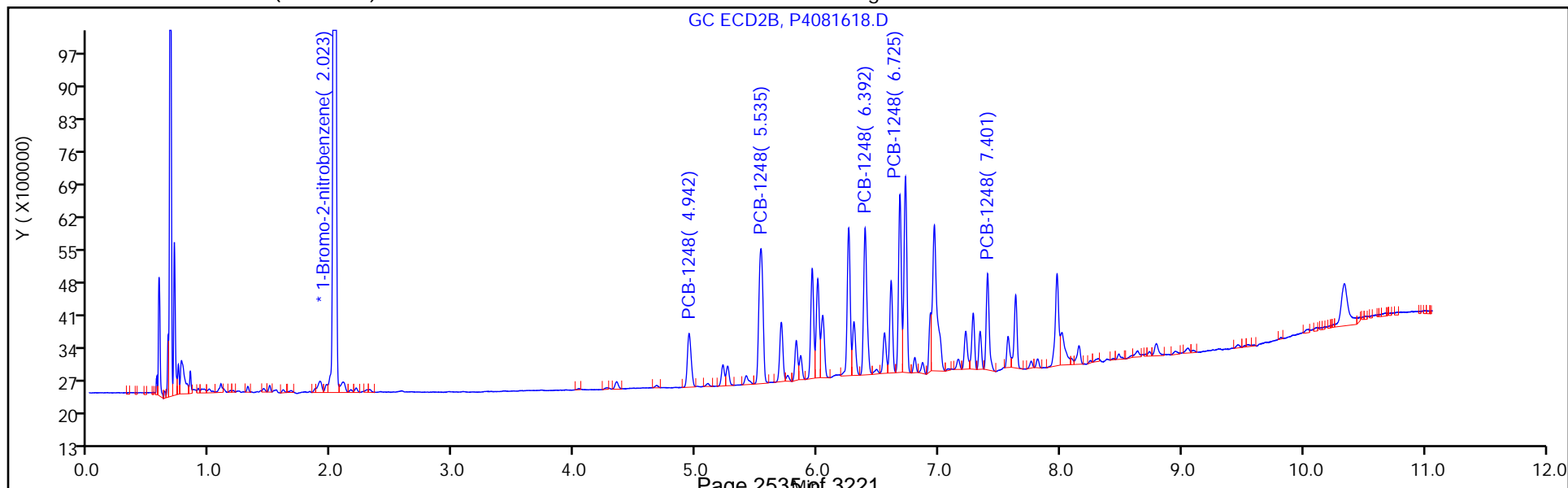
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081619.D
 Lims ID: std05 1248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 14:43:17 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-019
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:30 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:58:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.757	1.751	0.005	33438563	0.0500	0.0500	
2	2.026	2.020	0.005	47081942	0.0500	0.0500	
7 PCB-1248							M
1	3.992	3.990	0.002	4759929	0.5000	0.5051	
1	4.655	4.656	-0.001	12553987	0.5000	0.4830	M
1	5.355	5.355	0.000	13244660	0.5000	0.4664	M
1	6.101	6.101	0.000	9997474	0.5000	0.4503	
1	6.527	6.528	-0.001	6507573	0.5000	0.4610	
Average of Peak Amounts =						0.4732	
2	4.948	4.947	0.001	6101796	0.5000	0.5157	
2	5.540	5.536	0.004	15956373	0.5000	0.4849	
2	6.394	6.395	-0.001	12990471	0.5000	0.4601	
2	6.726	6.727	-0.001	14943196	0.5000	0.4591	
2	7.402	7.403	-0.001	7876584	0.5000	0.4721	
Average of Peak Amounts =						0.4784	
RPD = 1.09							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.5ppm_00058

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081619.D

Injection Date: 16-Aug-2022 14:43:17

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1248

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

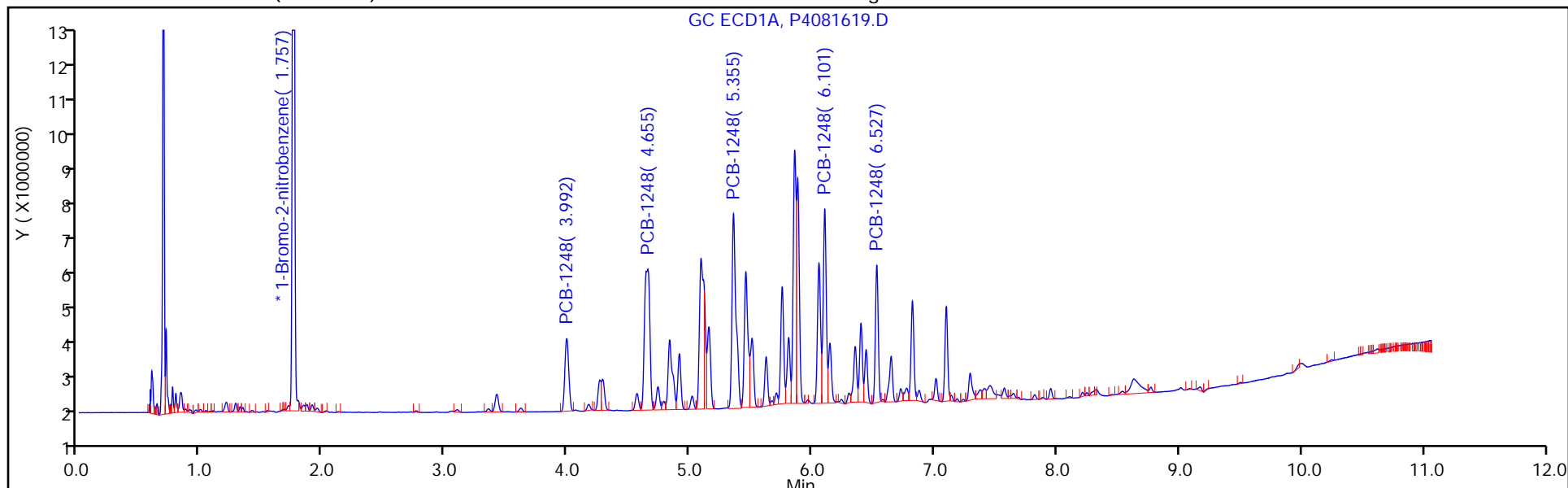
ALS Bottle#: 19

Method: PCB4 is

Limit Group: GC 8082A IS

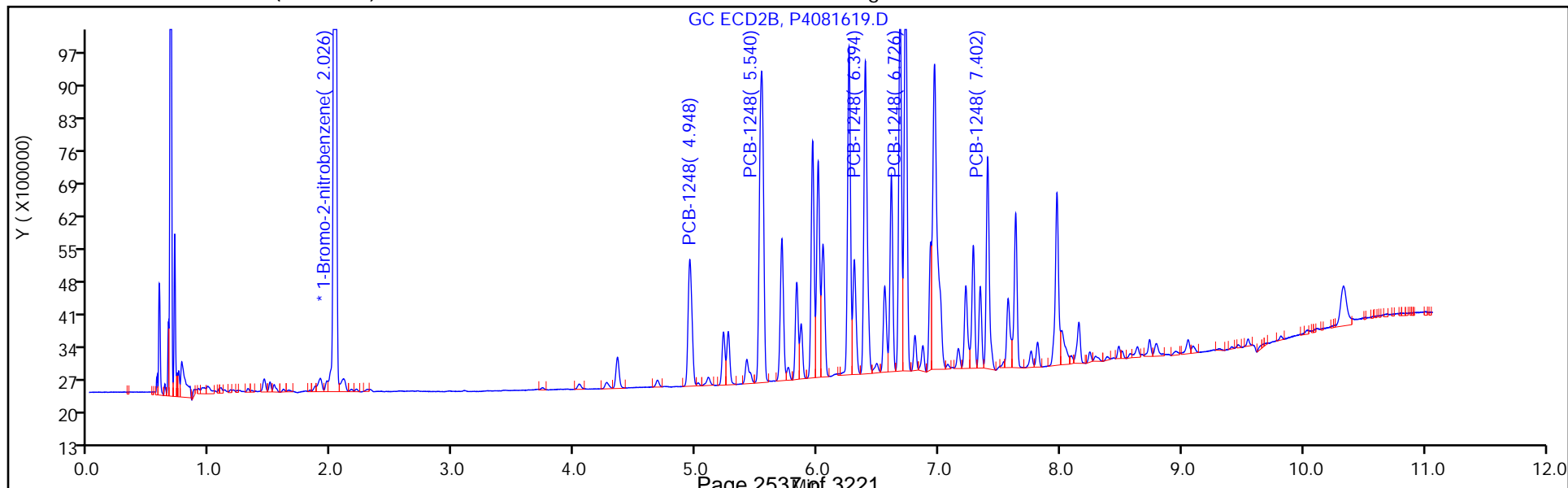
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081620.D
 Lims ID: std1 1248
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 15:00:52 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-020
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:35 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:59:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.756	1.751	0.004	34771887	0.0500	0.0500	
2	2.026	2.020	0.005	48785725	0.0500	0.0500	
7 PCB-1248							
1	3.987	3.990	-0.003	8389214	1.00	0.8561	M
1	4.653	4.656	-0.003	24653698	1.00	0.9122	M
1	5.352	5.355	-0.003	26584995	1.00	0.9003	
1	6.096	6.101	-0.005	20562699	1.00	0.8907	
1	6.523	6.528	-0.005	13069884	1.00	0.8903	
Average of Peak Amounts =						0.8899	
2	4.947	4.947	0.000	10927825	1.00	0.8913	
2	5.536	5.536	0.000	30875413	1.00	0.9055	
2	6.389	6.395	-0.006	27037102	1.00	0.9242	
2	6.721	6.727	-0.006	31368295	1.00	0.9301	
2	7.393	7.403	-0.010	16028230	1.00	0.9271	
Average of Peak Amounts =						0.9156	
RPD = 2.85							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@1.0ppm_00044

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081620.D

Injection Date: 16-Aug-2022 15:00:52

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1248

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

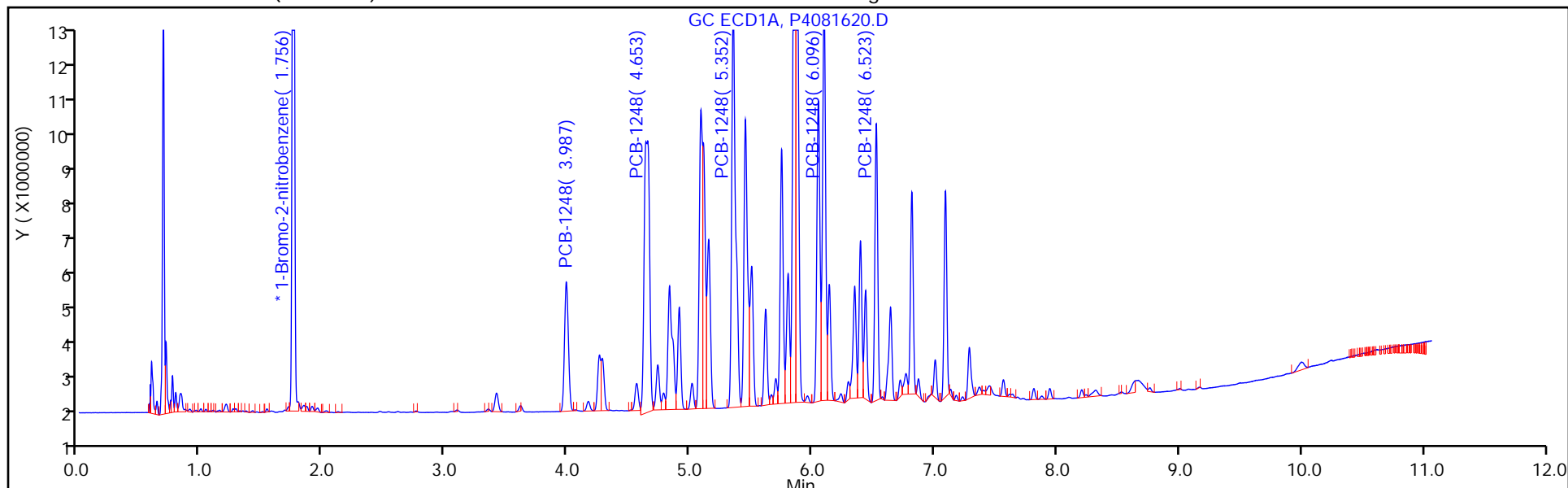
ALS Bottle#: 20

Method: PCB4 is

Limit Group: GC 8082A IS

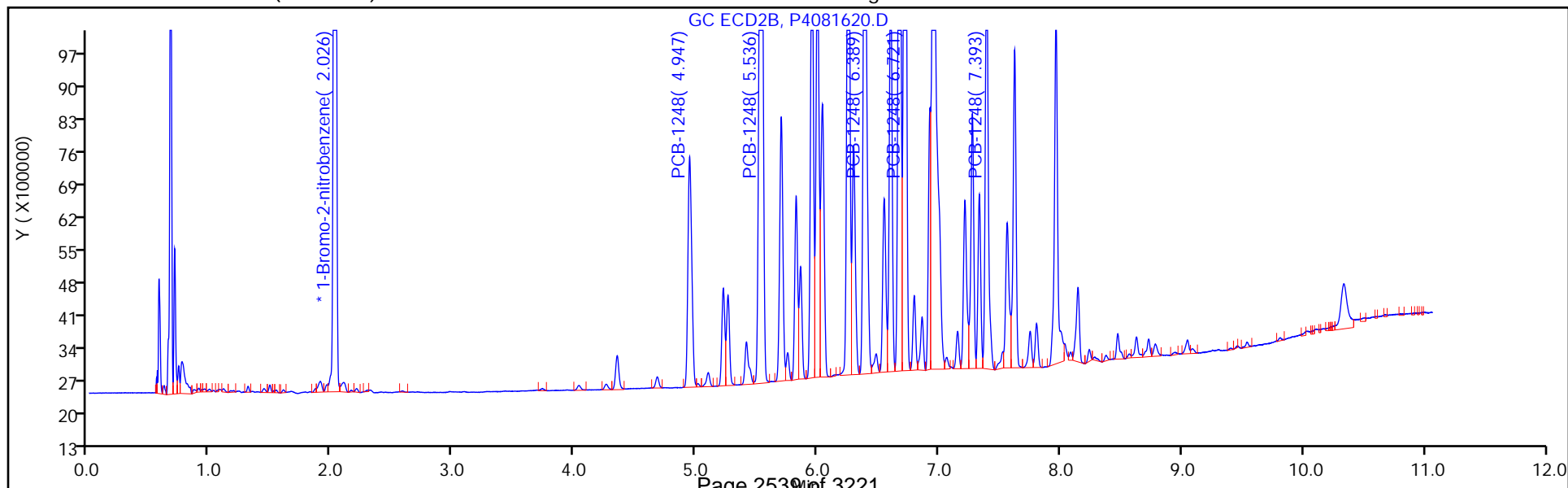
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081621.D
 Lims ID: std15 1248
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 15:18:42 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-021
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:39 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 07:59:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.751	1.751	0.000	34371699	0.0500	0.0500	
2	2.021	2.020	0.001	48009342	0.0500	0.0500	
7 PCB-1248							M
1	3.987	3.990	-0.003	12319258	1.50	1.27	
1	4.653	4.656	-0.003	37011874	1.50	1.39	M
1	5.354	5.355	-0.001	40874869	1.50	1.40	
1	6.101	6.101	0.000	32261990	1.50	1.41	
1	6.528	6.528	0.000	20582211	1.50	1.42	
Average of Peak Amounts =						1.38	
2	4.946	4.947	-0.001	15979141	1.50	1.32	
2	5.537	5.536	0.001	46310691	1.50	1.38	
2	6.395	6.395	0.000	41272490	1.50	1.43	
2	6.727	6.727	0.000	48145181	1.50	1.45	
2	7.403	7.403	0.000	24656829	1.50	1.45	
Average of Peak Amounts =						1.41	
RPD = 2.13							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@1.5ppm_00013

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:11:41

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081621.D

Injection Date: 16-Aug-2022 15:18:42

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1248

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

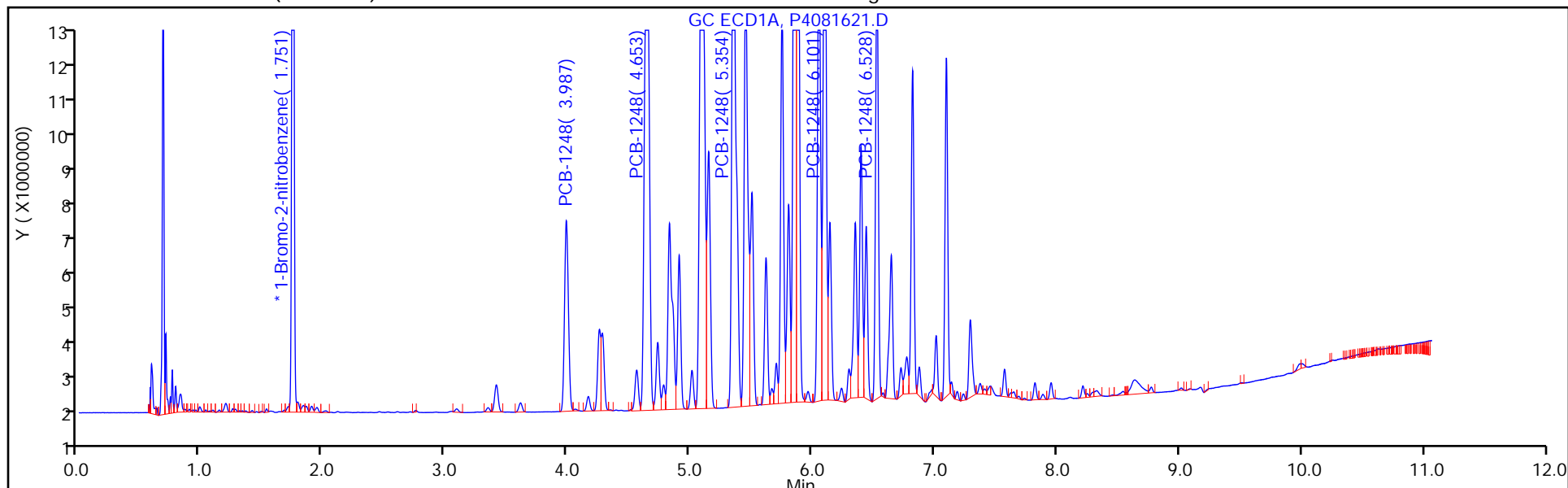
ALS Bottle#: 21

Method: PCB4 is

Limit Group: GC 8082A IS

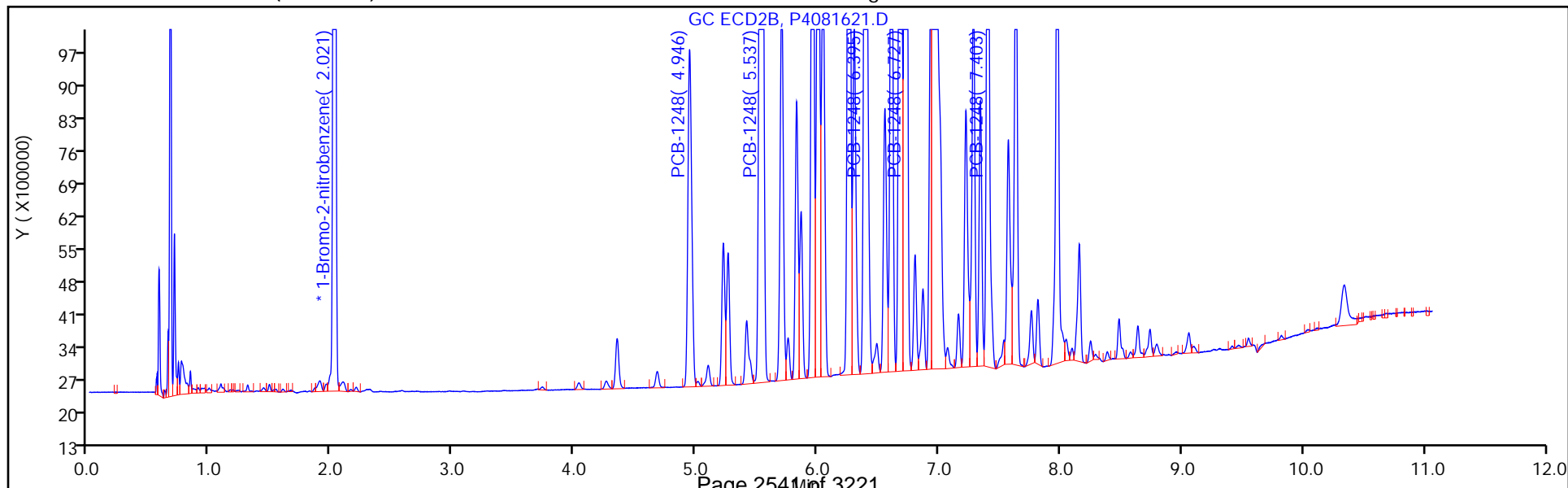
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

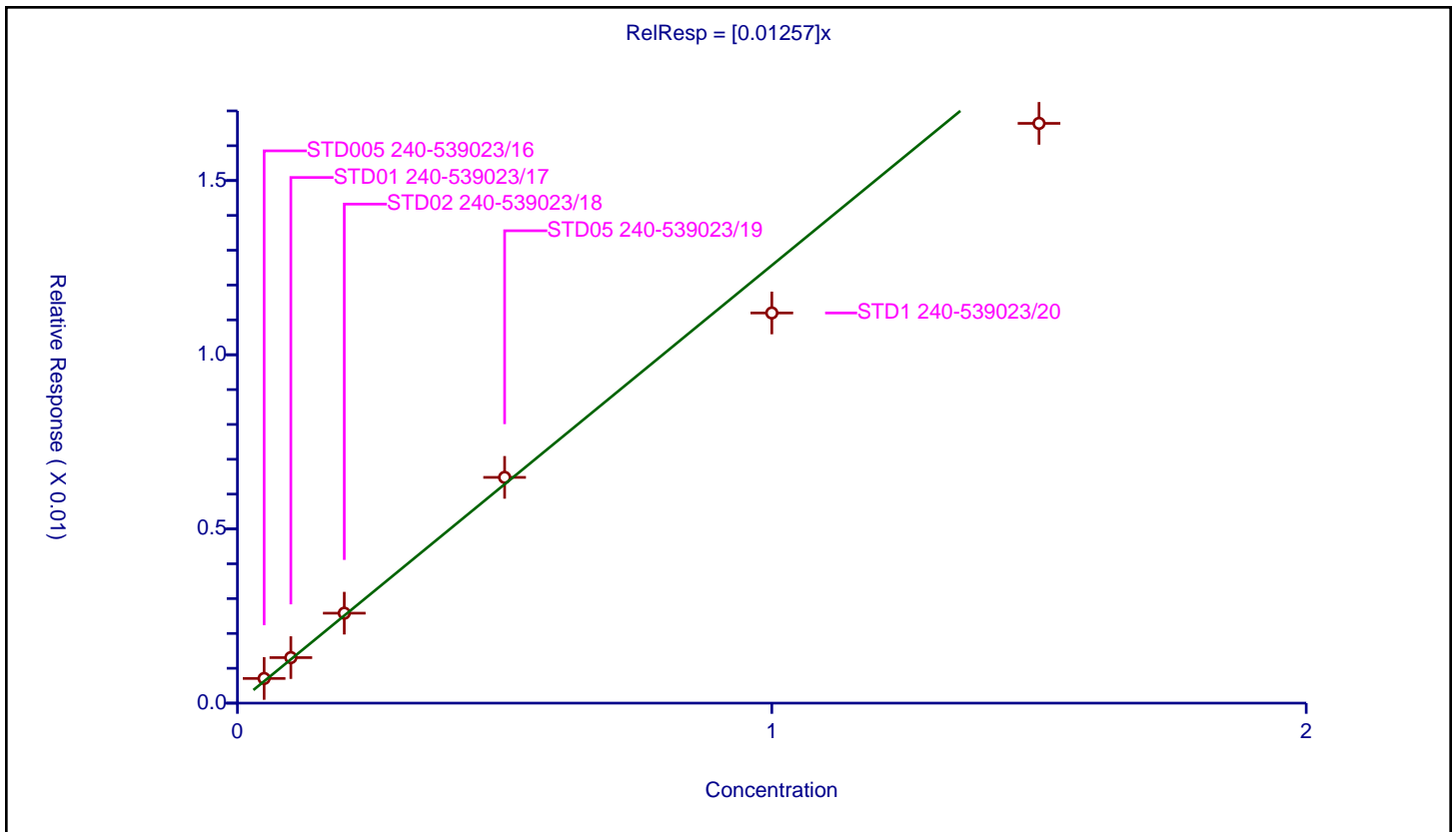
/ PCB-1248 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01257

Error Coefficients	
Standard Error:	9170000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.000708	0.05	48964307.0	0.014163	Y
2	STD01 240-539023/17	0.1	0.001307	0.05	48349131.0	0.013071	Y
3	STD02 240-539023/18	0.2	0.002582	0.05	48508964.0	0.01291	Y
4	STD05 240-539023/19	0.5	0.00648	0.05	47081942.0	0.01296	Y
5	STD1 240-539023/20	1.0	0.0112	0.05	48785725.0	0.0112	Y
6	STD15 240-539023/21	1.5	0.016642	0.05	48009342.0	0.011094	Y



Calibration

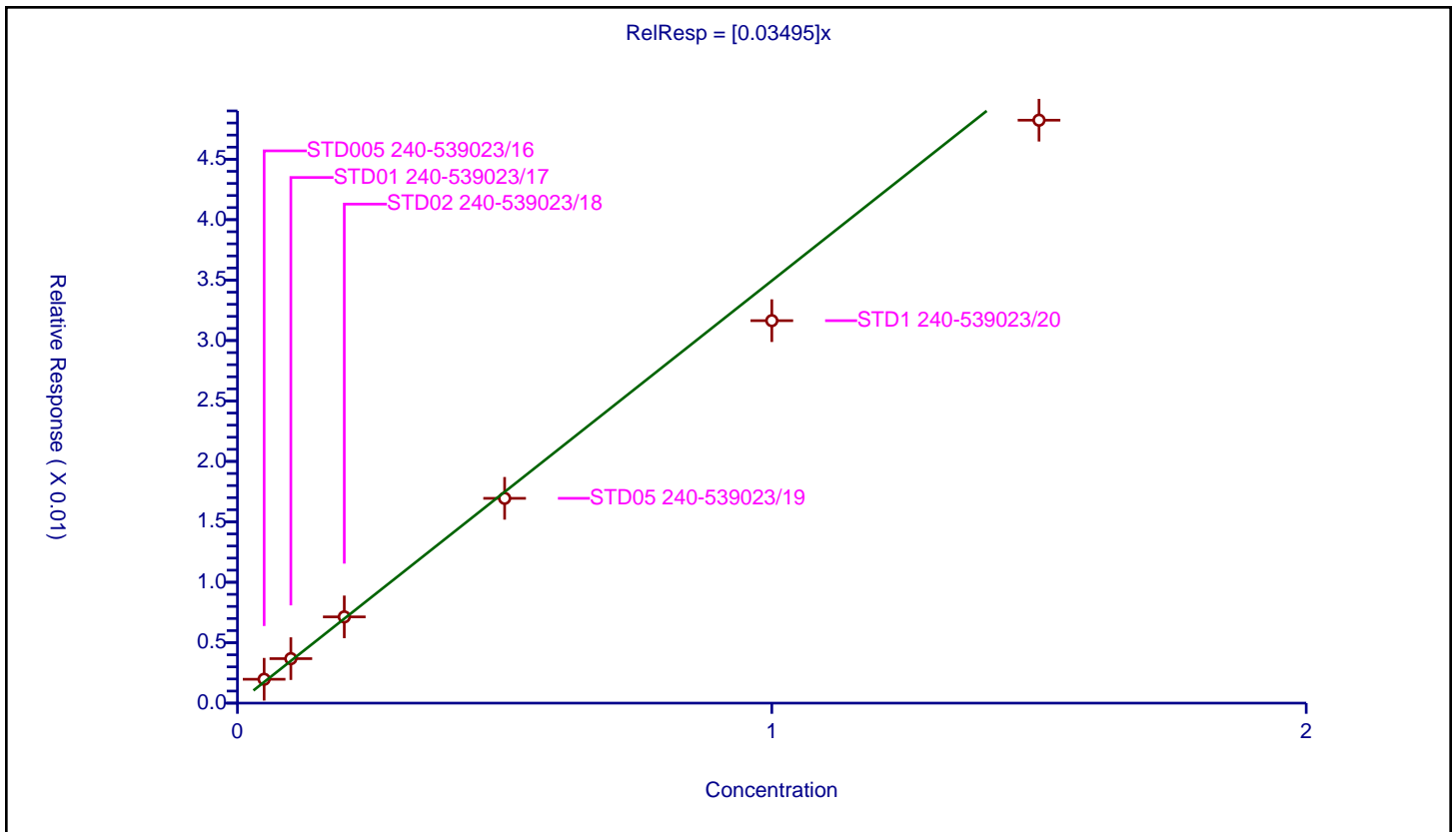
/ PCB-1248 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03495

Error Coefficients	
Standard Error:	26100000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.001976	0.05	48964307.0	0.039515	Y
2	STD01 240-539023/17	0.1	0.00368	0.05	48349131.0	0.036803	Y
3	STD02 240-539023/18	0.2	0.007136	0.05	48508964.0	0.035678	Y
4	STD05 240-539023/19	0.5	0.016945	0.05	47081942.0	0.033891	Y
5	STD1 240-539023/20	1.0	0.031644	0.05	48785725.0	0.031644	Y
6	STD15 240-539023/21	1.5	0.048231	0.05	48009342.0	0.032154	Y



Calibration

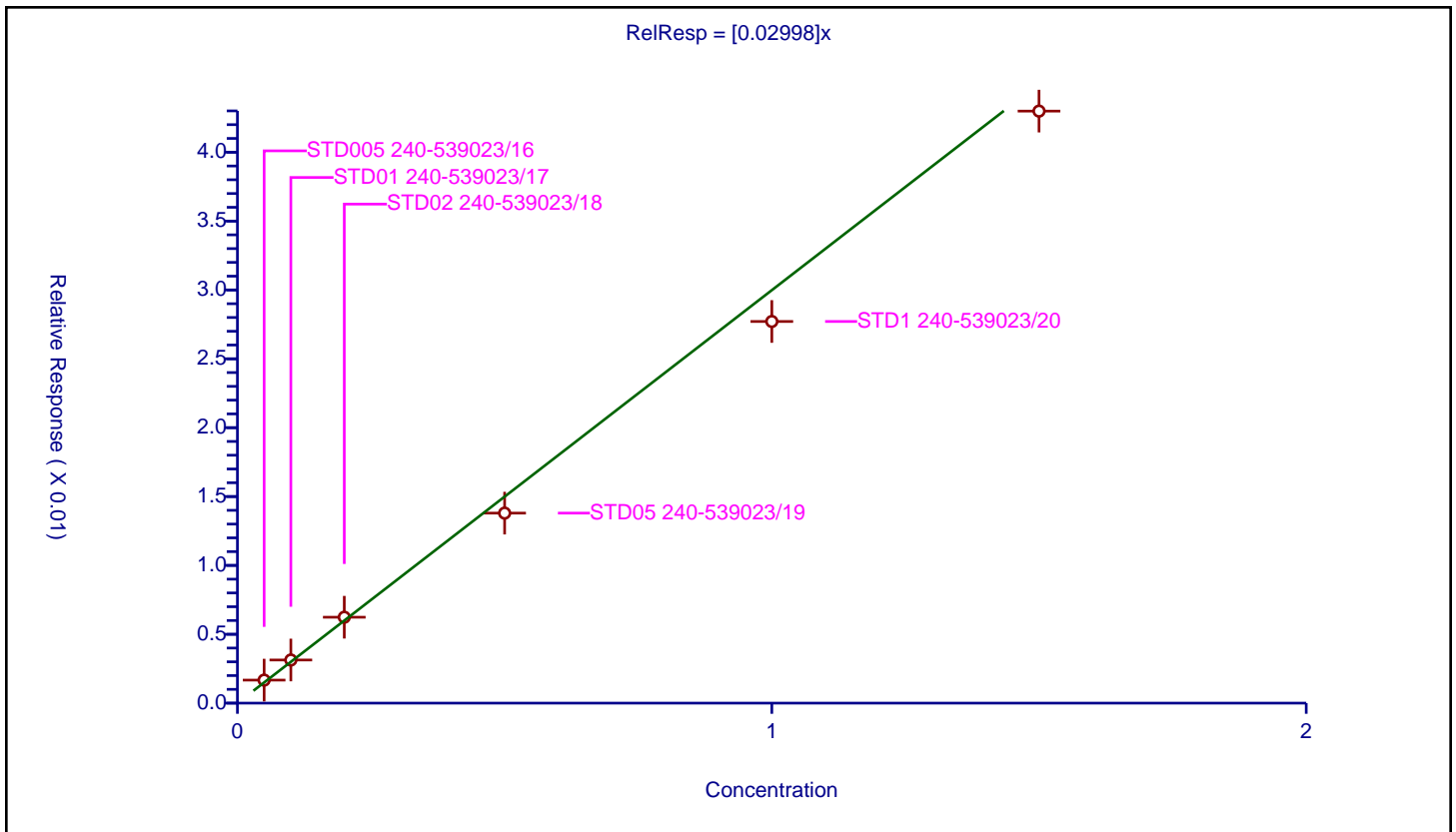
/ PCB-1248 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02998

Error Coefficients	
Standard Error:	23000000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.001672	0.05	48964307.0	0.033434	Y
2	STD01 240-539023/17	0.1	0.003131	0.05	48349131.0	0.03131	Y
3	STD02 240-539023/18	0.2	0.006238	0.05	48508964.0	0.031189	Y
4	STD05 240-539023/19	0.5	0.013796	0.05	47081942.0	0.027591	Y
5	STD1 240-539023/20	1.0	0.02771	0.05	48785725.0	0.02771	Y
6	STD15 240-539023/21	1.5	0.042984	0.05	48009342.0	0.028656	Y



Calibration

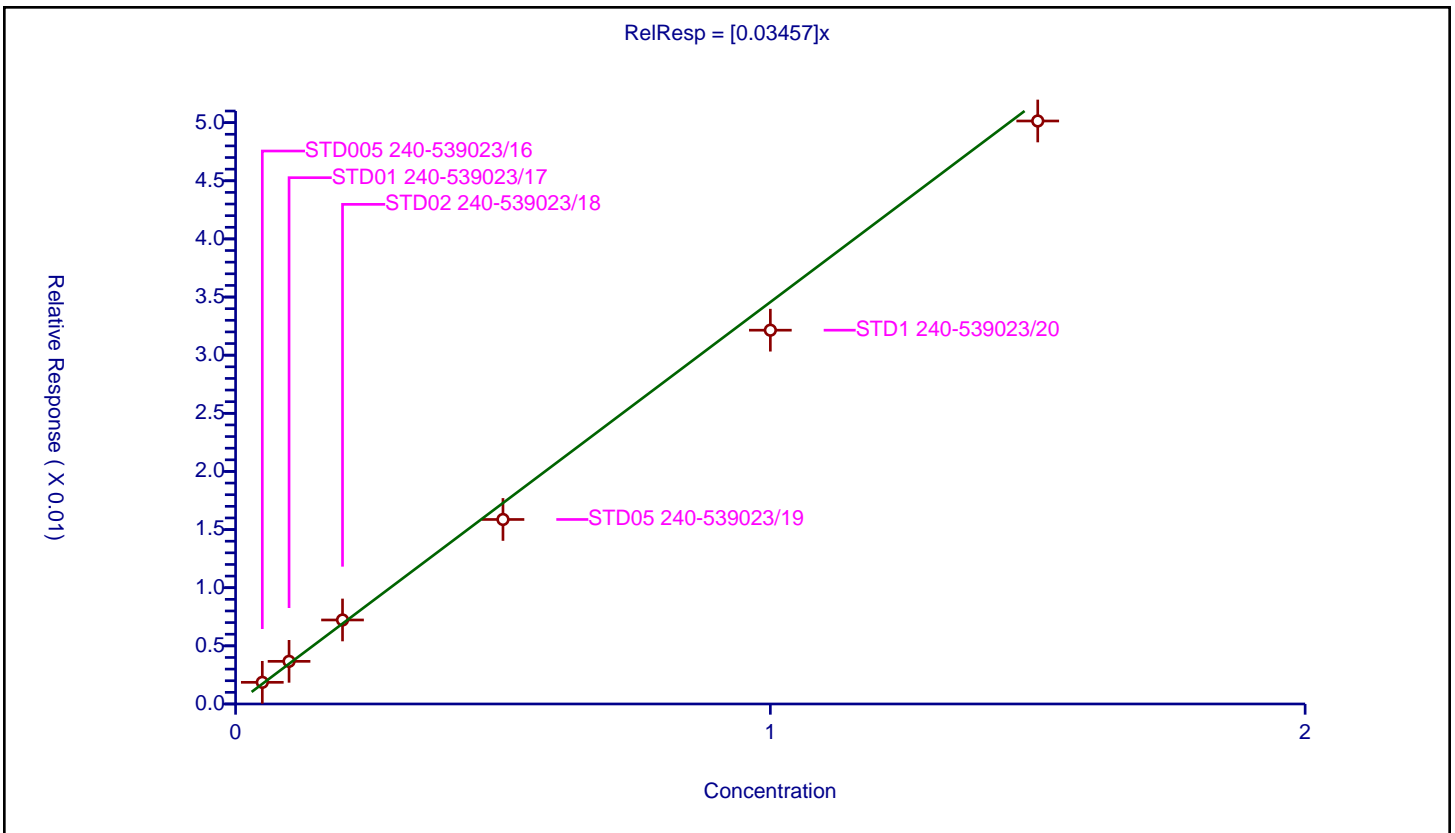
/ PCB-1248 Peak 4

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03457

Error Coefficients	
Standard Error:	26800000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.001863	0.05	48964307.0	0.037257	Y
2	STD01 240-539023/17	0.1	0.00367	0.05	48349131.0	0.036696	Y
3	STD02 240-539023/18	0.2	0.007226	0.05	48508964.0	0.036128	Y
4	STD05 240-539023/19	0.5	0.015869	0.05	47081942.0	0.031739	Y
5	STD1 240-539023/20	1.0	0.032149	0.05	48785725.0	0.032149	Y
6	STD15 240-539023/21	1.5	0.050141	0.05	48009342.0	0.033428	Y



Calibration

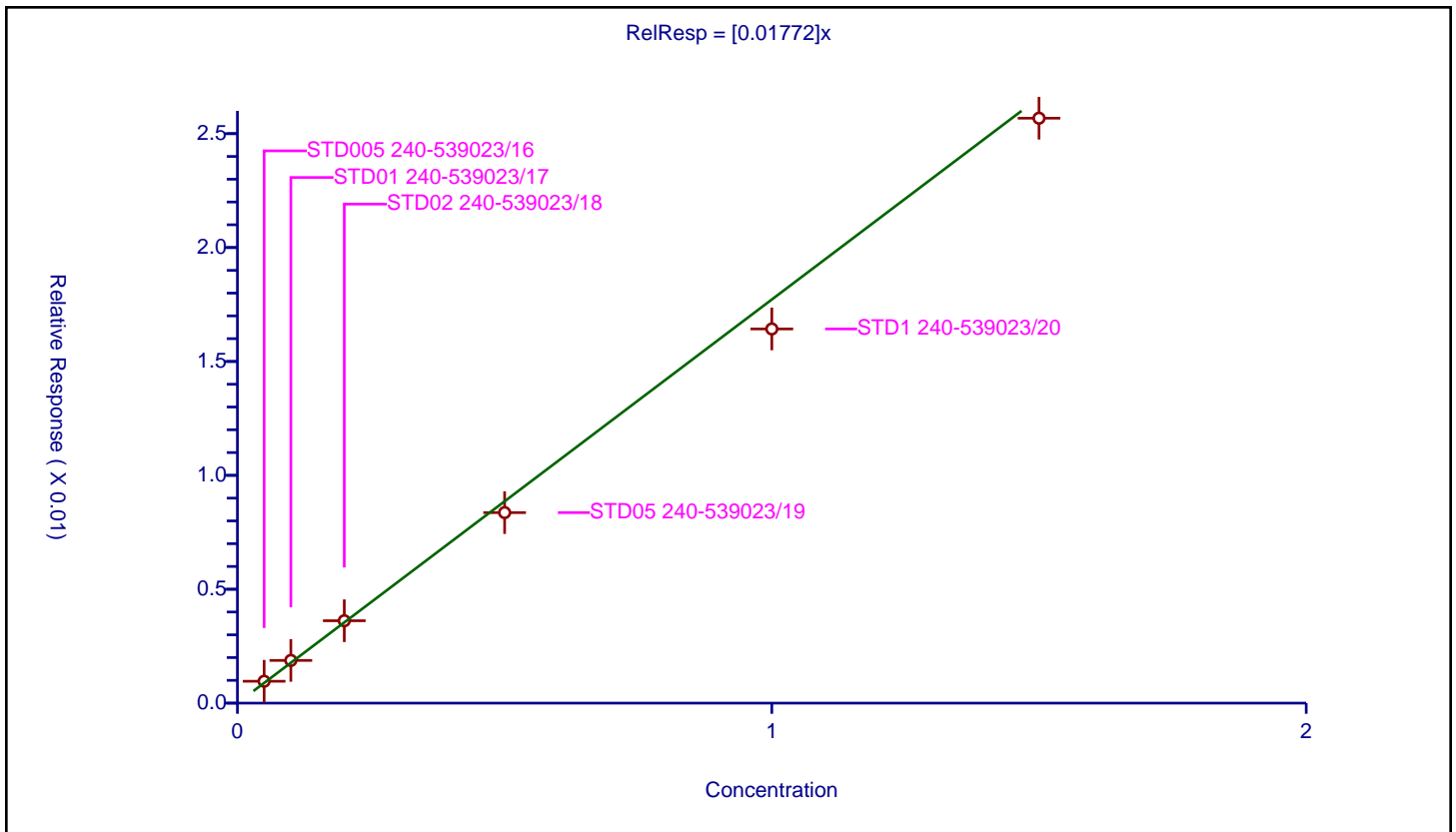
/ PCB-1248 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01772

Error Coefficients	
Standard Error:	13700000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/16	0.05	0.00096	0.05	48964307.0	0.019208	Y
2	STD01 240-539023/17	0.1	0.001874	0.05	48349131.0	0.018744	Y
3	STD02 240-539023/18	0.2	0.003617	0.05	48508964.0	0.018084	Y
4	STD05 240-539023/19	0.5	0.008365	0.05	47081942.0	0.01673	Y
5	STD1 240-539023/20	1.0	0.016427	0.05	48785725.0	0.016427	Y
6	STD15 240-539023/21	1.5	0.025679	0.05	48009342.0	0.017119	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 15:36 Calibration End Date: 08/16/2022 17:04 Calibration ID: 67252

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/22	P4081622.D
Level 2	STD01 240-539023/23	P4081623.D
Level 3	STD02 240-539023/24	P4081624.D
Level 4	STD05 240-539023/25	P4081625.D
Level 5	STD1 240-539023/26	P4081626.D
Level 6	STD15 240-539023/27	P4081627.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0123 0.0097	0.0130	0.0115	0.0107	0.0098	Ave		0.011 2			12.0		20.0				
PCB-1221 Peak 2	0.0082 0.0065	0.0083	0.0077	0.0072	0.0066	Ave		0.007 4			10.5		20.0				
PCB-1221 Peak 3	0.0314 0.0235	0.0294	0.0272	0.0255	0.0235	Ave		0.026 8			12.0		20.0				
PCB-1254 Peak 1	0.0350 0.0296	0.0339	0.0314	0.0311	0.0289	Ave		0.031 7			7.5		20.0				
PCB-1254 Peak 2	0.0507 0.0434	0.0497	0.0449	0.0450	0.0418	Ave		0.045 9			7.7		20.0				
PCB-1254 Peak 3	0.0680 0.0646	0.0681	0.0628	0.0662	0.0620	Ave		0.065 3			4.0		20.0				
PCB-1254 Peak 4	0.0522 0.0503	0.0538	0.0489	0.0523	0.0483	Ave		0.050 9			4.2		20.0				
PCB-1254 Peak 5	0.0727 0.0688	0.0718	0.0662	0.0713	0.0659	Ave		0.069 4			4.3		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 15:36 Calibration End Date: 08/16/2022 17:04 Calibration ID: 67252

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/22	P4081622.D
Level 2	STD01 240-539023/23	P4081623.D
Level 3	STD02 240-539023/24	P4081624.D
Level 4	STD05 240-539023/25	P4081625.D
Level 5	STD1 240-539023/26	P4081626.D
Level 6	STD15 240-539023/27	P4081627.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Ave	398512 9879015	896113	1549600	3432843	6543022	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Ave	266354 6589399	572033	1042226	2318714	4427940	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	1020324 23896062	2031772	3665962	8213311	15752491	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Ave	1135064 30082508	2343837	4240869	10032144	19353994	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Ave	1645416 44098049	3429230	6061914	14498206	27956238	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Ave	2206744 65689495	4705353	8469792	21311225	41473126	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Ave	1693319 51080860	3712915	6592164	16832091	32317512	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	2359044 69965145	4956791	8924414	22970670	44064247	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081622.D
 Lims ID: std005 ar1254
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 15:36:26 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-022
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.758	1.751	0.007	32447439	0.0500	0.0500	
2	2.028	2.020	0.008	45701821	0.0500	0.0500	

3 PCB-1221

1	3.097	3.097	0.000	398512	0.0500	0.0551	
1	3.356	3.356	0.000	266354	0.0500	0.0553	
1	3.422	3.422	0.000	1020324	0.0500	0.0587	

Average of Peak Amounts = 0.0564

2	4.038	4.038	0.000	558776	0.0500	0.0582	
2	4.268	4.268	0.000	369839	0.0500	0.0578	
2	4.357	4.357	0.000	1301000	0.0500	0.0571	

Average of Peak Amounts = 0.0577

RPD = 2.27

8 PCB-1254

1	5.805	5.805	0.000	1135064	0.0500	0.0552	
1	6.103	6.103	0.000	1645416	0.0500	0.0552	
1	6.527	6.527	0.000	2206744	0.0500	0.0521	
1	6.818	6.818	0.000	1693319	0.0500	0.0512	
1	7.288	7.288	0.000	2359044	0.0500	0.0523	

Average of Peak Amounts = 0.0532

2	6.722	6.722	0.000	1448457	0.0500	0.0534	
2	6.930	6.930	0.000	1613698	0.0500	0.0523	
2	7.400	7.400	0.000	2502386	0.0500	0.0538	
2	7.630	7.630	0.000	2002380	0.0500	0.0558	
2	8.152	8.152	0.000	2625322	0.0500	0.0556	

Average of Peak Amounts = 0.0542

RPD = 1.79

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.05PP_00029

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081622.D

Injection Date: 16-Aug-2022 15:36:26

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 ar1254

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

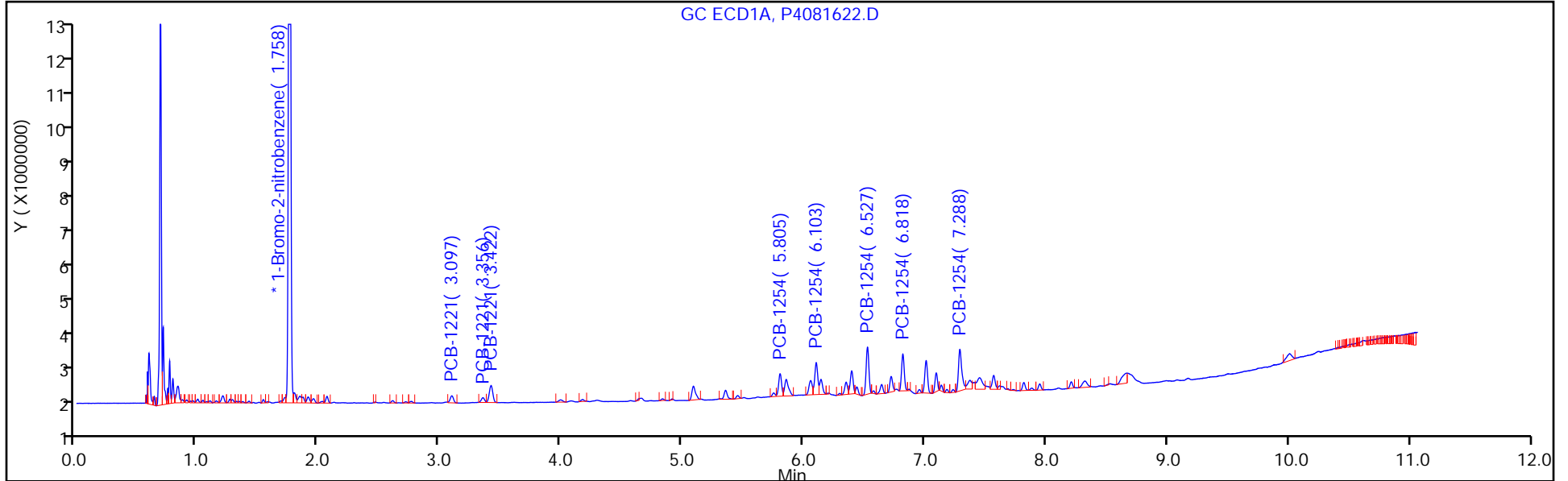
ALS Bottle#: 22

Method: PCB4 is

Limit Group: GC 8082A IS

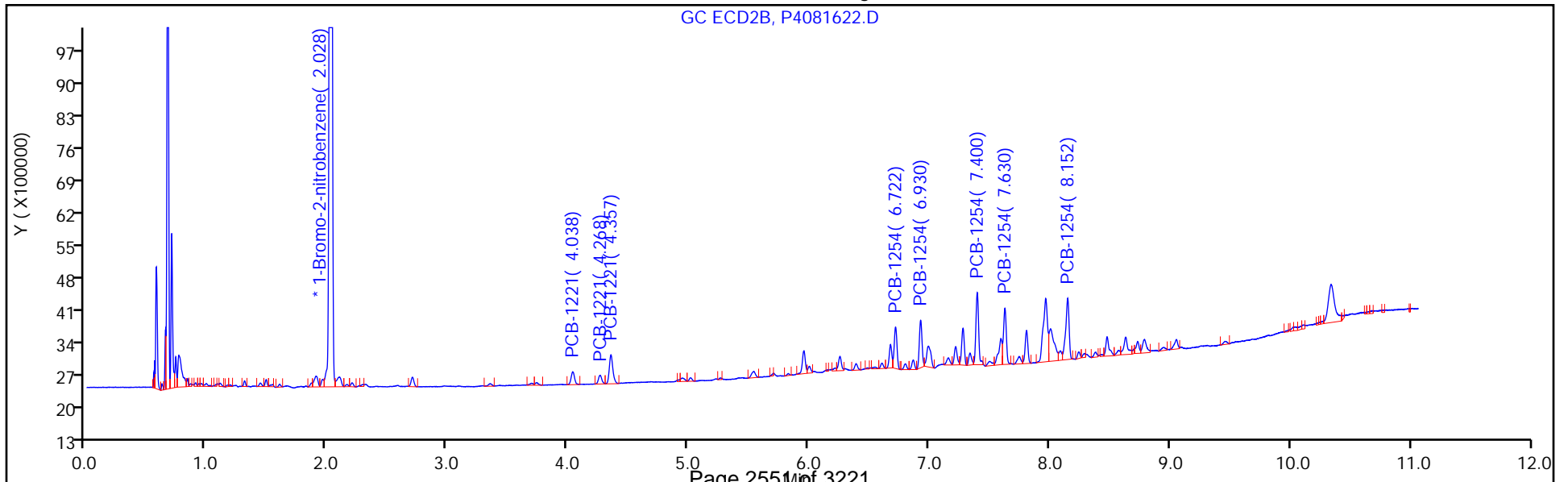
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081623.D
 Lims ID: std01 ar1254
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 15:54:03 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-023
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:48 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.757	1.751	0.006	34533327	0.0500	0.0500	
2	2.028	2.020	0.008	48082537	0.0500	0.0500	

3 PCB-1221

1	3.101	3.097	0.004	896113	0.1000	0.1164	
1	3.357	3.356	0.001	572033	0.1000	0.1116	
1	3.424	3.422	0.002	2031772	0.1000	0.1099	

Average of Peak Amounts = 0.1126

2	4.042	4.038	0.004	1089595	0.1000	0.1078	
2	4.268	4.268	0.000	733202	0.1000	0.1089	
2	4.358	4.357	0.001	2612682	0.1000	0.1090	

Average of Peak Amounts = 0.1085

RPD = 3.70

8 PCB-1254

1	5.812	5.805	0.007	2343837	0.1000	0.1072	
1	6.109	6.103	0.006	3429230	0.1000	0.1081	
1	6.533	6.527	0.006	4705353	0.1000	0.1044	
1	6.825	6.818	0.007	3712915	0.1000	0.1055	
1	7.296	7.288	0.008	4956791	0.1000	0.1034	

Average of Peak Amounts = 0.1057

2	6.728	6.722	0.006	3074365	0.1000	0.1078	
2	6.937	6.930	0.007	3497321	0.1000	0.1077	
2	7.407	7.400	0.007	5170674	0.1000	0.1057	
2	7.638	7.630	0.008	4059126	0.1000	0.1075	
2	8.159	8.152	0.007	5350578	0.1000	0.1076	

Average of Peak Amounts = 0.1073

RPD = 1.47

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@O.1PPM_00030

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081623.D

Injection Date: 16-Aug-2022 15:54:03

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 ar1254

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

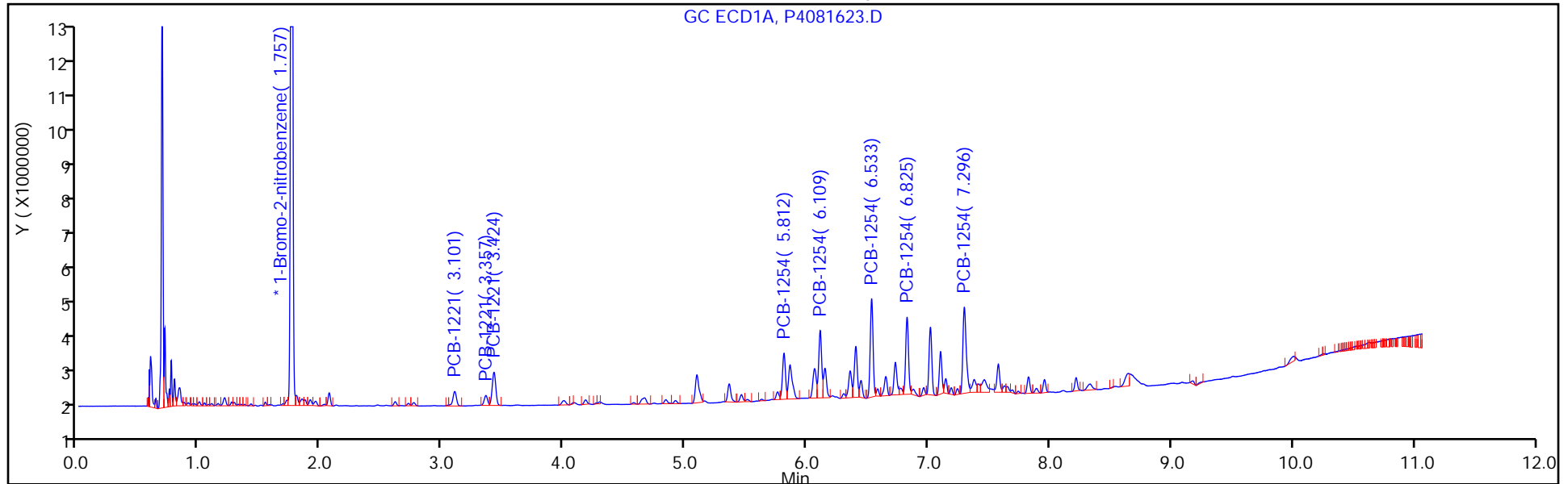
ALS Bottle#: 23

Method: PCB4 is

Limit Group: GC 8082A IS

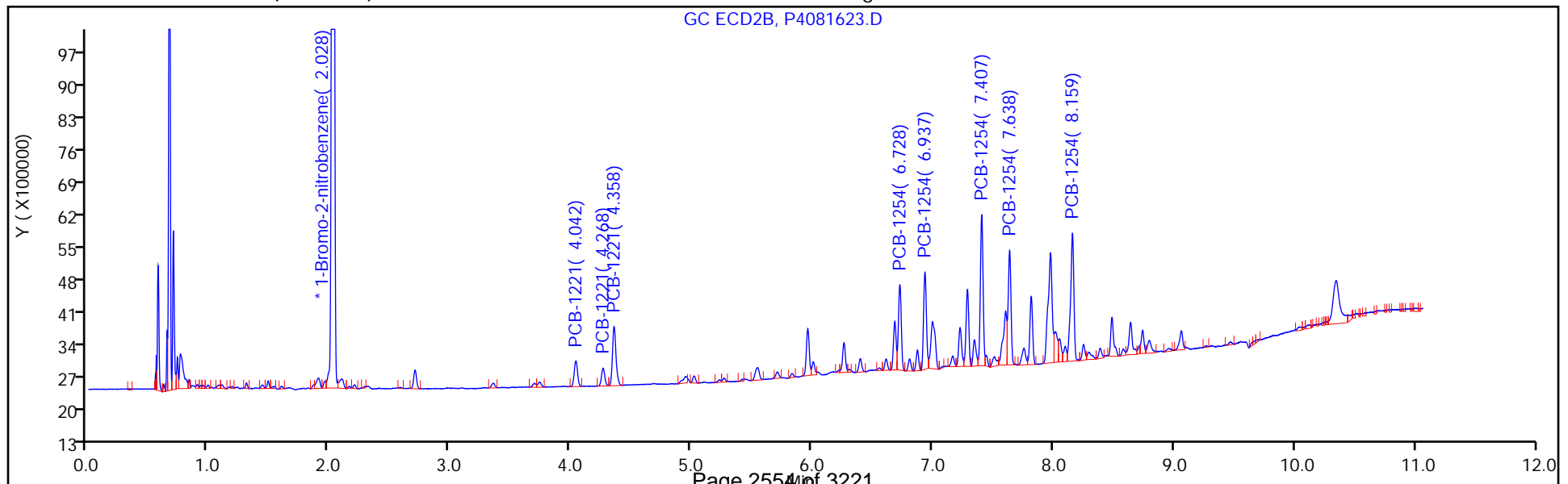
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081624.D
 Lims ID: std02 ar1254
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 16:11:41 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-024
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:53 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.757	1.751	0.006	33725518	0.0500	0.0500	
2	2.028	2.020	0.007	47199906	0.0500	0.0500	

3 PCB-1221

1	3.095	3.097	-0.002	1549600	0.2000	0.2060	
1	3.350	3.356	-0.006	1042226	0.2000	0.2083	
1	3.417	3.422	-0.005	3665962	0.2000	0.2031	

Average of Peak Amounts = 0.2058

2	4.034	4.038	-0.004	2012004	0.2000	0.2028	
2	4.259	4.268	-0.009	1350189	0.2000	0.2042	
2	4.349	4.357	-0.008	4808544	0.2000	0.2043	

Average of Peak Amounts = 0.2038

RPD = 0.98

8 PCB-1254

1	5.802	5.805	-0.003	4240869	0.2000	0.1985	
1	6.102	6.103	-0.001	6061914	0.2000	0.1957	
1	6.524	6.527	-0.003	8469792	0.2000	0.1923	
1	6.815	6.818	-0.003	6592164	0.2000	0.1919	
1	7.287	7.288	-0.001	8924414	0.2000	0.1905	

Average of Peak Amounts = 0.1938

2	6.719	6.722	-0.003	5561374	0.2000	0.1987	
2	6.926	6.930	-0.004	6294664	0.2000	0.1974	
2	7.397	7.400	-0.003	9205377	0.2000	0.1917	
2	7.629	7.630	-0.001	7079343	0.2000	0.1910	
2	8.151	8.152	-0.001	9237373	0.2000	0.1893	

Average of Peak Amounts = 0.1936

RPD = 0.09

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.2PPM_00031

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081624.D

Injection Date: 16-Aug-2022 16:11:41

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 ar1254

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

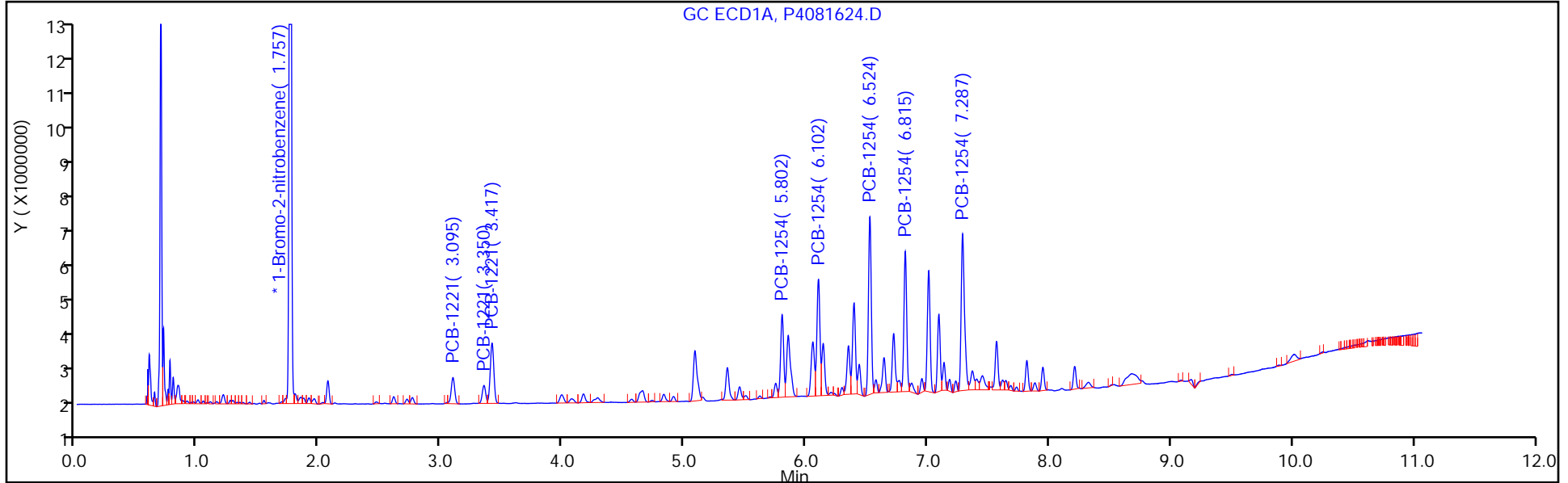
ALS Bottle#: 24

Method: PCB4 is

Limit Group: GC 8082A IS

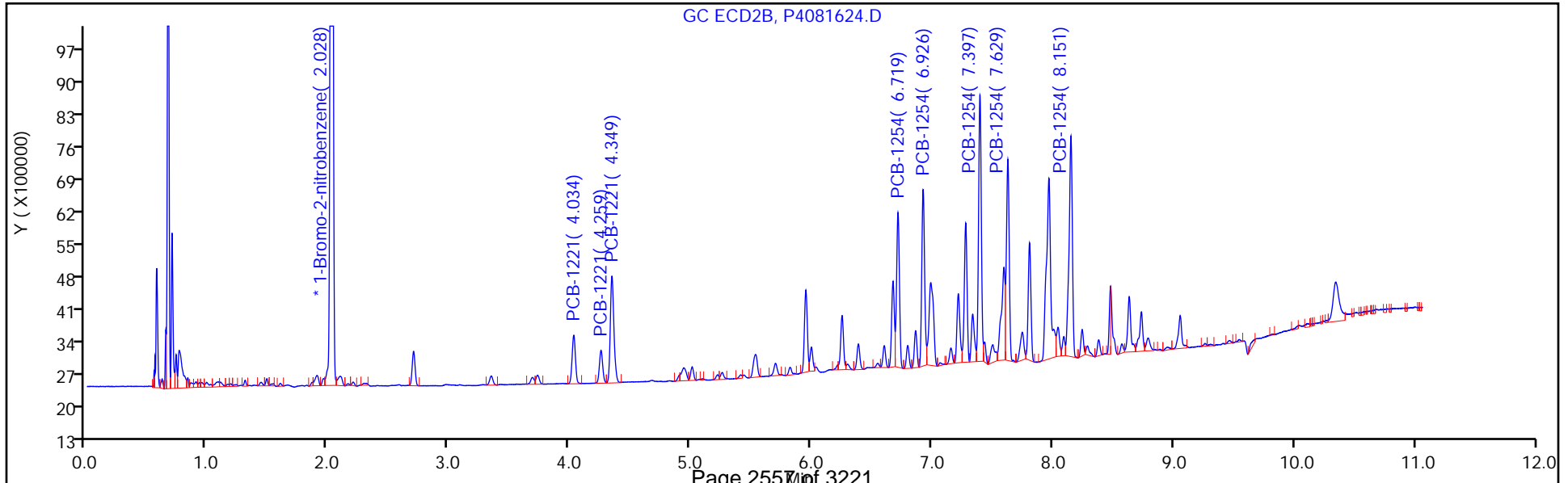
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081625.D
 Lims ID: std05 ar1254
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 16:29:21 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-025
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:57 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.753	1.751	0.001	32211088	0.0500	0.0500	
2	2.023	2.020	0.002	44717728	0.0500	0.0500	

3 PCB-1221

1	3.091	3.097	-0.006	3432843	0.5000	0.4779	
1	3.347	3.356	-0.009	2318714	0.5000	0.4851	
1	3.413	3.422	-0.009	8213311	0.5000	0.4763	

Average of Peak Amounts = 0.4798

2	4.033	4.038	-0.005	4527672	0.5000	0.4818	
2	4.259	4.268	-0.009	3042943	0.5000	0.4857	
2	4.351	4.357	-0.006	10792517	0.5000	0.4840	

Average of Peak Amounts = 0.4838

RPD = 0.84

8 PCB-1254

1	5.805	5.805	0.000	10032144	0.5000	0.4917	
1	6.103	6.103	0.000	14498206	0.5000	0.4902	
1	6.527	6.527	0.000	21311225	0.5000	0.5067	
1	6.818	6.818	0.000	16832091	0.5000	0.5129	
1	7.292	7.288	0.004	22970670	0.5000	0.5135	

Average of Peak Amounts = 0.5030

2	6.722	6.722	0.000	13255422	0.5000	0.4999	
2	6.930	6.930	0.000	15328790	0.5000	0.5075	
2	7.403	7.400	0.003	22990535	0.5000	0.5054	
2	7.633	7.630	0.003	17441943	0.5000	0.4968	
2	8.154	8.152	0.002	23321974	0.5000	0.5044	

Average of Peak Amounts = 0.5028

RPD = 0.04

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.5PPM_00066

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081625.D

Injection Date: 16-Aug-2022 16:29:21

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 ar1254

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

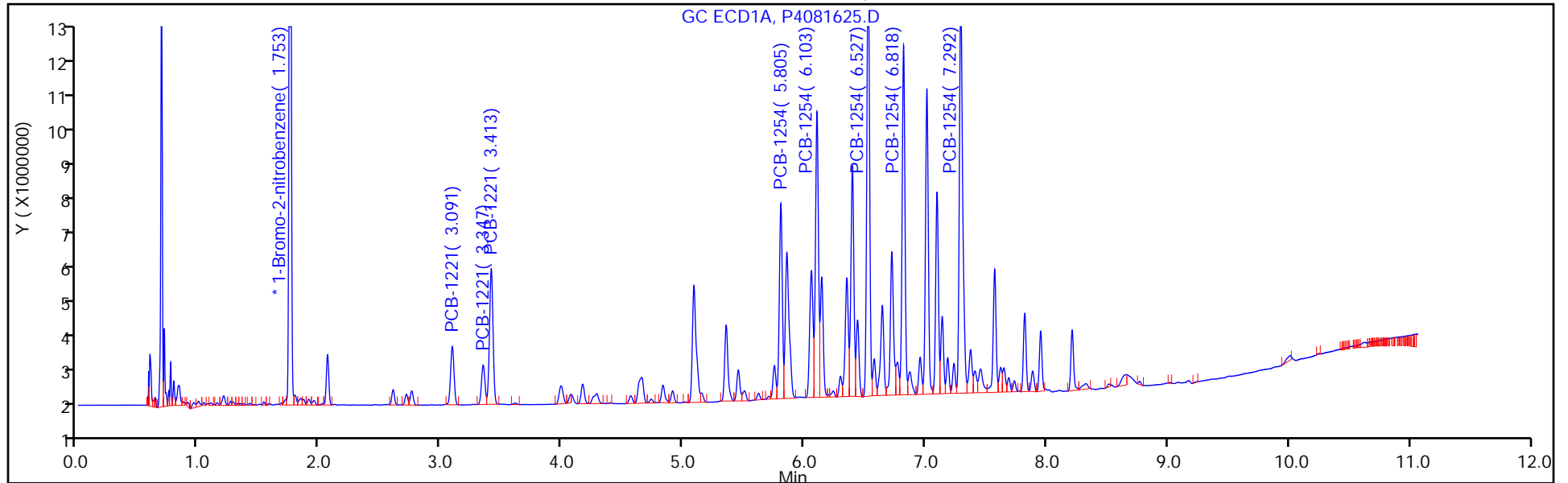
ALS Bottle#: 25

Method: PCB4 is

Limit Group: GC 8082A IS

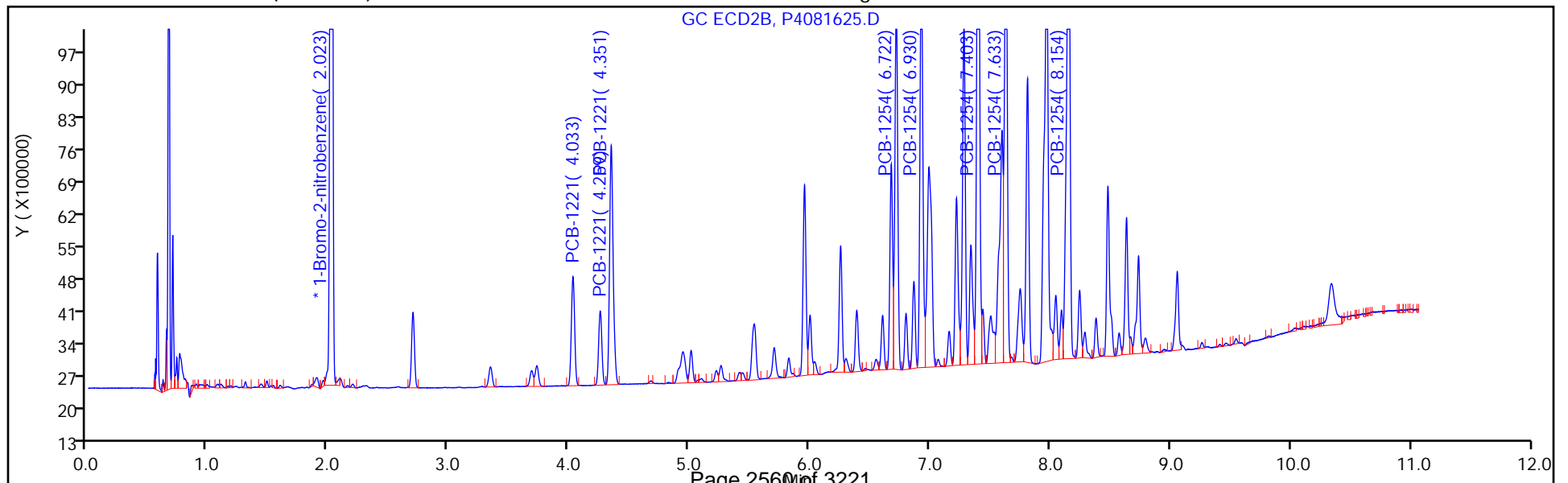
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081626.D
 Lims ID: std1 ar1254
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 16:46:51 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-026
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.753	1.751	0.002	33455612	0.0500	0.0500	
2	2.023	2.020	0.003	46669868	0.0500	0.0500	

3 PCB-1221

1	3.092	3.097	-0.005	6543022	1.00	0.8770	
1	3.348	3.356	-0.008	4427940	1.00	0.8919	
1	3.414	3.422	-0.008	15752491	1.00	0.8796	

Average of Peak Amounts = 0.8828

2	4.033	4.038	-0.005	8765506	1.00	0.8937	
2	4.258	4.268	-0.010	5824714	1.00	0.8909	
2	4.349	4.357	-0.008	20813038	1.00	0.8943	

Average of Peak Amounts = 0.8929

RPD = 1.14

8 PCB-1254

1	5.803	5.805	-0.002	19353994	1.00	0.9133	
1	6.101	6.103	-0.002	27956238	1.00	0.9100	
1	6.526	6.527	-0.001	41473126	1.00	0.9494	
1	6.817	6.818	-0.001	32317512	1.00	0.9482	
1	7.289	7.288	0.001	44064247	1.00	0.9484	

Average of Peak Amounts = 0.9339

2	6.720	6.722	-0.002	25442821	1.00	0.9194	
2	6.929	6.930	-0.001	29203771	1.00	0.9264	
2	7.401	7.400	0.001	44303314	1.00	0.9332	
2	7.632	7.630	0.002	33783286	1.00	0.9220	
2	8.154	8.152	0.002	44032496	1.00	0.9125	

Average of Peak Amounts = 0.9227

RPD = 1.20

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@1.0PPM_00047

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:12:04

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081626.D

Injection Date: 16-Aug-2022 16:46:51

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 ar1254

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

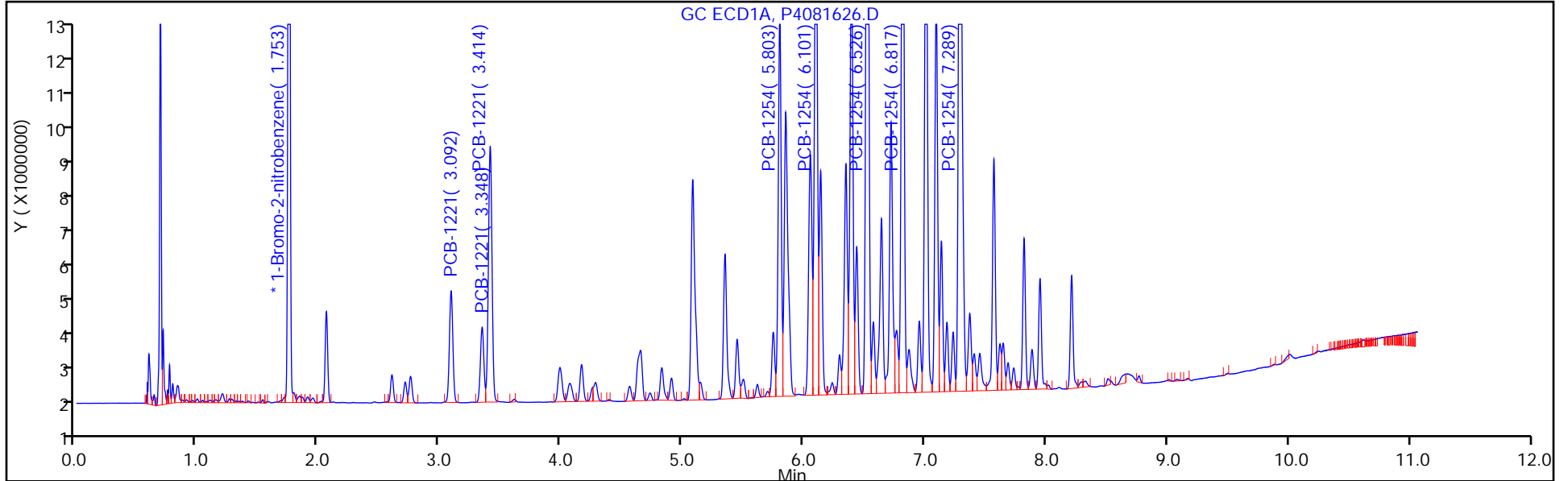
ALS Bottle#: 26

Method: PCB4 is

Limit Group: GC 8082A IS

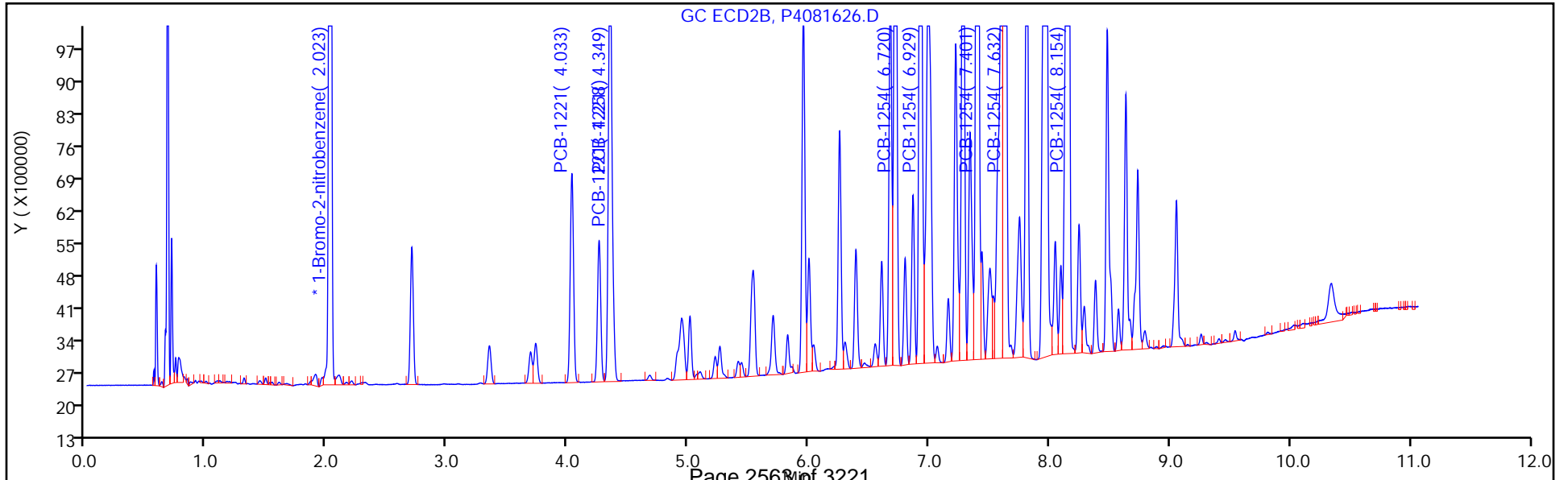
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081627.D
 Lims ID: std15 ar1254
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 17:04:25 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-027
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:08 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	33874415	0.0500	0.0500	
2	2.026	2.020	0.005	47627115	0.0500	0.0500	

3 PCB-1221

1	3.095	3.097	-0.002	9879015	1.50	1.31	
1	3.351	3.356	-0.005	6589399	1.50	1.31	
1	3.418	3.422	-0.004	23896062	1.50	1.32	

Average of Peak Amounts = 1.31

2	4.033	4.038	-0.005	13318558	1.50	1.33	
2	4.258	4.268	-0.010	8734708	1.50	1.31	
2	4.349	4.357	-0.008	31531860	1.50	1.33	

Average of Peak Amounts = 1.32

RPD = 0.78

8 PCB-1254

1	5.802	5.805	-0.003	30082508	1.50	1.40	
1	6.102	6.103	-0.001	44098049	1.50	1.42	
1	6.527	6.527	0.000	65689495	1.50	1.49	
1	6.818	6.818	0.000	51080860	1.50	1.48	
1	7.292	7.288	0.004	69965145	1.50	1.49	

Average of Peak Amounts = 1.45

2	6.722	6.722	0.000	39819288	1.50	1.41	
2	6.931	6.930	0.001	45811402	1.50	1.42	
2	7.402	7.400	0.002	70048331	1.50	1.45	
2	7.634	7.630	0.004	52604278	1.50	1.41	
2	8.155	8.152	0.003	69776806	1.50	1.42	

Average of Peak Amounts = 1.42

RPD = 2.35

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@1.5PPM_00013

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081627.D

Injection Date: 16-Aug-2022 17:04:25

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 ar1254

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

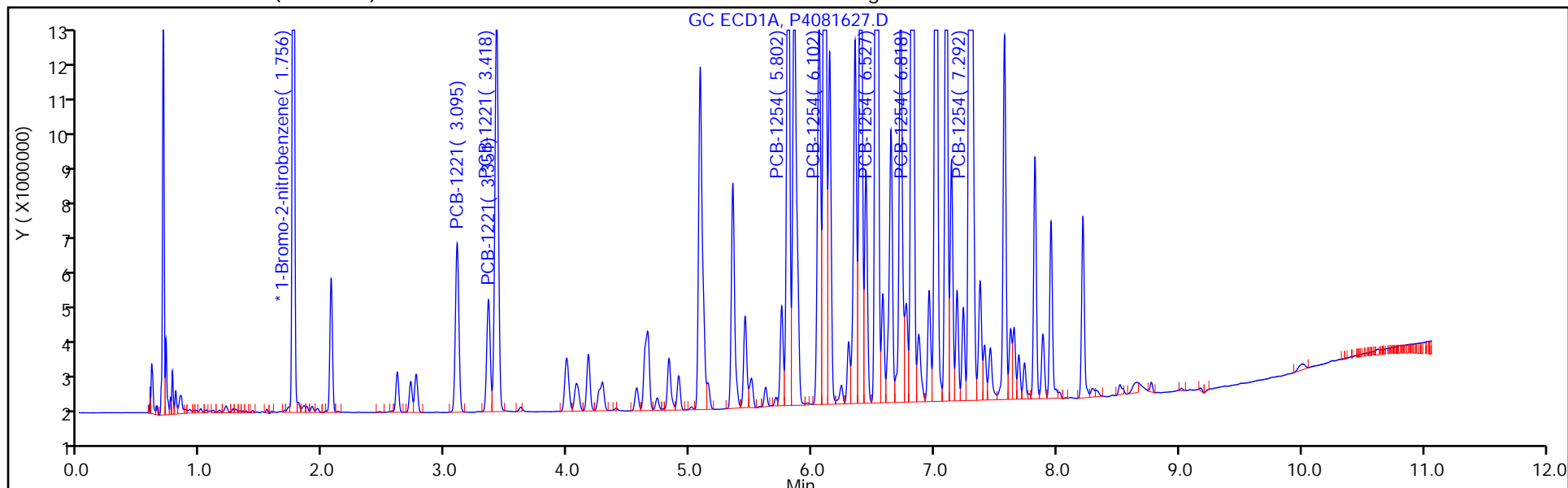
ALS Bottle#: 27

Method: PCB4 is

Limit Group: GC 8082A IS

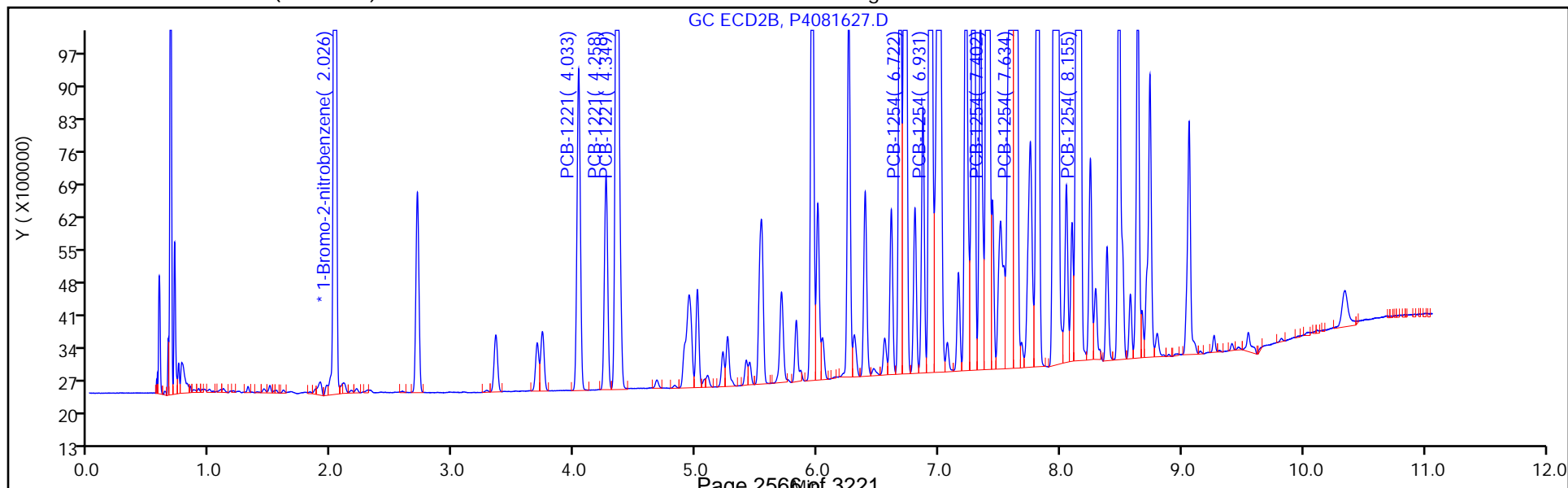
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

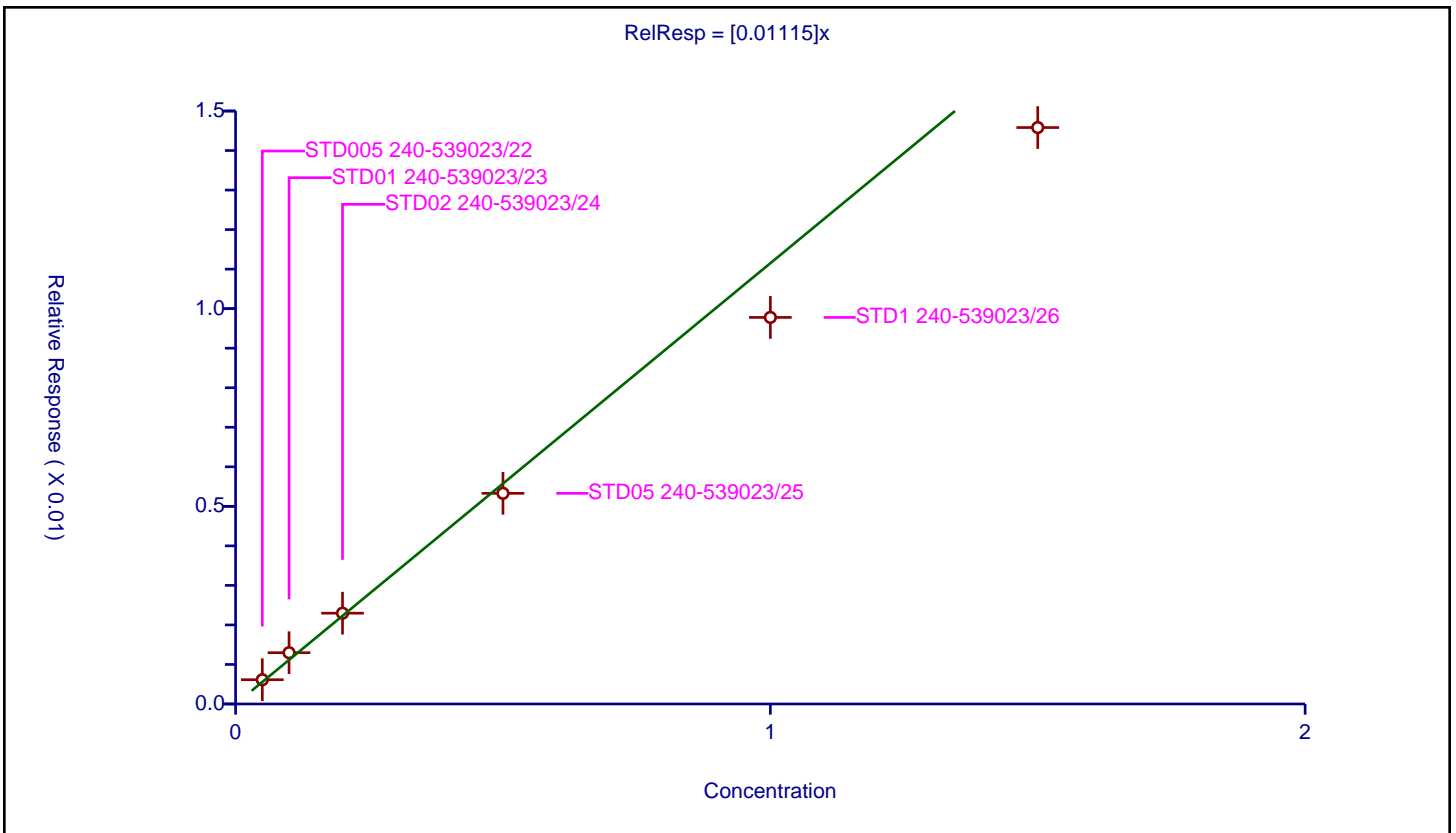
/ PCB-1221 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01115

Error Coefficients	
Standard Error:	5580000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.000614	0.05	32447439.0	0.012282	Y
2	STD01 240-539023/23	0.1	0.001297	0.05	34533327.0	0.012975	Y
3	STD02 240-539023/24	0.2	0.002297	0.05	33725518.0	0.011487	Y
4	STD05 240-539023/25	0.5	0.005329	0.05	32211088.0	0.010657	Y
5	STD1 240-539023/26	1.0	0.009779	0.05	33455612.0	0.009779	Y
6	STD15 240-539023/27	1.5	0.014582	0.05	33874415.0	0.009721	Y



Calibration

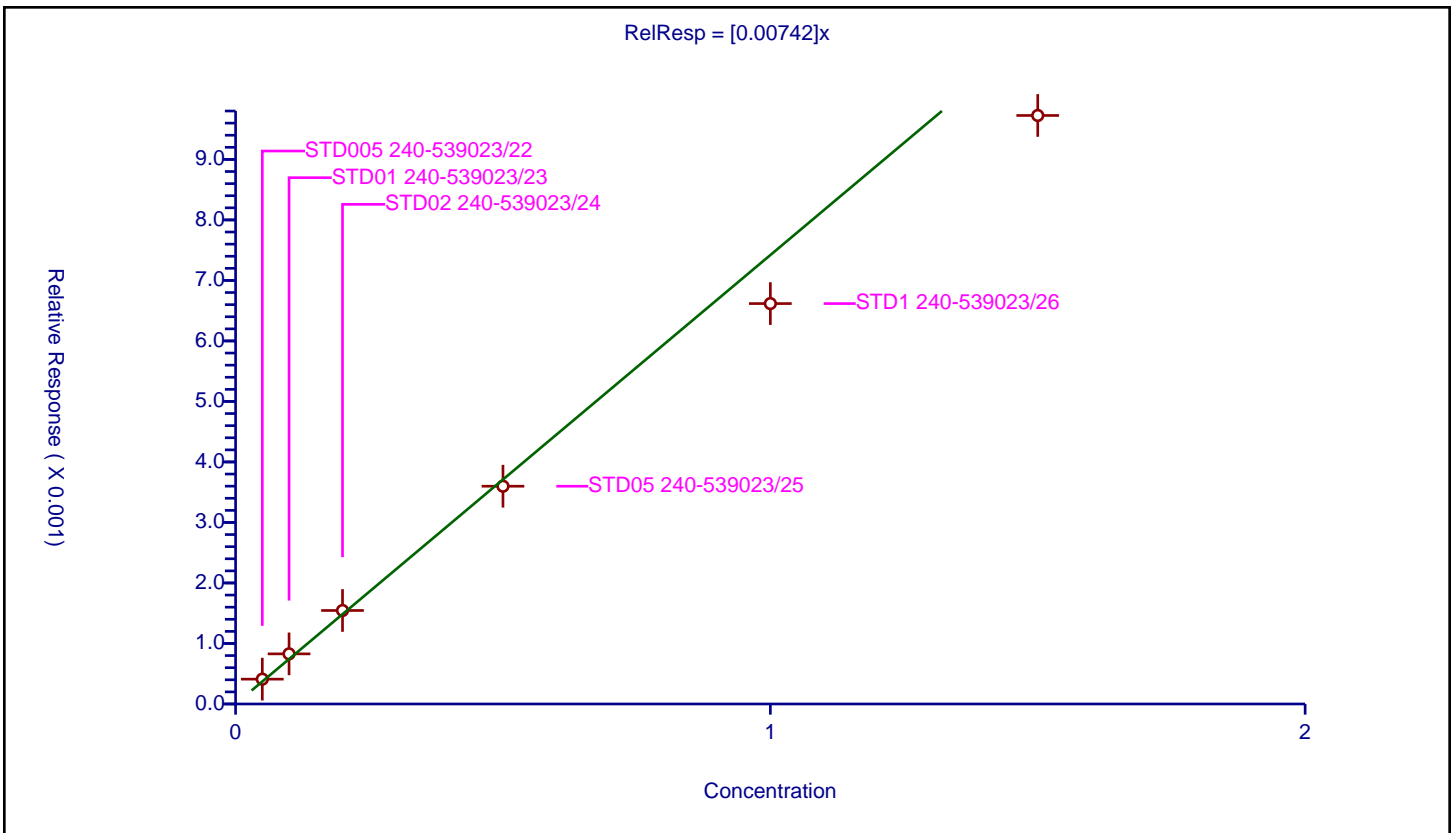
/ PCB-1221 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.00742

Error Coefficients	
Standard Error:	3740000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.00041	0.05	32447439.0	0.008209	Y
2	STD01 240-539023/23	0.1	0.000828	0.05	34533327.0	0.008282	Y
3	STD02 240-539023/24	0.2	0.001545	0.05	33725518.0	0.007726	Y
4	STD05 240-539023/25	0.5	0.003599	0.05	32211088.0	0.007198	Y
5	STD1 240-539023/26	1.0	0.006618	0.05	33455612.0	0.006618	Y
6	STD15 240-539023/27	1.5	0.009726	0.05	33874415.0	0.006484	Y



Calibration

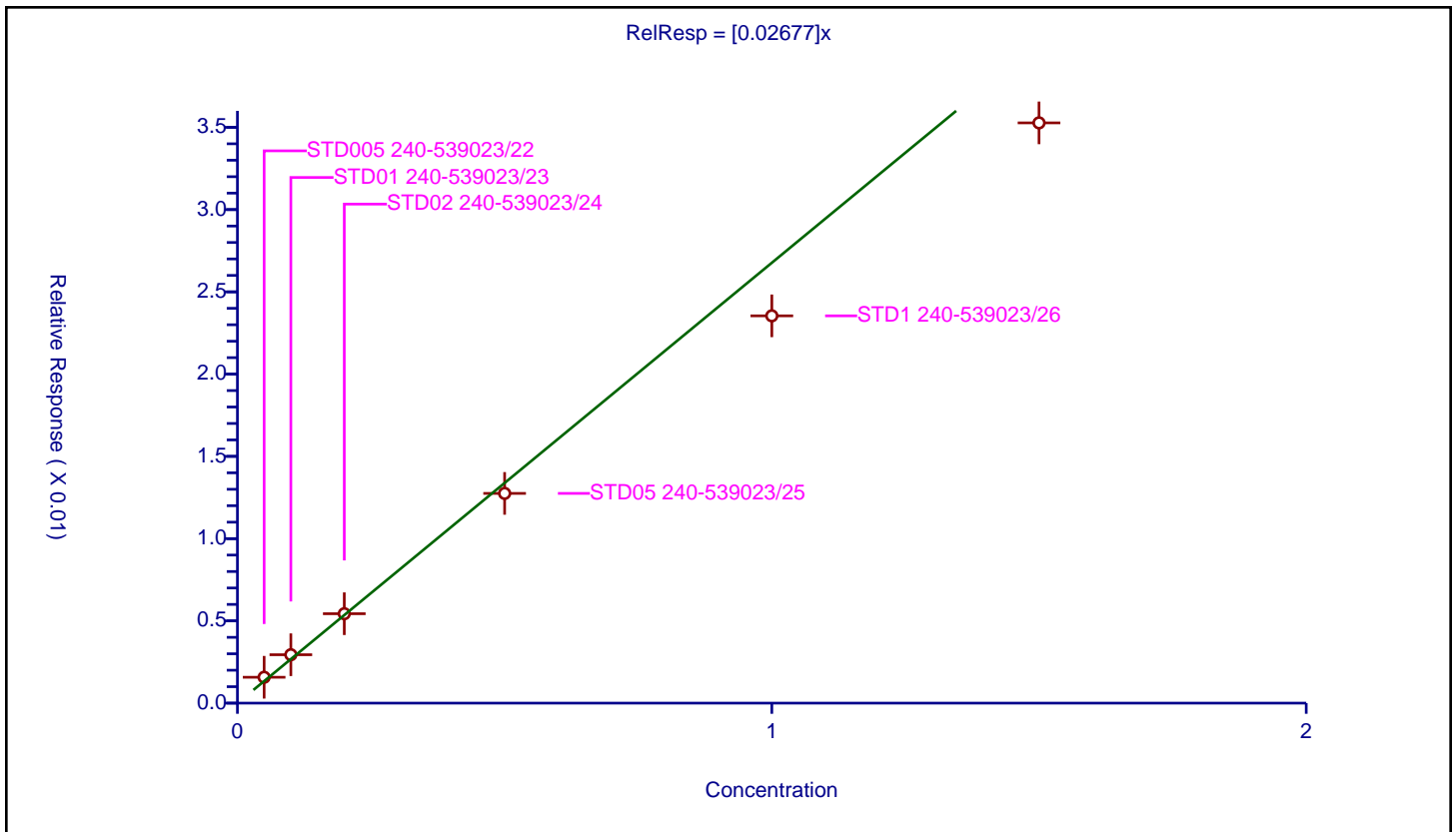
/ PCB-1221 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02677

Error Coefficients	
Standard Error:	13500000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.001572	0.05	32447439.0	0.031445	Y
2	STD01 240-539023/23	0.1	0.002942	0.05	34533327.0	0.029418	Y
3	STD02 240-539023/24	0.2	0.005435	0.05	33725518.0	0.027175	Y
4	STD05 240-539023/25	0.5	0.012749	0.05	32211088.0	0.025498	Y
5	STD1 240-539023/26	1.0	0.023542	0.05	33455612.0	0.023542	Y
6	STD15 240-539023/27	1.5	0.035272	0.05	33874415.0	0.023514	Y



Calibration

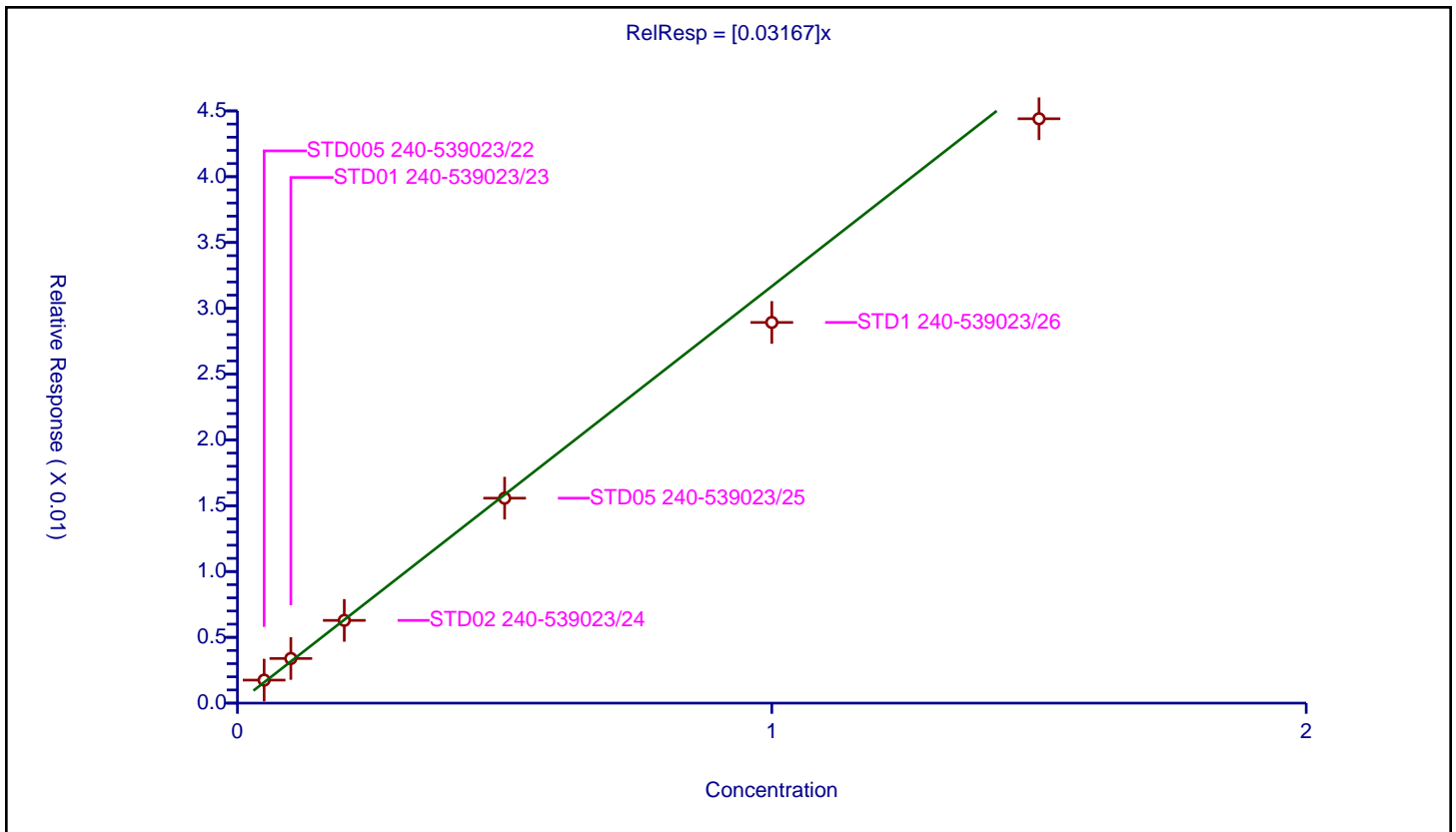
/ PCB-1254 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03167

Error Coefficients	
Standard Error:	16800000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.001749	0.05	32447439.0	0.034982	Y
2	STD01 240-539023/23	0.1	0.003394	0.05	34533327.0	0.033936	Y
3	STD02 240-539023/24	0.2	0.006287	0.05	33725518.0	0.031437	Y
4	STD05 240-539023/25	0.5	0.015573	0.05	32211088.0	0.031145	Y
5	STD1 240-539023/26	1.0	0.028925	0.05	33455612.0	0.028925	Y
6	STD15 240-539023/27	1.5	0.044403	0.05	33874415.0	0.029602	Y



Calibration

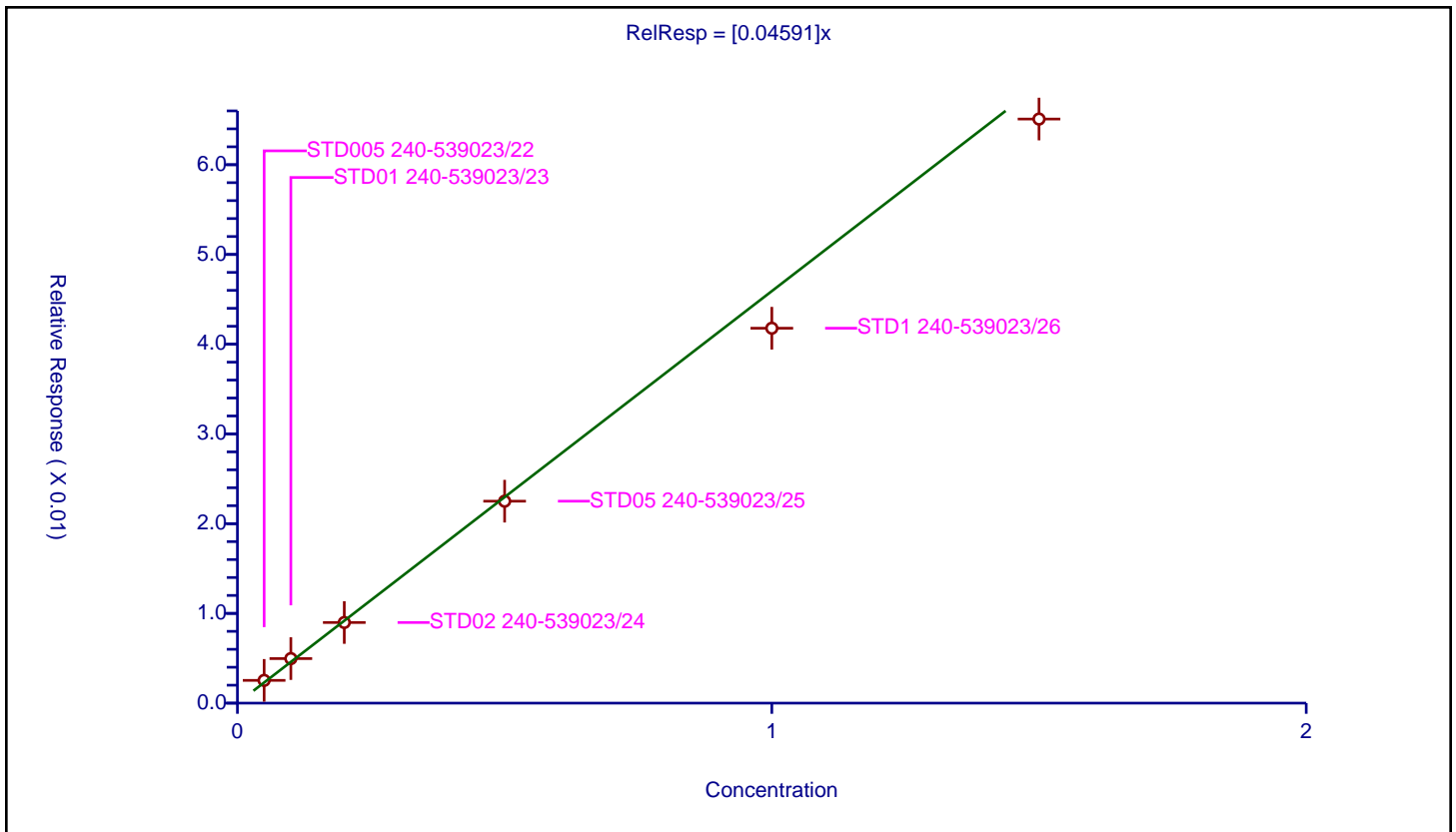
/ PCB-1254 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04591

Error Coefficients	
Standard Error:	24400000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.002536	0.05	32447439.0	0.05071	Y
2	STD01 240-539023/23	0.1	0.004965	0.05	34533327.0	0.049651	Y
3	STD02 240-539023/24	0.2	0.008987	0.05	33725518.0	0.044936	Y
4	STD05 240-539023/25	0.5	0.022505	0.05	32211088.0	0.04501	Y
5	STD1 240-539023/26	1.0	0.041781	0.05	33455612.0	0.041781	Y
6	STD15 240-539023/27	1.5	0.06509	0.05	33874415.0	0.043394	Y



Calibration

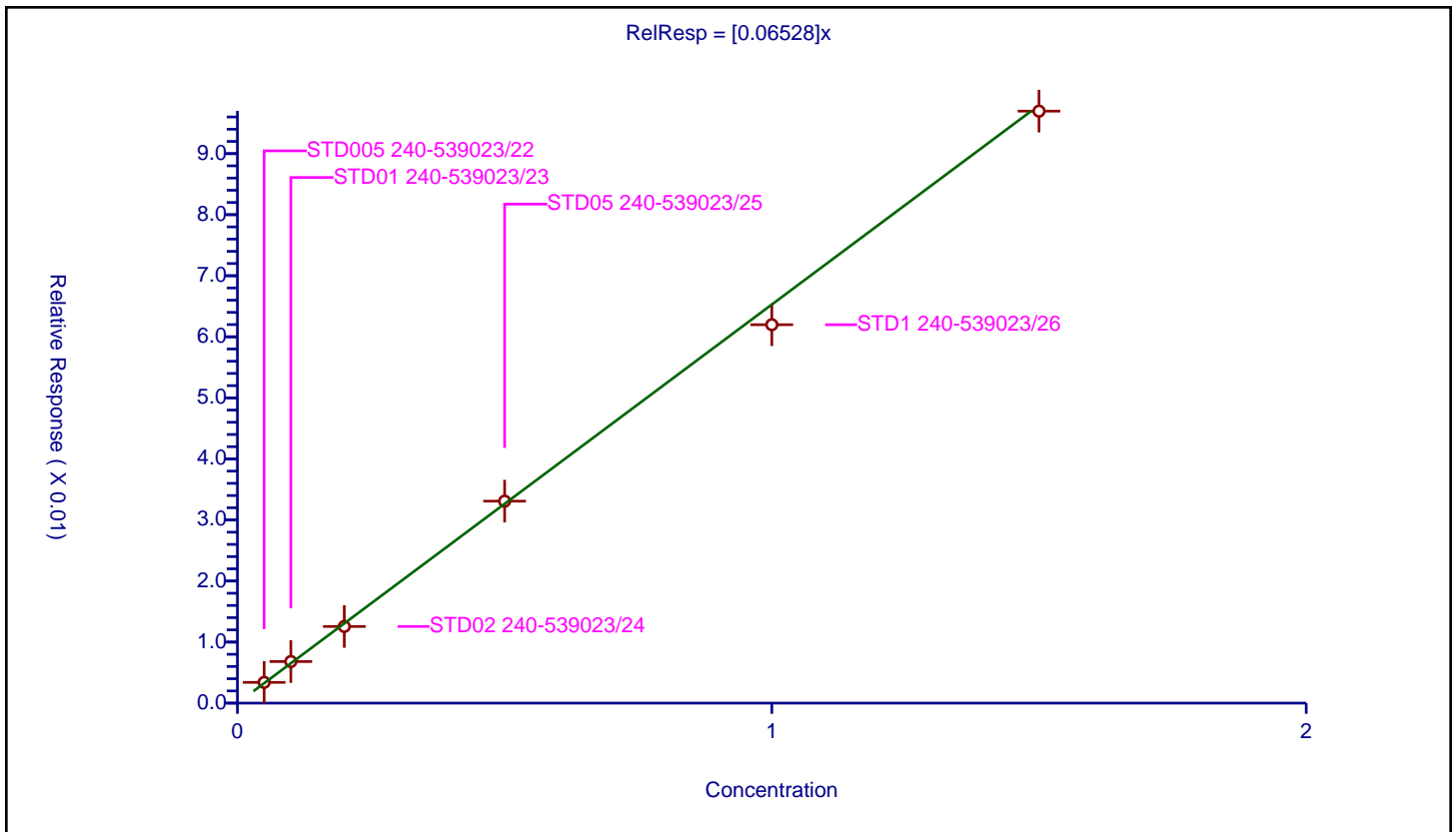
/ PCB-1254 Peak 3

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06528

Error Coefficients	
Standard Error:	36300000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.0034	0.05	32447439.0	0.06801	Y
2	STD01 240-539023/23	0.1	0.006813	0.05	34533327.0	0.068128	Y
3	STD02 240-539023/24	0.2	0.012557	0.05	33725518.0	0.062785	Y
4	STD05 240-539023/25	0.5	0.033081	0.05	32211088.0	0.066161	Y
5	STD1 240-539023/26	1.0	0.061982	0.05	33455612.0	0.061982	Y
6	STD15 240-539023/27	1.5	0.09696	0.05	33874415.0	0.06464	Y



Calibration

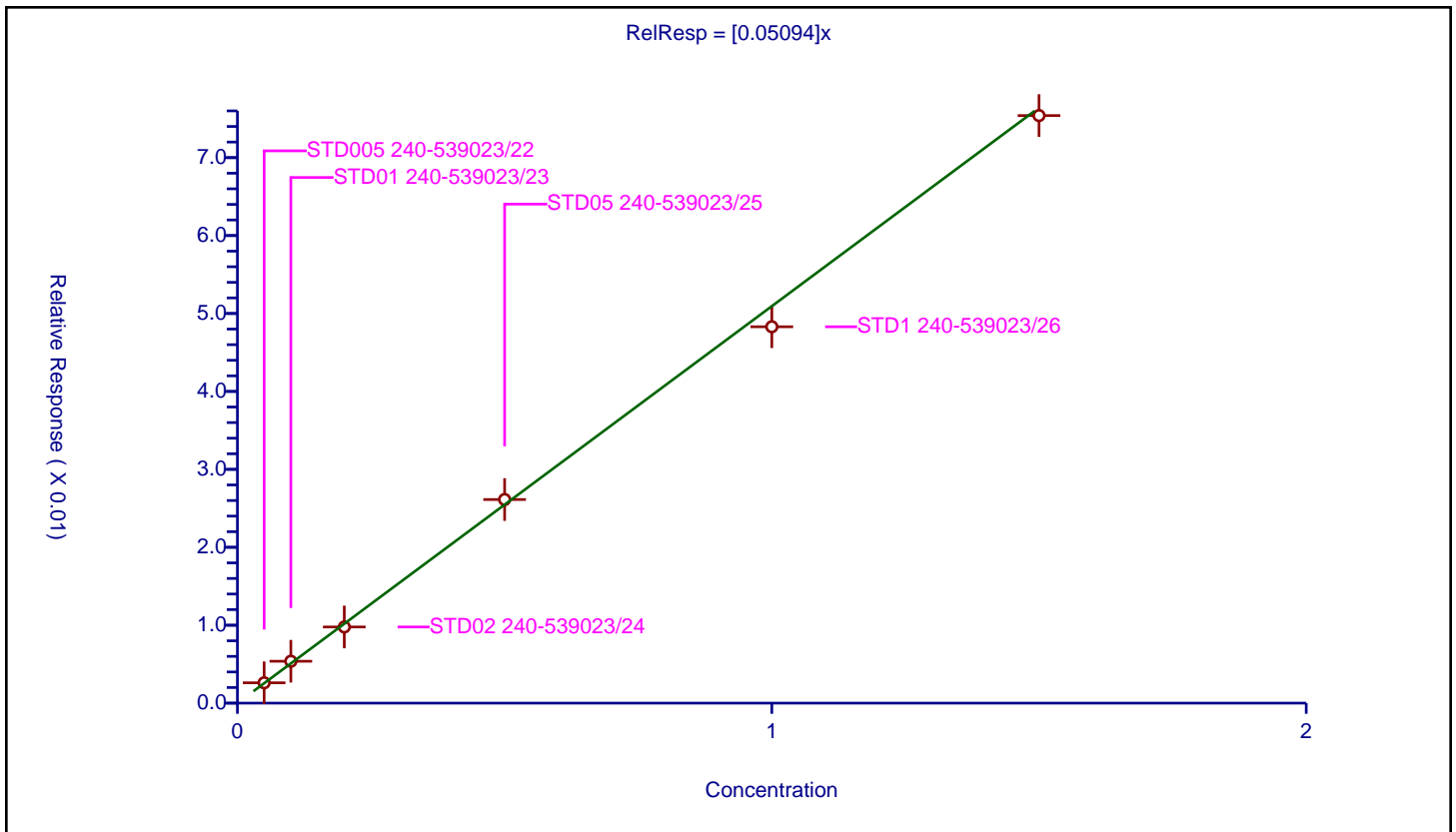
/ PCB-1254 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05094

Error Coefficients	
Standard Error:	28300000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.002609	0.05	32447439.0	0.052187	Y
2	STD01 240-539023/23	0.1	0.005376	0.05	34533327.0	0.053758	Y
3	STD02 240-539023/24	0.2	0.009773	0.05	33725518.0	0.048866	Y
4	STD05 240-539023/25	0.5	0.026128	0.05	32211088.0	0.052256	Y
5	STD1 240-539023/26	1.0	0.048299	0.05	33455612.0	0.048299	Y
6	STD15 240-539023/27	1.5	0.075397	0.05	33874415.0	0.050265	Y



Calibration

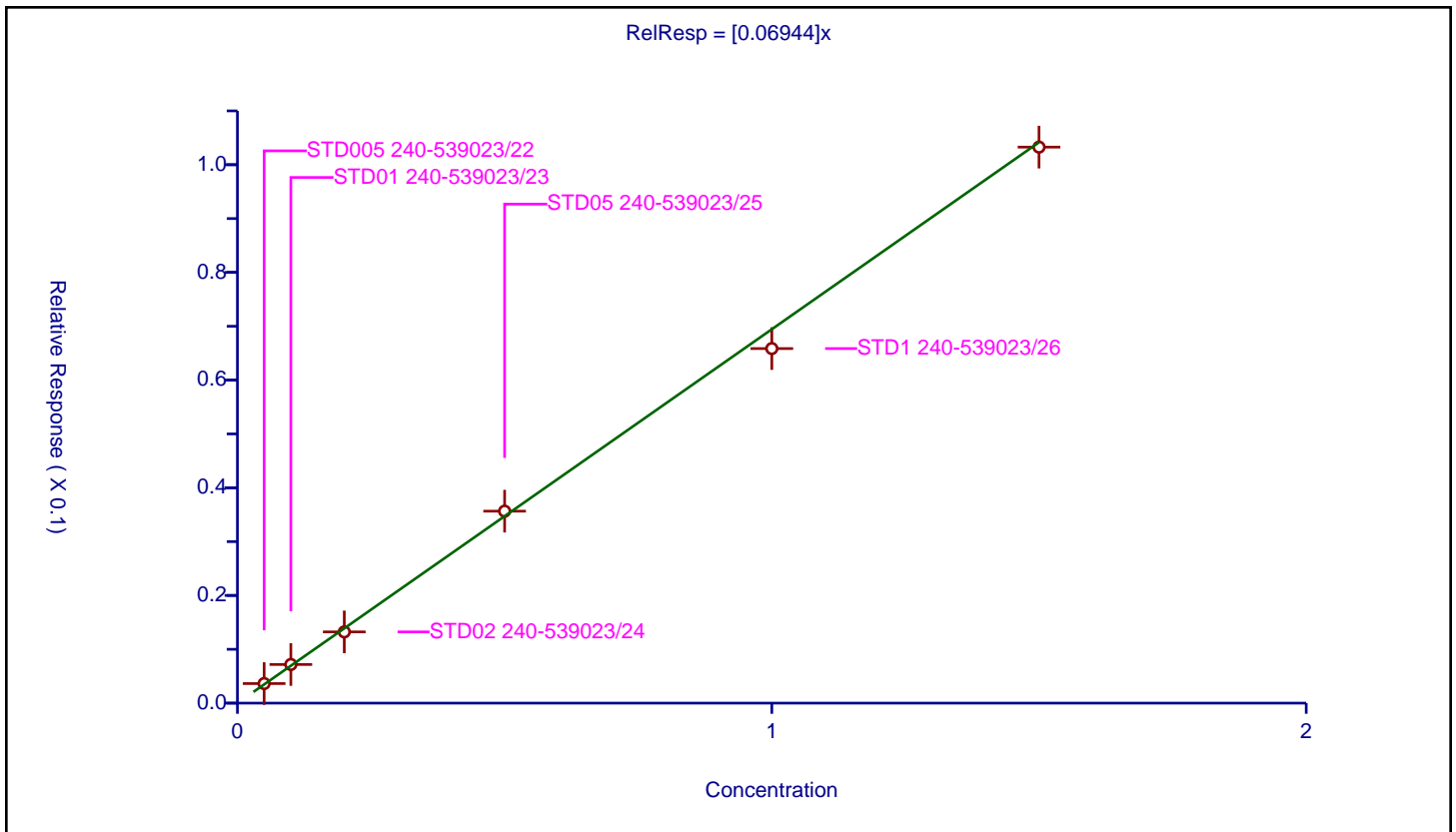
/ PCB-1254 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06944

Error Coefficients	
Standard Error:	38700000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.003635	0.05	32447439.0	0.072704	Y
2	STD01 240-539023/23	0.1	0.007177	0.05	34533327.0	0.071768	Y
3	STD02 240-539023/24	0.2	0.013231	0.05	33725518.0	0.066155	Y
4	STD05 240-539023/25	0.5	0.035656	0.05	32211088.0	0.071313	Y
5	STD1 240-539023/26	1.0	0.065855	0.05	33455612.0	0.065855	Y
6	STD15 240-539023/27	1.5	0.103271	0.05	33874415.0	0.068848	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 15:36 Calibration End Date: 08/16/2022 17:04 Calibration ID: 67253

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/22	P4081622.D
Level 2	STD01 240-539023/23	P4081623.D
Level 3	STD02 240-539023/24	P4081624.D
Level 4	STD05 240-539023/25	P4081625.D
Level 5	STD1 240-539023/26	P4081626.D
Level 6	STD15 240-539023/27	P4081627.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0122 0.0093	0.0113	0.0107	0.0101	0.0094	Ave		0.010 5			10.8		20.0				
PCB-1221 Peak 2	0.0081 0.0061	0.0076	0.0072	0.0068	0.0062	Ave		0.007 0			11.1		20.0				
PCB-1221 Peak 3	0.0285 0.0221	0.0272	0.0255	0.0241	0.0223	Ave		0.024 9			10.4		20.0				
PCB-1254 Peak 1	0.0317 0.0279	0.0320	0.0295	0.0296	0.0273	Ave		0.029 6			6.5		20.0				
PCB-1254 Peak 2	0.0353 0.0321	0.0364	0.0333	0.0343	0.0313	Ave		0.033 8			5.7		20.0				
PCB-1254 Peak 3	0.0548 0.0490	0.0538	0.0488	0.0514	0.0475	Ave		0.050 9			5.8		20.0				
PCB-1254 Peak 4	0.0438 0.0368	0.0422	0.0375	0.0390	0.0362	Ave		0.039 3			7.9		20.0				
PCB-1254 Peak 5	0.0574 0.0488	0.0556	0.0489	0.0522	0.0472	Ave		0.051 7			8.0		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 15:36 Calibration End Date: 08/16/2022 17:04 Calibration ID: 67253

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/22	P4081622.D
Level 2	STD01 240-539023/23	P4081623.D
Level 3	STD02 240-539023/24	P4081624.D
Level 4	STD05 240-539023/25	P4081625.D
Level 5	STD1 240-539023/26	P4081626.D
Level 6	STD15 240-539023/27	P4081627.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Ave	558776 13318558	1089595	2012004	4527672	8765506	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Ave	369839 8734708	733202	1350189	3042943	5824714	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	1301000 31531860	2612682	4808544	10792517	20813038	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Ave	1448457 39819288	3074365	5561374	13255422	25442821	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Ave	1613698 45811402	3497321	6294664	15328790	29203771	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Ave	2502386 70048331	5170674	9205377	22990535	44303314	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Ave	2002380 52604278	4059126	7079343	17441943	33783286	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	2625322 69776806	5350578	9237373	23321974	44032496	0.0500 1.50	0.100	0.200	0.500	1.00

Curve Type Legend

Ave = Average ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081622.D
 Lims ID: std005 ar1254
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 15:36:26 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-022
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.758	1.751	0.007	32447439	0.0500	0.0500	
2	2.028	2.020	0.008	45701821	0.0500	0.0500	

3 PCB-1221

1	3.097	3.097	0.000	398512	0.0500	0.0551	
1	3.356	3.356	0.000	266354	0.0500	0.0553	
1	3.422	3.422	0.000	1020324	0.0500	0.0587	

Average of Peak Amounts = 0.0564

2	4.038	4.038	0.000	558776	0.0500	0.0582	
2	4.268	4.268	0.000	369839	0.0500	0.0578	
2	4.357	4.357	0.000	1301000	0.0500	0.0571	

Average of Peak Amounts = 0.0577

RPD = 2.27

8 PCB-1254

1	5.805	5.805	0.000	1135064	0.0500	0.0552	
1	6.103	6.103	0.000	1645416	0.0500	0.0552	
1	6.527	6.527	0.000	2206744	0.0500	0.0521	
1	6.818	6.818	0.000	1693319	0.0500	0.0512	
1	7.288	7.288	0.000	2359044	0.0500	0.0523	

Average of Peak Amounts = 0.0532

2	6.722	6.722	0.000	1448457	0.0500	0.0534	
2	6.930	6.930	0.000	1613698	0.0500	0.0523	
2	7.400	7.400	0.000	2502386	0.0500	0.0538	
2	7.630	7.630	0.000	2002380	0.0500	0.0558	
2	8.152	8.152	0.000	2625322	0.0500	0.0556	

Average of Peak Amounts = 0.0542

RPD = 1.79

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.05PP_00029

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081622.D

Injection Date: 16-Aug-2022 15:36:26

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 ar1254

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

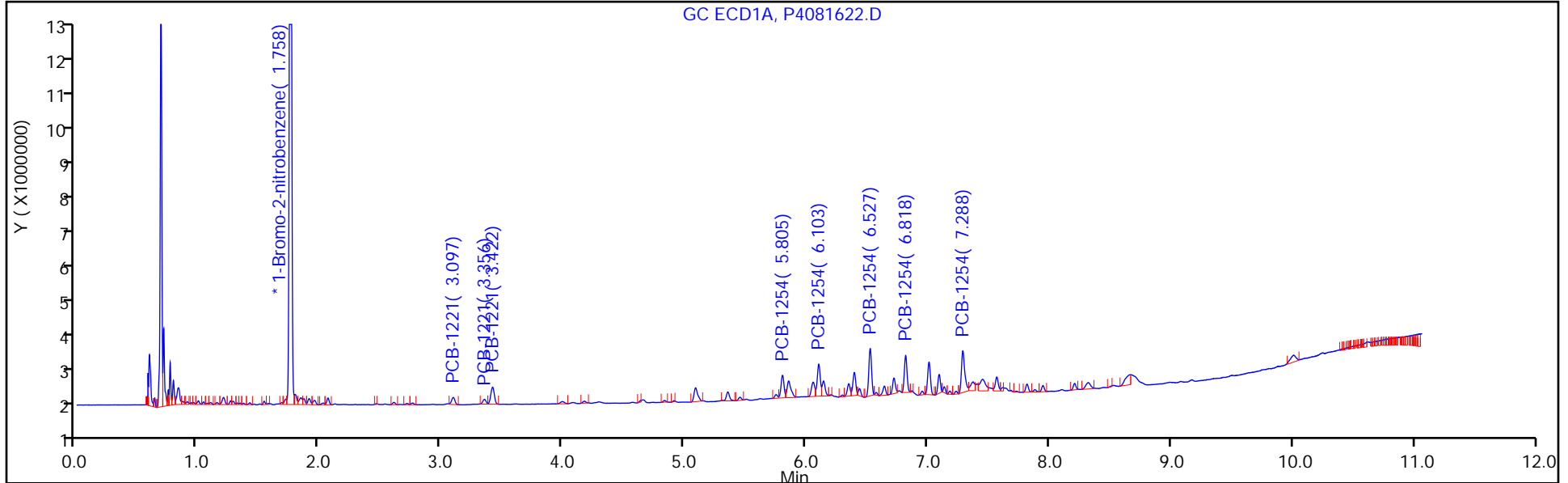
ALS Bottle#: 22

Method: PCB4 is

Limit Group: GC 8082A IS

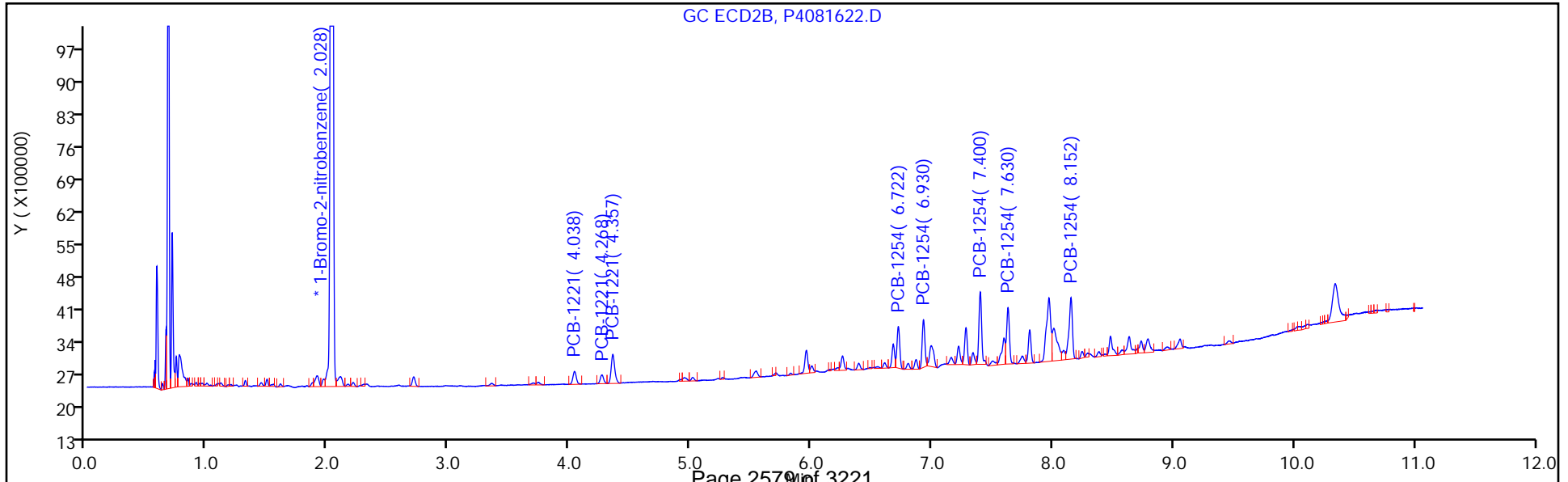
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

```

Data File:      \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081623.D
Lims ID:       std01 ar1254
Client ID:
Sample Type:   IC                      Calib Level:      2
Inject. Date:  16-Aug-2022 15:54:03    ALS Bottle#:     23           Worklist Smp#:  23
Injection Vol: 1.0 ul                   Dil. Factor:     1.0000
Sample Info:   240-0121327-023
Operator ID:
Sublist:      chrom-PCB4 is*sub4
Instrument ID: A2HP4

Method:        \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
Limit Group:   GC 8082A IS
Last Update:   17-Aug-2022 08:11:48    Calib Date:      16-Aug-2022 18:49:18
Integrator:    Falcon
Quant Method:  Internal Standard          Quant By:         Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Column 1 :    CLP-1 0.53mm ID ( 0.53 mm)           Det: GC ECD1A
Column 2 :    CLP-2 0.53mm ID ( 0.53 mm)           Det: GC ecd2b
Process Host:  CTX1681
    
```

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.757	1.751	0.006	34533327	0.0500	0.0500	
2	2.028	2.020	0.008	48082537	0.0500	0.0500	

3 PCB-1221

1	3.101	3.097	0.004	896113	0.1000	0.1164	
1	3.357	3.356	0.001	572033	0.1000	0.1116	
1	3.424	3.422	0.002	2031772	0.1000	0.1099	

Average of Peak Amounts = 0.1126

2	4.042	4.038	0.004	1089595	0.1000	0.1078	
2	4.268	4.268	0.000	733202	0.1000	0.1089	
2	4.358	4.357	0.001	2612682	0.1000	0.1090	

Average of Peak Amounts = 0.1085

RPD = 3.70

8 PCB-1254

1	5.812	5.805	0.007	2343837	0.1000	0.1072	
1	6.109	6.103	0.006	3429230	0.1000	0.1081	
1	6.533	6.527	0.006	4705353	0.1000	0.1044	
1	6.825	6.818	0.007	3712915	0.1000	0.1055	
1	7.296	7.288	0.008	4956791	0.1000	0.1034	

Average of Peak Amounts = 0.1057

2	6.728	6.722	0.006	3074365	0.1000	0.1078	
2	6.937	6.930	0.007	3497321	0.1000	0.1077	
2	7.407	7.400	0.007	5170674	0.1000	0.1057	
2	7.638	7.630	0.008	4059126	0.1000	0.1075	
2	8.159	8.152	0.007	5350578	0.1000	0.1076	

Average of Peak Amounts = 0.1073

RPD = 1.47

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@O.1PPM_00030

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081623.D

Injection Date: 16-Aug-2022 15:54:03

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 ar1254

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

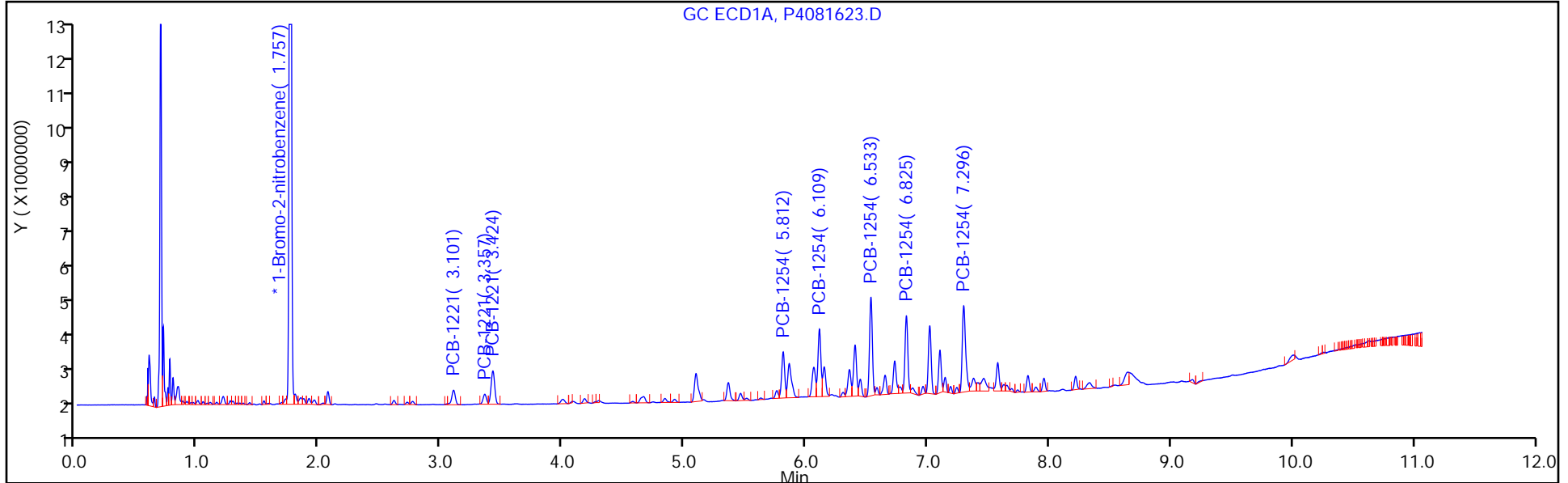
ALS Bottle#: 23

Method: PCB4 is

Limit Group: GC 8082A IS

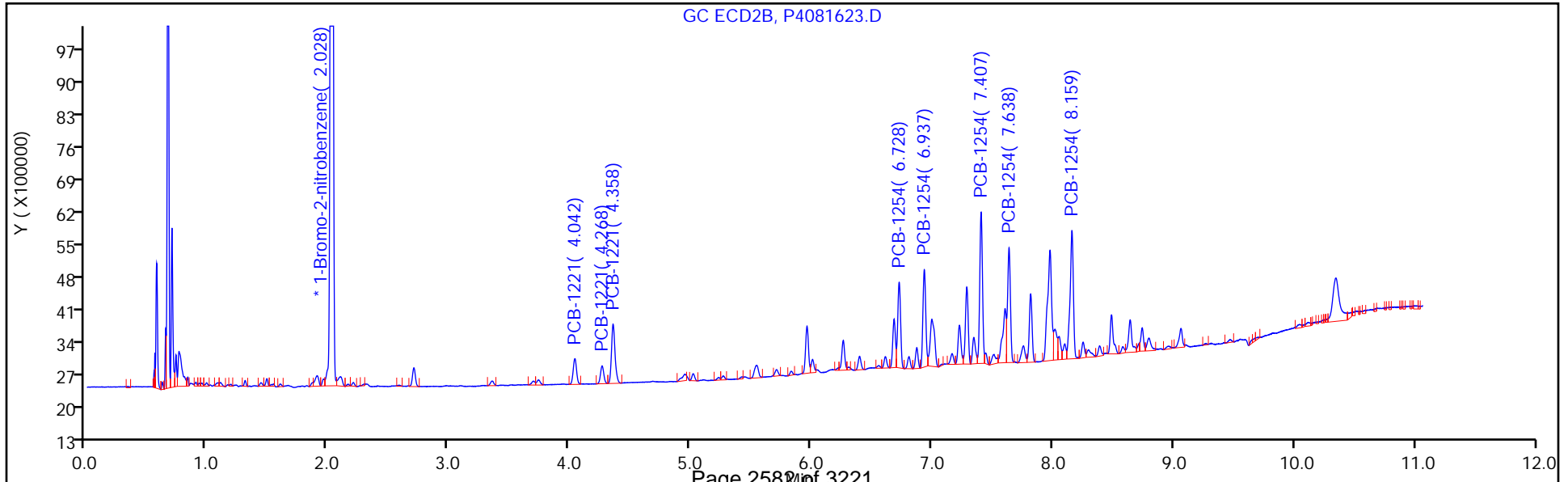
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081624.D
 Lims ID: std02 ar1254
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 16:11:41 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-024
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:53 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:00:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.757	1.751	0.006	33725518	0.0500	0.0500	
2	2.028	2.020	0.007	47199906	0.0500	0.0500	

3 PCB-1221

1	3.095	3.097	-0.002	1549600	0.2000	0.2060	
1	3.350	3.356	-0.006	1042226	0.2000	0.2083	
1	3.417	3.422	-0.005	3665962	0.2000	0.2031	

Average of Peak Amounts = 0.2058

2	4.034	4.038	-0.004	2012004	0.2000	0.2028	
2	4.259	4.268	-0.009	1350189	0.2000	0.2042	
2	4.349	4.357	-0.008	4808544	0.2000	0.2043	

Average of Peak Amounts = 0.2038

RPD = 0.98

8 PCB-1254

1	5.802	5.805	-0.003	4240869	0.2000	0.1985	
1	6.102	6.103	-0.001	6061914	0.2000	0.1957	
1	6.524	6.527	-0.003	8469792	0.2000	0.1923	
1	6.815	6.818	-0.003	6592164	0.2000	0.1919	
1	7.287	7.288	-0.001	8924414	0.2000	0.1905	

Average of Peak Amounts = 0.1938

2	6.719	6.722	-0.003	5561374	0.2000	0.1987	
2	6.926	6.930	-0.004	6294664	0.2000	0.1974	
2	7.397	7.400	-0.003	9205377	0.2000	0.1917	
2	7.629	7.630	-0.001	7079343	0.2000	0.1910	
2	8.151	8.152	-0.001	9237373	0.2000	0.1893	

Average of Peak Amounts = 0.1936

RPD = 0.09

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.2PPM_00031

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081624.D

Injection Date: 16-Aug-2022 16:11:41

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 ar1254

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

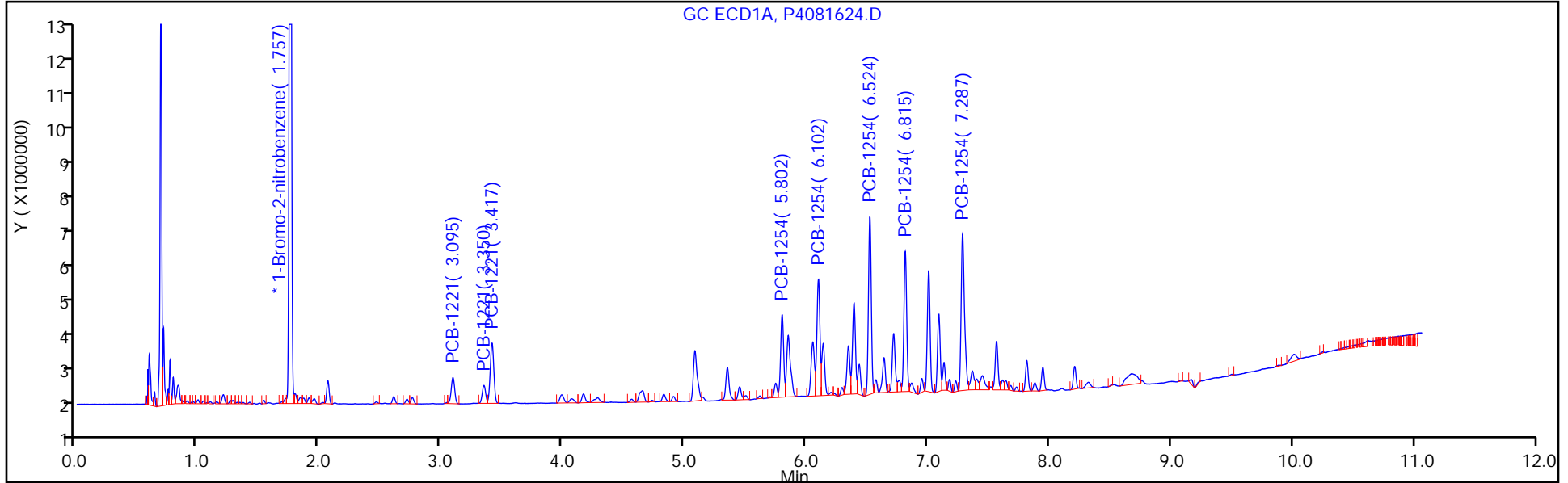
ALS Bottle#: 24

Method: PCB4 is

Limit Group: GC 8082A IS

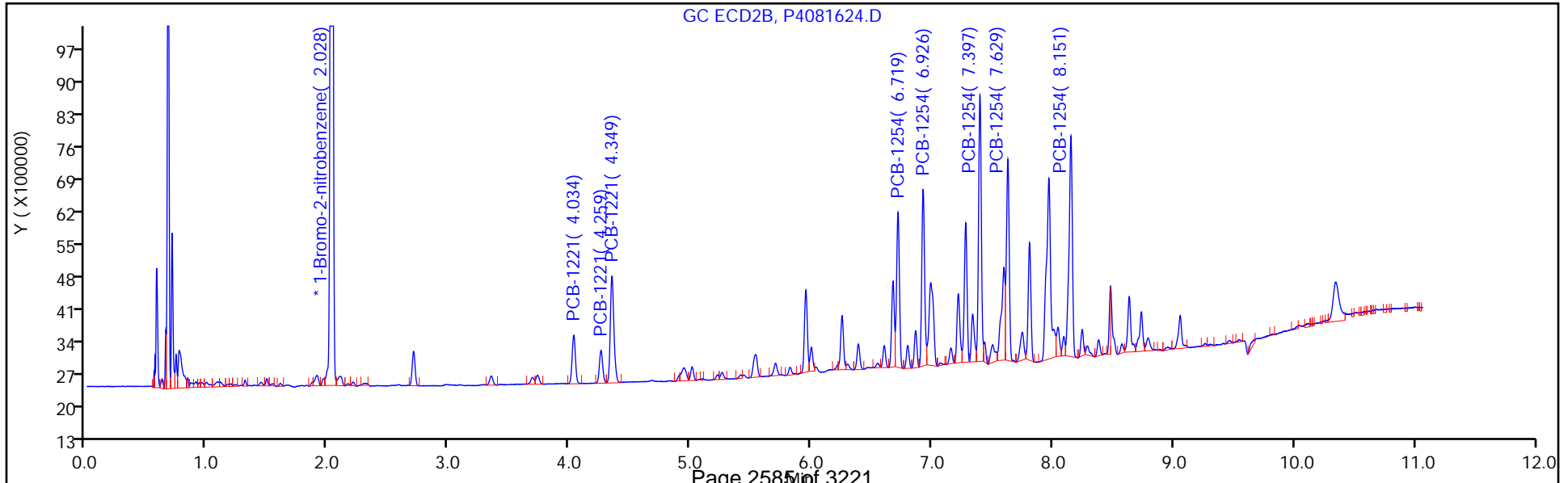
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081625.D
 Lims ID: std05 ar1254
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Aug-2022 16:29:21 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-025
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:11:57 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.753	1.751	0.001	32211088	0.0500	0.0500	
2	2.023	2.020	0.002	44717728	0.0500	0.0500	

3 PCB-1221

1	3.091	3.097	-0.006	3432843	0.5000	0.4779	
1	3.347	3.356	-0.009	2318714	0.5000	0.4851	
1	3.413	3.422	-0.009	8213311	0.5000	0.4763	

Average of Peak Amounts = 0.4798

2	4.033	4.038	-0.005	4527672	0.5000	0.4818	
2	4.259	4.268	-0.009	3042943	0.5000	0.4857	
2	4.351	4.357	-0.006	10792517	0.5000	0.4840	

Average of Peak Amounts = 0.4838

RPD = 0.84

8 PCB-1254

1	5.805	5.805	0.000	10032144	0.5000	0.4917	
1	6.103	6.103	0.000	14498206	0.5000	0.4902	
1	6.527	6.527	0.000	21311225	0.5000	0.5067	
1	6.818	6.818	0.000	16832091	0.5000	0.5129	
1	7.292	7.288	0.004	22970670	0.5000	0.5135	

Average of Peak Amounts = 0.5030

2	6.722	6.722	0.000	13255422	0.5000	0.4999	
2	6.930	6.930	0.000	15328790	0.5000	0.5075	
2	7.403	7.400	0.003	22990535	0.5000	0.5054	
2	7.633	7.630	0.003	17441943	0.5000	0.4968	
2	8.154	8.152	0.002	23321974	0.5000	0.5044	

Average of Peak Amounts = 0.5028

RPD = 0.04

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.5PPM_00066

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081625.D

Injection Date: 16-Aug-2022 16:29:21

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 ar1254

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

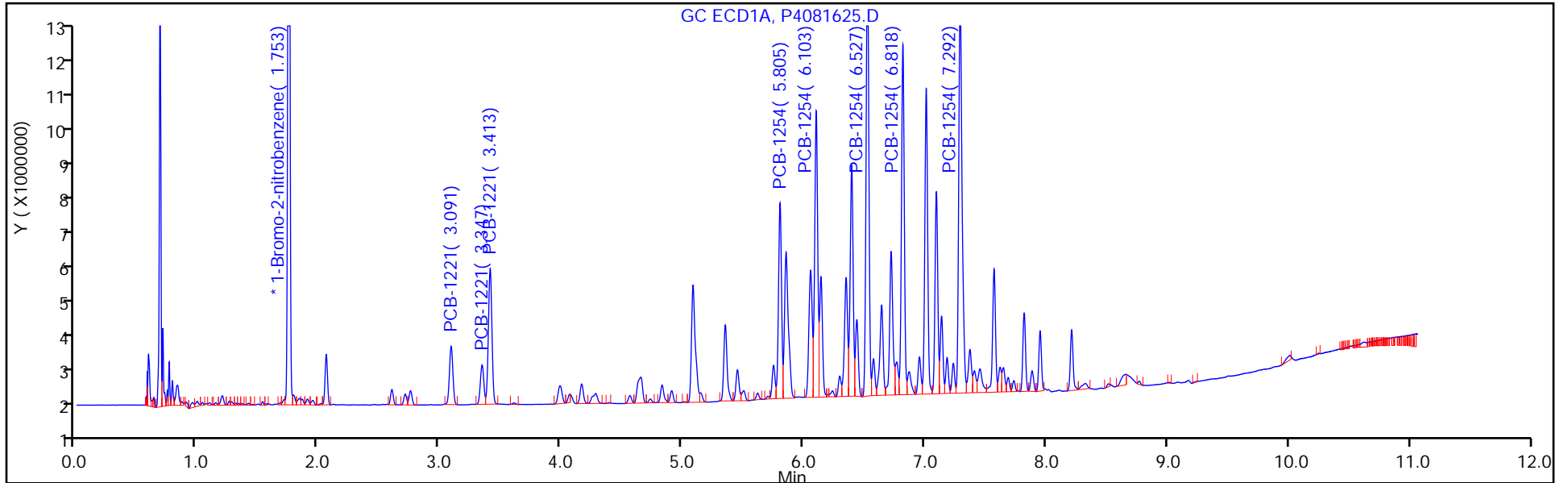
ALS Bottle#: 25

Method: PCB4 is

Limit Group: GC 8082A IS

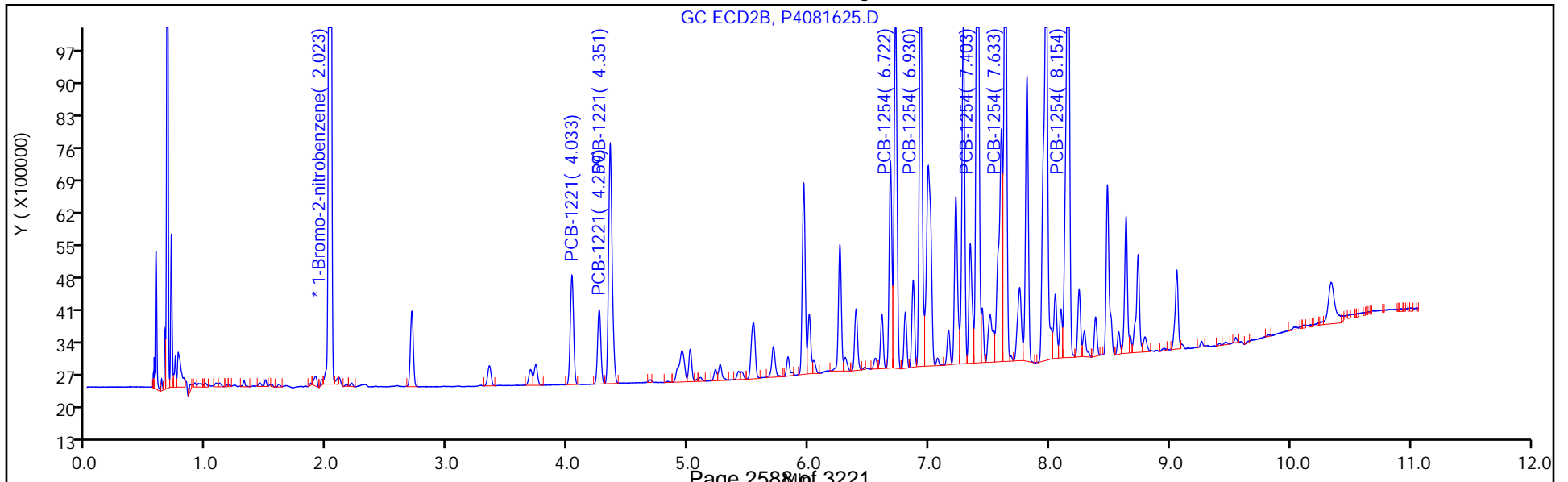
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081626.D
 Lims ID: std1 ar1254
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 16:46:51 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-026
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:03 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.753	1.751	0.002	33455612	0.0500	0.0500	
2	2.023	2.020	0.003	46669868	0.0500	0.0500	

3 PCB-1221

1	3.092	3.097	-0.005	6543022	1.00	0.8770	
1	3.348	3.356	-0.008	4427940	1.00	0.8919	
1	3.414	3.422	-0.008	15752491	1.00	0.8796	

Average of Peak Amounts = 0.8828

2	4.033	4.038	-0.005	8765506	1.00	0.8937	
2	4.258	4.268	-0.010	5824714	1.00	0.8909	
2	4.349	4.357	-0.008	20813038	1.00	0.8943	

Average of Peak Amounts = 0.8929

RPD = 1.14

8 PCB-1254

1	5.803	5.805	-0.002	19353994	1.00	0.9133	
1	6.101	6.103	-0.002	27956238	1.00	0.9100	
1	6.526	6.527	-0.001	41473126	1.00	0.9494	
1	6.817	6.818	-0.001	32317512	1.00	0.9482	
1	7.289	7.288	0.001	44064247	1.00	0.9484	

Average of Peak Amounts = 0.9339

2	6.720	6.722	-0.002	25442821	1.00	0.9194	
2	6.929	6.930	-0.001	29203771	1.00	0.9264	
2	7.401	7.400	0.001	44303314	1.00	0.9332	
2	7.632	7.630	0.002	33783286	1.00	0.9220	
2	8.154	8.152	0.002	44032496	1.00	0.9125	

Average of Peak Amounts = 0.9227

RPD = 1.20

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@1.0PPM_00047

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081626.D

Injection Date: 16-Aug-2022 16:46:51

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 ar1254

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

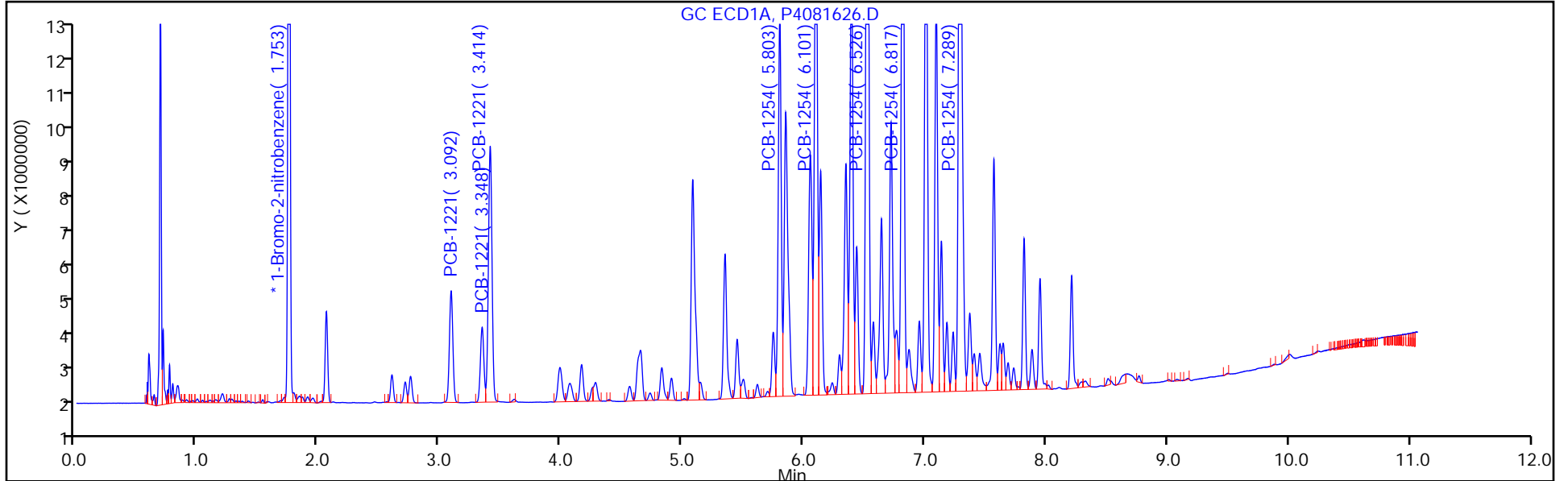
ALS Bottle#: 26

Method: PCB4 is

Limit Group: GC 8082A IS

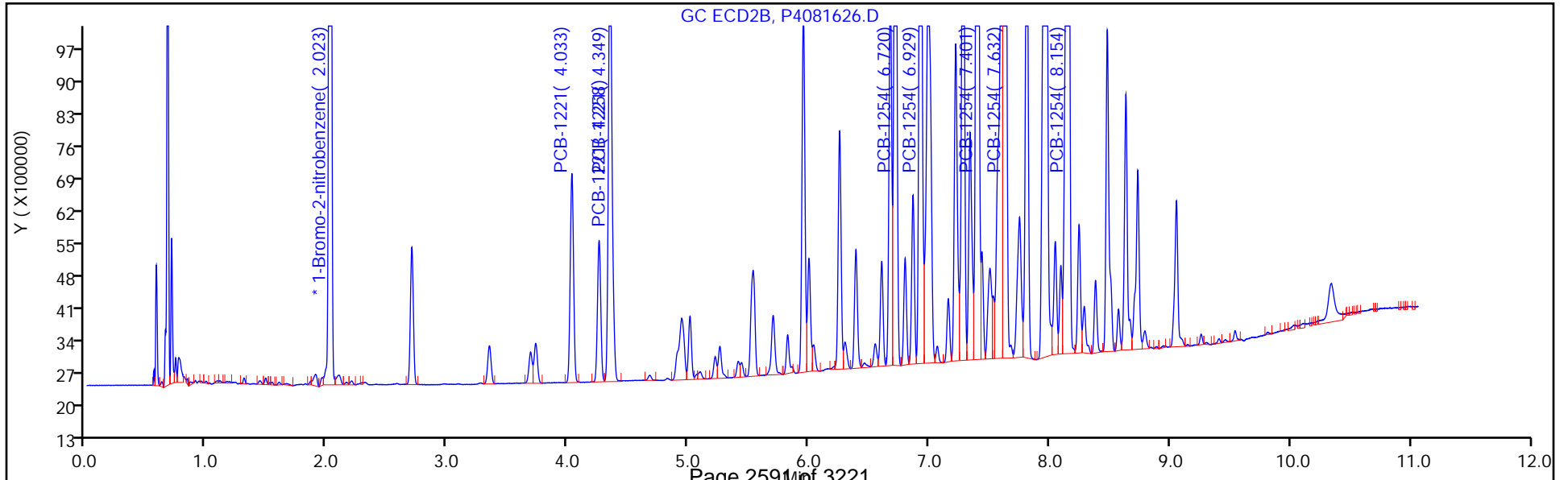
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081627.D
 Lims ID: std15 ar1254
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 17:04:25 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-027
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:08 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:01:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	33874415	0.0500	0.0500	
2	2.026	2.020	0.005	47627115	0.0500	0.0500	

3 PCB-1221

1	3.095	3.097	-0.002	9879015	1.50	1.31	
1	3.351	3.356	-0.005	6589399	1.50	1.31	
1	3.418	3.422	-0.004	23896062	1.50	1.32	

Average of Peak Amounts = 1.31

2	4.033	4.038	-0.005	13318558	1.50	1.33	
2	4.258	4.268	-0.010	8734708	1.50	1.31	
2	4.349	4.357	-0.008	31531860	1.50	1.33	

Average of Peak Amounts = 1.32

RPD = 0.78

8 PCB-1254

1	5.802	5.805	-0.003	30082508	1.50	1.40	
1	6.102	6.103	-0.001	44098049	1.50	1.42	
1	6.527	6.527	0.000	65689495	1.50	1.49	
1	6.818	6.818	0.000	51080860	1.50	1.48	
1	7.292	7.288	0.004	69965145	1.50	1.49	

Average of Peak Amounts = 1.45

2	6.722	6.722	0.000	39819288	1.50	1.41	
2	6.931	6.930	0.001	45811402	1.50	1.42	
2	7.402	7.400	0.002	70048331	1.50	1.45	
2	7.634	7.630	0.004	52604278	1.50	1.41	
2	8.155	8.152	0.003	69776806	1.50	1.42	

Average of Peak Amounts = 1.42

RPD = 2.35

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@1.5PPM_00013

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081627.D

Injection Date: 16-Aug-2022 17:04:25

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 ar1254

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

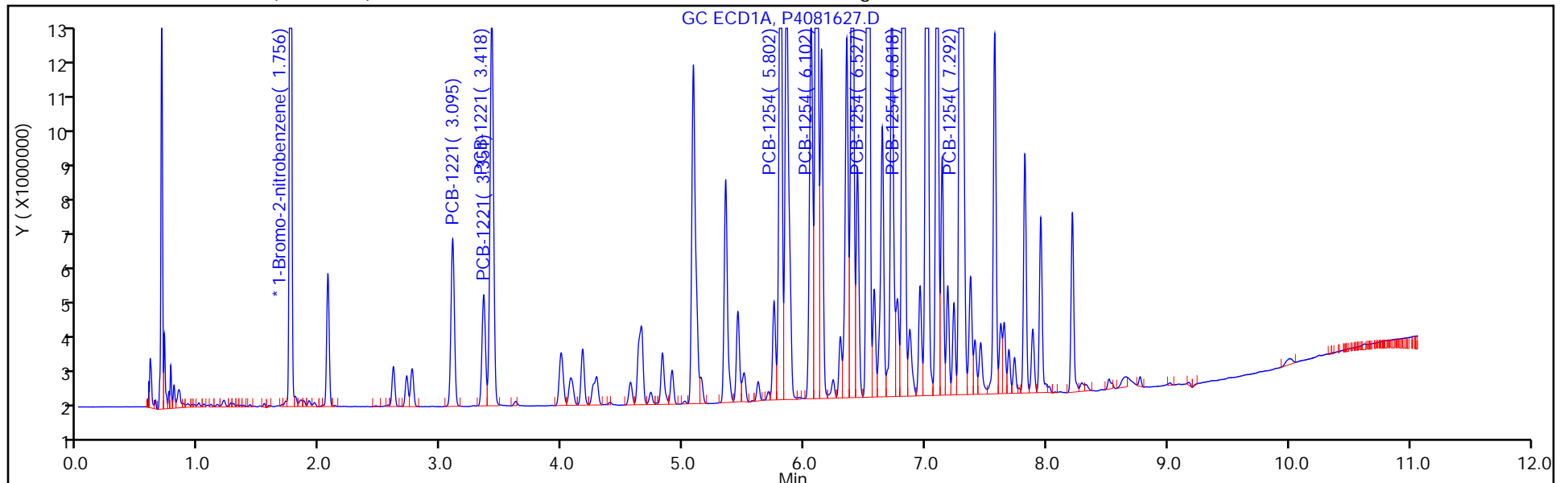
ALS Bottle#: 27

Method: PCB4 is

Limit Group: GC 8082A IS

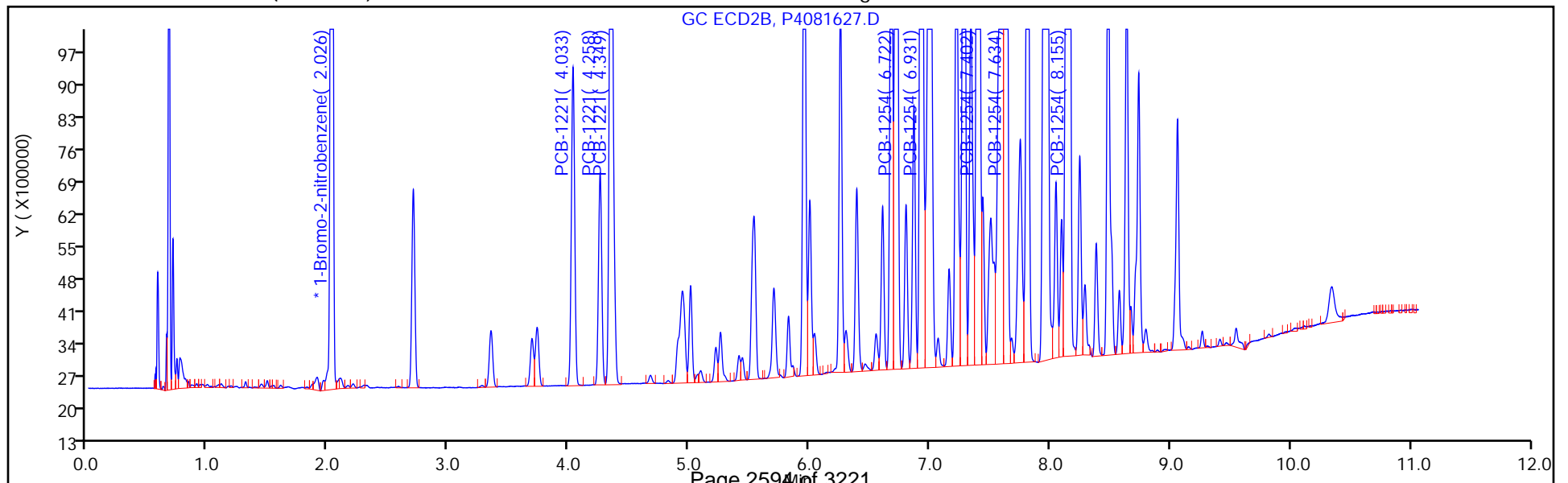
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

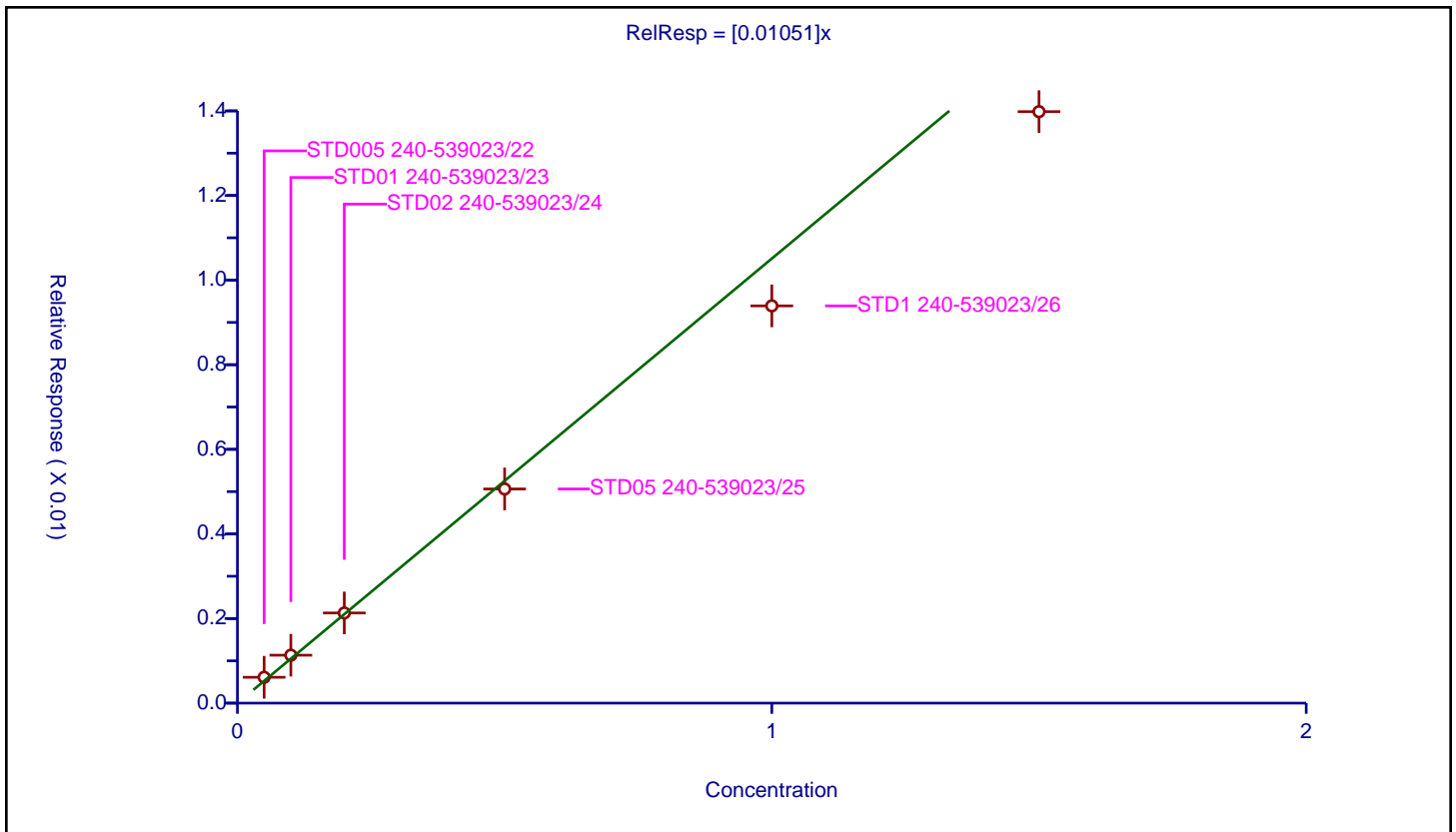
/ PCB-1221 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01051

Error Coefficients	
Standard Error:	7490000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.000611	0.05	45701821.0	0.012227	Y
2	STD01 240-539023/23	0.1	0.001133	0.05	48082537.0	0.01133	Y
3	STD02 240-539023/24	0.2	0.002131	0.05	47199906.0	0.010657	Y
4	STD05 240-539023/25	0.5	0.005063	0.05	44717728.0	0.010125	Y
5	STD1 240-539023/26	1.0	0.009391	0.05	46669868.0	0.009391	Y
6	STD15 240-539023/27	1.5	0.013982	0.05	47627115.0	0.009321	Y



Calibration

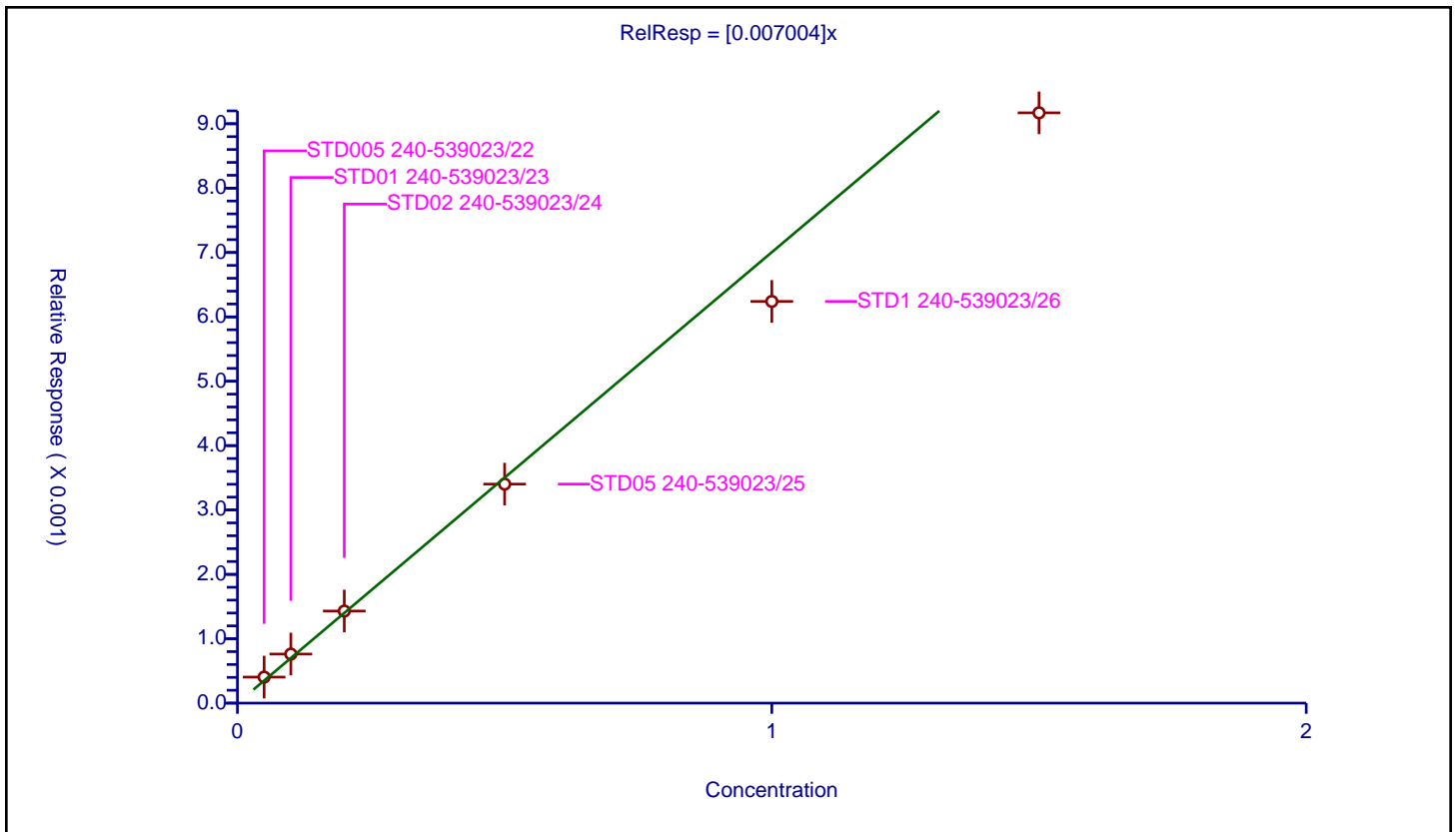
/ PCB-1221 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.007004

Error Coefficients	
Standard Error:	4940000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.000405	0.05	45701821.0	0.008092	Y
2	STD01 240-539023/23	0.1	0.000762	0.05	48082537.0	0.007624	Y
3	STD02 240-539023/24	0.2	0.00143	0.05	47199906.0	0.007151	Y
4	STD05 240-539023/25	0.5	0.003402	0.05	44717728.0	0.006805	Y
5	STD1 240-539023/26	1.0	0.00624	0.05	46669868.0	0.00624	Y
6	STD15 240-539023/27	1.5	0.00917	0.05	47627115.0	0.006113	Y



Calibration

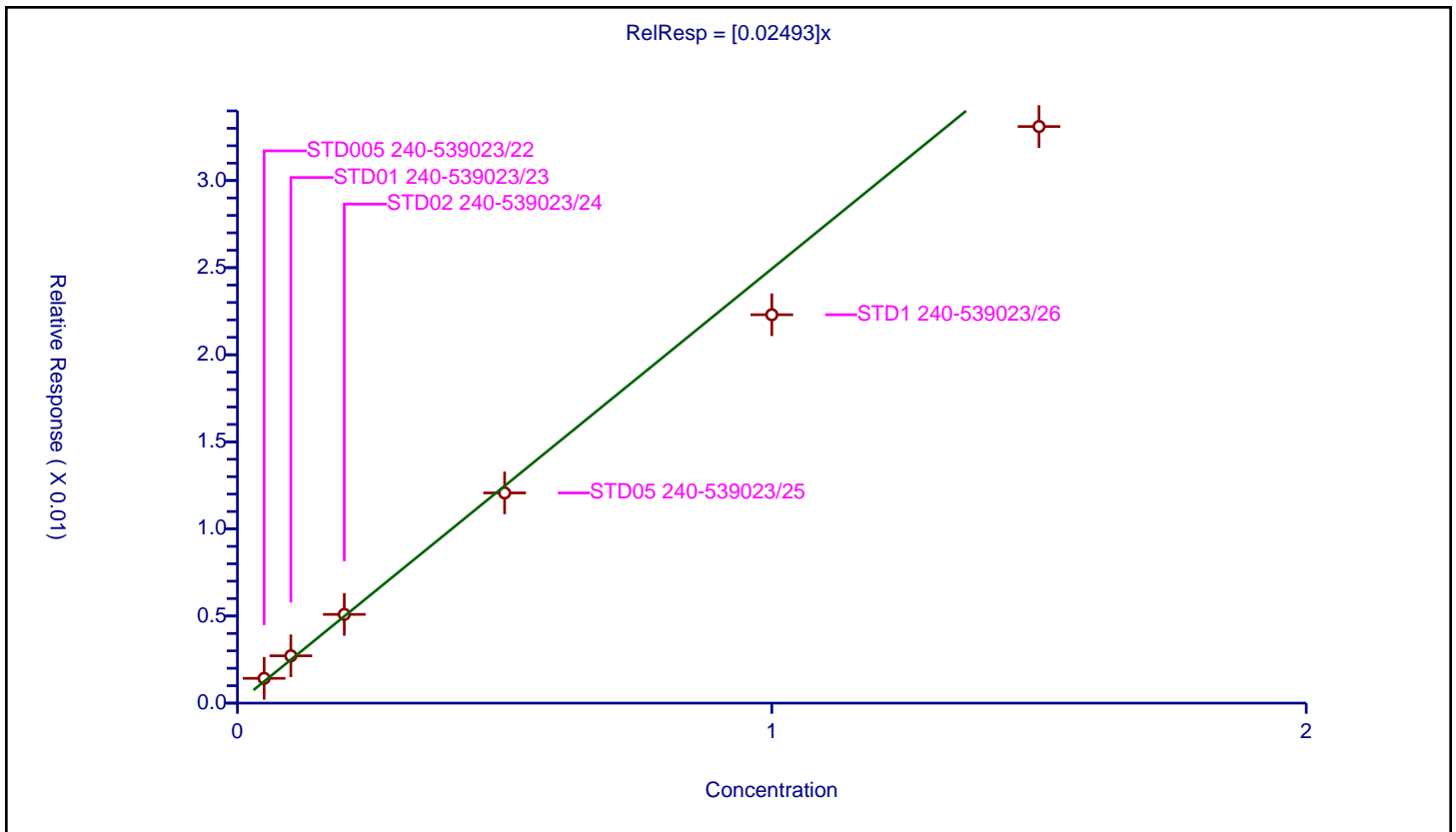
/ PCB-1221 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02493

Error Coefficients	
Standard Error:	17800000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.001423	0.05	45701821.0	0.028467	Y
2	STD01 240-539023/23	0.1	0.002717	0.05	48082537.0	0.027169	Y
3	STD02 240-539023/24	0.2	0.005094	0.05	47199906.0	0.025469	Y
4	STD05 240-539023/25	0.5	0.012067	0.05	44717728.0	0.024135	Y
5	STD1 240-539023/26	1.0	0.022298	0.05	46669868.0	0.022298	Y
6	STD15 240-539023/27	1.5	0.033103	0.05	47627115.0	0.022069	Y



Calibration

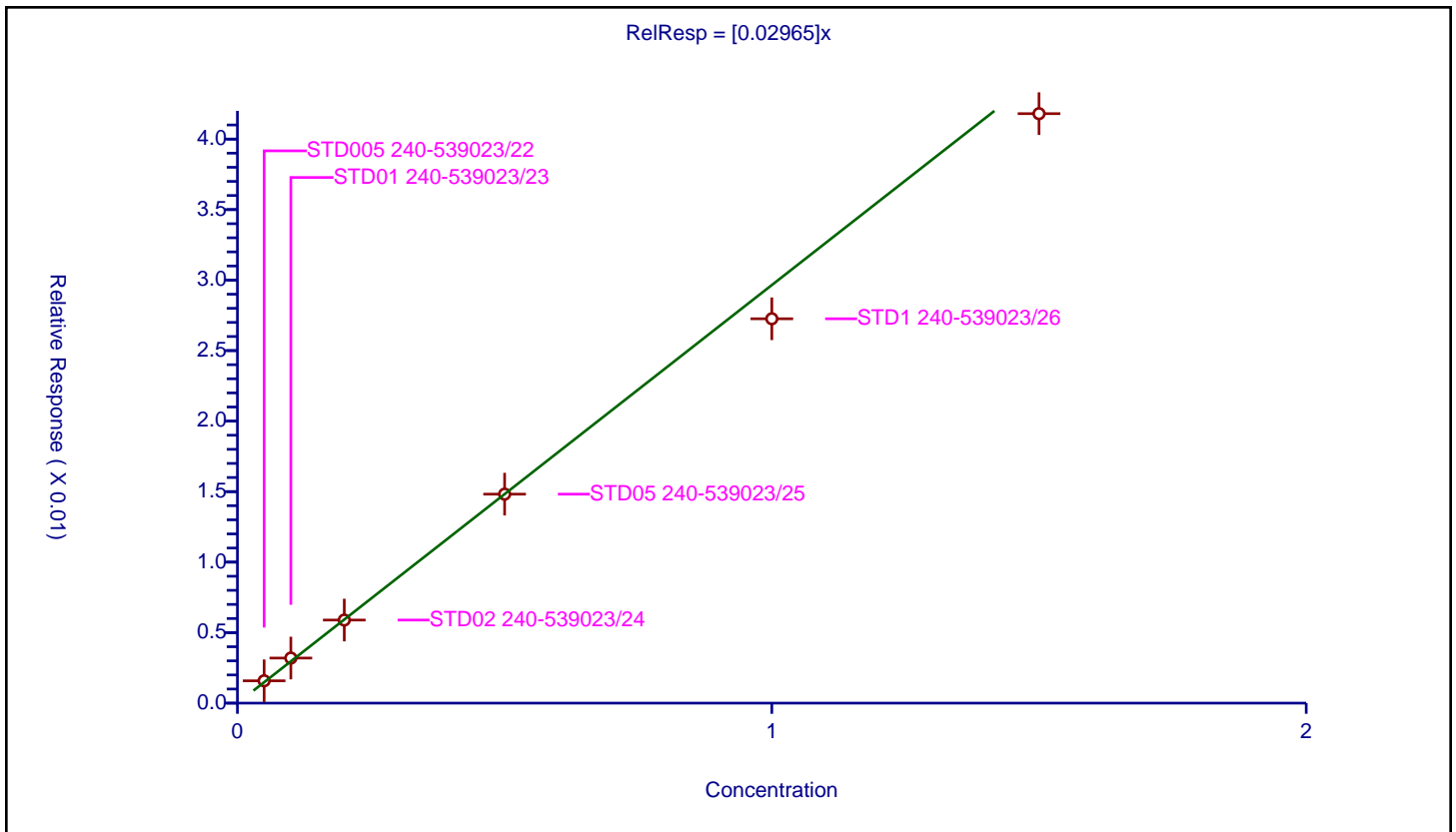
/ PCB-1254 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02965

Error Coefficients	
Standard Error:	22100000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.001585	0.05	45701821.0	0.031694	Y
2	STD01 240-539023/23	0.1	0.003197	0.05	48082537.0	0.03197	Y
3	STD02 240-539023/24	0.2	0.005891	0.05	47199906.0	0.029456	Y
4	STD05 240-539023/25	0.5	0.014821	0.05	44717728.0	0.029642	Y
5	STD1 240-539023/26	1.0	0.027258	0.05	46669868.0	0.027258	Y
6	STD15 240-539023/27	1.5	0.041803	0.05	47627115.0	0.027869	Y



Calibration

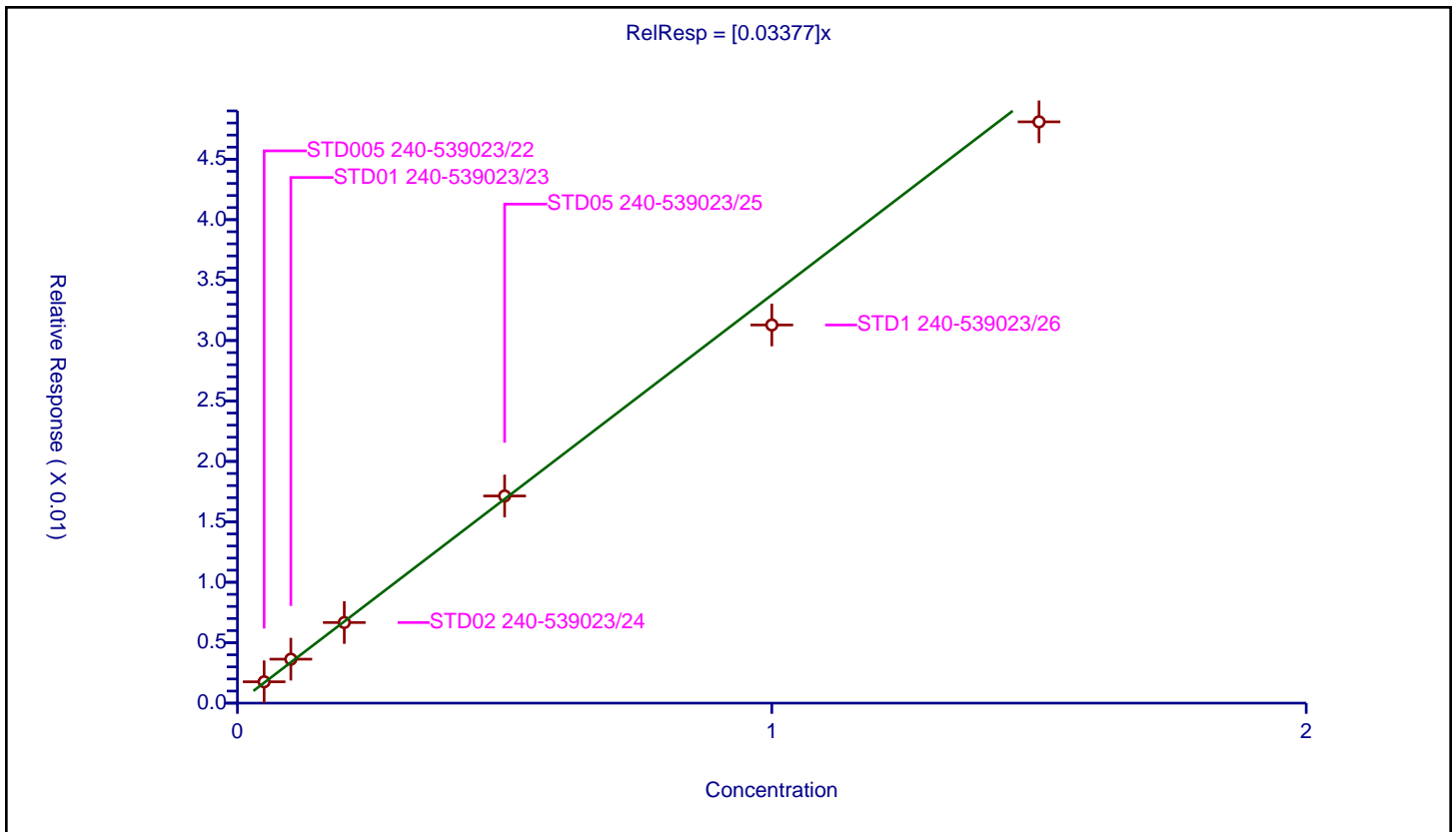
/ PCB-1254 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03377

Error Coefficients	
Standard Error:	25500000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.001765	0.05	45701821.0	0.035309	Y
2	STD01 240-539023/23	0.1	0.003637	0.05	48082537.0	0.036368	Y
3	STD02 240-539023/24	0.2	0.006668	0.05	47199906.0	0.03334	Y
4	STD05 240-539023/25	0.5	0.01714	0.05	44717728.0	0.034279	Y
5	STD1 240-539023/26	1.0	0.031288	0.05	46669868.0	0.031288	Y
6	STD15 240-539023/27	1.5	0.048094	0.05	47627115.0	0.032063	Y



Calibration

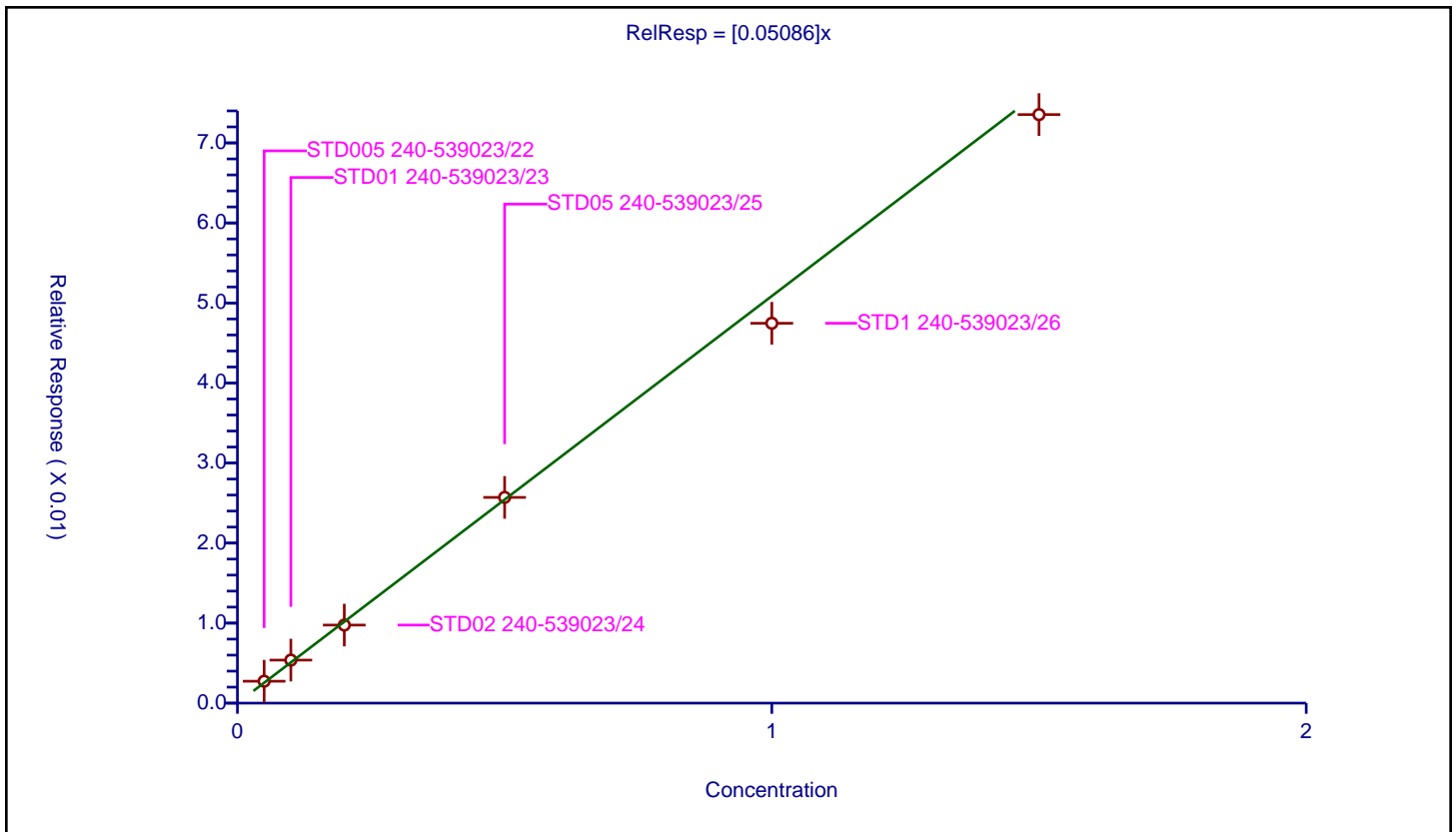
/ PCB-1254 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05086

Error Coefficients	
Standard Error:	38800000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.002738	0.05	45701821.0	0.054755	Y
2	STD01 240-539023/23	0.1	0.005377	0.05	48082537.0	0.053769	Y
3	STD02 240-539023/24	0.2	0.009751	0.05	47199906.0	0.048757	Y
4	STD05 240-539023/25	0.5	0.025706	0.05	44717728.0	0.051413	Y
5	STD1 240-539023/26	1.0	0.047465	0.05	46669868.0	0.047465	Y
6	STD15 240-539023/27	1.5	0.073538	0.05	47627115.0	0.049026	Y



Calibration

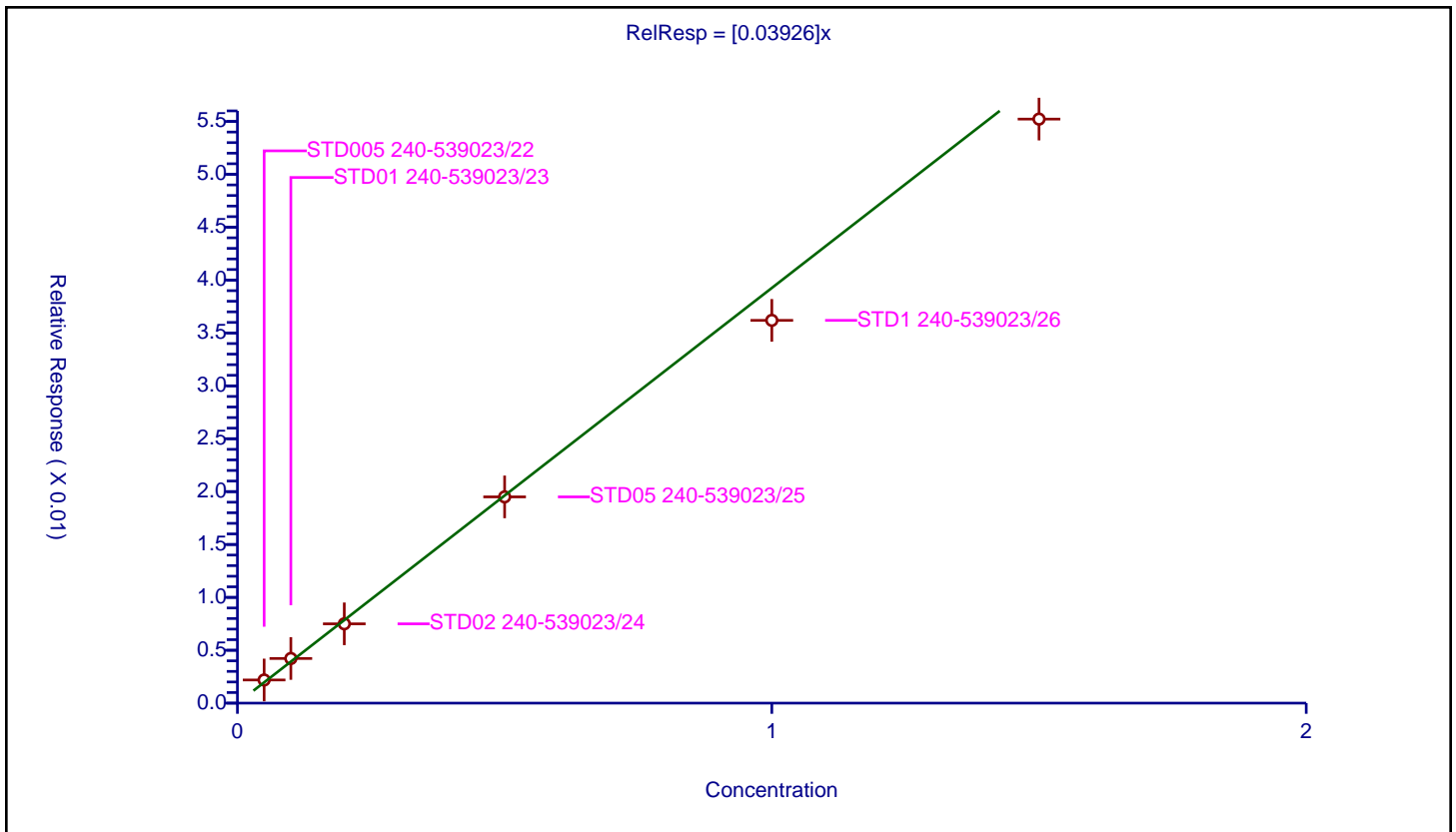
/ PCB-1254 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03926

Error Coefficients	
Standard Error:	29300000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.002191	0.05	45701821.0	0.043814	Y
2	STD01 240-539023/23	0.1	0.004221	0.05	48082537.0	0.04221	Y
3	STD02 240-539023/24	0.2	0.007499	0.05	47199906.0	0.037497	Y
4	STD05 240-539023/25	0.5	0.019502	0.05	44717728.0	0.039005	Y
5	STD1 240-539023/26	1.0	0.036194	0.05	46669868.0	0.036194	Y
6	STD15 240-539023/27	1.5	0.055225	0.05	47627115.0	0.036817	Y



Calibration

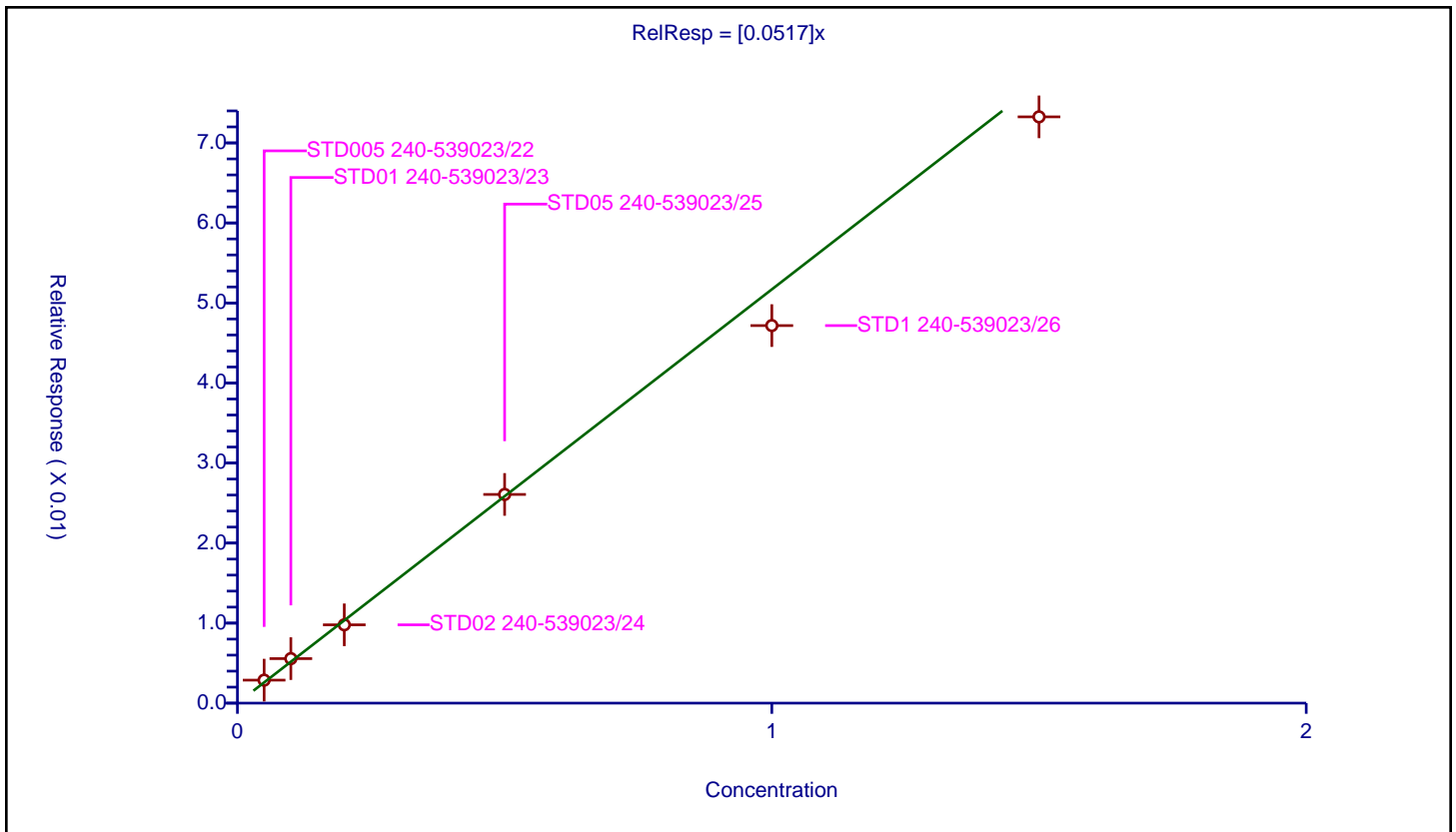
/ PCB-1254 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.0517

Error Coefficients	
Standard Error:	38700000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/22	0.05	0.002872	0.05	45701821.0	0.057445	Y
2	STD01 240-539023/23	0.1	0.005564	0.05	48082537.0	0.05564	Y
3	STD02 240-539023/24	0.2	0.009785	0.05	47199906.0	0.048927	Y
4	STD05 240-539023/25	0.5	0.026077	0.05	44717728.0	0.052154	Y
5	STD1 240-539023/26	1.0	0.047174	0.05	46669868.0	0.047174	Y
6	STD15 240-539023/27	1.5	0.073253	0.05	47627115.0	0.048835	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:21 Calibration End Date: 08/16/2022 18:49 Calibration ID: 67260

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/28	P4081628.D
Level 2	STD01 240-539023/29	P4081629.D
Level 3	STD02 240-539023/30	P4081630.D
Level 4	STD05 240-539023/31	P4081631.D
Level 5	STD1 240-539023/32	P4081632.D
Level 6	STD15 240-539023/33	P4081633.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0206 0.0160	0.0199	0.0182	0.0169	0.0165	Ave		0.018 0			10.5		20.0				
PCB-1016 Peak 2	0.0389 0.0297	0.0370	0.0334	0.0309	0.0305	Ave		0.033 4			11.3		20.0				
PCB-1016 Peak 3	0.0808 0.0707	0.0781	0.0712	0.0684	0.0708	Ave		0.073 3			6.7		20.0				
PCB-1016 Peak 4	0.0362 0.0295	0.0344	0.0312	0.0295	0.0298	Ave		0.031 8			9.0		20.0				
PCB-1016 Peak 5	0.0149 0.0116	0.0142	0.0127	0.0118	0.0118	Ave		0.012 8			11.2		20.0				
PCB-1260 Peak 1	0.0551 0.0459	0.0531	0.0465	0.0432	0.0454	Ave		0.048 2			9.8		20.0				
PCB-1260 Peak 2	0.0850 0.0763	0.0832	0.0746	0.0706	0.0746	Ave		0.077 4			7.2		20.0				
PCB-1260 Peak 3	0.0985 0.0851	0.0945	0.0833	0.0791	0.0830	Ave		0.087 2			8.6		20.0				
PCB-1260 Peak 4	0.1258 0.1270	0.1272	0.1156	0.1144	0.1218	Ave		0.122 0			4.7		20.0				
PCB-1260 Peak 5	0.0664 0.0630	0.0653	0.0599	0.0572	0.0599	Ave		0.061 9			5.7		20.0				
Tetrachloro-m-xylene	1.0084 0.9248	0.9568	0.9409	0.9172	0.9341	Lin1	0.000 2	0.923 0						1.0000			0.9900
DCB Decachlorobiphenyl	1.4577 1.1872	1.3708	1.2353	1.1121	1.0890	Lin1	0.000 9	1.129 4						0.9970			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-1 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:21 Calibration End Date: 08/16/2022 18:49 Calibration ID: 67260

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/28	P4081628.D
Level 2	STD01 240-539023/29	P4081629.D
Level 3	STD02 240-539023/30	P4081630.D
Level 4	STD05 240-539023/31	P4081631.D
Level 5	STD1 240-539023/32	P4081632.D
Level 6	STD15 240-539023/33	P4081633.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	678294 15445151	1271760	2413528	6080232	11277199	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	1276816 28750576	2369524	4423022	11121830	20817483	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	2653432 68328352	5003574	9422620	24607616	48309239	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	1190191 28539766	2202160	4132365	10614654	20373696	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	490205 11170750	910788	1685453	4229094	8028584	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Ave	1808855 44415517	3398085	6153738	15534795	30990492	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Ave	2793655 73790566	5329675	9874886	25402673	50939599	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Ave	3234897 82295293	6048833	11020465	28439308	56631949	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Ave	4132807 122801645	8143900	15294132	41168206	83171627	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	2179605 60867880	4180528	7924517	20565839	40890247	0.0500 1.50	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin1	1656301 47690520	3063590	6223373	16496979	31886165	0.00250 0.0800	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	BNB	Lin1	2394234 61218108	4389208	8170806	20002617	37172594	0.00250 0.0800	0.00500	0.0100	0.0250	0.0500

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D
 Lims ID: std005 1660
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 17:21:53 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-028
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:13 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:02:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.752	1.751	0.001	32848591	0.0500	0.0500	
2	2.022	2.020	0.002	45741383	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.768	2.765	0.003	1656301	0.002500	0.002529	
2	3.484	3.480	0.004	2280600	0.002500	0.002520	

RPD = 0.38

6 PCB-1016

1	3.414	3.412	0.002	678294	0.0500	0.0573	
1	3.991	3.984	0.007	1276816	0.0500	0.0582	
1	4.654	4.650	0.004	2653432	0.0500	0.0551	
1	4.830	4.825	0.005	1190191	0.0500	0.0570	
1	5.148	5.146	0.002	490205	0.0500	0.0582	
Average of Peak Amounts =						0.0571	
2	4.351	4.345	0.006	850523	0.0500	0.0566	
2	4.946	4.942	0.004	1537820	0.0500	0.0550	
2	5.538	5.535	0.003	3305119	0.0500	0.0550	
2	5.702	5.700	0.002	1388193	0.0500	0.0569	
2	5.954	5.952	0.002	703220	0.0500	0.0577	
Average of Peak Amounts =						0.0562	

RPD = 1.59

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260							M
1	6.717	6.714	0.003	1808855	0.0500	0.0571	
1	7.005	7.001	0.004	2793655	0.0500	0.0549	
1	7.284	7.280	0.004	3234897	0.0500	0.0565	
1	7.949	7.940	0.009	4132807	0.0500	0.0516	
1	8.209	8.200	0.009	2179605	0.0500	0.0536	
Average of Peak Amounts =						0.0547	
2	7.598	7.590	0.008	1964195	0.0500	0.0571	
2	7.809	7.801	0.008	2376212	0.0500	0.0564	
2	8.150	8.142	0.008	3229741	0.0500	0.0564	M
2	8.736	8.728	0.008	4837595	0.0500	0.0549	
2	9.054	9.047	0.007	3480417	0.0500	0.0562	
Average of Peak Amounts =						0.0562	
						RPD = 2.63	

\$ 12 DCB Decachlorobiphenyl							
1	9.173	9.165	0.008	2394234	0.002500	0.002453	
2	10.028	10.024	0.004	2671151	0.002500	0.002375	
						RPD = 3.22	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1660@.05PPM_00047

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D

Injection Date: 16-Aug-2022 17:21:53

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1660

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

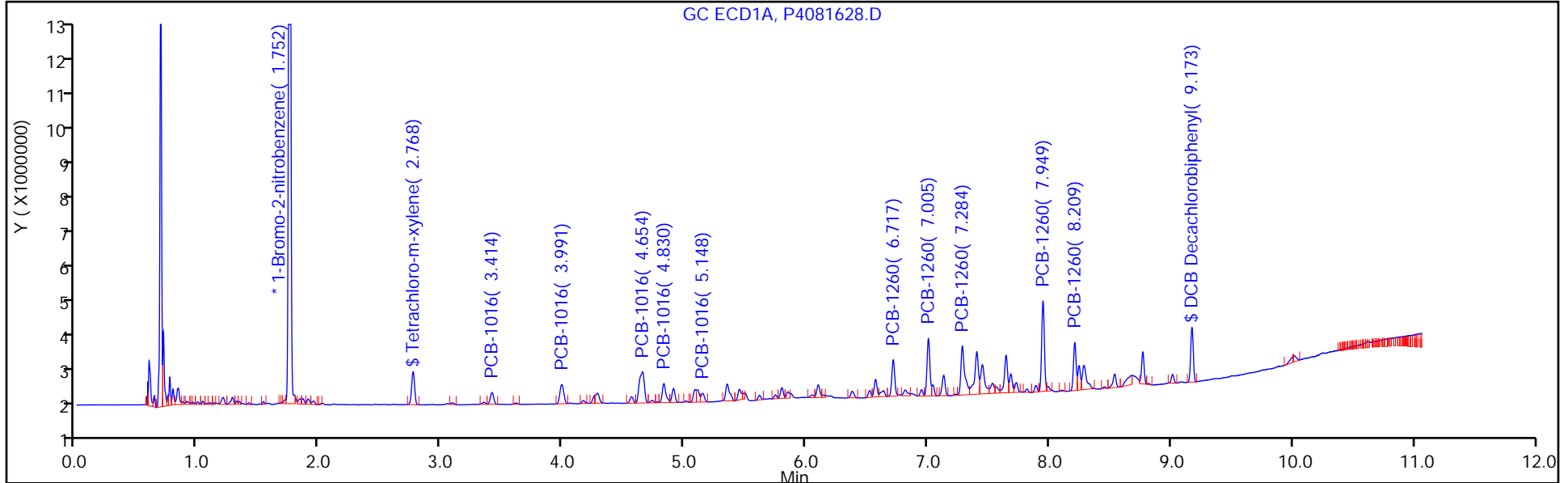
ALS Bottle#: 28

Method: PCB4 is

Limit Group: GC 8082A IS

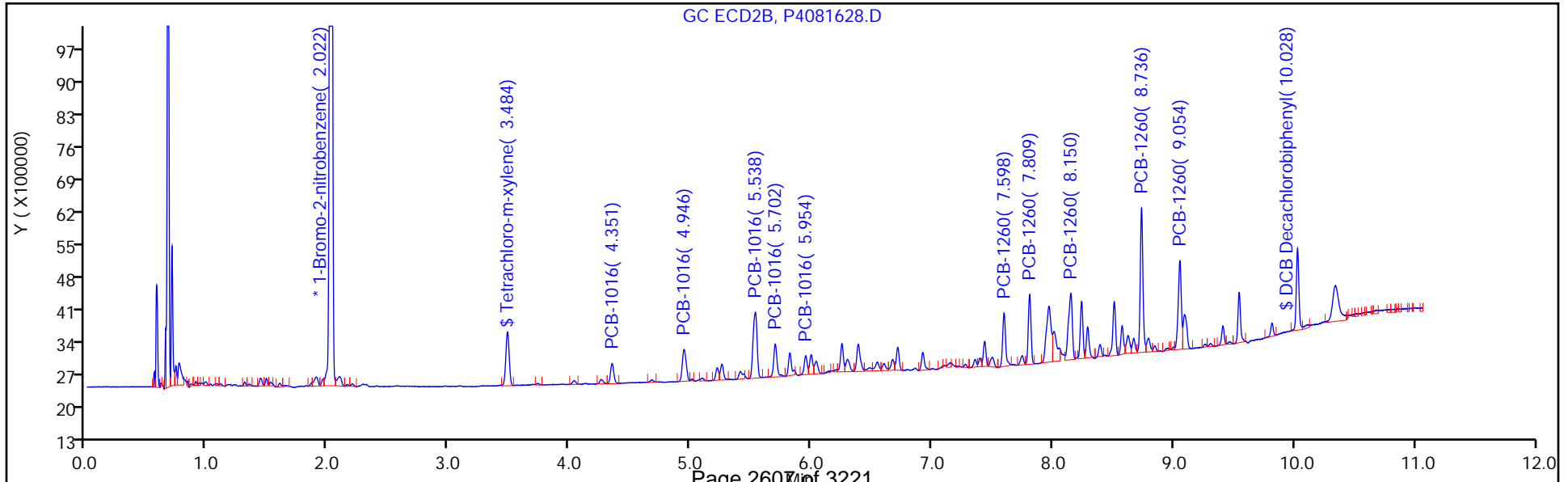
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081629.D
 Lims ID: std01 1660
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 17:39:28 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-029
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:19 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	32020051	0.0500	0.0500	
2	2.026	2.020	0.005	44805421	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.772	2.765	0.007	3063590	0.005000	0.004981	
2	3.486	3.480	0.006	4216612	0.005000	0.004963	

RPD = 0.36

6 PCB-1016

1	3.417	3.412	0.005	1271760	0.1000	0.1102	
1	3.991	3.984	0.007	2369524	0.1000	0.1108	
1	4.655	4.650	0.005	5003574	0.1000	0.1066	
1	4.831	4.825	0.006	2202160	0.1000	0.1082	
1	5.152	5.146	0.006	910788	0.1000	0.1109	
Average of Peak Amounts =						0.1093	
2	4.352	4.345	0.007	1582271	0.1000	0.1074	
2	4.949	4.942	0.007	3008837	0.1000	0.1098	
2	5.538	5.535	0.003	6254071	0.1000	0.1063	
2	5.705	5.700	0.005	2494535	0.1000	0.1044	
2	5.955	5.952	0.003	1313437	0.1000	0.1100	
Average of Peak Amounts =						0.1076	

RPD = 1.58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260 M

1	6.718	6.714	0.004	3398085	0.1000	0.1101	
1	7.008	7.001	0.007	5329675	0.1000	0.1075	
1	7.287	7.280	0.007	6048833	0.1000	0.1083	
1	7.947	7.940	0.007	8143900	0.1000	0.1043	
1	8.208	8.200	0.008	4180528	0.1000	0.1054	

Average of Peak Amounts = 0.1071

2	7.598	7.590	0.008	3591747	0.1000	0.1065	M
2	7.810	7.801	0.009	4430969	0.1000	0.1073	M
2	8.148	8.142	0.006	5879116	0.1000	0.1049	M
2	8.734	8.728	0.006	9128428	0.1000	0.1058	M
2	9.053	9.047	0.006	6557693	0.1000	0.1080	

Average of Peak Amounts = 0.1065

RPD = 0.56

\$ 12 DCB Decachlorobiphenyl

1	9.172	9.165	0.007	4389208	0.005000	0.005294	
2	10.029	10.024	0.005	4967299	0.005000	0.005389	

RPD = 1.78

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1660STD@0.1_00034

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081629.D

Injection Date: 16-Aug-2022 17:39:28

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1660

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

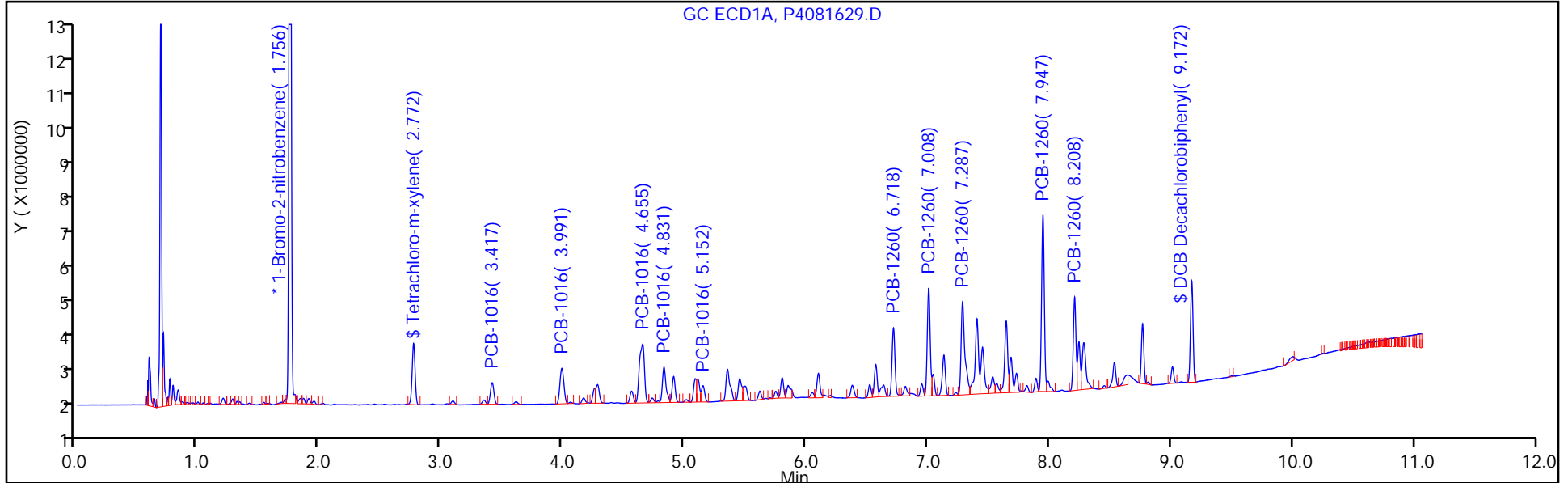
ALS Bottle#: 29

Method: PCB4 is

Limit Group: GC 8082A IS

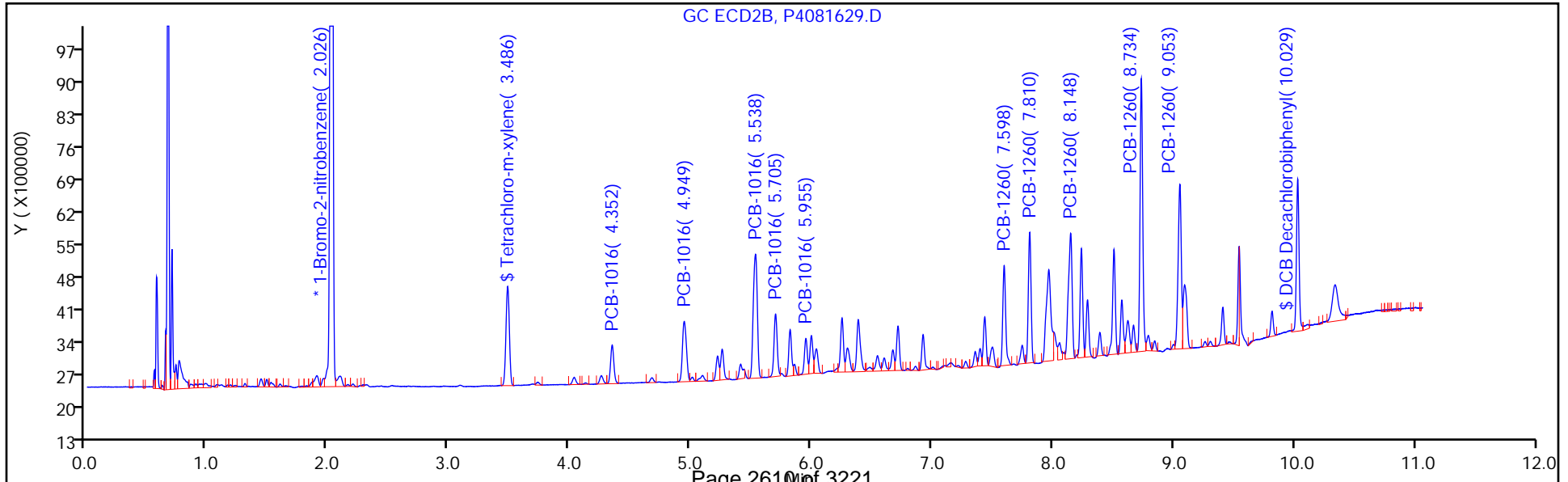
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081630.D
 Lims ID: std02 1660
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 17:56:58 ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-030
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:25 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.748	1.751	-0.003	33073120	0.0500	0.0500	
2	2.018	2.020	-0.002	46148785	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.764	2.765	-0.001	6223373	0.0100	0.0100	
2	3.478	3.480	-0.002	8593585	0.0100	0.0100	

RPD = 0.57

6 PCB-1016

1	3.411	3.412	-0.001	2413528	0.2000	0.2024	
1	3.985	3.984	0.001	4423022	0.2000	0.2002	
1	4.650	4.650	0.000	9422620	0.2000	0.1943	
1	4.825	4.825	0.000	4132365	0.2000	0.1965	
1	5.146	5.146	0.000	1685453	0.2000	0.1987	
Average of Peak Amounts =						0.1984	
2	4.346	4.345	0.001	3099581	0.2000	0.2043	
2	4.943	4.942	0.001	5754074	0.2000	0.2040	
2	5.533	5.535	-0.002	11978765	0.2000	0.1977	
2	5.700	5.700	0.000	5030616	0.2000	0.2044	
2	5.951	5.952	-0.001	2476624	0.2000	0.2013	
Average of Peak Amounts =						0.2024	

RPD = 1.97

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081630.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.713	6.714	-0.001	6153738	0.2000	0.1930	
1	7.003	7.001	0.002	9874886	0.2000	0.1929	
1	7.282	7.280	0.002	11020465	0.2000	0.1910	
1	7.943	7.940	0.003	15294132	0.2000	0.1896	
1	8.203	8.200	0.003	7924517	0.2000	0.1935	

Average of Peak Amounts = 0.1920

2	7.592	7.590	0.002	6850697	0.2000	0.1973	
2	7.804	7.801	0.003	8344049	0.2000	0.1963	
2	8.145	8.142	0.003	11395667	0.2000	0.1973	
2	8.730	8.728	0.002	17255621	0.2000	0.1942	
2	9.049	9.047	0.002	12211278	0.2000	0.1953	

Average of Peak Amounts = 0.1961

RPD = 2.10

\$ 12 DCB Decachlorobiphenyl

1	9.167	9.165	0.002	8170806	0.0100	0.0102	
2	10.025	10.024	0.001	8980791	0.0100	0.0102	

RPD = 0.37

QC Flag Legend

Processing Flags

Reagents:

SG1660@0.2ppm_00037

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081630.D

Injection Date: 16-Aug-2022 17:56:58

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1660

Worklist Smp#: 30

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

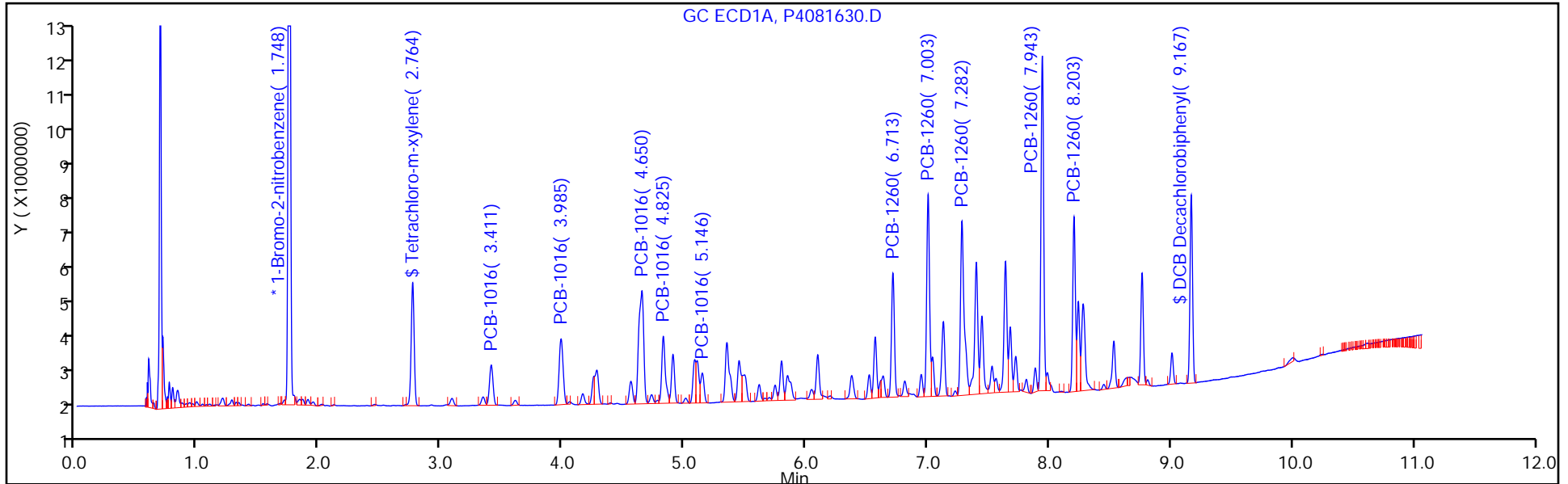
ALS Bottle#: 30

Method: PCB4 is

Limit Group: GC 8082A IS

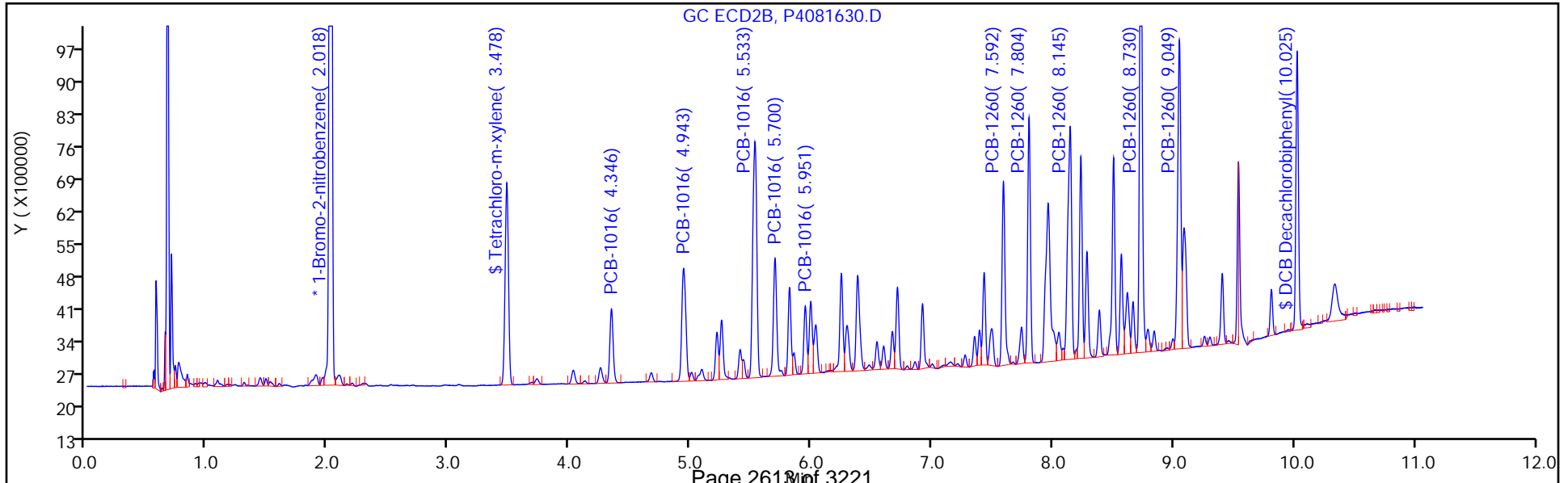
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081631.D
 Lims ID: std05 1660
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 16-Aug-2022 18:14:22 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-031
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:31 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.751	1.751	0.000	35974207	0.0500	0.0500	
2	2.020	2.020	0.000	49897257	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.765	2.765	0.000	16496979	0.0250	0.0246	
2	3.480	3.480	0.000	22644289	0.0250	0.0248	

RPD = 0.74

6 PCB-1016

1	3.412	3.412	0.000	6080232	0.5000	0.4689	
1	3.984	3.984	0.000	11121830	0.5000	0.4627	
1	4.650	4.650	0.000	24607616	0.5000	0.4664	
1	4.825	4.825	0.000	10614654	0.5000	0.4641	
1	5.146	5.146	0.000	4229094	0.5000	0.4583	

Average of Peak Amounts = 0.4641

2	4.345	4.345	0.000	7766342	0.5000	0.4734	
2	4.942	4.942	0.000	14425904	0.5000	0.4729	
2	5.535	5.535	0.000	30917744	0.5000	0.4720	
2	5.700	5.700	0.000	12417370	0.5000	0.4667	
2	5.952	5.952	0.000	6196603	0.5000	0.4659	

Average of Peak Amounts = 0.4702

RPD = 1.31

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081631.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.714	6.714	0.000	15534795	0.5000	0.4480	
1	7.001	7.001	0.000	25402673	0.5000	0.4561	
1	7.280	7.280	0.000	28439308	0.5000	0.4532	
1	7.940	7.940	0.000	41168206	0.5000	0.4691	
1	8.200	8.200	0.000	20565839	0.5000	0.4616	

Average of Peak Amounts = 0.4576

2	7.590	7.590	0.000	17295932	0.5000	0.4606	
2	7.801	7.801	0.000	21043083	0.5000	0.4578	
2	8.142	8.142	0.000	28818578	0.5000	0.4615	
2	8.728	8.728	0.000	44232753	0.5000	0.4603	
2	9.047	9.047	0.000	30798990	0.5000	0.4557	

Average of Peak Amounts = 0.4592

RPD = 0.35

\$ 12 DCB Decachlorobiphenyl

1	9.165	9.165	0.000	20002617	0.0250	0.0238	
2	10.024	10.024	0.000	21611125	0.0250	0.0239	

RPD = 0.27

QC Flag Legend

Processing Flags

Reagents:

SG1660@0.5PPM_00116

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081631.D

Injection Date: 16-Aug-2022 18:14:22

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1660

Worklist Smp#: 31

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

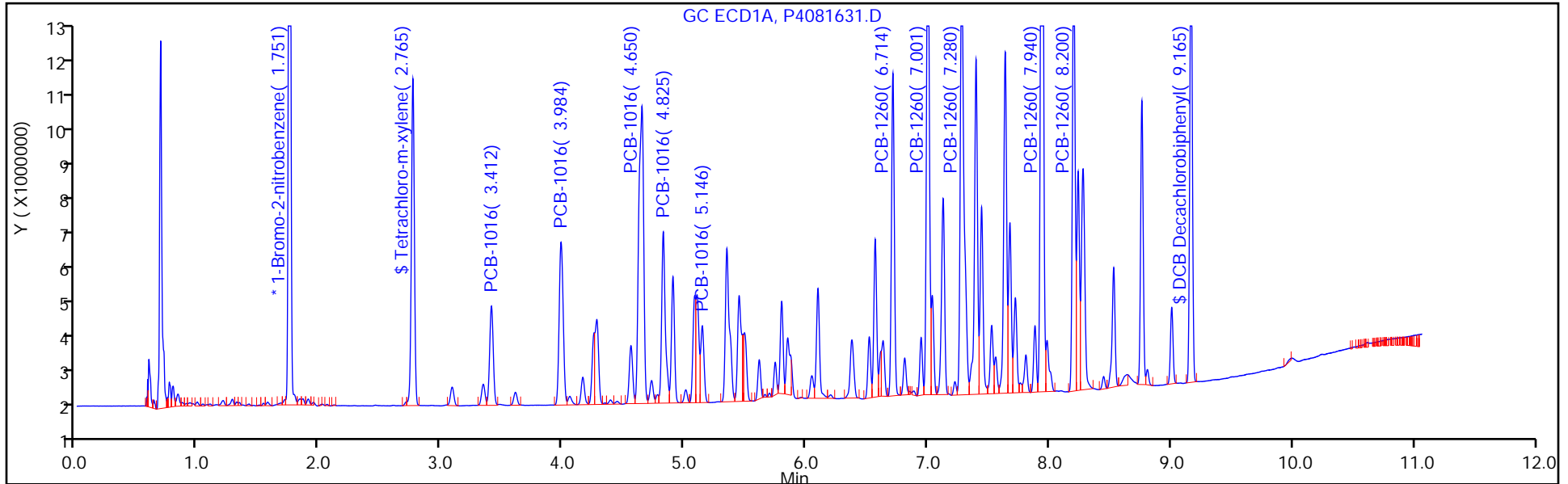
ALS Bottle#: 31

Method: PCB4 is

Limit Group: GC 8082A IS

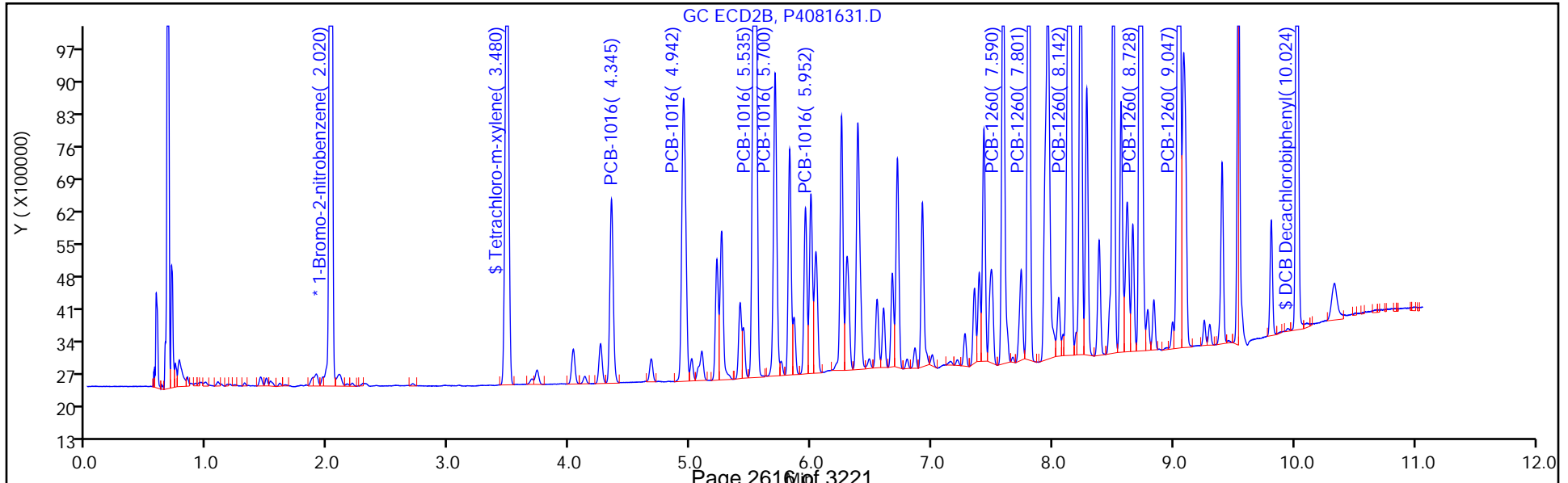
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D
 Lims ID: std1 1660
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 18:31:49 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-032
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:37 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.754	1.751	0.002	34134589	0.0500	0.0500	
2	2.024	2.020	0.003	47994321	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.769	2.765	0.004	31886165	0.0500	0.0504	
2	3.484	3.480	0.004	43664715	0.0500	0.0500	

RPD = 0.80

6 PCB-1016

1	3.416	3.412	0.004	11277199	1.00	0.9165	
1	3.989	3.984	0.005	20817483	1.00	0.9127	
1	4.654	4.650	0.004	48309239	1.00	0.9650	
1	4.830	4.825	0.005	20373696	1.00	0.9388	
1	5.151	5.146	0.005	8028584	1.00	0.9169	

Average of Peak Amounts = 0.9300

2	4.350	4.345	0.005	14547828	1.00	0.9220	
2	4.948	4.942	0.006	27107538	1.00	0.9239	
2	5.541	5.535	0.006	59719459	1.00	0.9479	
2	5.706	5.700	0.006	23844427	1.00	0.9318	
2	5.958	5.952	0.006	11585104	1.00	0.9056	

Average of Peak Amounts = 0.9262

RPD = 0.40

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.719	6.714	0.005	30990492	1.00	0.9419	
1	7.007	7.001	0.006	50939599	1.00	0.9639	
1	7.285	7.280	0.005	56631949	1.00	0.9510	
1	7.945	7.940	0.005	83171627	1.00	1.00	
1	8.205	8.200	0.005	40890247	1.00	0.9672	

Average of Peak Amounts = 0.9646

2	7.596	7.590	0.006	33596179	1.00	0.9302	
2	7.808	7.801	0.007	41339556	1.00	0.9349	
2	8.147	8.142	0.005	55871488	1.00	0.9303	
2	8.730	8.728	0.002	87942324	1.00	0.9514	
2	9.049	9.047	0.002	60403692	1.00	0.9291	

Average of Peak Amounts = 0.9352

RPD = 3.09

\$ 12 DCB Decachlorobiphenyl

1	9.168	9.165	0.003	37172594	0.0500	0.0474	
2	10.024	10.024	0.000	41247211	0.0500	0.0484	

RPD = 2.01

Reagents:

SG1660@1.0PPM_00050

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D

Injection Date: 16-Aug-2022 18:31:49

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1660

Worklist Smp#: 32

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

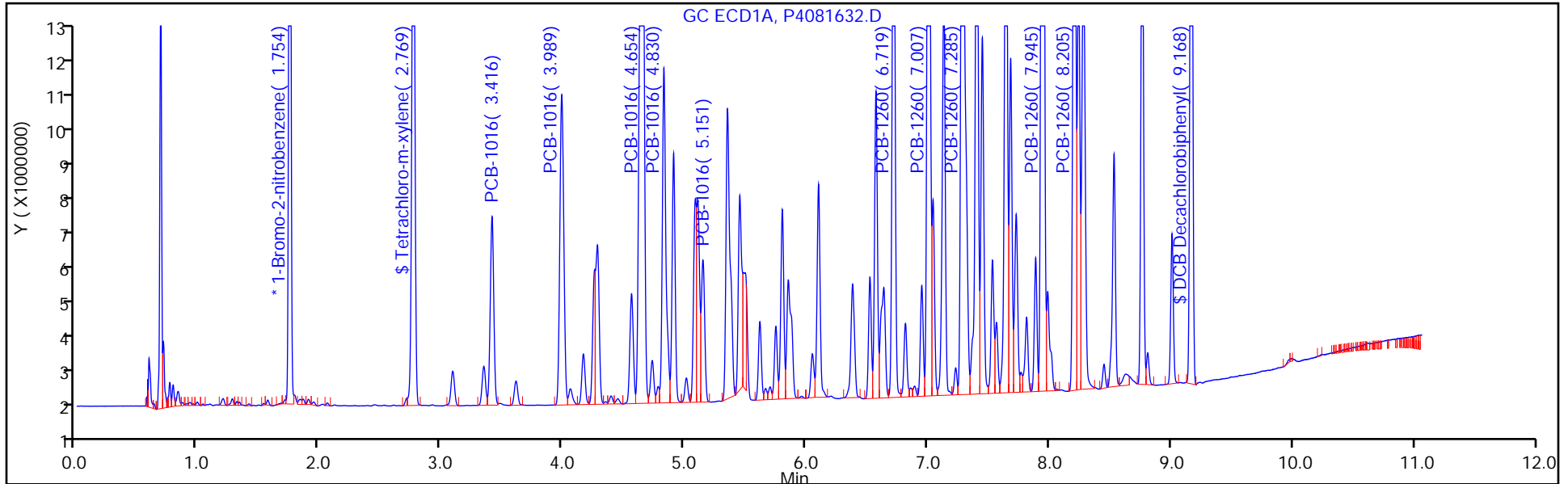
ALS Bottle#: 32

Method: PCB4 is

Limit Group: GC 8082A IS

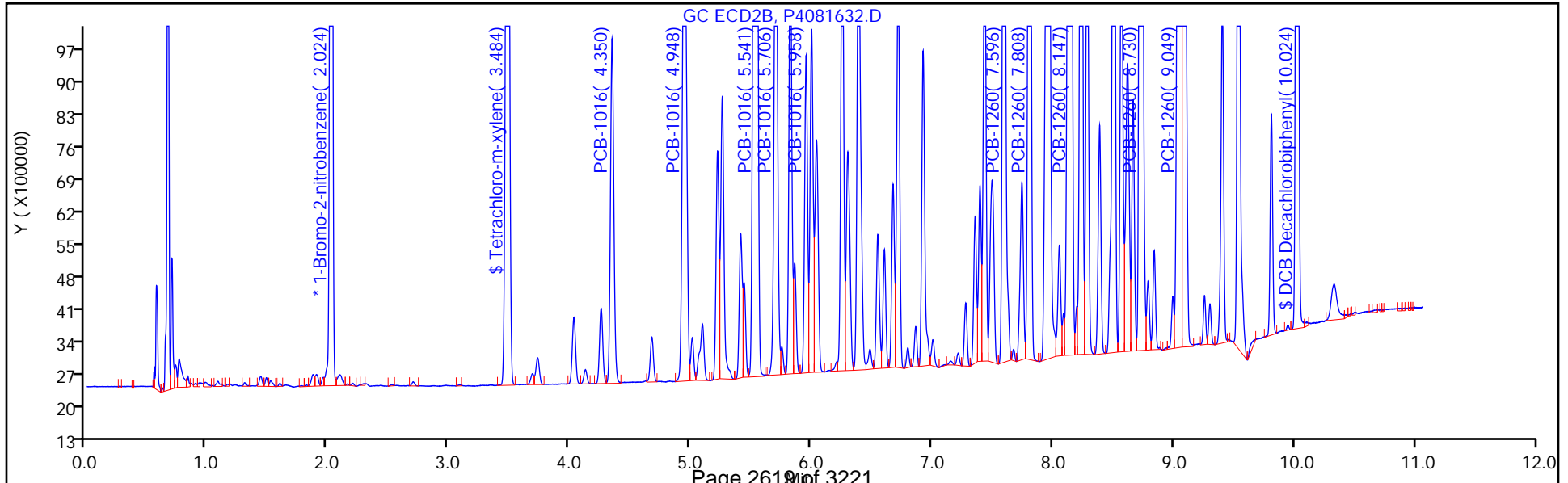
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Lims ID: std15 1660
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 18:49:18 ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-033
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.747	1.751	-0.004	32229494	0.0500	0.0500	
2	2.016	2.020	-0.004	44652039	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.761	2.765	-0.004	47690520	0.0800	0.0800	
2	3.476	3.480	-0.004	65004944	0.0800	0.0801	

RPD = 0.24

6 PCB-1016

1	3.407	3.412	-0.005	15445151	1.50	1.33	
1	3.981	3.984	-0.003	28750576	1.50	1.34	
1	4.646	4.650	-0.004	68328352	1.50	1.45	
1	4.821	4.825	-0.004	28539766	1.50	1.39	
1	5.141	5.146	-0.005	11170750	1.50	1.35	
Average of Peak Amounts =						1.37	
2	4.342	4.345	-0.003	19908628	1.50	1.36	
2	4.937	4.942	-0.005	37342619	1.50	1.37	
2	5.530	5.535	-0.005	84004131	1.50	1.43	
2	5.696	5.700	-0.004	33208030	1.50	1.39	
2	5.947	5.952	-0.005	16107477	1.50	1.35	
Average of Peak Amounts =						1.38	

RPD = 0.75

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710	6.714	-0.004	44415517	1.50	1.43	
1	7.000	7.001	-0.001	73790566	1.50	1.48	
1	7.276	7.280	-0.004	82295293	1.50	1.46	
1	7.938	7.940	-0.002	122801645	1.50	1.56	
1	8.199	8.200	-0.001	60867880	1.50	1.52	

Average of Peak Amounts = 1.49

2	7.587	7.590	-0.003	48187051	1.50	1.43	
2	7.800	7.801	-0.001	59673981	1.50	1.45	
2	8.141	8.142	-0.001	82390294	1.50	1.47	
2	8.725	8.728	-0.003	129119258	1.50	1.50	
2	9.043	9.047	-0.004	88803065	1.50	1.47	

Average of Peak Amounts = 1.47

RPD = 1.76

\$ 12 DCB Decachlorobiphenyl

1	9.162	9.165	-0.003	61218108	0.0800	0.0833	
2	10.019	10.024	-0.005	64665884	0.0800	0.0822	

RPD = 1.31

Reagents:

SG1660@1.5PPM_00018

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Injection Date: 16-Aug-2022 18:49:18

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1660

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

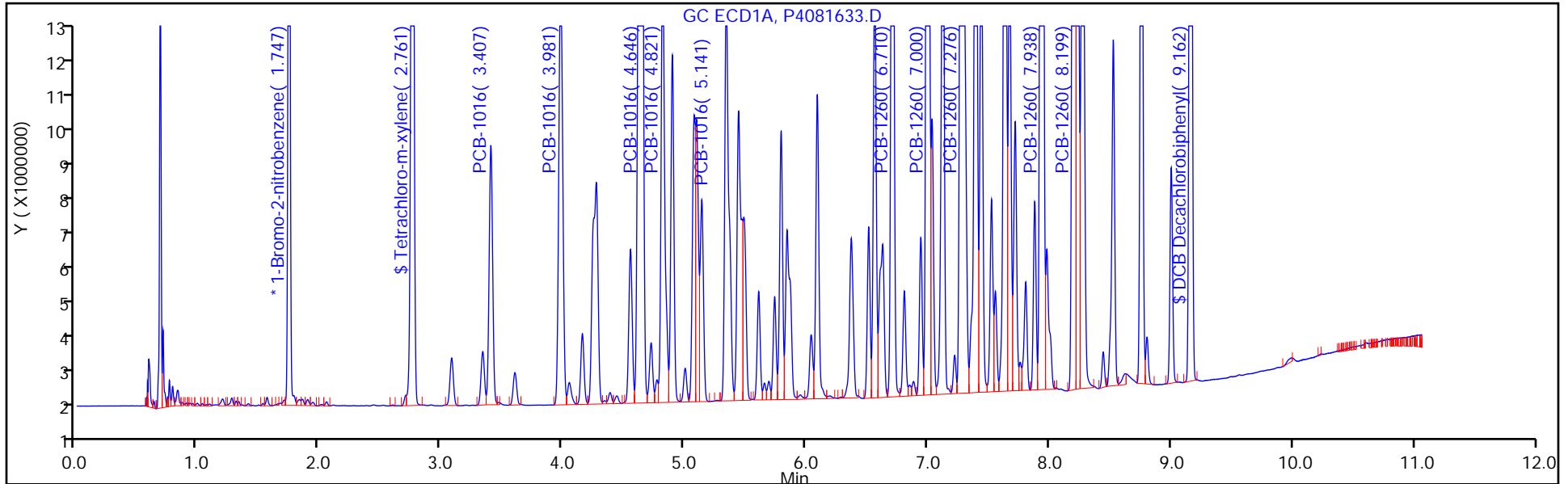
ALS Bottle#: 33

Method: PCB4 is

Limit Group: GC 8082A IS

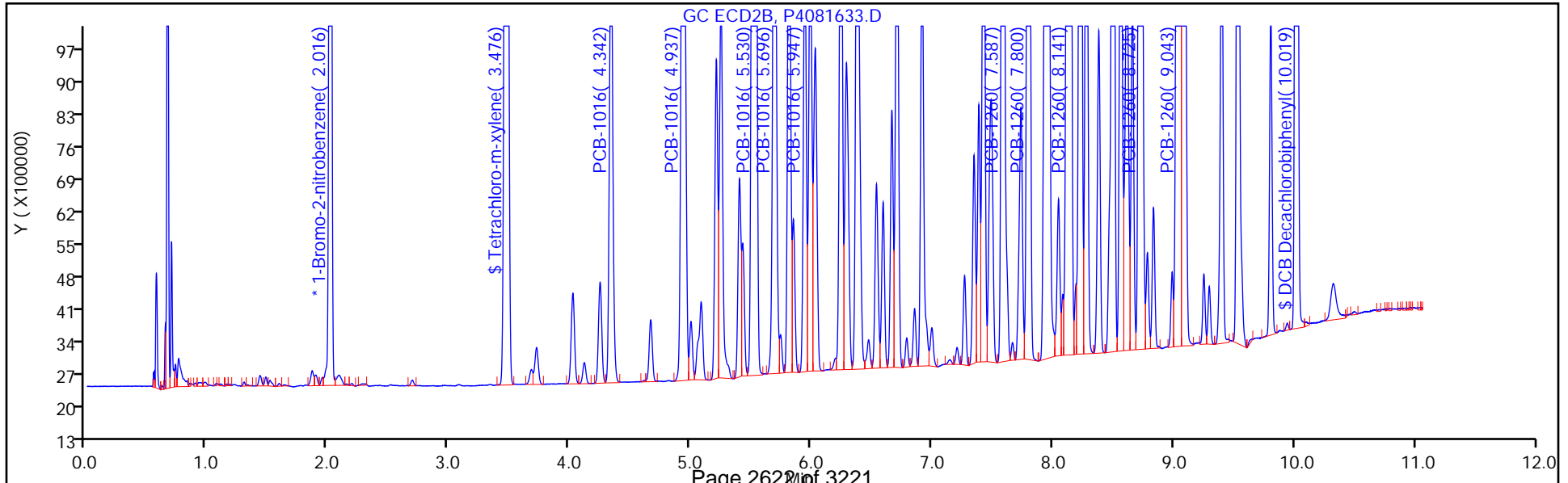
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

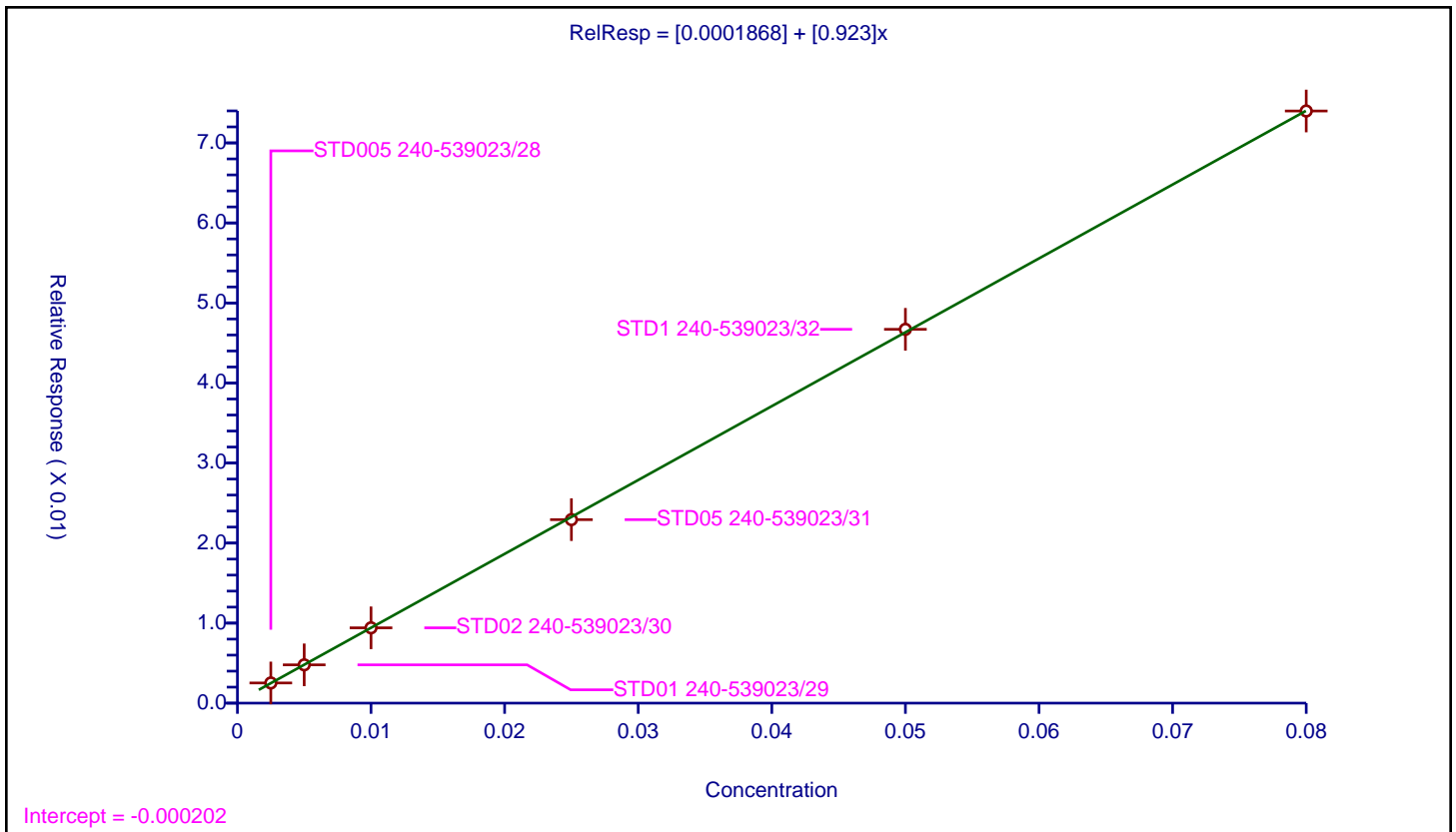
/ Tetrachloro-m-xylene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0001868
Slope:	0.923

Error Coefficients	
Standard Error:	30100000
Relative Standard Error:	1.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.0025	0.002521	0.05	32848591.0	1.008446	Y
2	STD01 240-539023/29	0.005	0.004784	0.05	32020051.0	0.956772	Y
3	STD02 240-539023/30	0.01	0.009409	0.05	33073120.0	0.940851	Y
4	STD05 240-539023/31	0.025	0.022929	0.05	35974207.0	0.917156	Y
5	STD1 240-539023/32	0.05	0.046707	0.05	34134589.0	0.934131	Y
6	STD15 240-539023/33	0.08	0.073986	0.05	32229494.0	0.924823	Y



Calibration

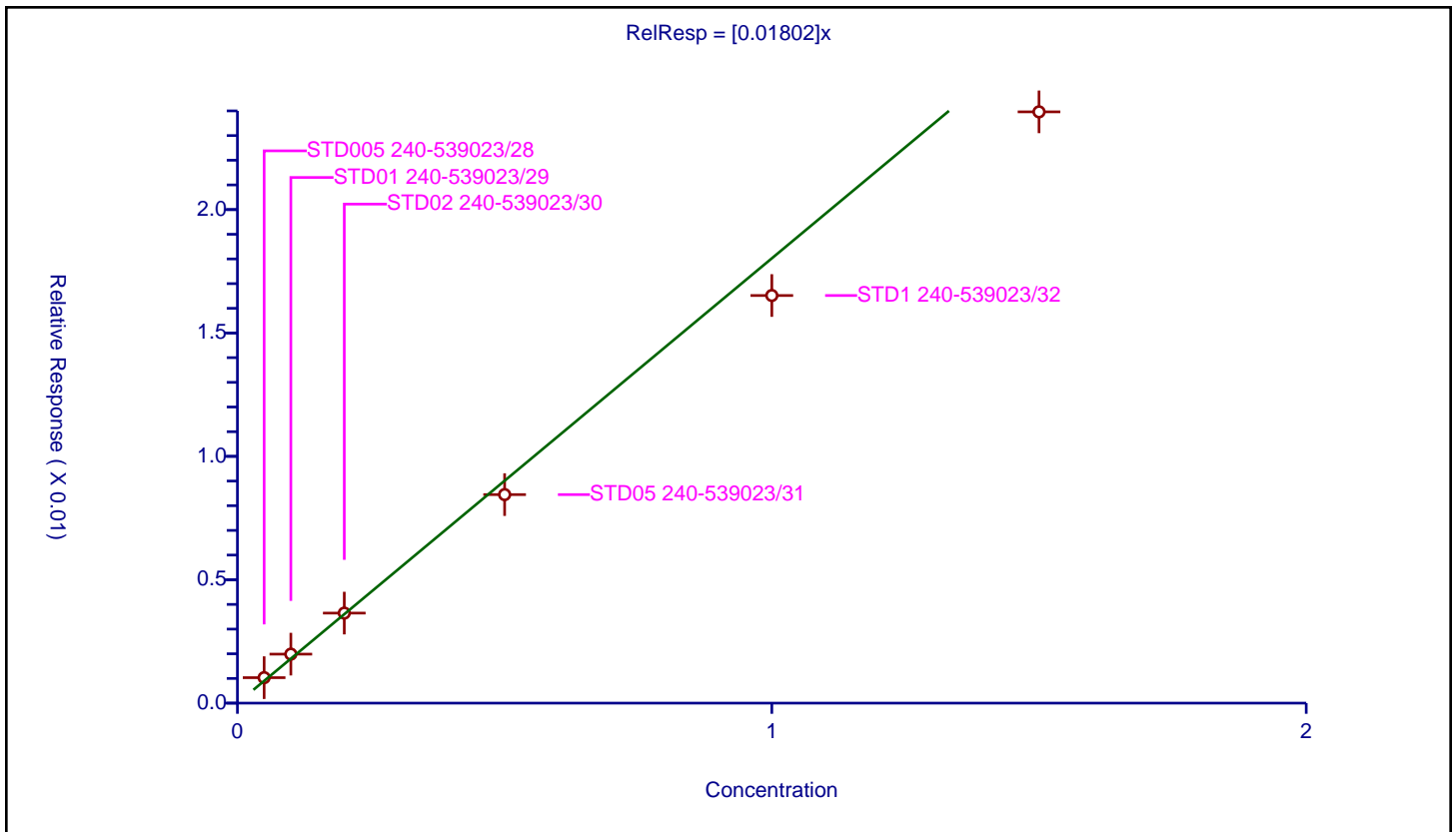
/ PCB-1016 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01802

Error Coefficients	
Standard Error:	9060000
Relative Standard Error:	10.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.001032	0.05	32848591.0	0.020649	Y
2	STD01 240-539023/29	0.1	0.001986	0.05	32020051.0	0.019859	Y
3	STD02 240-539023/30	0.2	0.003649	0.05	33073120.0	0.018244	Y
4	STD05 240-539023/31	0.5	0.008451	0.05	35974207.0	0.016902	Y
5	STD1 240-539023/32	1.0	0.016519	0.05	34134589.0	0.016519	Y
6	STD15 240-539023/33	1.5	0.023961	0.05	32229494.0	0.015974	Y



Calibration

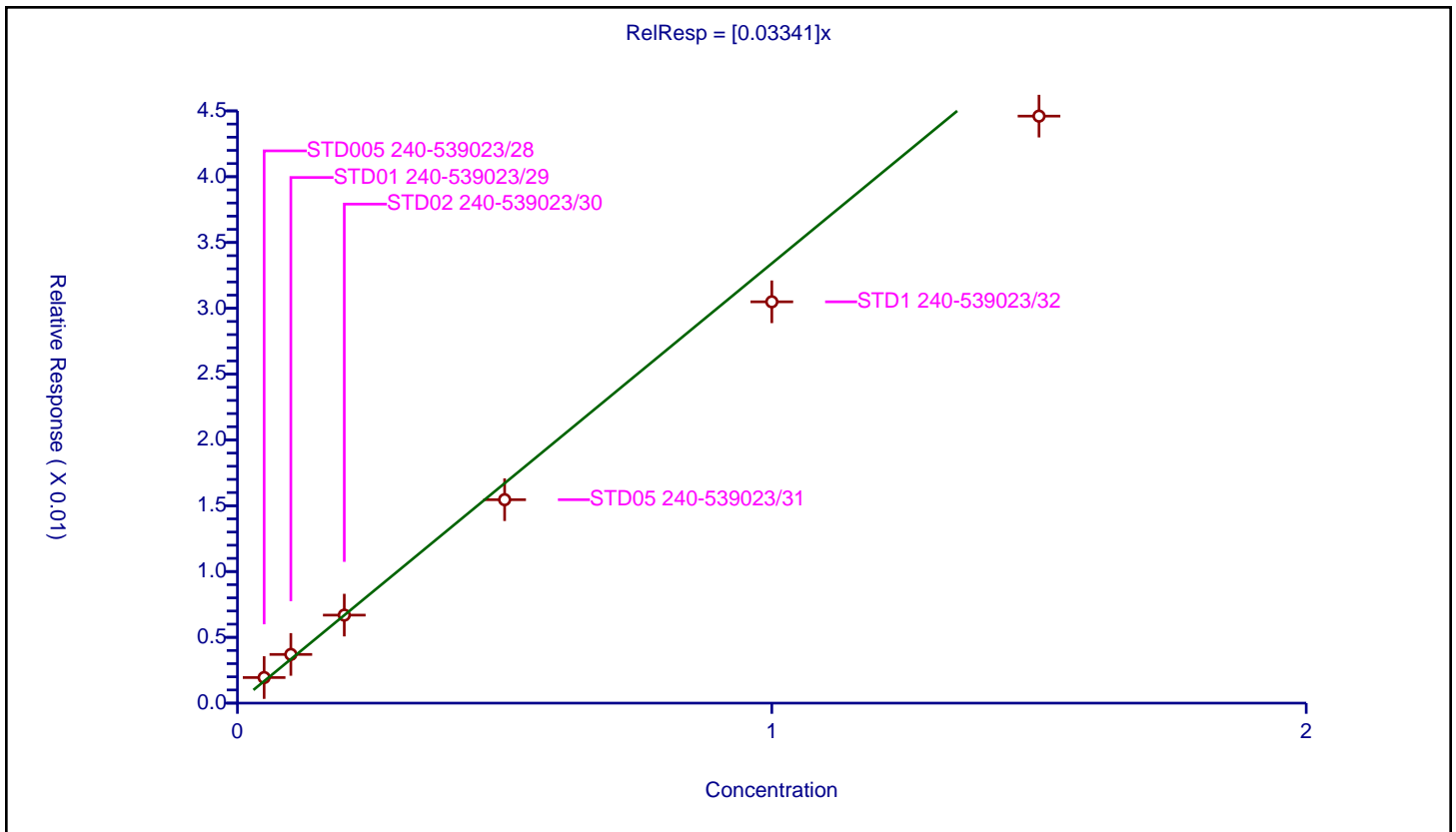
/ PCB-1016 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03341

Error Coefficients	
Standard Error:	16800000
Relative Standard Error:	11.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.001943	0.05	32848591.0	0.03887	Y
2	STD01 240-539023/29	0.1	0.0037	0.05	32020051.0	0.037001	Y
3	STD02 240-539023/30	0.2	0.006687	0.05	33073120.0	0.033434	Y
4	STD05 240-539023/31	0.5	0.015458	0.05	35974207.0	0.030916	Y
5	STD1 240-539023/32	1.0	0.030493	0.05	34134589.0	0.030493	Y
6	STD15 240-539023/33	1.5	0.044603	0.05	32229494.0	0.029735	Y



Calibration

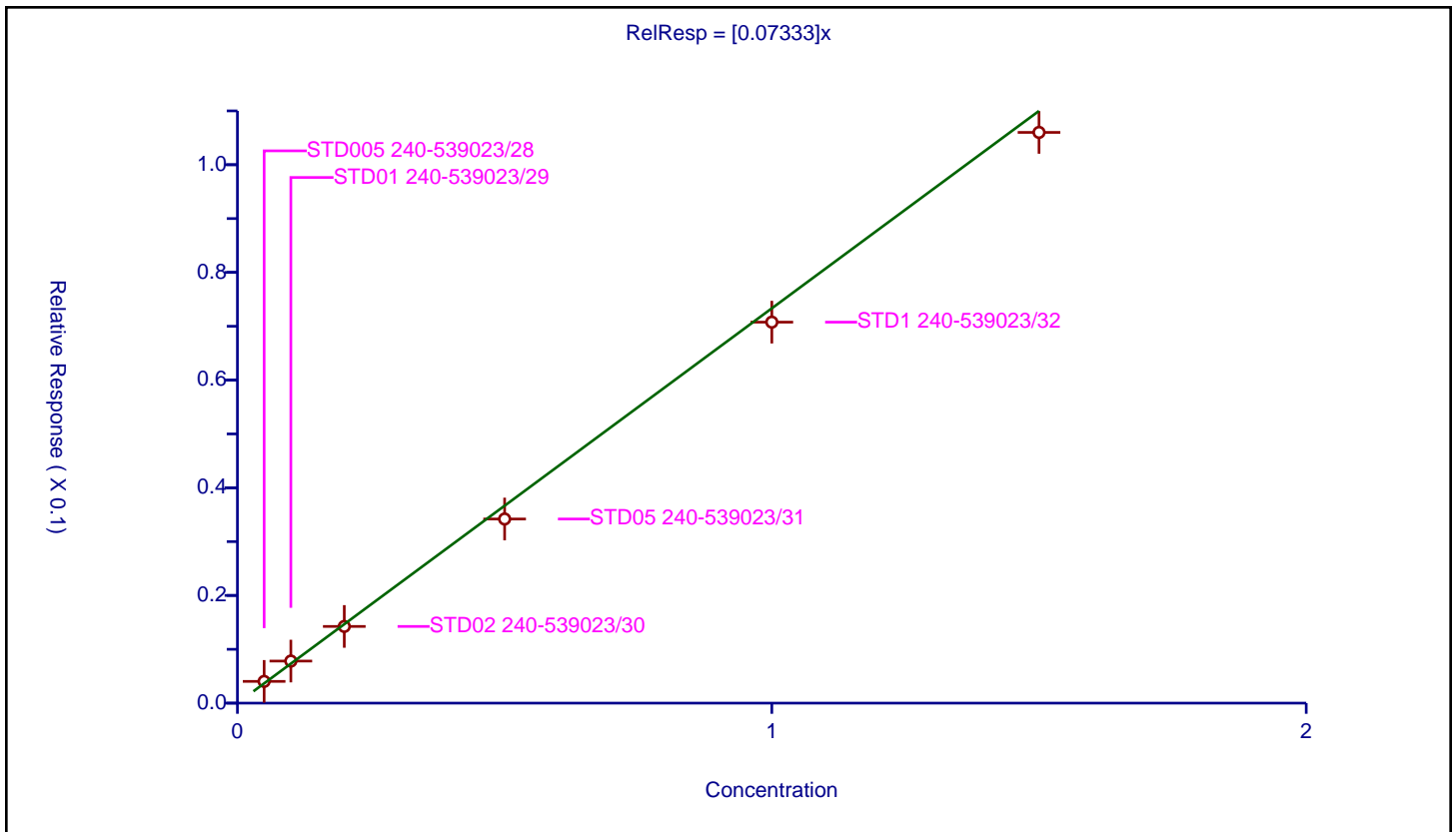
/ PCB-1016 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07333

Error Coefficients	
Standard Error:	39300000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.004039	0.05	32848591.0	0.080778	Y
2	STD01 240-539023/29	0.1	0.007813	0.05	32020051.0	0.078132	Y
3	STD02 240-539023/30	0.2	0.014245	0.05	33073120.0	0.071226	Y
4	STD05 240-539023/31	0.5	0.034202	0.05	35974207.0	0.068403	Y
5	STD1 240-539023/32	1.0	0.070763	0.05	34134589.0	0.070763	Y
6	STD15 240-539023/33	1.5	0.106003	0.05	32229494.0	0.070669	Y



Calibration

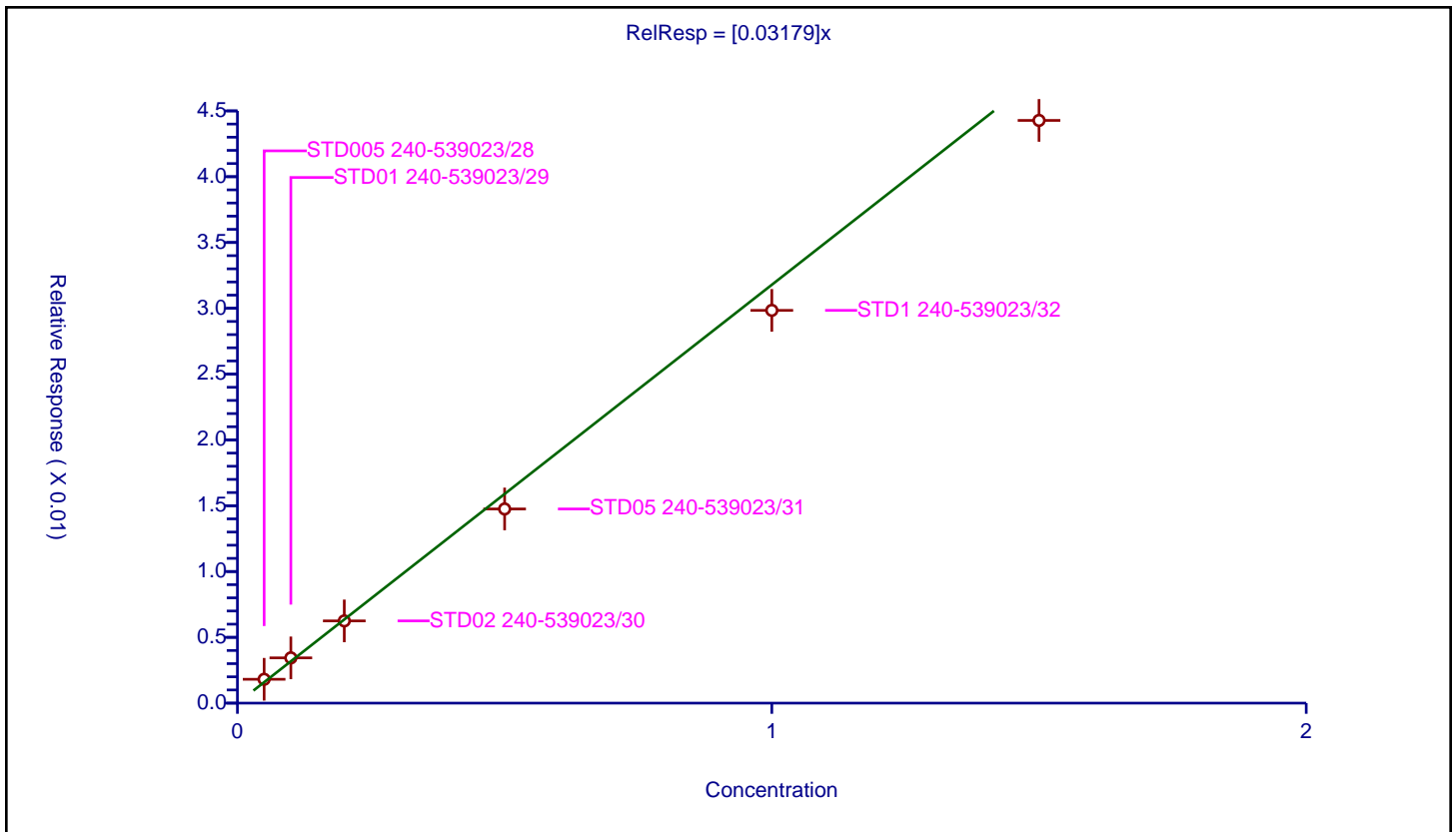
/ PCB-1016 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03179

Error Coefficients	
Standard Error:	16500000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.001812	0.05	32848591.0	0.036233	Y
2	STD01 240-539023/29	0.1	0.003439	0.05	32020051.0	0.034387	Y
3	STD02 240-539023/30	0.2	0.006247	0.05	33073120.0	0.031237	Y
4	STD05 240-539023/31	0.5	0.014753	0.05	35974207.0	0.029506	Y
5	STD1 240-539023/32	1.0	0.029843	0.05	34134589.0	0.029843	Y
6	STD15 240-539023/33	1.5	0.044276	0.05	32229494.0	0.029517	Y



Calibration

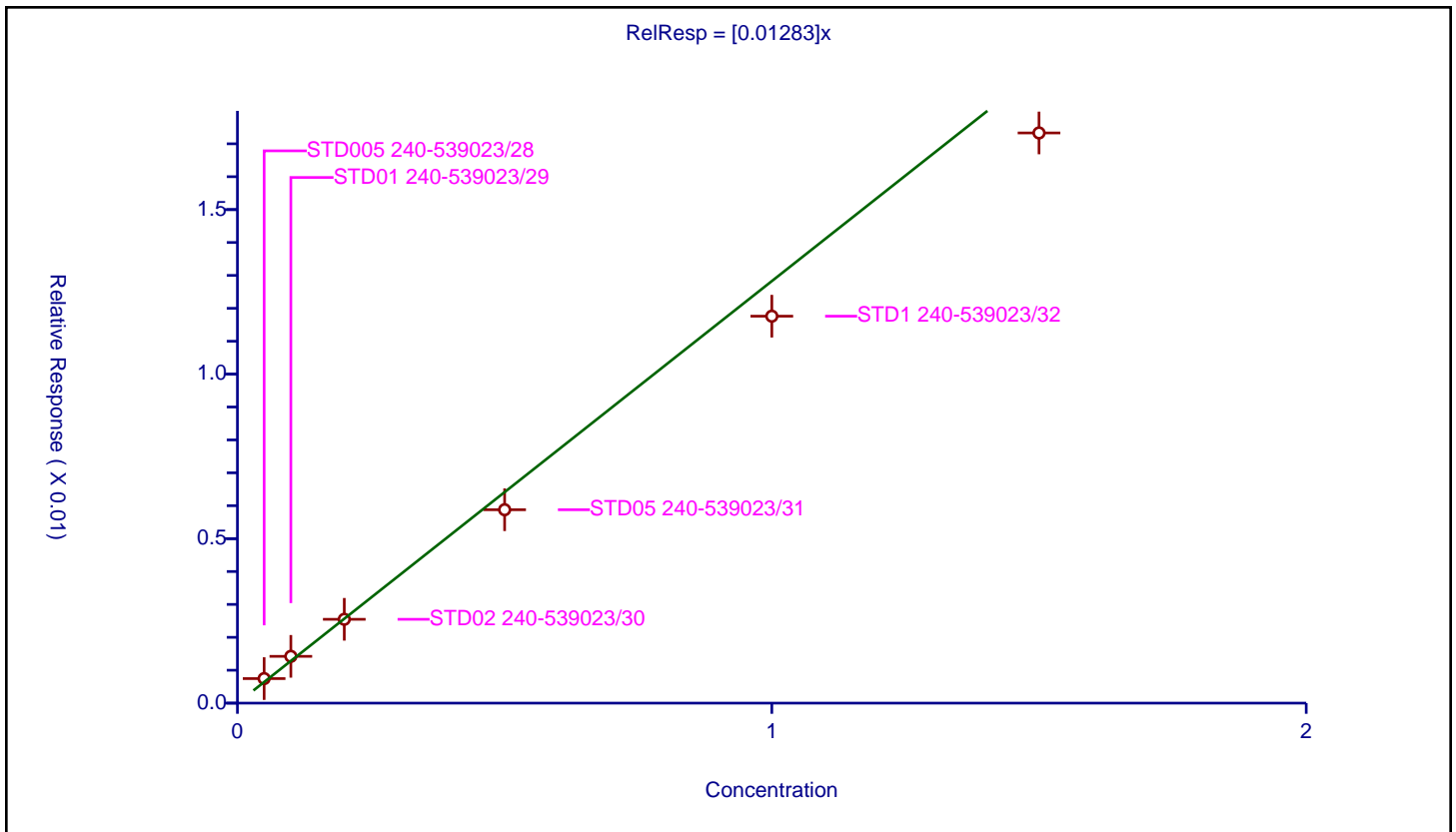
/ PCB-1016 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01283

Error Coefficients	
Standard Error:	6500000
Relative Standard Error:	11.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.000746	0.05	32848591.0	0.014923	Y
2	STD01 240-539023/29	0.1	0.001422	0.05	32020051.0	0.014222	Y
3	STD02 240-539023/30	0.2	0.002548	0.05	33073120.0	0.01274	Y
4	STD05 240-539023/31	0.5	0.005878	0.05	35974207.0	0.011756	Y
5	STD1 240-539023/32	1.0	0.01176	0.05	34134589.0	0.01176	Y
6	STD15 240-539023/33	1.5	0.01733	0.05	32229494.0	0.011553	Y



Calibration

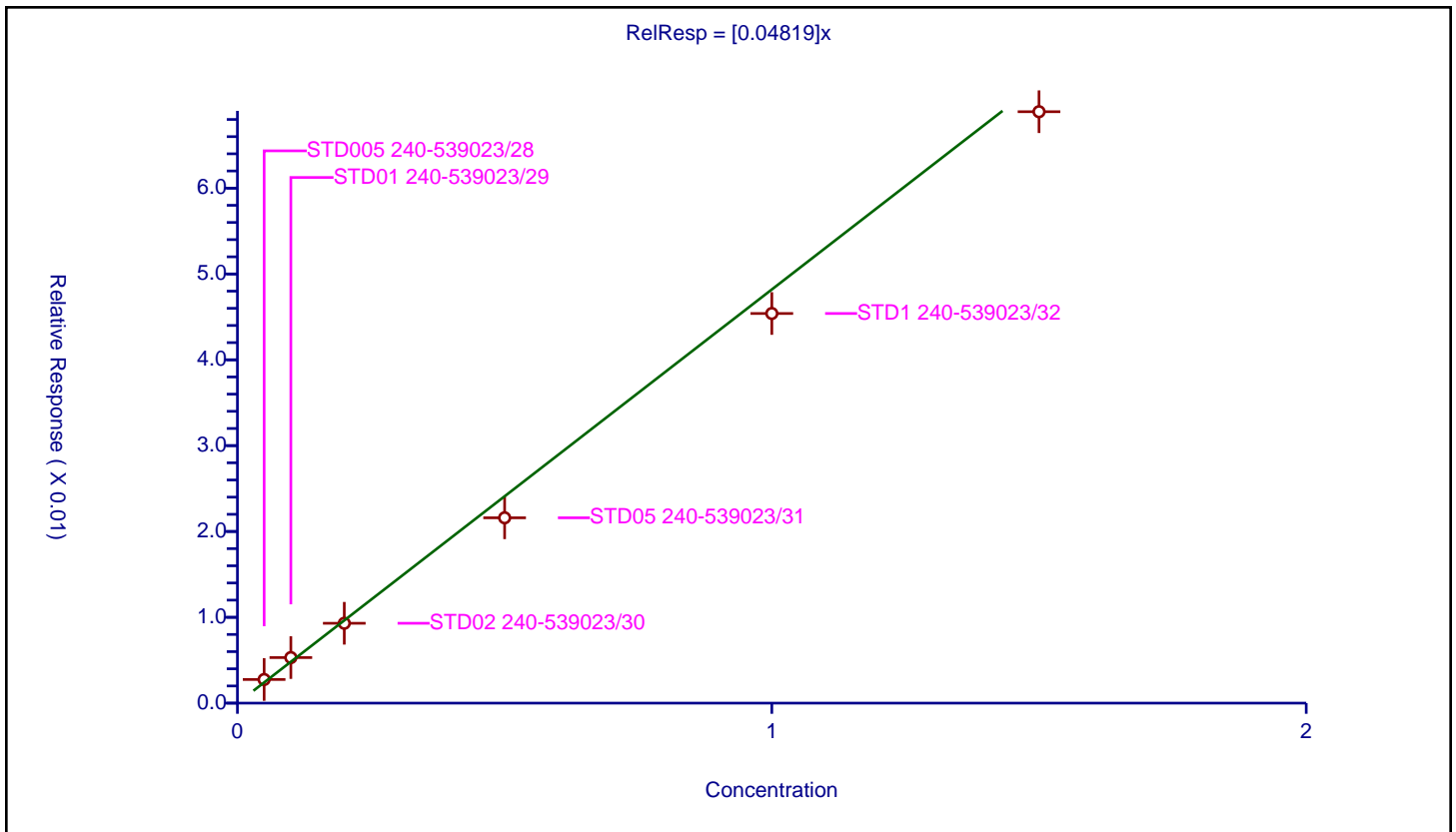
/ PCB-1260 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04819

Error Coefficients	
Standard Error:	25400000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.002753	0.05	32848591.0	0.055066	Y
2	STD01 240-539023/29	0.1	0.005306	0.05	32020051.0	0.053062	Y
3	STD02 240-539023/30	0.2	0.009303	0.05	33073120.0	0.046516	Y
4	STD05 240-539023/31	0.5	0.021592	0.05	35974207.0	0.043183	Y
5	STD1 240-539023/32	1.0	0.045395	0.05	34134589.0	0.045395	Y
6	STD15 240-539023/33	1.5	0.068905	0.05	32229494.0	0.045937	Y



Calibration

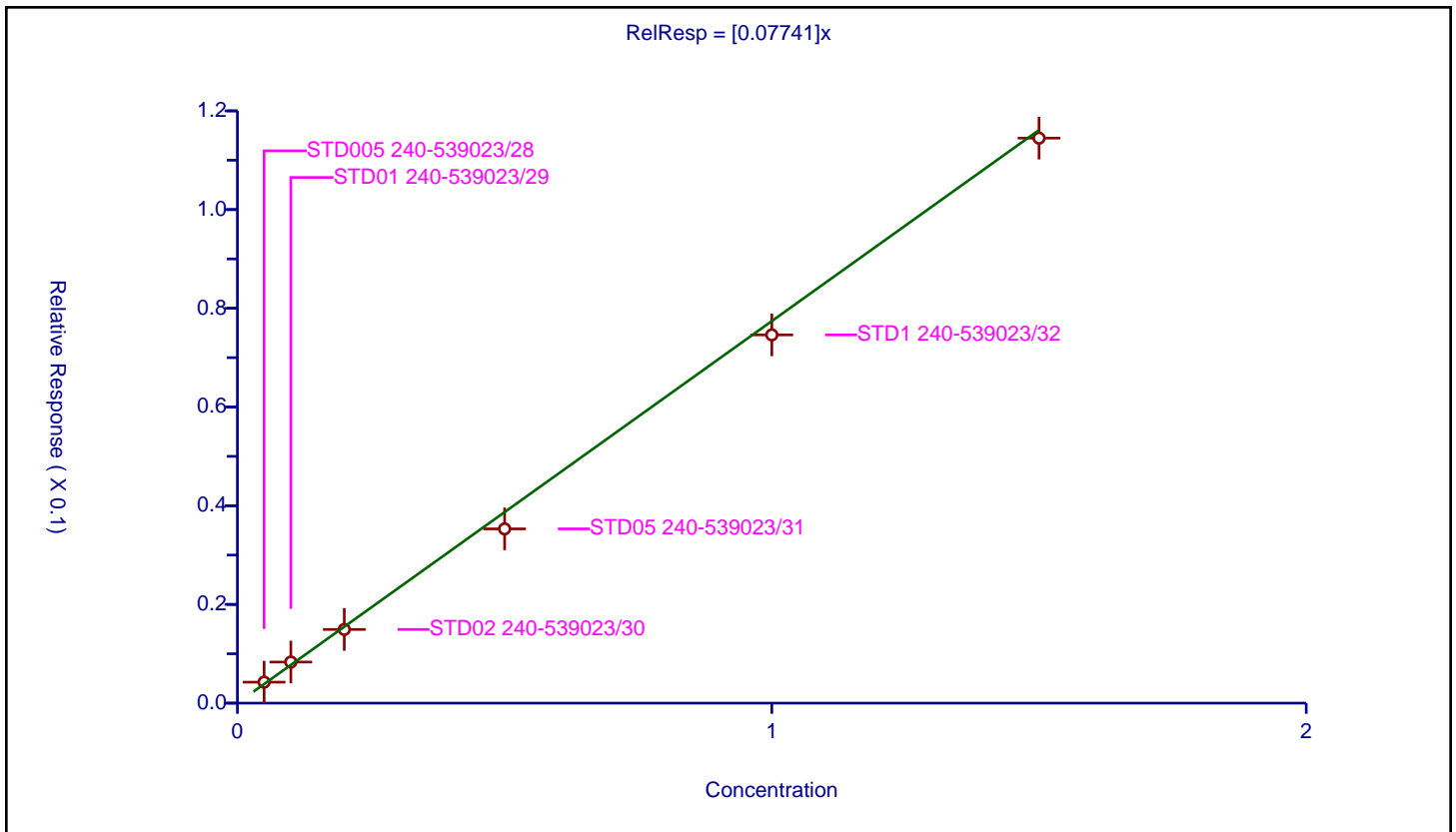
/ PCB-1260 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07741

Error Coefficients	
Standard Error:	42000000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.004252	0.05	32848591.0	0.085046	Y
2	STD01 240-539023/29	0.1	0.008322	0.05	32020051.0	0.083224	Y
3	STD02 240-539023/30	0.2	0.014929	0.05	33073120.0	0.074644	Y
4	STD05 240-539023/31	0.5	0.035307	0.05	35974207.0	0.070614	Y
5	STD1 240-539023/32	1.0	0.074616	0.05	34134589.0	0.074616	Y
6	STD15 240-539023/33	1.5	0.114477	0.05	32229494.0	0.076318	Y



Calibration

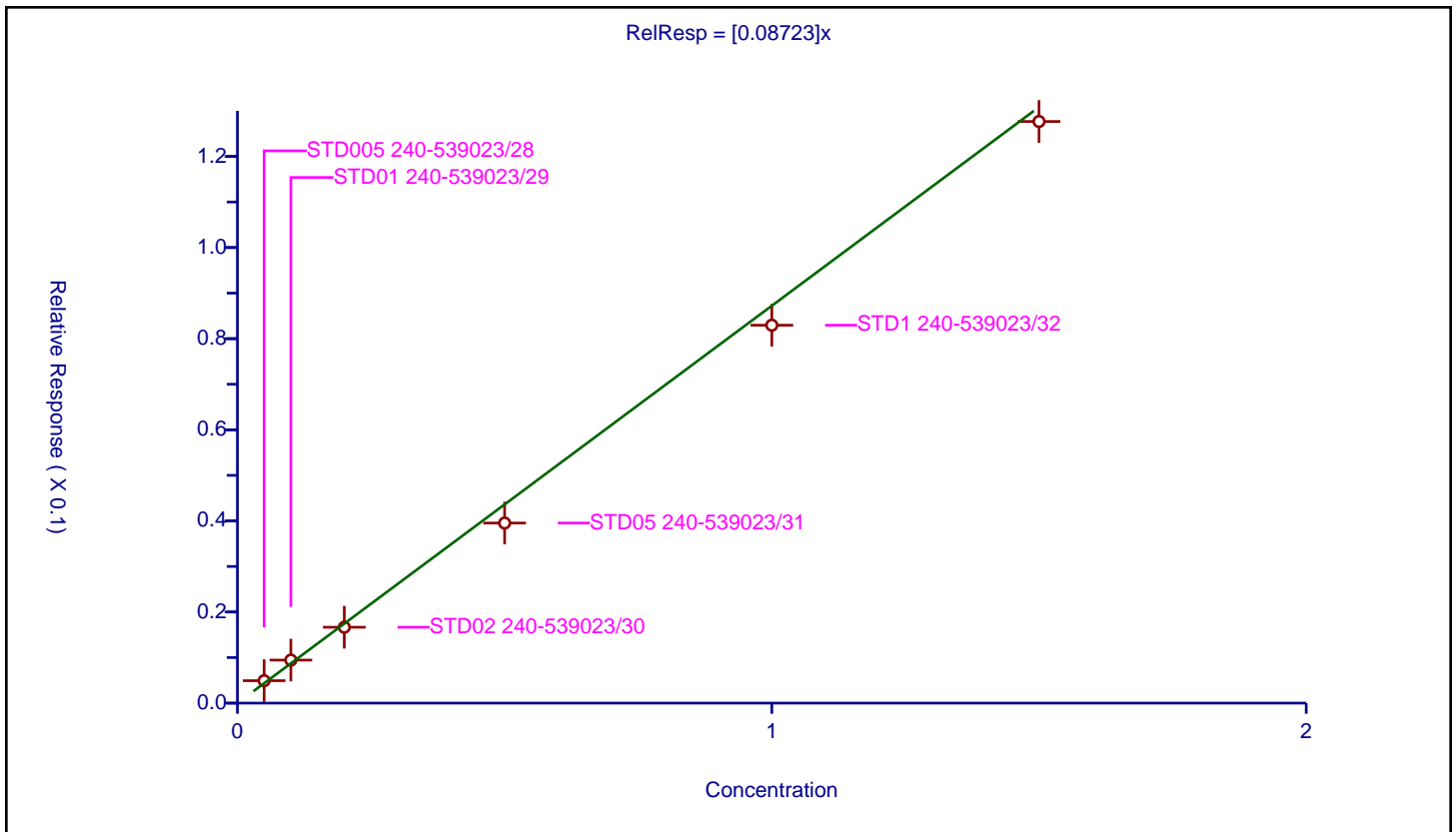
/ PCB-1260 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08723

Error Coefficients	
Standard Error:	46800000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.004924	0.05	32848591.0	0.098479	Y
2	STD01 240-539023/29	0.1	0.009445	0.05	32020051.0	0.094454	Y
3	STD02 240-539023/30	0.2	0.016661	0.05	33073120.0	0.083304	Y
4	STD05 240-539023/31	0.5	0.039527	0.05	35974207.0	0.079055	Y
5	STD1 240-539023/32	1.0	0.082954	0.05	34134589.0	0.082954	Y
6	STD15 240-539023/33	1.5	0.127671	0.05	32229494.0	0.085114	Y



Calibration

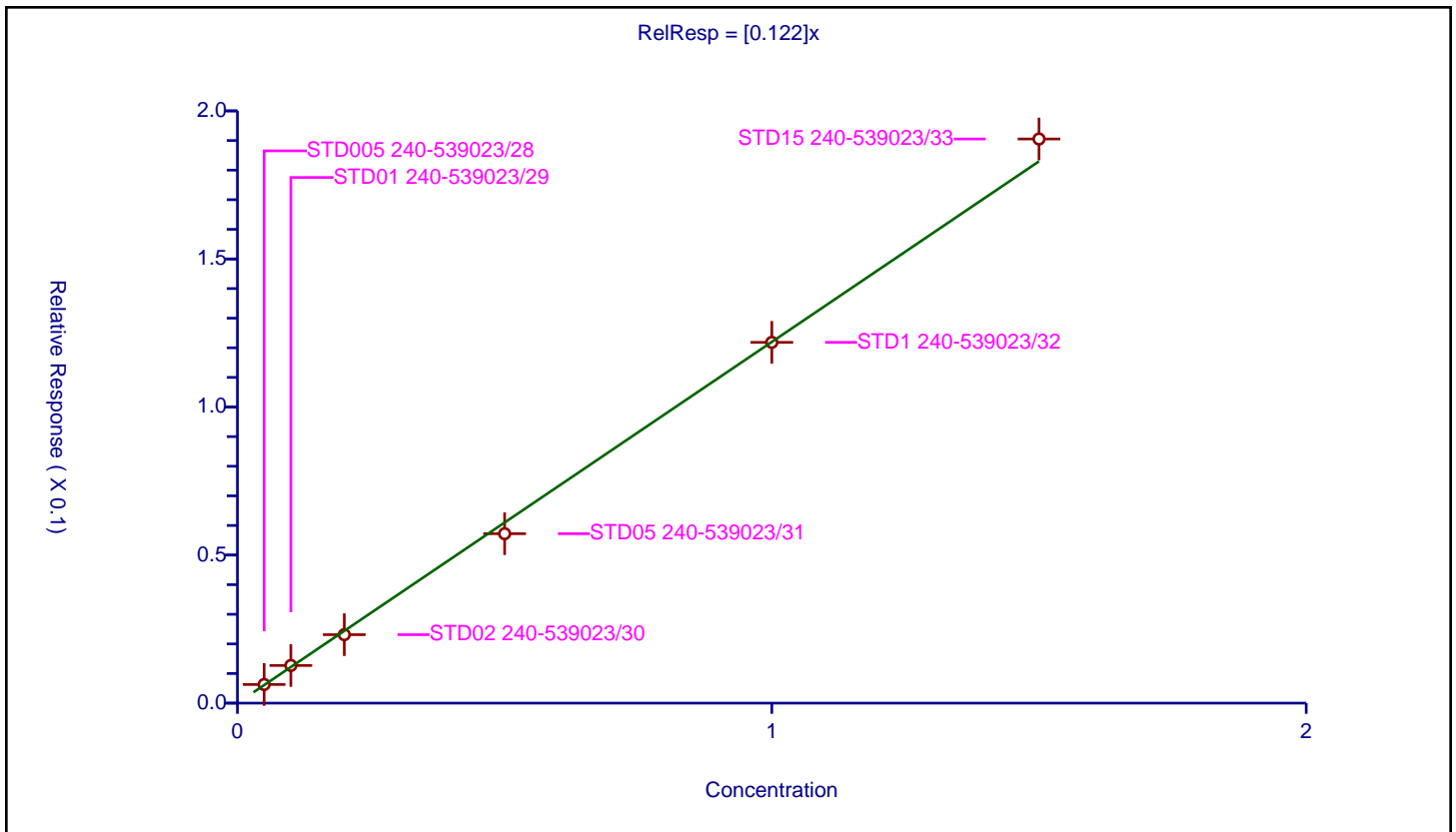
/ PCB-1260 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.122

Error Coefficients	
Standard Error:	69300000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.006291	0.05	32848591.0	0.125814	Y
2	STD01 240-539023/29	0.1	0.012717	0.05	32020051.0	0.127169	Y
3	STD02 240-539023/30	0.2	0.023122	0.05	33073120.0	0.115608	Y
4	STD05 240-539023/31	0.5	0.057219	0.05	35974207.0	0.114438	Y
5	STD1 240-539023/32	1.0	0.121829	0.05	34134589.0	0.121829	Y
6	STD15 240-539023/33	1.5	0.190511	0.05	32229494.0	0.127008	Y



Calibration

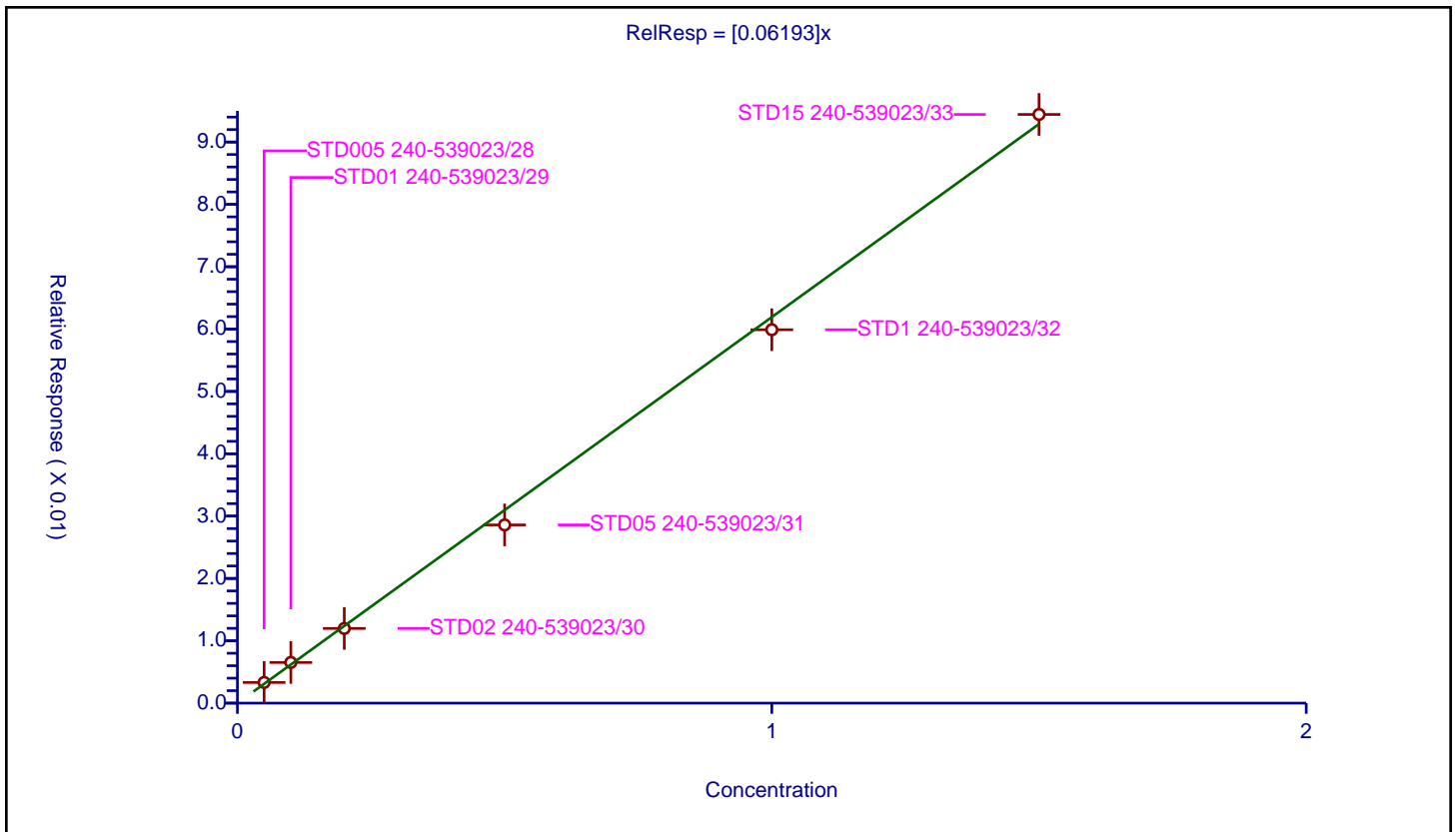
/ PCB-1260 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06193

Error Coefficients	
Standard Error:	34300000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.003318	0.05	32848591.0	0.066353	Y
2	STD01 240-539023/29	0.1	0.006528	0.05	32020051.0	0.06528	Y
3	STD02 240-539023/30	0.2	0.01198	0.05	33073120.0	0.059901	Y
4	STD05 240-539023/31	0.5	0.028584	0.05	35974207.0	0.057168	Y
5	STD1 240-539023/32	1.0	0.059896	0.05	34134589.0	0.059896	Y
6	STD15 240-539023/33	1.5	0.094429	0.05	32229494.0	0.062953	Y



Calibration

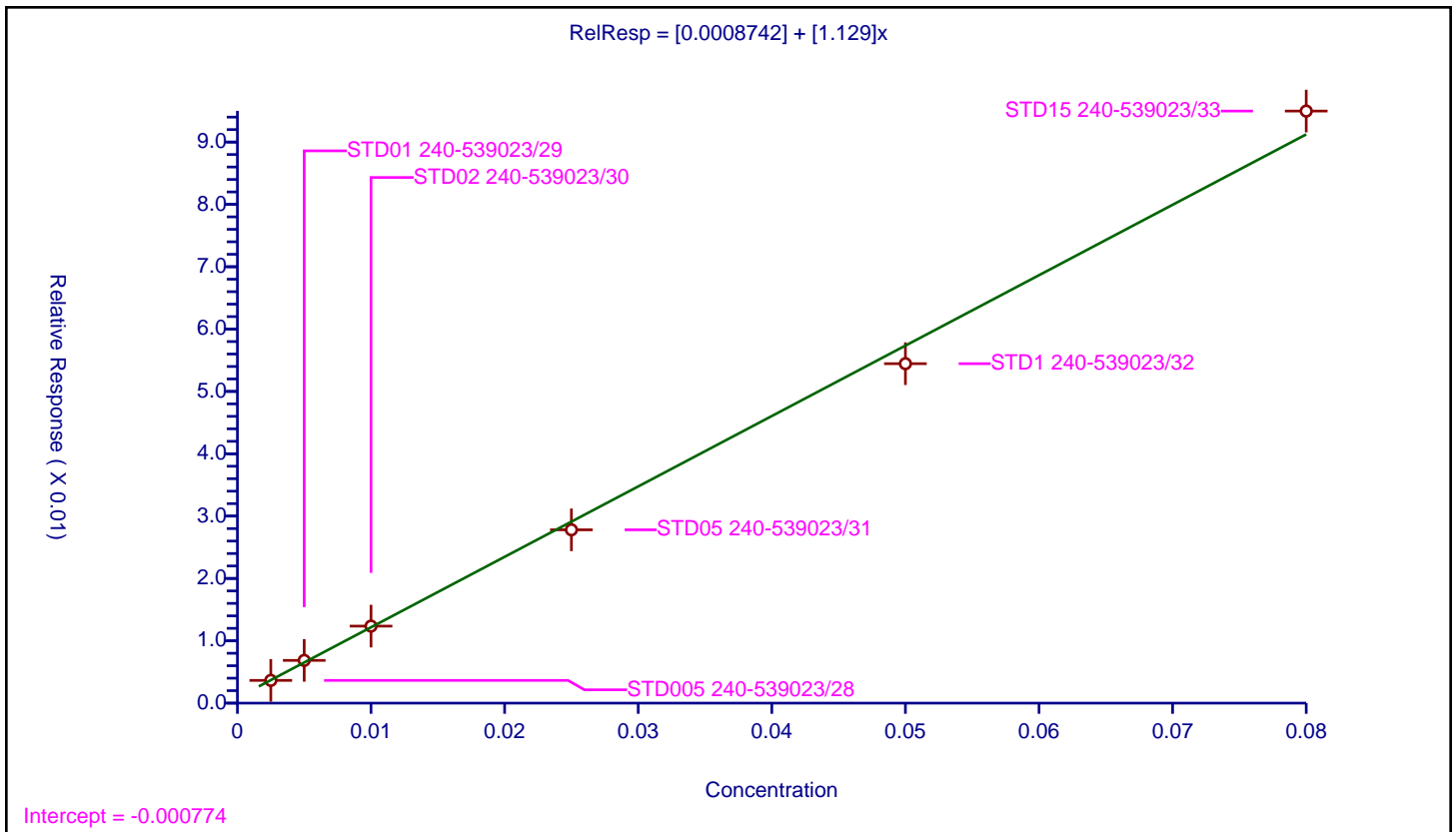
/ DCB Decachlorobiphenyl

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0008742
Slope:	1.129

Error Coefficients	
Standard Error:	37500000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.0025	0.003644	0.05	32848591.0	1.457739	Y
2	STD01 240-539023/29	0.005	0.006854	0.05	32020051.0	1.370769	Y
3	STD02 240-539023/30	0.01	0.012353	0.05	33073120.0	1.235264	Y
4	STD05 240-539023/31	0.025	0.027801	0.05	35974207.0	1.112053	Y
5	STD1 240-539023/32	0.05	0.05445	0.05	34134589.0	1.089001	Y
6	STD15 240-539023/33	0.08	0.094972	0.05	32229494.0	1.187152	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:21 Calibration End Date: 08/16/2022 18:49 Calibration ID: 67261

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/28	P4081628.D
Level 2	STD01 240-539023/29	P4081629.D
Level 3	STD02 240-539023/30	P4081630.D
Level 4	STD05 240-539023/31	P4081631.D
Level 5	STD1 240-539023/32	P4081632.D
Level 6	STD15 240-539023/33	P4081633.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0186 0.0149	0.0177	0.0168	0.0156	0.0152	Ave		0.016 4			9.1		20.0				
PCB-1016 Peak 2	0.0336 0.0279	0.0336	0.0312	0.0289	0.0282	Ave		0.030 6			8.5		20.0				
PCB-1016 Peak 3	0.0723 0.0627	0.0698	0.0649	0.0620	0.0622	Ave		0.065 6			6.7		20.0				
PCB-1016 Peak 4	0.0303 0.0248	0.0278	0.0273	0.0249	0.0248	Ave		0.026 7			8.4		20.0				
PCB-1016 Peak 5	0.0154 0.0120	0.0147	0.0134	0.0124	0.0121	Ave		0.013 3		10.6			20.0				
PCB-1260 Peak 1	0.0429 0.0360	0.0401	0.0371	0.0347	0.0350	Ave		0.037 6			8.6		20.0				
PCB-1260 Peak 2	0.0519 0.0445	0.0494	0.0452	0.0422	0.0431	Ave		0.046 1			8.3		20.0				
PCB-1260 Peak 3	0.0706 0.0615	0.0656	0.0617	0.0578	0.0582	Ave		0.062 6			7.8		20.0				
PCB-1260 Peak 4	0.1058 0.0964	0.1019	0.0935	0.0886	0.0916	Ave		0.096 3			6.7		20.0				
PCB-1260 Peak 5	0.0761 0.0663	0.0732	0.0662	0.0617	0.0629	Ave		0.067 7			8.4		20.0				
Tetrachloro-m-xylene	0.9972 0.9099	0.9411	0.9311	0.9076	0.9098	Lin1	0.000 2	0.905 6						1.0000		0.9900	
DCB Decachlorobiphenyl	1.1679 0.9051	1.1086	0.9730	0.8662	0.8594	Lin1	0.000 9	0.870 2						0.9980		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 500-221506-1 Analy Batch No.: 539023

SDG No.: _____

Instrument ID: A2HP4 GC Column: CLP-2 (0.53 ID: 0.53 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:21 Calibration End Date: 08/16/2022 18:49 Calibration ID: 67261

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-539023/28	P4081628.D
Level 2	STD01 240-539023/29	P4081629.D
Level 3	STD02 240-539023/30	P4081630.D
Level 4	STD05 240-539023/31	P4081631.D
Level 5	STD1 240-539023/32	P4081632.D
Level 6	STD15 240-539023/33	P4081633.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	850523 19908628	1582271	3099581	7766342	14547828	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	1537820 37342619	3008837	5754074	14425904	27107538	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	3305119 84004131	6254071	11978765	30917744	59719459	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	1388193 33208030	2494535	5030616	12417370	23844427	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	703220 16107477	1313437	2476624	6196603	11585104	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Ave	1964195 48187051	3591747	6850697	17295932	33596179	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Ave	2376212 59673981	4430969	8344049	21043083	41339556	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Ave	3229741 82390294	5879116	11395667	28818578	55871488	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Ave	4837595 129119258	9128428	17255621	44232753	87942324	0.0500 1.50	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	3480417 88803065	6557693	12211278	30798990	60403692	0.0500 1.50	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Lin1	2280600 65004944	4216612	8593585	22644289	43664715	0.00250 0.0800	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	BNB	Lin1	2671151 64665884	4967299	8980791	21611125	41247211	0.00250 0.0800	0.00500	0.0100	0.0250	0.0500

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D
 Lims ID: std005 1660
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Aug-2022 17:21:53 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-028
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:13 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:02:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.752	1.751	0.001	32848591	0.0500	0.0500	
2	2.022	2.020	0.002	45741383	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.768	2.765	0.003	1656301	0.002500	0.002529	
2	3.484	3.480	0.004	2280600	0.002500	0.002520	

RPD = 0.38

6 PCB-1016

1	3.414	3.412	0.002	678294	0.0500	0.0573	
1	3.991	3.984	0.007	1276816	0.0500	0.0582	
1	4.654	4.650	0.004	2653432	0.0500	0.0551	
1	4.830	4.825	0.005	1190191	0.0500	0.0570	
1	5.148	5.146	0.002	490205	0.0500	0.0582	
Average of Peak Amounts =						0.0571	
2	4.351	4.345	0.006	850523	0.0500	0.0566	
2	4.946	4.942	0.004	1537820	0.0500	0.0550	
2	5.538	5.535	0.003	3305119	0.0500	0.0550	
2	5.702	5.700	0.002	1388193	0.0500	0.0569	
2	5.954	5.952	0.002	703220	0.0500	0.0577	
Average of Peak Amounts =						0.0562	

RPD = 1.59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

10 PCB-1260							M
1	6.717	6.714	0.003	1808855	0.0500	0.0571	
1	7.005	7.001	0.004	2793655	0.0500	0.0549	
1	7.284	7.280	0.004	3234897	0.0500	0.0565	
1	7.949	7.940	0.009	4132807	0.0500	0.0516	
1	8.209	8.200	0.009	2179605	0.0500	0.0536	
Average of Peak Amounts =						0.0547	
2	7.598	7.590	0.008	1964195	0.0500	0.0571	
2	7.809	7.801	0.008	2376212	0.0500	0.0564	
2	8.150	8.142	0.008	3229741	0.0500	0.0564	M
2	8.736	8.728	0.008	4837595	0.0500	0.0549	
2	9.054	9.047	0.007	3480417	0.0500	0.0562	
Average of Peak Amounts =						0.0562	
							RPD = 2.63

\$ 12 DCB Decachlorobiphenyl							
1	9.173	9.165	0.008	2394234	0.002500	0.002453	
2	10.028	10.024	0.004	2671151	0.002500	0.002375	
							RPD = 3.22

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1660@.05PPM_00047

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D

Injection Date: 16-Aug-2022 17:21:53

Instrument ID: A2HP4

Operator ID:

Lims ID: std005 1660

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

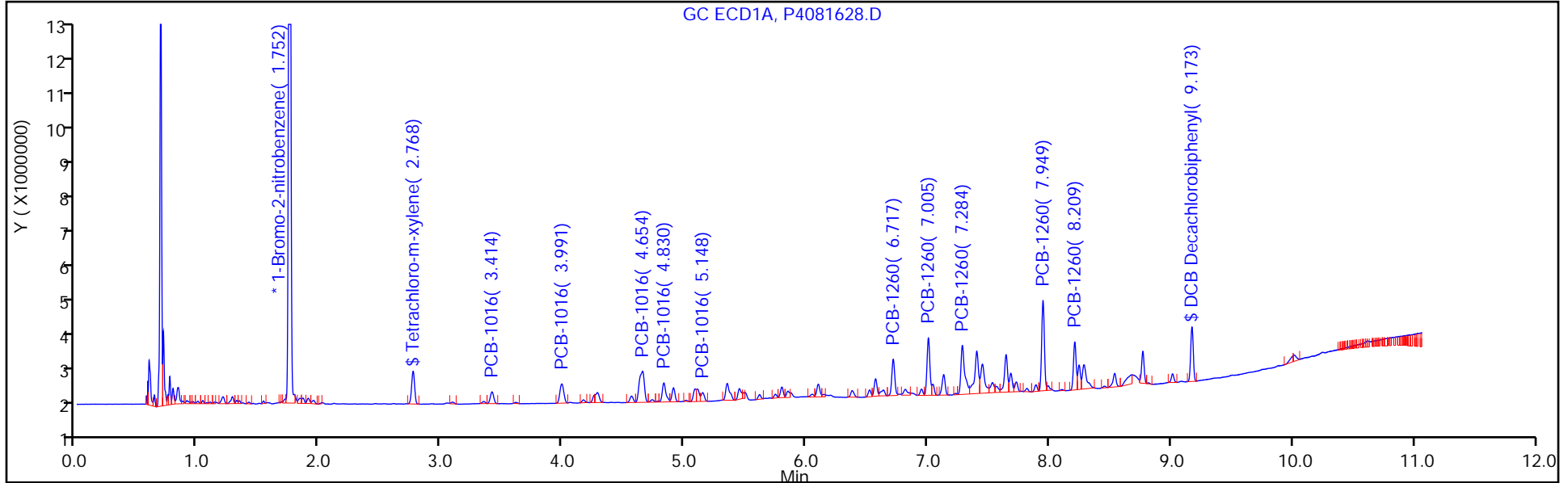
ALS Bottle#: 28

Method: PCB4 is

Limit Group: GC 8082A IS

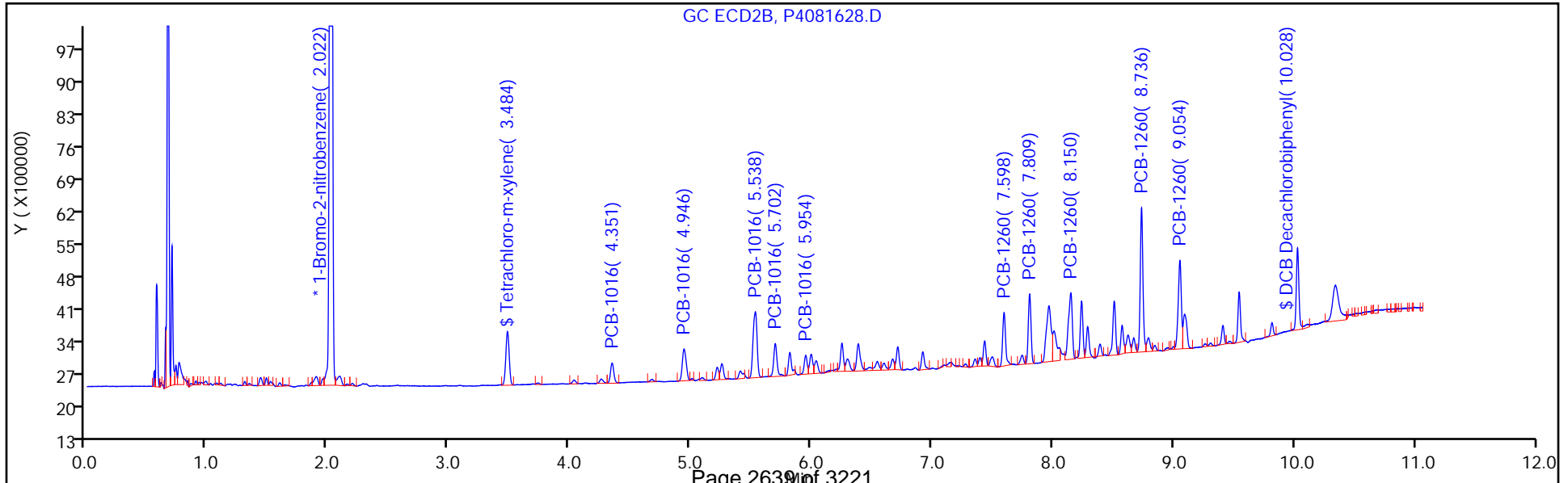
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081628.D

Injection Date: 16-Aug-2022 17:21:53

Instrument ID: A2HP4

Lims ID: std005 1660

Client ID:

Operator ID:

ALS Bottle#: 28

Worklist Smp#: 28

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

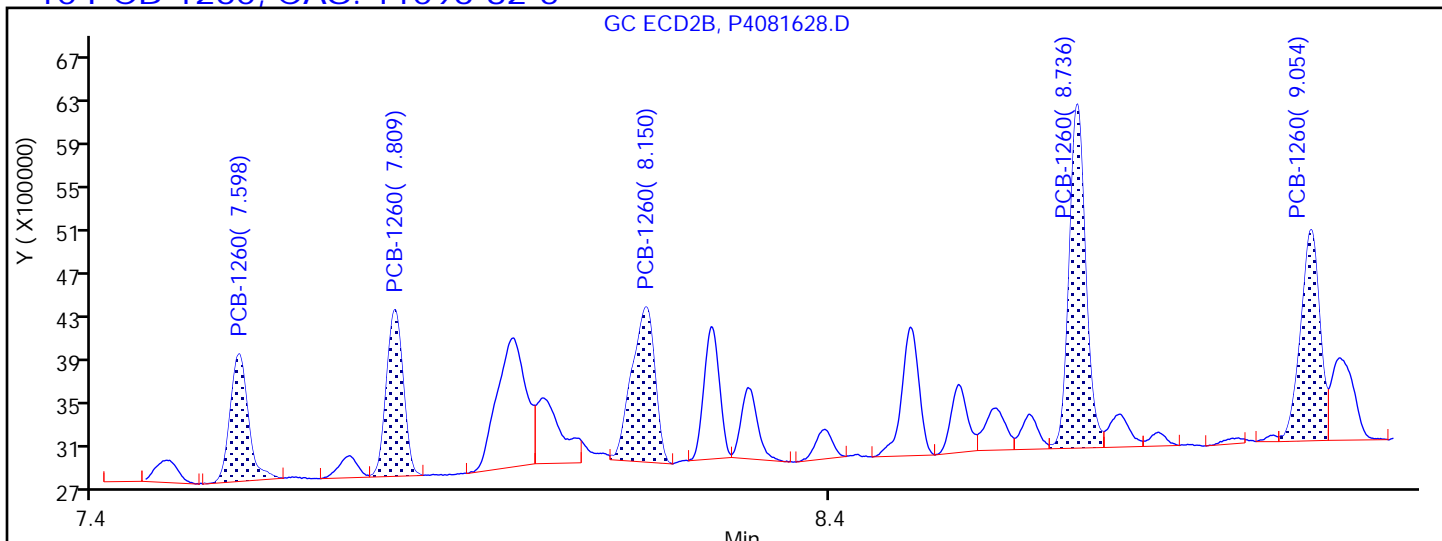
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

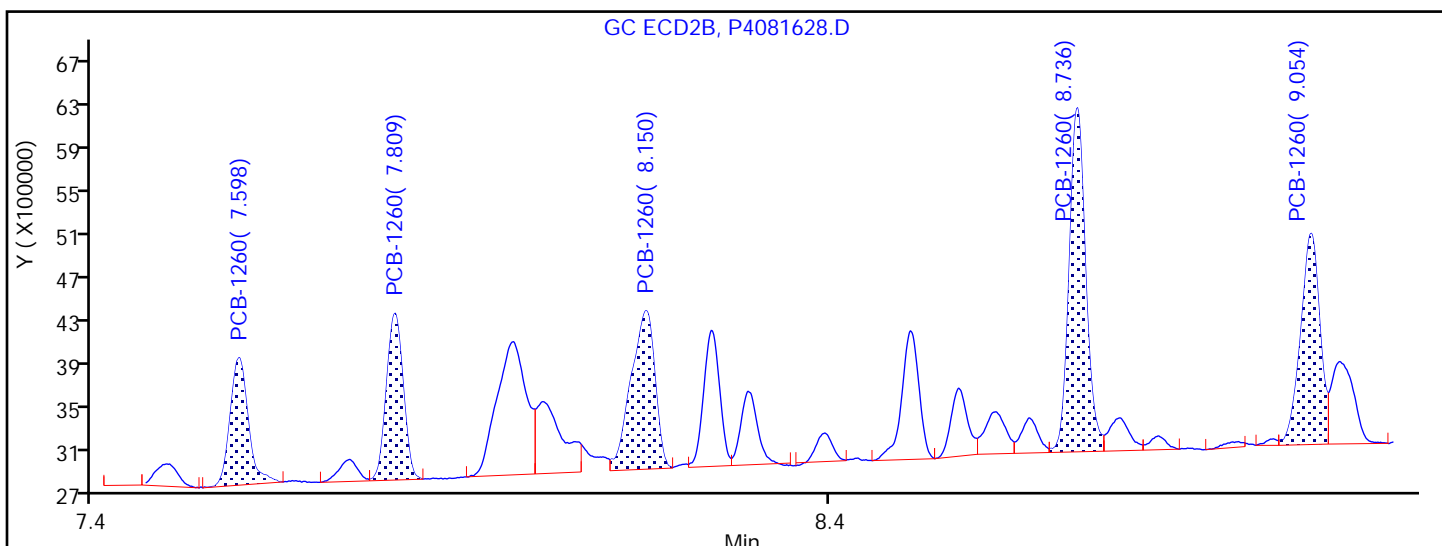
Detector: GC ecd2b

10 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.598	Response = 1964195
7.809	Response = 2376212
8.150	Response = 3051461
8.736	Response = 4837595
9.054	Response = 3480417



Manual Integration Results

7.598	Response = 1964195
7.809	Response = 2376212
8.150	Response = 3229741
8.736	Response = 4837595
9.054	Response = 3480417

M

Reviewer: WRR8, 17-Aug-2022 08:02:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2640 of 3221

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081629.D
 Lims ID: std01 1660
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Aug-2022 17:39:28 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-029
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:19 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.004	32020051	0.0500	0.0500	
2	2.026	2.020	0.005	44805421	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.772	2.765	0.007	3063590	0.005000	0.004981	
2	3.486	3.480	0.006	4216612	0.005000	0.004963	

RPD = 0.36

6 PCB-1016

1	3.417	3.412	0.005	1271760	0.1000	0.1102	
1	3.991	3.984	0.007	2369524	0.1000	0.1108	
1	4.655	4.650	0.005	5003574	0.1000	0.1066	
1	4.831	4.825	0.006	2202160	0.1000	0.1082	
1	5.152	5.146	0.006	910788	0.1000	0.1109	
Average of Peak Amounts =						0.1093	
2	4.352	4.345	0.007	1582271	0.1000	0.1074	
2	4.949	4.942	0.007	3008837	0.1000	0.1098	
2	5.538	5.535	0.003	6254071	0.1000	0.1063	
2	5.705	5.700	0.005	2494535	0.1000	0.1044	
2	5.955	5.952	0.003	1313437	0.1000	0.1100	
Average of Peak Amounts =						0.1076	

RPD = 1.58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260 M

1	6.718	6.714	0.004	3398085	0.1000	0.1101	
1	7.008	7.001	0.007	5329675	0.1000	0.1075	
1	7.287	7.280	0.007	6048833	0.1000	0.1083	
1	7.947	7.940	0.007	8143900	0.1000	0.1043	
1	8.208	8.200	0.008	4180528	0.1000	0.1054	

Average of Peak Amounts = 0.1071

2	7.598	7.590	0.008	3591747	0.1000	0.1065	M
2	7.810	7.801	0.009	4430969	0.1000	0.1073	M
2	8.148	8.142	0.006	5879116	0.1000	0.1049	M
2	8.734	8.728	0.006	9128428	0.1000	0.1058	M
2	9.053	9.047	0.006	6557693	0.1000	0.1080	

Average of Peak Amounts = 0.1065

RPD = 0.56

\$ 12 DCB Decachlorobiphenyl

1	9.172	9.165	0.007	4389208	0.005000	0.005294	
2	10.029	10.024	0.005	4967299	0.005000	0.005389	

RPD = 1.78

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1660STD@0.1_00034

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081629.D

Injection Date: 16-Aug-2022 17:39:28

Instrument ID: A2HP4

Operator ID:

Lims ID: std01 1660

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

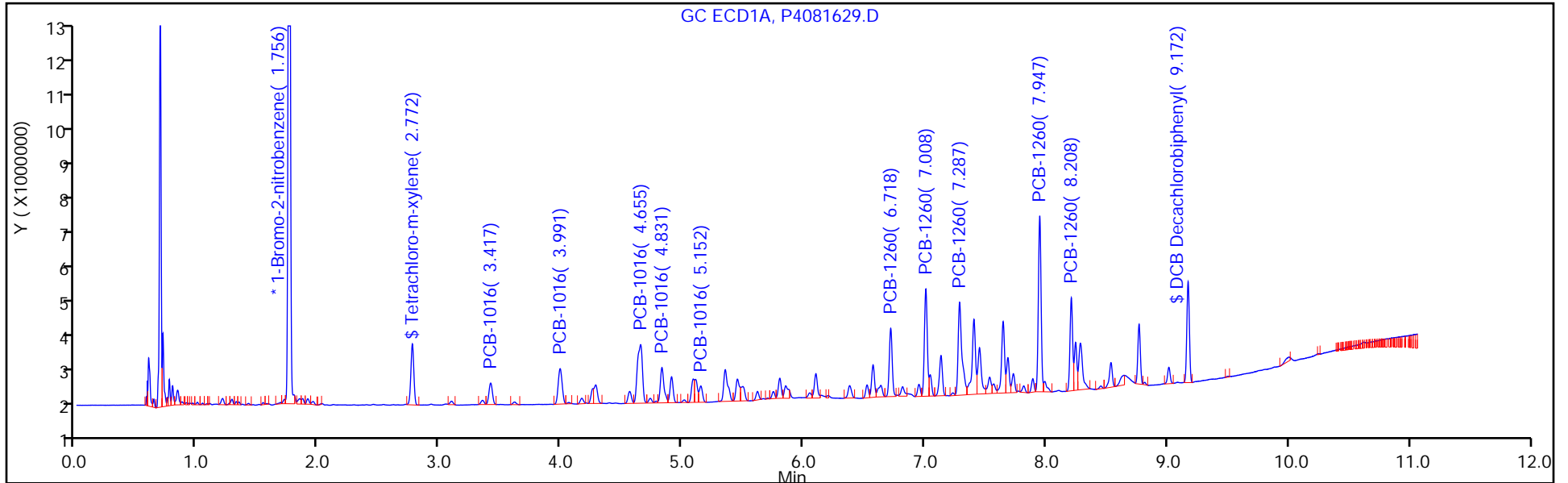
ALS Bottle#: 29

Method: PCB4 is

Limit Group: GC 8082A IS

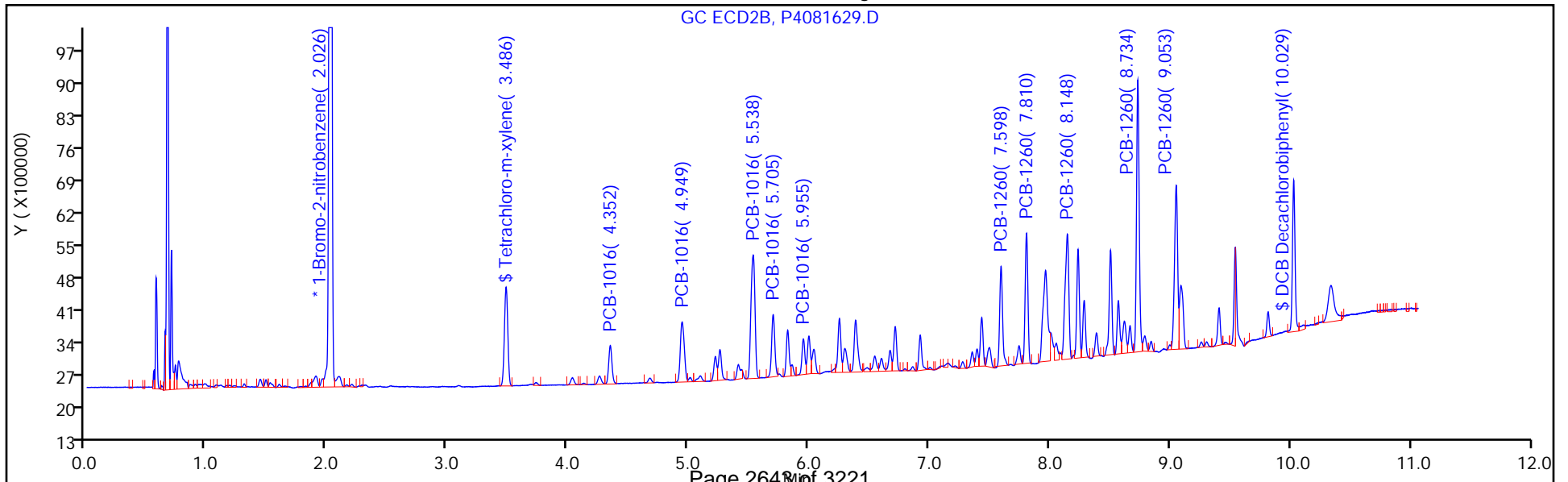
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081629.D

Injection Date: 16-Aug-2022 17:39:28

Instrument ID: A2HP4

Lims ID: std01 1660

Client ID:

Operator ID:

ALS Bottle#:

29

Worklist Smp#:

29

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCB4 is

Limit Group:

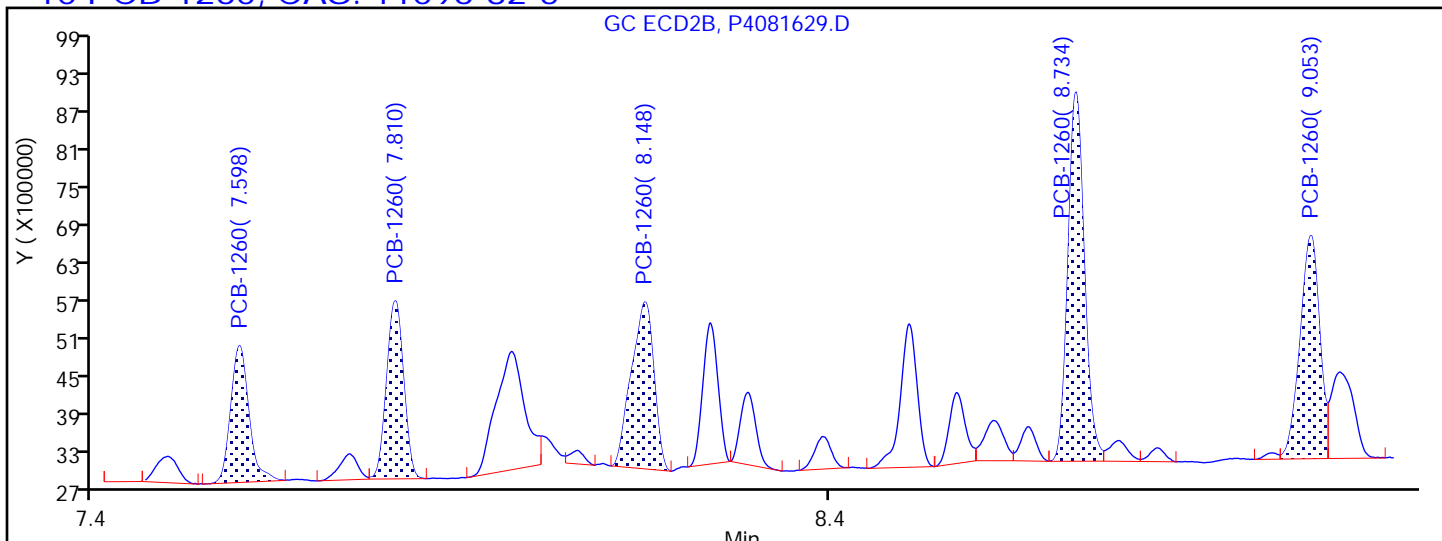
GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

Detector

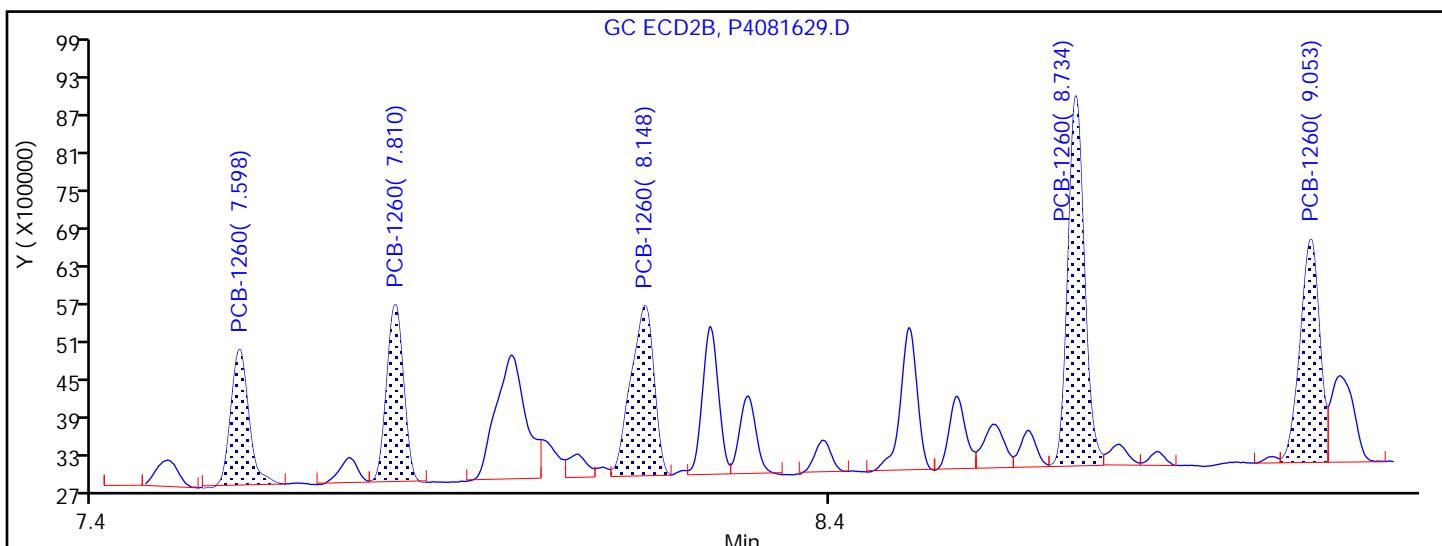
GC ecd2b

10 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.598	Response = 3704924
7.810	Response = 4515645
8.148	Response = 5597527
8.734	Response = 9056888
9.053	Response = 6557693



Manual Integration Results

7.598	Response = 3591747	M
7.810	Response = 4430969	M
8.148	Response = 5879116	M
8.734	Response = 9128428	M
9.053	Response = 6557693	

Reviewer: WRR8, 17-Aug-2022 08:02:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 2644 of 3221

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081630.D
 Lims ID: std02 1660
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Aug-2022 17:56:58 ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-030
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:25 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.748	1.751	-0.003	33073120	0.0500	0.0500	
2	2.018	2.020	-0.002	46148785	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.764	2.765	-0.001	6223373	0.0100	0.0100	
2	3.478	3.480	-0.002	8593585	0.0100	0.0100	

RPD = 0.57

6 PCB-1016

1	3.411	3.412	-0.001	2413528	0.2000	0.2024	
1	3.985	3.984	0.001	4423022	0.2000	0.2002	
1	4.650	4.650	0.000	9422620	0.2000	0.1943	
1	4.825	4.825	0.000	4132365	0.2000	0.1965	
1	5.146	5.146	0.000	1685453	0.2000	0.1987	

Average of Peak Amounts = 0.1984

2	4.346	4.345	0.001	3099581	0.2000	0.2043	
2	4.943	4.942	0.001	5754074	0.2000	0.2040	
2	5.533	5.535	-0.002	11978765	0.2000	0.1977	
2	5.700	5.700	0.000	5030616	0.2000	0.2044	
2	5.951	5.952	-0.001	2476624	0.2000	0.2013	

Average of Peak Amounts = 0.2024

RPD = 1.97

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.713	6.714	-0.001	6153738	0.2000	0.1930	
1	7.003	7.001	0.002	9874886	0.2000	0.1929	
1	7.282	7.280	0.002	11020465	0.2000	0.1910	
1	7.943	7.940	0.003	15294132	0.2000	0.1896	
1	8.203	8.200	0.003	7924517	0.2000	0.1935	

Average of Peak Amounts = 0.1920

2	7.592	7.590	0.002	6850697	0.2000	0.1973	
2	7.804	7.801	0.003	8344049	0.2000	0.1963	
2	8.145	8.142	0.003	11395667	0.2000	0.1973	
2	8.730	8.728	0.002	17255621	0.2000	0.1942	
2	9.049	9.047	0.002	12211278	0.2000	0.1953	

Average of Peak Amounts = 0.1961

RPD = 2.10

\$ 12 DCB Decachlorobiphenyl

1	9.167	9.165	0.002	8170806	0.0100	0.0102	
2	10.025	10.024	0.001	8980791	0.0100	0.0102	

RPD = 0.37

QC Flag Legend

Processing Flags

Reagents:

SG1660@0.2ppm_00037

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081630.D

Injection Date: 16-Aug-2022 17:56:58

Instrument ID: A2HP4

Operator ID:

Lims ID: std02 1660

Worklist Smp#: 30

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

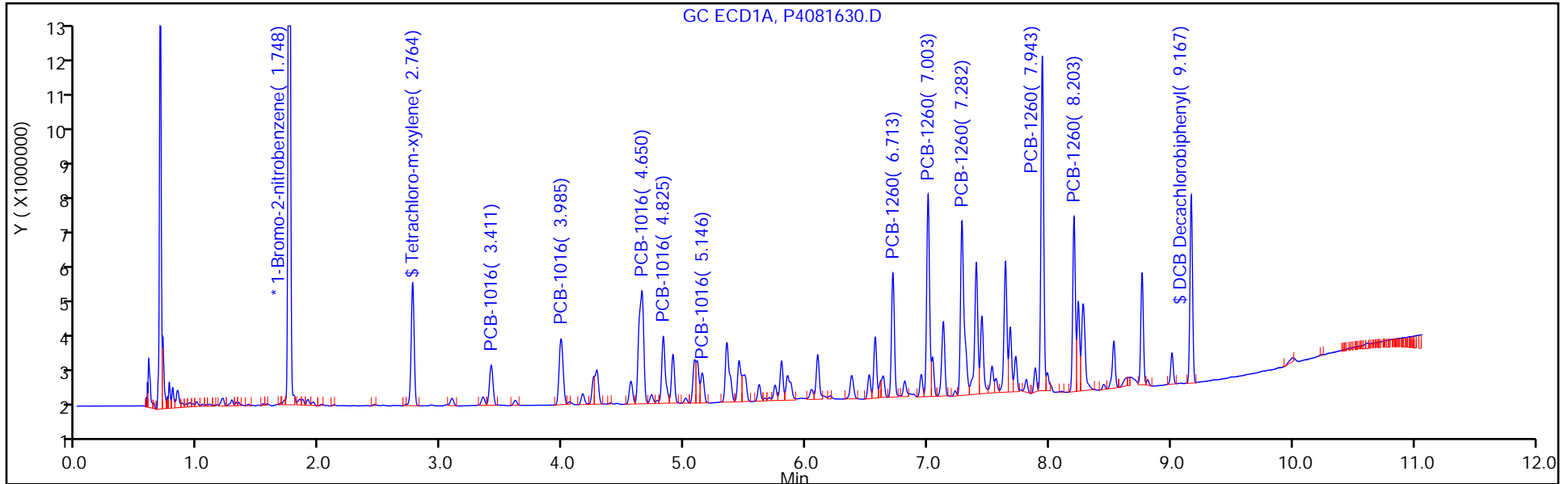
ALS Bottle#: 30

Method: PCB4 is

Limit Group: GC 8082A IS

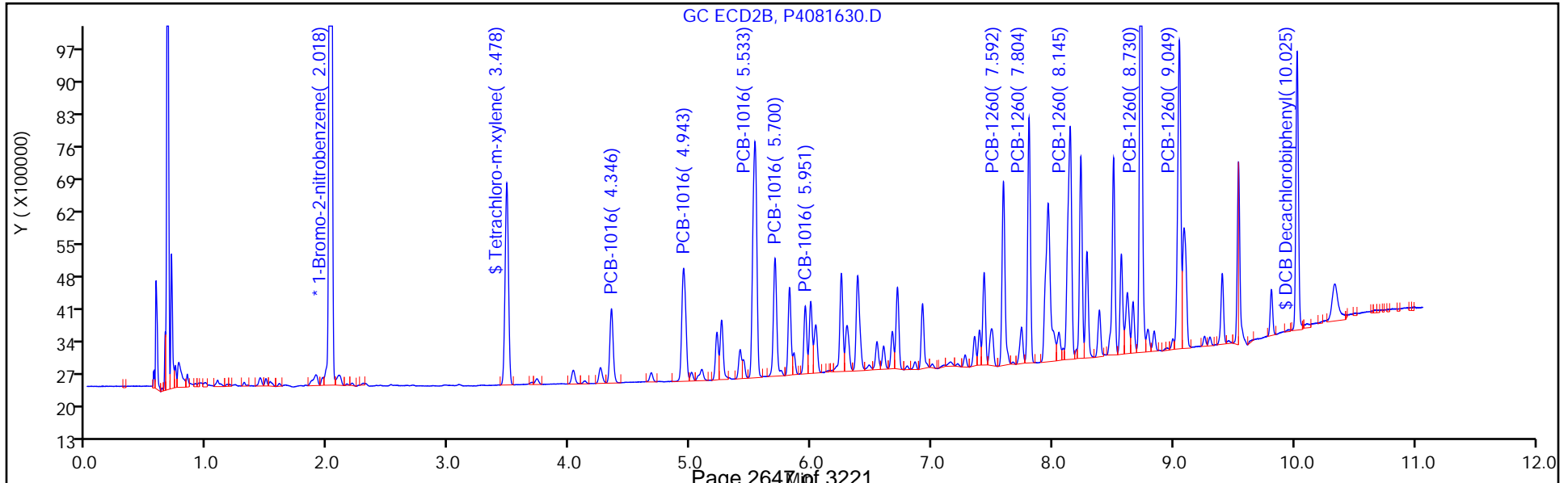
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081631.D
 Lims ID: std05 1660
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 16-Aug-2022 18:14:22 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-031
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:31 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:03:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.751	1.751	0.000	35974207	0.0500	0.0500	
2	2.020	2.020	0.000	49897257	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.765	2.765	0.000	16496979	0.0250	0.0246	
2	3.480	3.480	0.000	22644289	0.0250	0.0248	

RPD = 0.74

6 PCB-1016

1	3.412	3.412	0.000	6080232	0.5000	0.4689	
1	3.984	3.984	0.000	11121830	0.5000	0.4627	
1	4.650	4.650	0.000	24607616	0.5000	0.4664	
1	4.825	4.825	0.000	10614654	0.5000	0.4641	
1	5.146	5.146	0.000	4229094	0.5000	0.4583	

Average of Peak Amounts = 0.4641

2	4.345	4.345	0.000	7766342	0.5000	0.4734	
2	4.942	4.942	0.000	14425904	0.5000	0.4729	
2	5.535	5.535	0.000	30917744	0.5000	0.4720	
2	5.700	5.700	0.000	12417370	0.5000	0.4667	
2	5.952	5.952	0.000	6196603	0.5000	0.4659	

Average of Peak Amounts = 0.4702

RPD = 1.31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.714	6.714	0.000	15534795	0.5000	0.4480	
1	7.001	7.001	0.000	25402673	0.5000	0.4561	
1	7.280	7.280	0.000	28439308	0.5000	0.4532	
1	7.940	7.940	0.000	41168206	0.5000	0.4691	
1	8.200	8.200	0.000	20565839	0.5000	0.4616	

Average of Peak Amounts = 0.4576

2	7.590	7.590	0.000	17295932	0.5000	0.4606	
2	7.801	7.801	0.000	21043083	0.5000	0.4578	
2	8.142	8.142	0.000	28818578	0.5000	0.4615	
2	8.728	8.728	0.000	44232753	0.5000	0.4603	
2	9.047	9.047	0.000	30798990	0.5000	0.4557	

Average of Peak Amounts = 0.4592

RPD = 0.35

\$ 12 DCB Decachlorobiphenyl

1	9.165	9.165	0.000	20002617	0.0250	0.0238	
2	10.024	10.024	0.000	21611125	0.0250	0.0239	

RPD = 0.27

QC Flag Legend

Processing Flags

Reagents:

SG1660@0.5PPM_00116

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081631.D

Injection Date: 16-Aug-2022 18:14:22

Instrument ID: A2HP4

Operator ID:

Lims ID: std05 1660

Worklist Smp#: 31

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

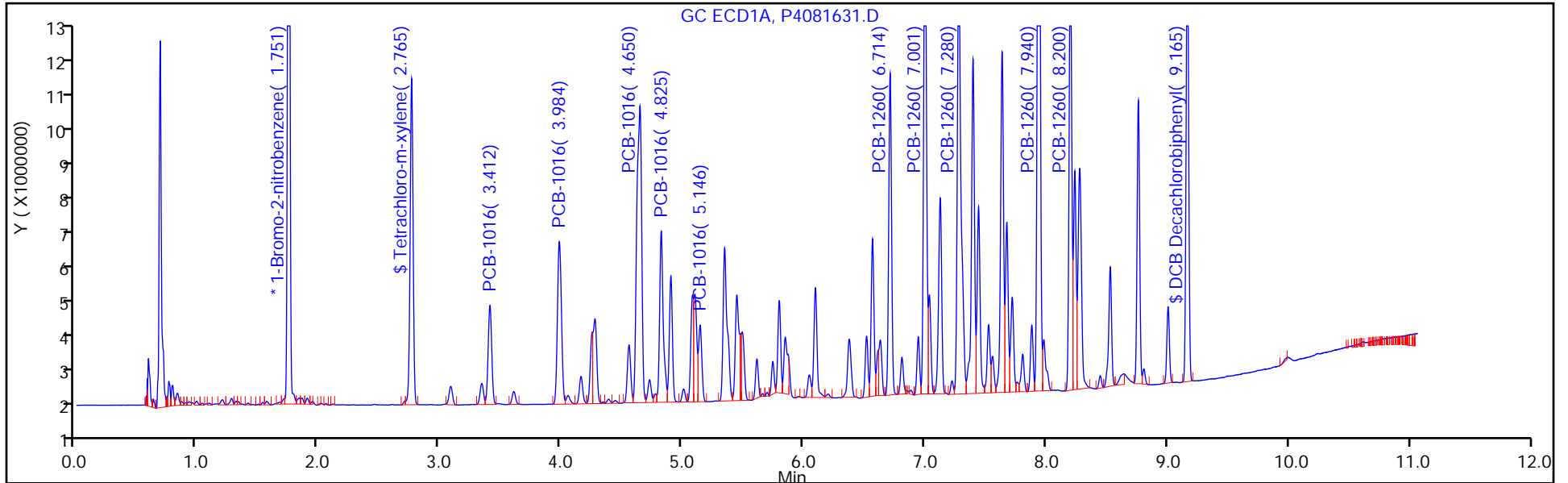
ALS Bottle#: 31

Method: PCB4 is

Limit Group: GC 8082A IS

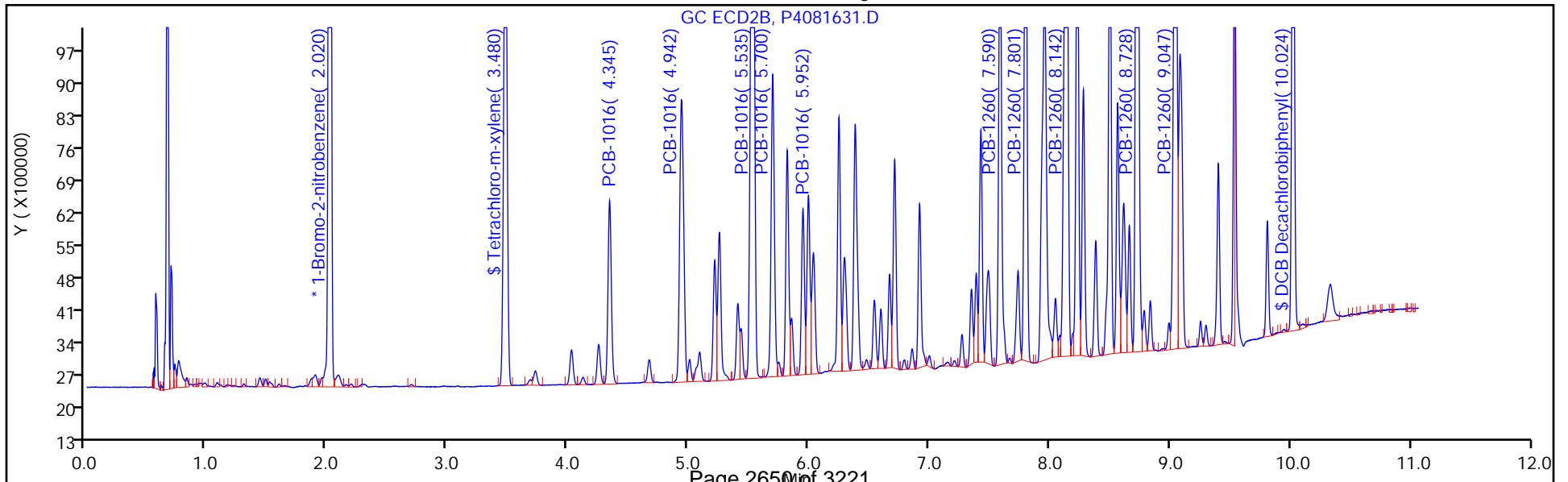
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D
 Lims ID: std1 1660
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Aug-2022 18:31:49 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-032
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:37 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.754	1.751	0.002	34134589	0.0500	0.0500	
2	2.024	2.020	0.003	47994321	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.769	2.765	0.004	31886165	0.0500	0.0504	
2	3.484	3.480	0.004	43664715	0.0500	0.0500	

RPD = 0.80

6 PCB-1016

1	3.416	3.412	0.004	11277199	1.00	0.9165	
1	3.989	3.984	0.005	20817483	1.00	0.9127	
1	4.654	4.650	0.004	48309239	1.00	0.9650	
1	4.830	4.825	0.005	20373696	1.00	0.9388	
1	5.151	5.146	0.005	8028584	1.00	0.9169	

Average of Peak Amounts = 0.9300

2	4.350	4.345	0.005	14547828	1.00	0.9220	
2	4.948	4.942	0.006	27107538	1.00	0.9239	
2	5.541	5.535	0.006	59719459	1.00	0.9479	
2	5.706	5.700	0.006	23844427	1.00	0.9318	
2	5.958	5.952	0.006	11585104	1.00	0.9056	

Average of Peak Amounts = 0.9262

RPD = 0.40

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.719	6.714	0.005	30990492	1.00	0.9419	
1	7.007	7.001	0.006	50939599	1.00	0.9639	
1	7.285	7.280	0.005	56631949	1.00	0.9510	
1	7.945	7.940	0.005	83171627	1.00	1.00	
1	8.205	8.200	0.005	40890247	1.00	0.9672	

Average of Peak Amounts = 0.9646

2	7.596	7.590	0.006	33596179	1.00	0.9302	
2	7.808	7.801	0.007	41339556	1.00	0.9349	
2	8.147	8.142	0.005	55871488	1.00	0.9303	
2	8.730	8.728	0.002	87942324	1.00	0.9514	
2	9.049	9.047	0.002	60403692	1.00	0.9291	

Average of Peak Amounts = 0.9352

RPD = 3.09

\$ 12 DCB Decachlorobiphenyl

1	9.168	9.165	0.003	37172594	0.0500	0.0474	
2	10.024	10.024	0.000	41247211	0.0500	0.0484	

RPD = 2.01

Reagents:

SG1660@1.0PPM_00050

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081632.D

Injection Date: 16-Aug-2022 18:31:49

Instrument ID: A2HP4

Operator ID:

Lims ID: std1 1660

Worklist Smp#: 32

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

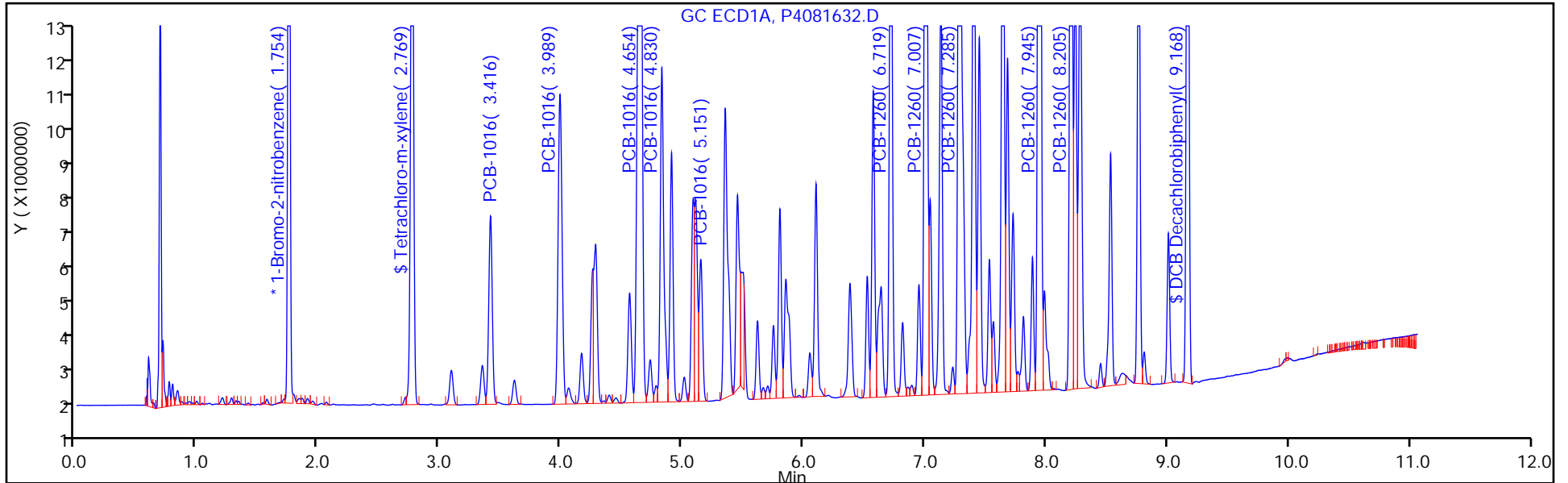
ALS Bottle#: 32

Method: PCB4 is

Limit Group: GC 8082A IS

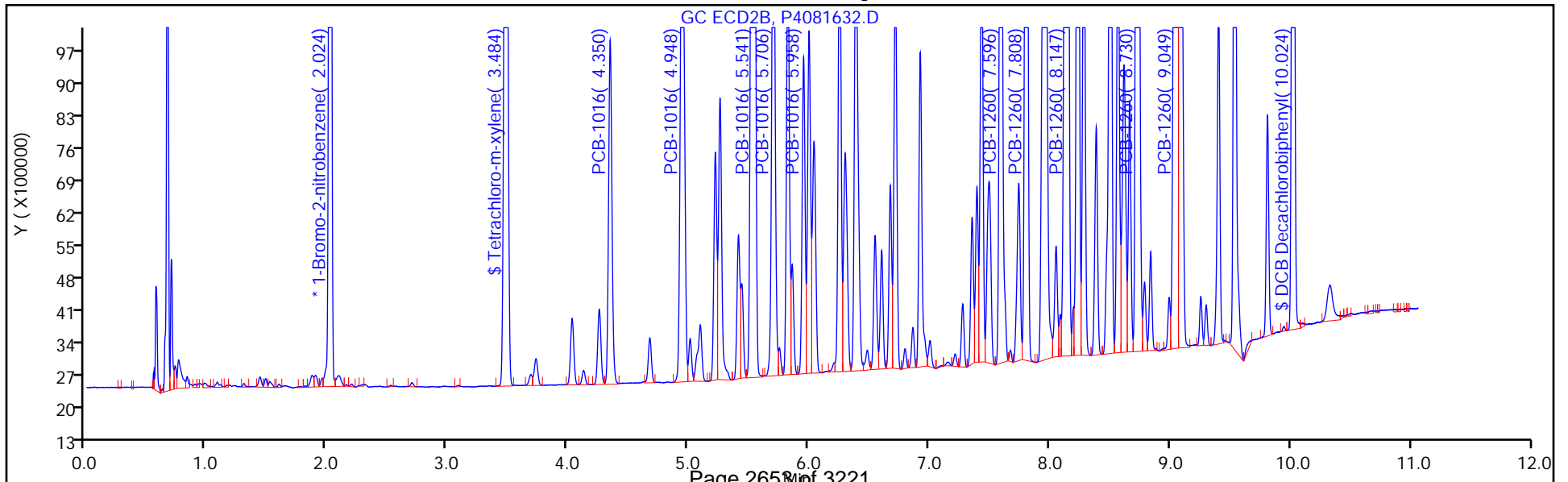
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Lims ID: std15 1660
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Aug-2022 18:49:18 ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-033
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.747	1.751	-0.004	32229494	0.0500	0.0500	
2	2.016	2.020	-0.004	44652039	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.761	2.765	-0.004	47690520	0.0800	0.0800	
2	3.476	3.480	-0.004	65004944	0.0800	0.0801	

RPD = 0.24

6 PCB-1016

1	3.407	3.412	-0.005	15445151	1.50	1.33	
1	3.981	3.984	-0.003	28750576	1.50	1.34	
1	4.646	4.650	-0.004	68328352	1.50	1.45	
1	4.821	4.825	-0.004	28539766	1.50	1.39	
1	5.141	5.146	-0.005	11170750	1.50	1.35	
Average of Peak Amounts =						1.37	
2	4.342	4.345	-0.003	19908628	1.50	1.36	
2	4.937	4.942	-0.005	37342619	1.50	1.37	
2	5.530	5.535	-0.005	84004131	1.50	1.43	
2	5.696	5.700	-0.004	33208030	1.50	1.39	
2	5.947	5.952	-0.005	16107477	1.50	1.35	
Average of Peak Amounts =						1.38	

RPD = 0.75

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710	6.714	-0.004	44415517	1.50	1.43	
1	7.000	7.001	-0.001	73790566	1.50	1.48	
1	7.276	7.280	-0.004	82295293	1.50	1.46	
1	7.938	7.940	-0.002	122801645	1.50	1.56	
1	8.199	8.200	-0.001	60867880	1.50	1.52	

Average of Peak Amounts = 1.49

2	7.587	7.590	-0.003	48187051	1.50	1.43	
2	7.800	7.801	-0.001	59673981	1.50	1.45	
2	8.141	8.142	-0.001	82390294	1.50	1.47	
2	8.725	8.728	-0.003	129119258	1.50	1.50	
2	9.043	9.047	-0.004	88803065	1.50	1.47	

Average of Peak Amounts = 1.47

RPD = 1.76

\$ 12 DCB Decachlorobiphenyl

1	9.162	9.165	-0.003	61218108	0.0800	0.0833	
2	10.019	10.024	-0.005	64665884	0.0800	0.0822	

RPD = 1.31

Reagents:

SG1660@1.5PPM_00018

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Injection Date: 16-Aug-2022 18:49:18

Instrument ID: A2HP4

Operator ID:

Lims ID: std15 1660

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

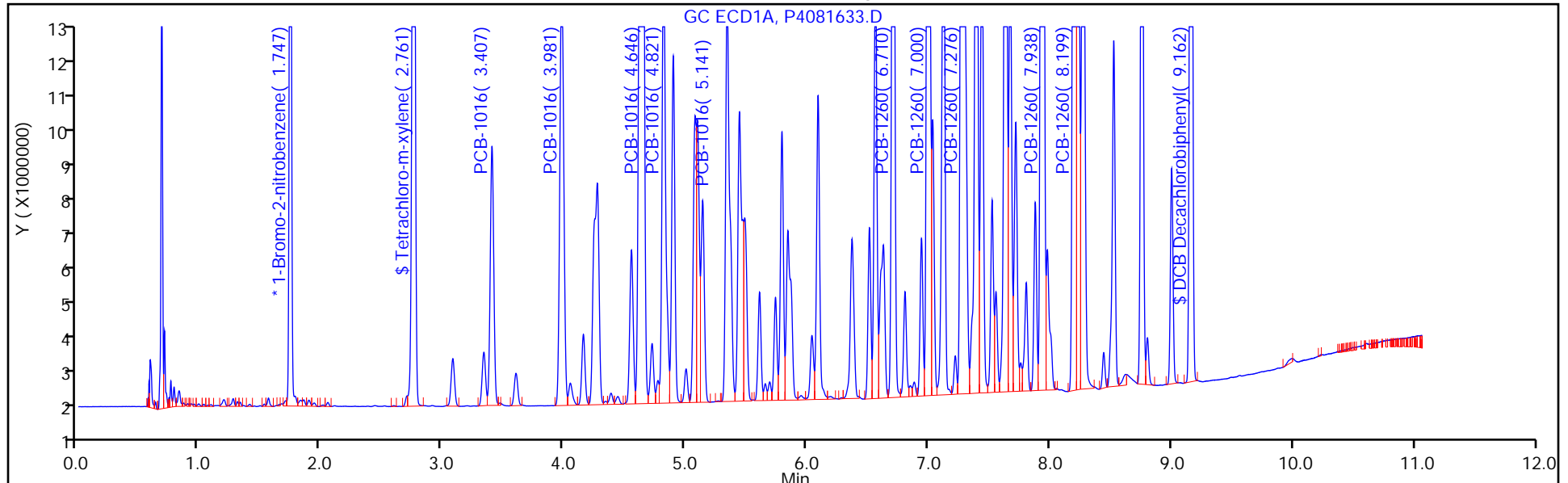
ALS Bottle#: 33

Method: PCB4 is

Limit Group: GC 8082A IS

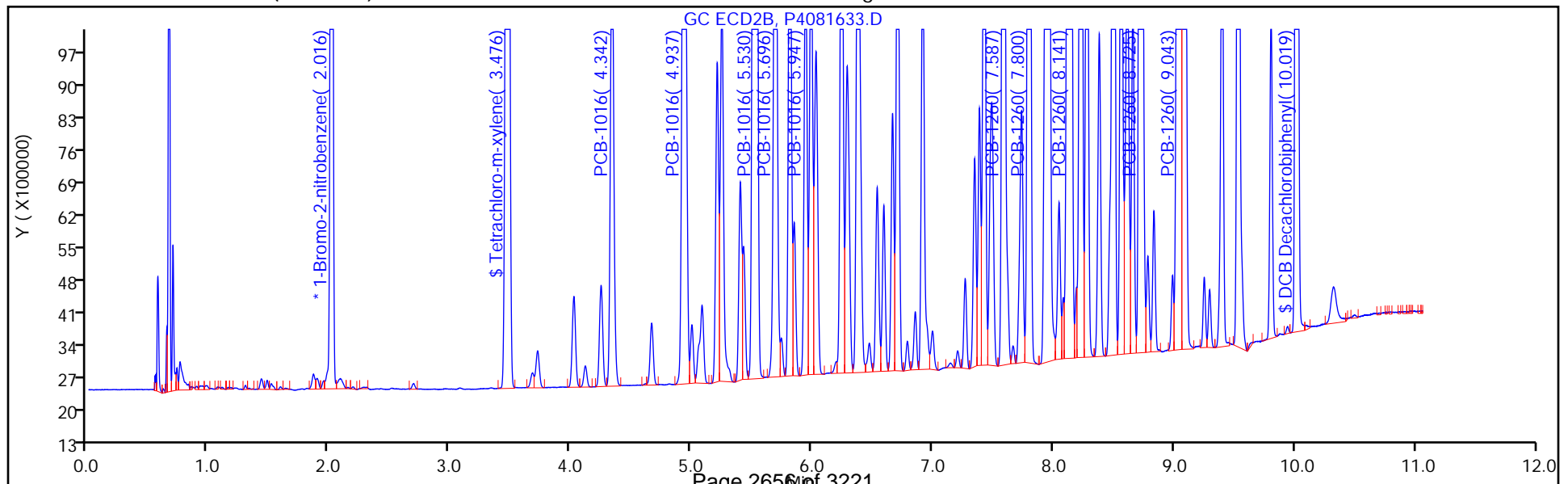
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Calibration

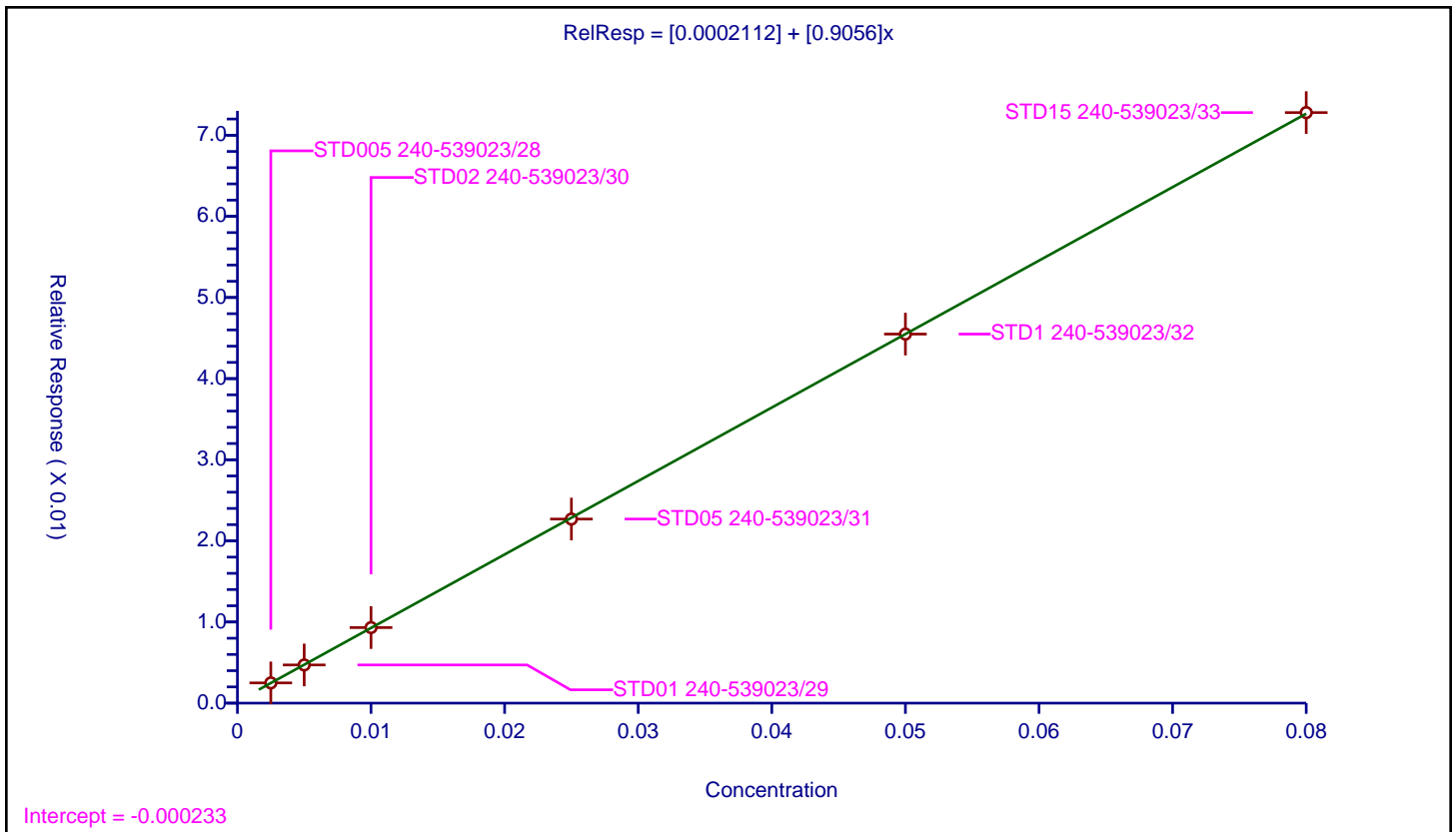
/ Tetrachloro-m-xylene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0002112
Slope:	0.9056

Error Coefficients	
Standard Error:	41100000
Relative Standard Error:	0.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.0025	0.002493	0.05	45741383.0	0.997171	Y
2	STD01 240-539023/29	0.005	0.004705	0.05	44805421.0	0.941094	Y
3	STD02 240-539023/30	0.01	0.009311	0.05	46148785.0	0.931074	Y
4	STD05 240-539023/31	0.025	0.022691	0.05	49897257.0	0.907637	Y
5	STD1 240-539023/32	0.05	0.045489	0.05	47994321.0	0.909789	Y
6	STD15 240-539023/33	0.08	0.072791	0.05	44652039.0	0.909882	Y



Calibration

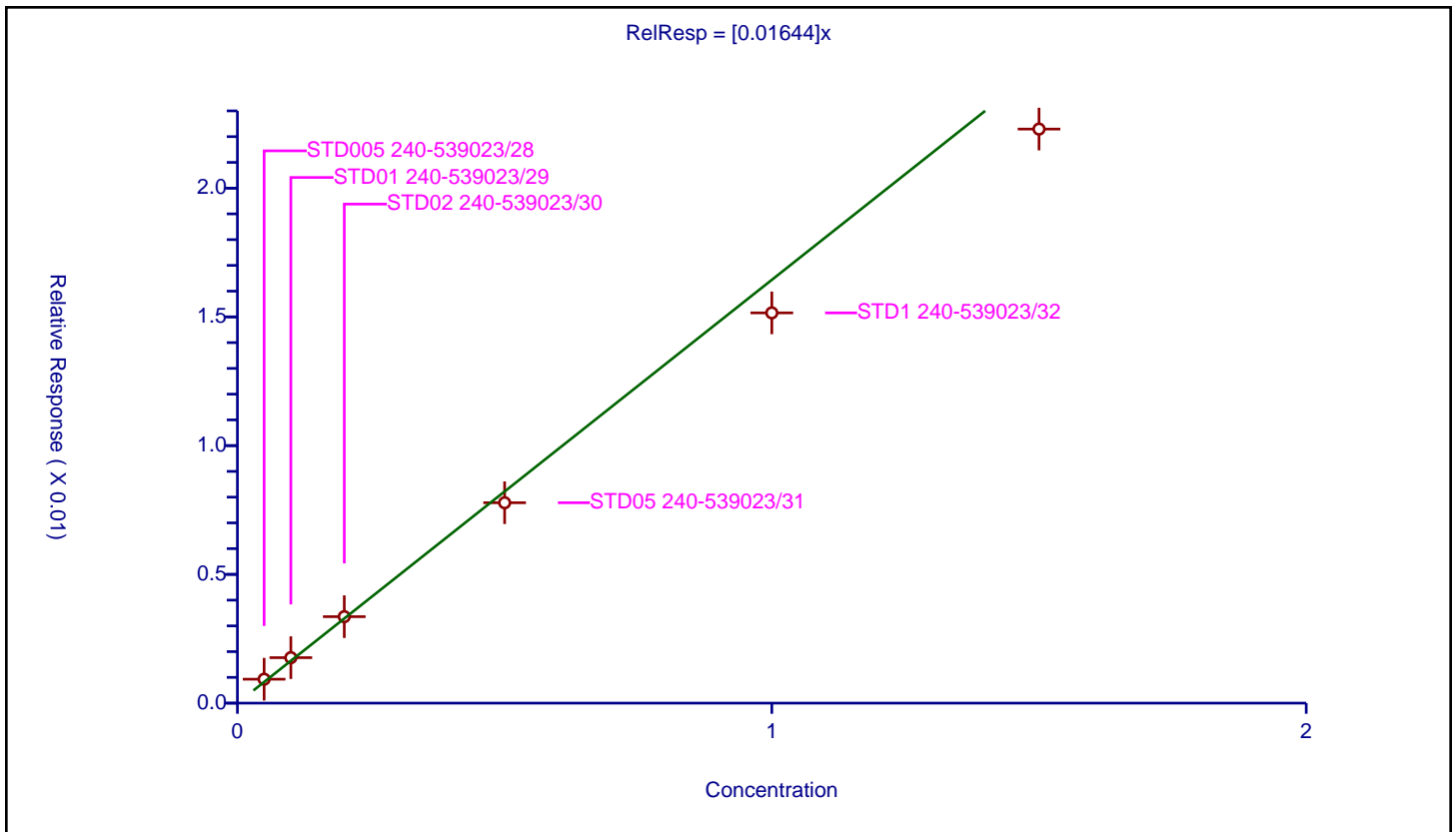
/ PCB-1016 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01644

Error Coefficients	
Standard Error:	11700000
Relative Standard Error:	9.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.00093	0.05	45741383.0	0.018594	Y
2	STD01 240-539023/29	0.1	0.001766	0.05	44805421.0	0.017657	Y
3	STD02 240-539023/30	0.2	0.003358	0.05	46148785.0	0.016791	Y
4	STD05 240-539023/31	0.5	0.007782	0.05	49897257.0	0.015565	Y
5	STD1 240-539023/32	1.0	0.015156	0.05	47994321.0	0.015156	Y
6	STD15 240-539023/33	1.5	0.022293	0.05	44652039.0	0.014862	Y



Calibration

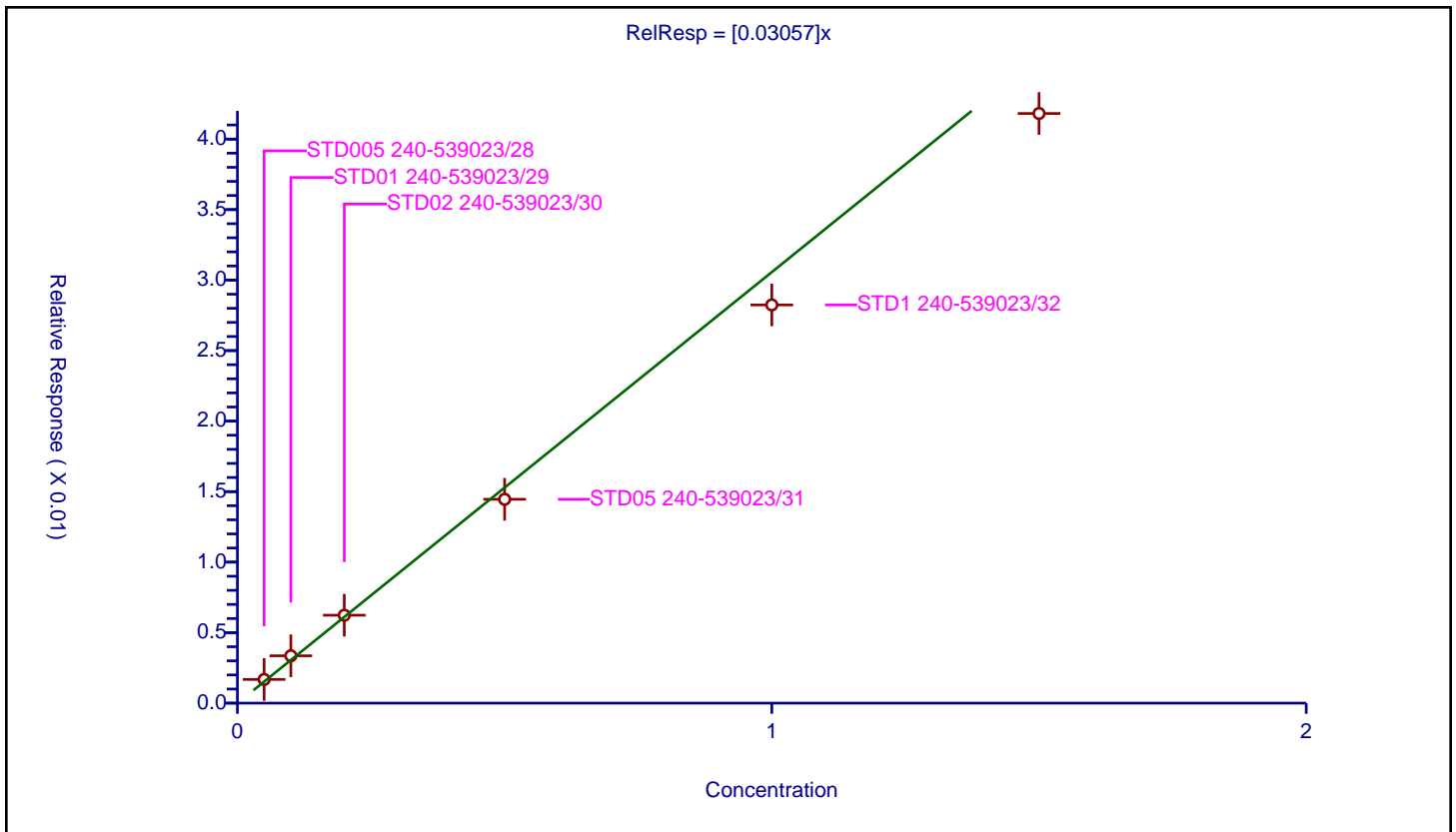
/ PCB-1016 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03057

Error Coefficients	
Standard Error:	21800000
Relative Standard Error:	8.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.001681	0.05	45741383.0	0.03362	Y
2	STD01 240-539023/29	0.1	0.003358	0.05	44805421.0	0.033577	Y
3	STD02 240-539023/30	0.2	0.006234	0.05	46148785.0	0.031171	Y
4	STD05 240-539023/31	0.5	0.014456	0.05	49897257.0	0.028911	Y
5	STD1 240-539023/32	1.0	0.02824	0.05	47994321.0	0.02824	Y
6	STD15 240-539023/33	1.5	0.041815	0.05	44652039.0	0.027877	Y



Calibration

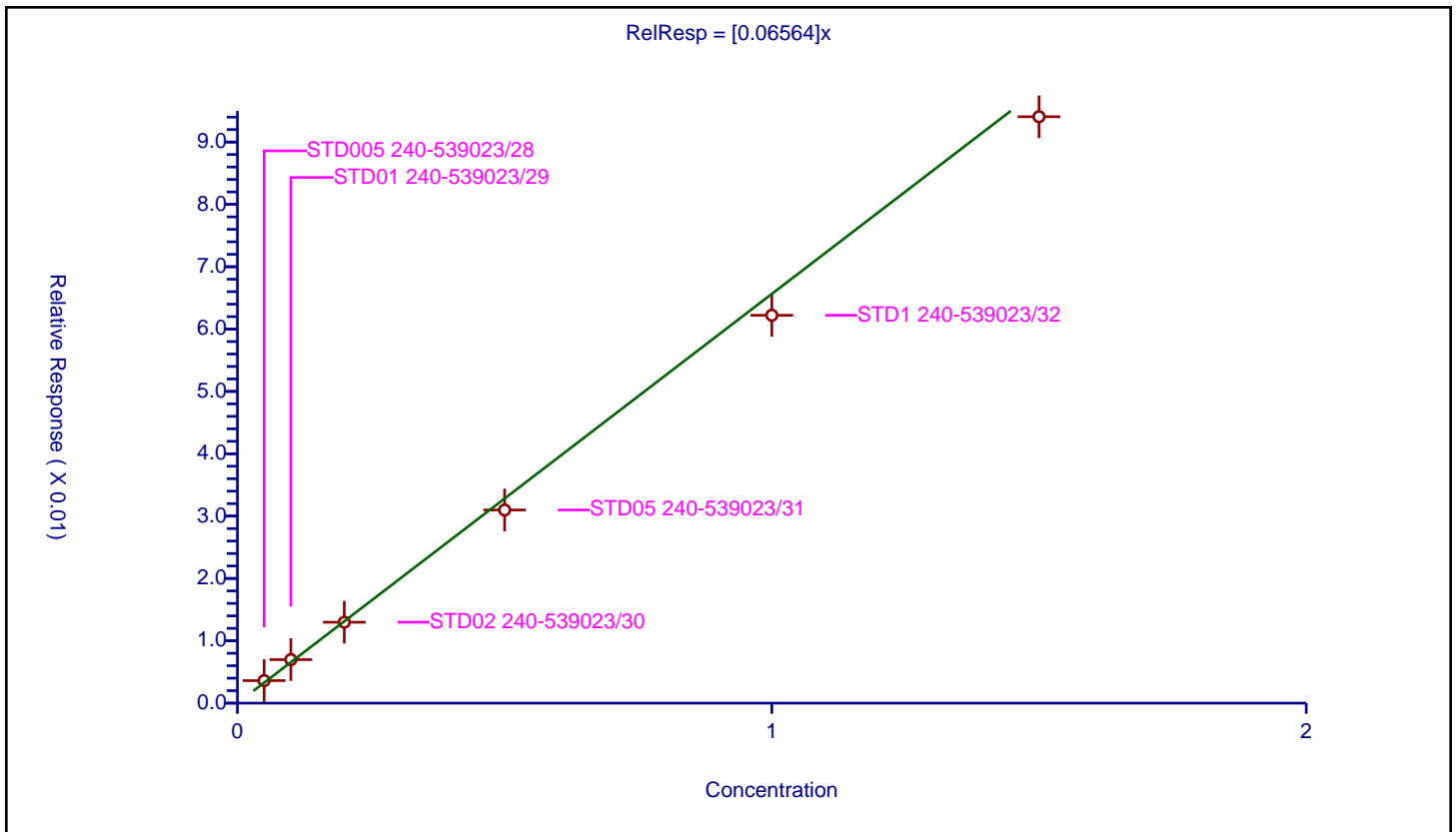
/ PCB-1016 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06564

Error Coefficients	
Standard Error:	48500000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.003613	0.05	45741383.0	0.072257	Y
2	STD01 240-539023/29	0.1	0.006979	0.05	44805421.0	0.069791	Y
3	STD02 240-539023/30	0.2	0.012978	0.05	46148785.0	0.064892	Y
4	STD05 240-539023/31	0.5	0.030981	0.05	49897257.0	0.061963	Y
5	STD1 240-539023/32	1.0	0.062215	0.05	47994321.0	0.062215	Y
6	STD15 240-539023/33	1.5	0.094065	0.05	44652039.0	0.06271	Y



Calibration

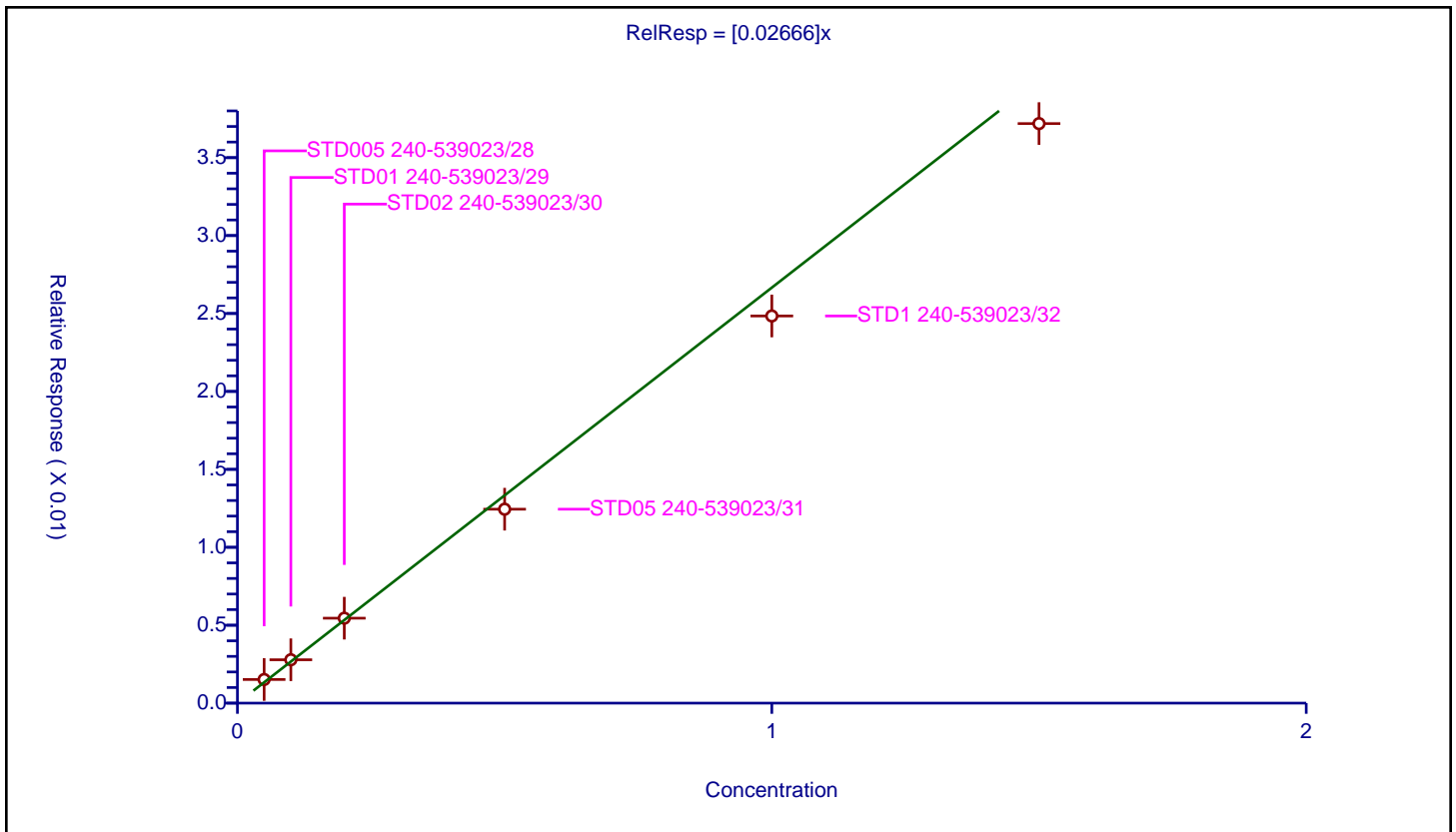
/ PCB-1016 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.02666

Error Coefficients	
Standard Error:	19300000
Relative Standard Error:	8.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.001517	0.05	45741383.0	0.030349	Y
2	STD01 240-539023/29	0.1	0.002784	0.05	44805421.0	0.027837	Y
3	STD02 240-539023/30	0.2	0.00545	0.05	46148785.0	0.027252	Y
4	STD05 240-539023/31	0.5	0.012443	0.05	49897257.0	0.024886	Y
5	STD1 240-539023/32	1.0	0.024841	0.05	47994321.0	0.024841	Y
6	STD15 240-539023/33	1.5	0.037185	0.05	44652039.0	0.02479	Y



Calibration

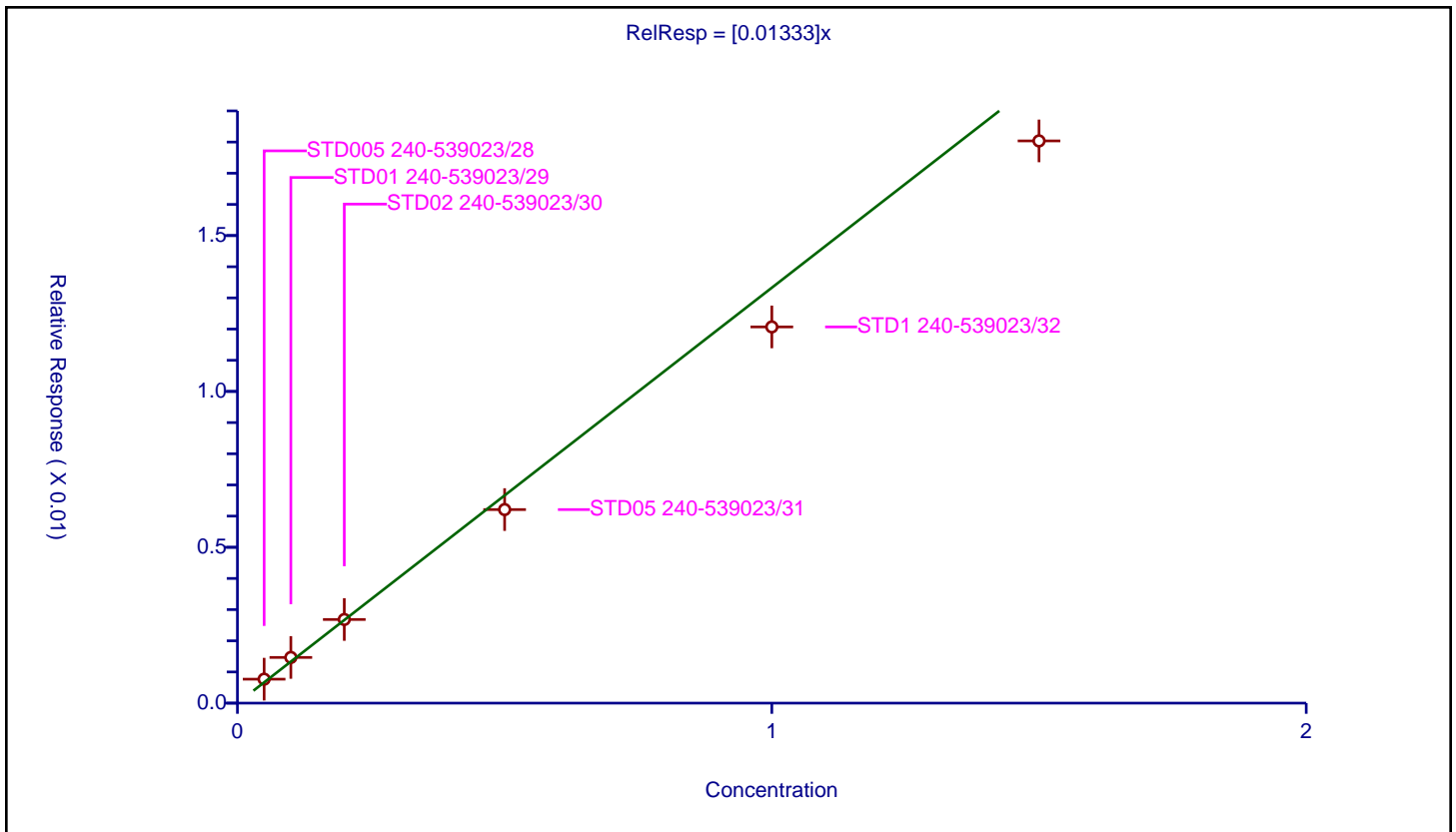
/ PCB-1016 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.01333

Error Coefficients	
Standard Error:	9390000
Relative Standard Error:	10.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.000769	0.05	45741383.0	0.015374	Y
2	STD01 240-539023/29	0.1	0.001466	0.05	44805421.0	0.014657	Y
3	STD02 240-539023/30	0.2	0.002683	0.05	46148785.0	0.013417	Y
4	STD05 240-539023/31	0.5	0.006209	0.05	49897257.0	0.012419	Y
5	STD1 240-539023/32	1.0	0.012069	0.05	47994321.0	0.012069	Y
6	STD15 240-539023/33	1.5	0.018037	0.05	44652039.0	0.012024	Y



Calibration

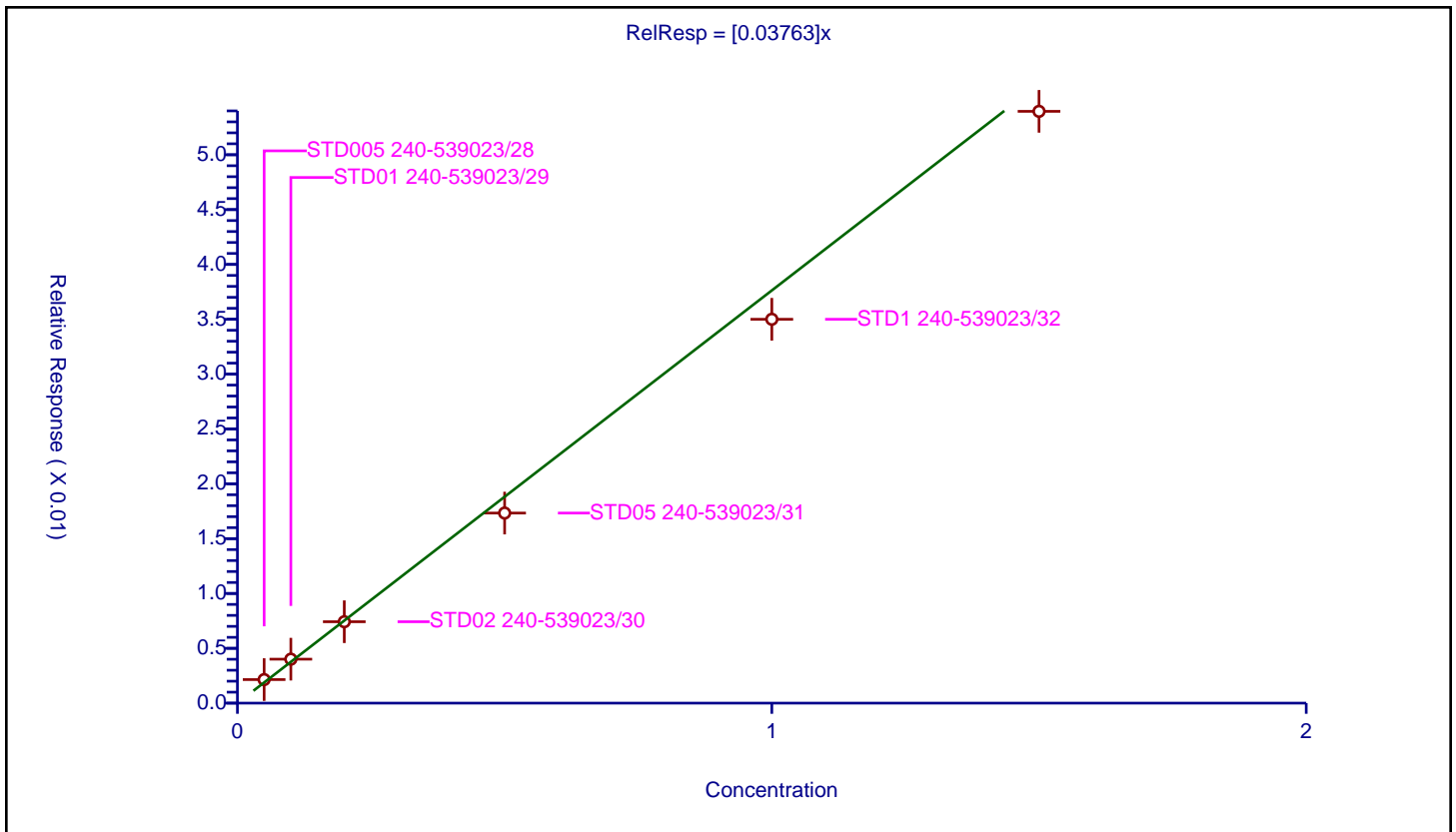
/ PCB-1260 Peak 1

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.03763

Error Coefficients	
Standard Error:	27600000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.002147	0.05	45741383.0	0.042941	Y
2	STD01 240-539023/29	0.1	0.004008	0.05	44805421.0	0.040082	Y
3	STD02 240-539023/30	0.2	0.007422	0.05	46148785.0	0.037112	Y
4	STD05 240-539023/31	0.5	0.017332	0.05	49897257.0	0.034663	Y
5	STD1 240-539023/32	1.0	0.035	0.05	47994321.0	0.035	Y
6	STD15 240-539023/33	1.5	0.053958	0.05	44652039.0	0.035972	Y



Calibration

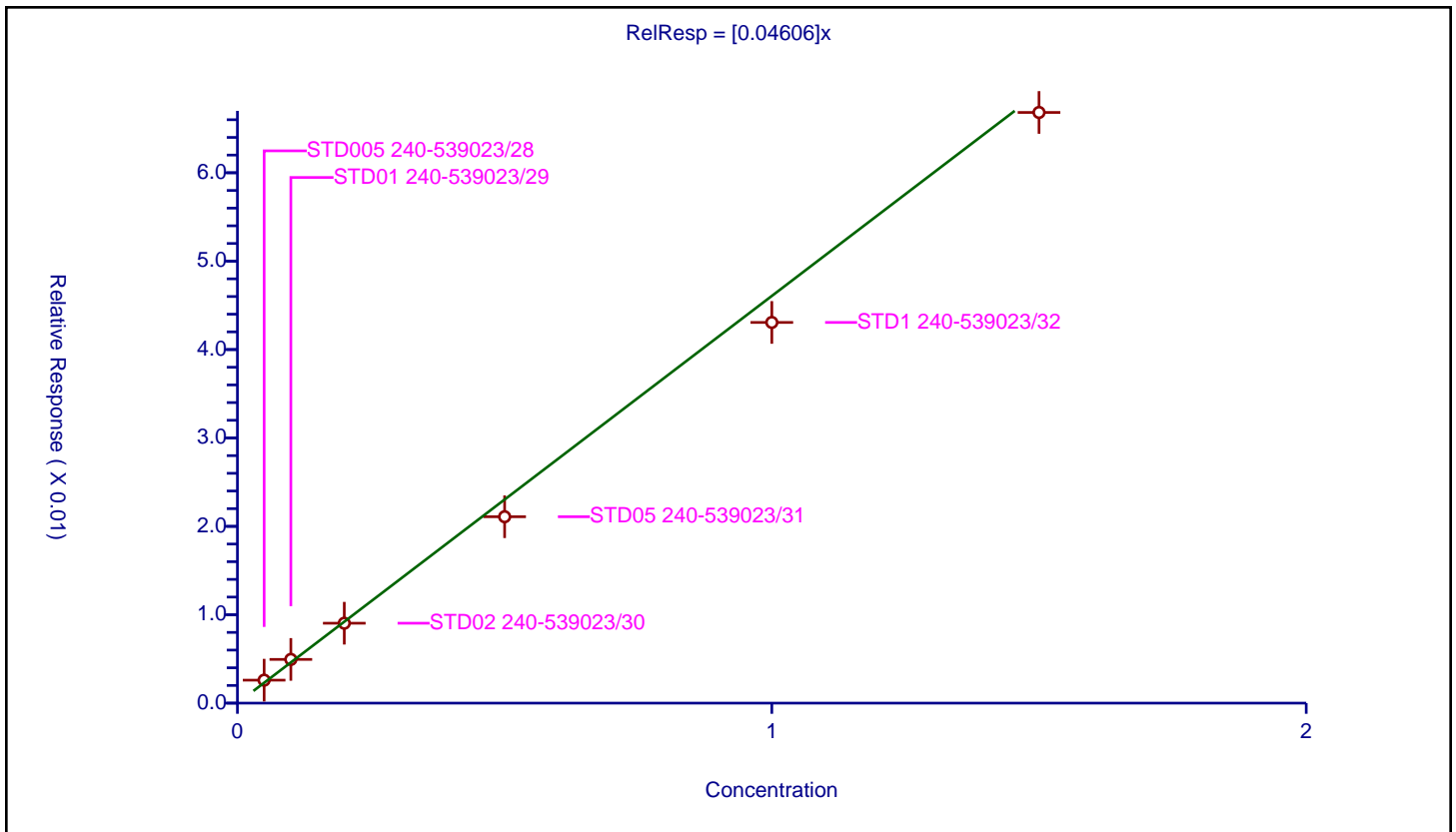
/ PCB-1260 Peak 2

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.04606

Error Coefficients	
Standard Error:	34100000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.002597	0.05	45741383.0	0.051949	Y
2	STD01 240-539023/29	0.1	0.004945	0.05	44805421.0	0.049447	Y
3	STD02 240-539023/30	0.2	0.00904	0.05	46148785.0	0.045202	Y
4	STD05 240-539023/31	0.5	0.021086	0.05	49897257.0	0.042173	Y
5	STD1 240-539023/32	1.0	0.043067	0.05	47994321.0	0.043067	Y
6	STD15 240-539023/33	1.5	0.066821	0.05	44652039.0	0.044547	Y



Calibration

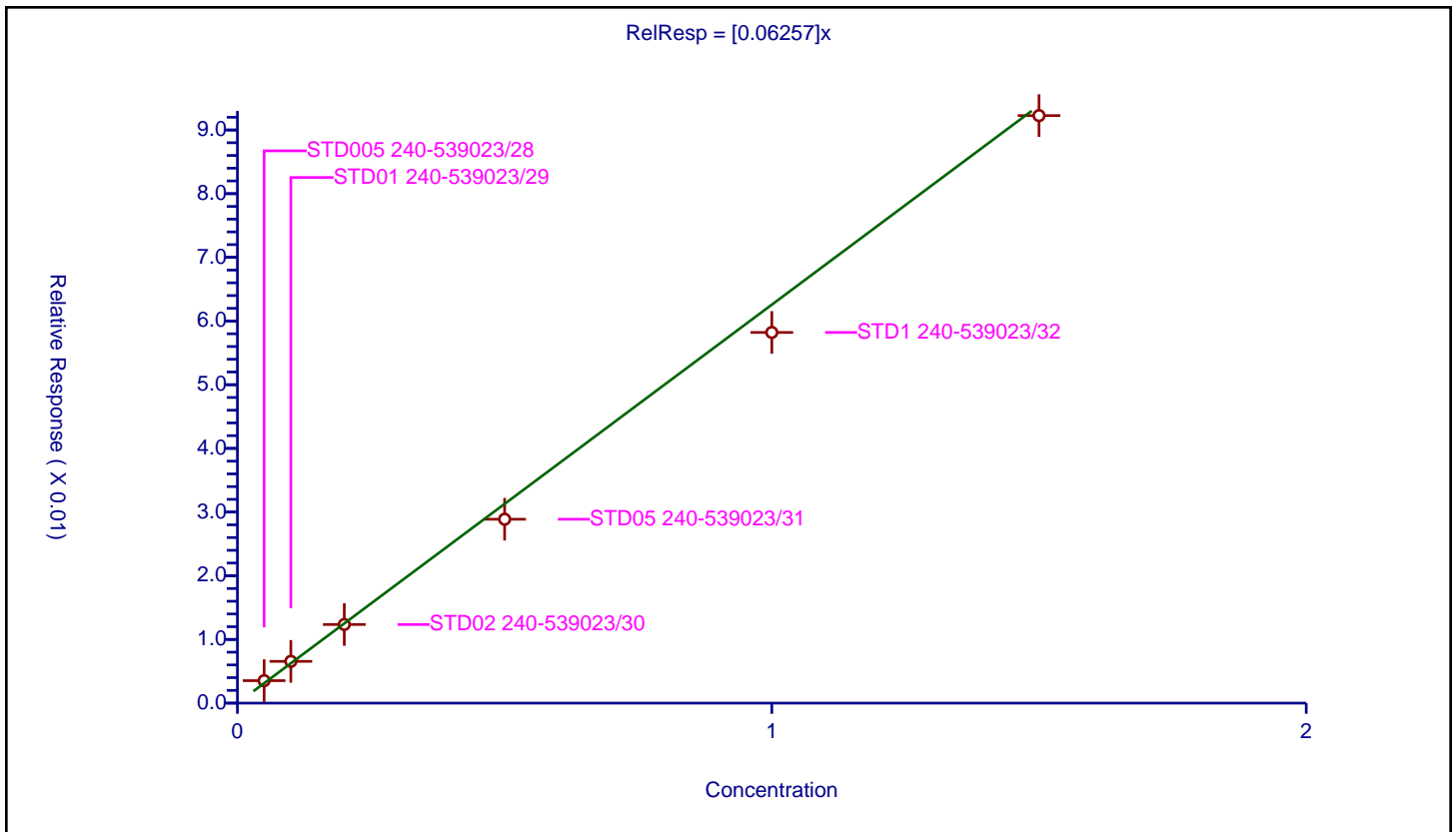
/ PCB-1260 Peak 3

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06257

Error Coefficients	
Standard Error:	46700000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.00353	0.05	45741383.0	0.070609	Y
2	STD01 240-539023/29	0.1	0.006561	0.05	44805421.0	0.065607	Y
3	STD02 240-539023/30	0.2	0.012347	0.05	46148785.0	0.061733	Y
4	STD05 240-539023/31	0.5	0.028878	0.05	49897257.0	0.057756	Y
5	STD1 240-539023/32	1.0	0.058206	0.05	47994321.0	0.058206	Y
6	STD15 240-539023/33	1.5	0.092258	0.05	44652039.0	0.061505	Y



Calibration

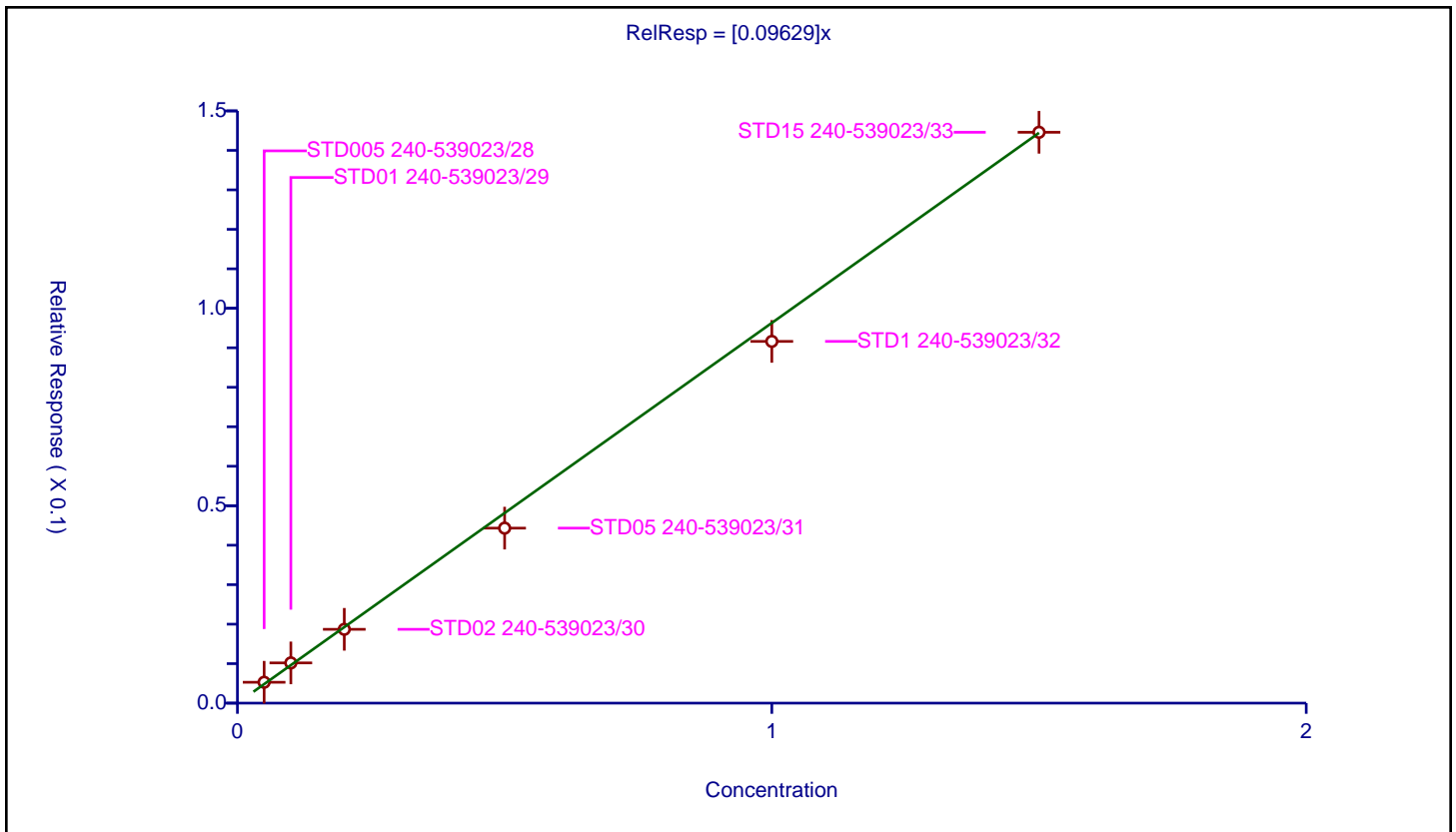
/ PCB-1260 Peak 4

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.09629

Error Coefficients	
Standard Error:	73200000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.005288	0.05	45741383.0	0.10576	Y
2	STD01 240-539023/29	0.1	0.010187	0.05	44805421.0	0.101867	Y
3	STD02 240-539023/30	0.2	0.018696	0.05	46148785.0	0.093478	Y
4	STD05 240-539023/31	0.5	0.044324	0.05	49897257.0	0.088648	Y
5	STD1 240-539023/32	1.0	0.091617	0.05	47994321.0	0.091617	Y
6	STD15 240-539023/33	1.5	0.144584	0.05	44652039.0	0.096389	Y



Calibration

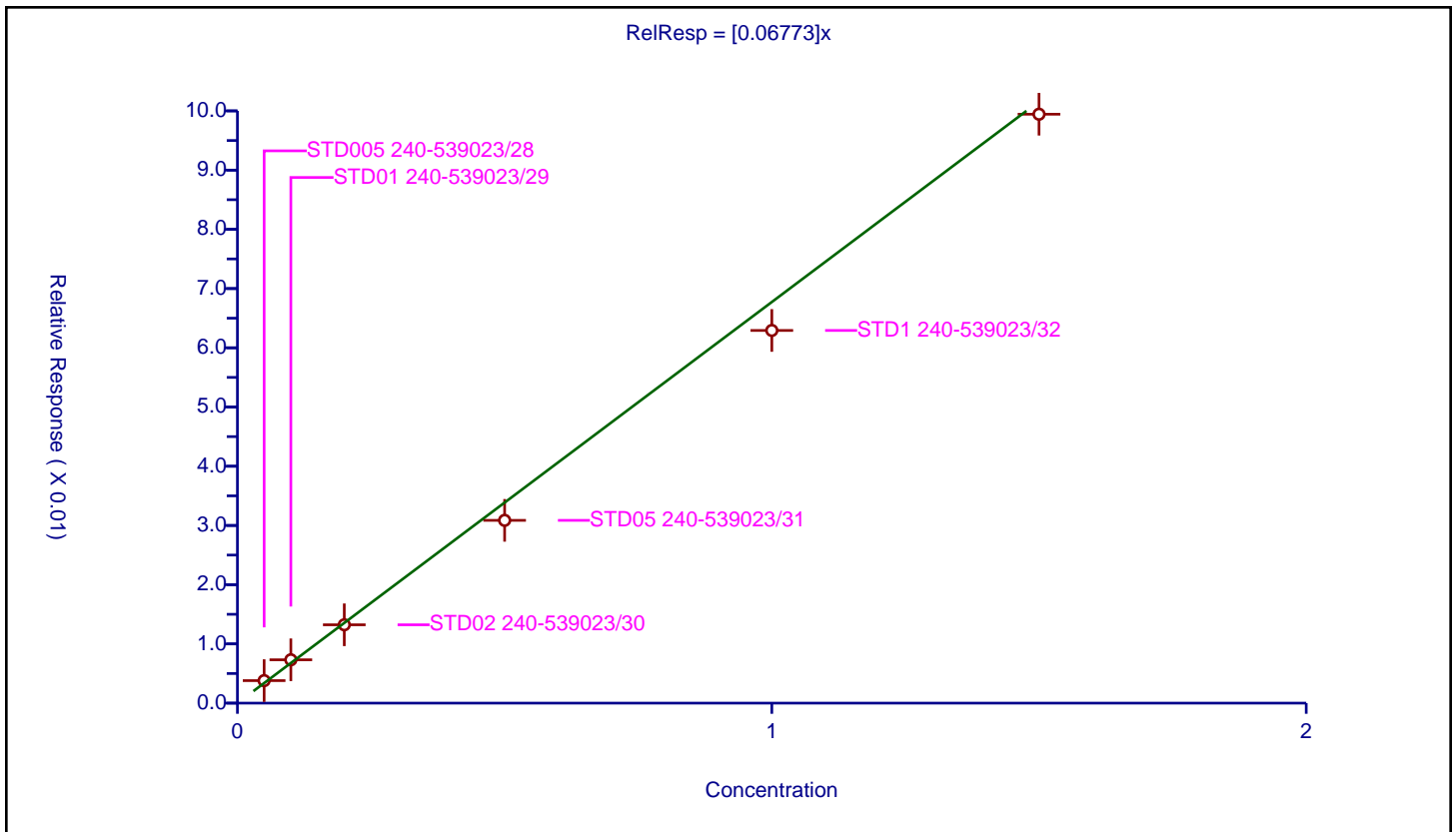
/ PCB-1260 Peak 5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06773

Error Coefficients	
Standard Error:	50400000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.05	0.003804	0.05	45741383.0	0.076089	Y
2	STD01 240-539023/29	0.1	0.007318	0.05	44805421.0	0.07318	Y
3	STD02 240-539023/30	0.2	0.01323	0.05	46148785.0	0.066152	Y
4	STD05 240-539023/31	0.5	0.030862	0.05	49897257.0	0.061725	Y
5	STD1 240-539023/32	1.0	0.062928	0.05	47994321.0	0.062928	Y
6	STD15 240-539023/33	1.5	0.099439	0.05	44652039.0	0.066293	Y



Calibration

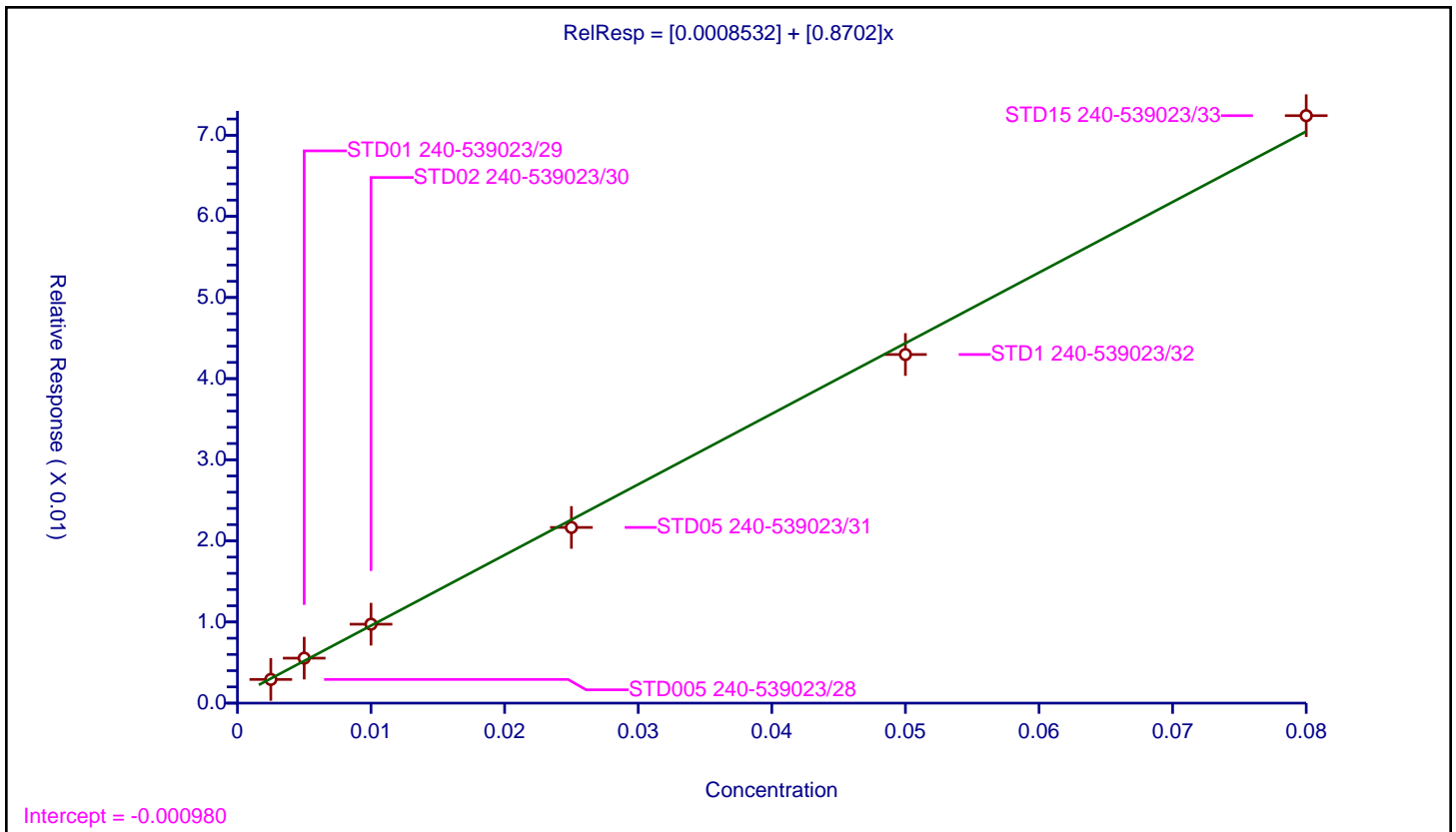
/ DCB Decachlorobiphenyl

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0008532
Slope:	0.8702

Error Coefficients	
Standard Error:	40200000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD005 240-539023/28	0.0025	0.00292	0.05	45741383.0	1.167936	Y
2	STD01 240-539023/29	0.005	0.005543	0.05	44805421.0	1.108638	Y
3	STD02 240-539023/30	0.01	0.00973	0.05	46148785.0	0.973026	Y
4	STD05 240-539023/31	0.025	0.021656	0.05	49897257.0	0.866225	Y
5	STD1 240-539023/32	0.05	0.042971	0.05	47994321.0	0.859419	Y
6	STD15 240-539023/33	0.08	0.072411	0.05	44652039.0	0.905136	Y



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/34 Calibration Date: 08/16/2022 19:06
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081634.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0112	0.0099		0.443	0.500	-11.3	20.0
PCB-1221 Peak 2	Ave	0.0074	0.0066		0.442	0.500	-11.6	20.0
PCB-1221 Peak 3	Ave	0.0268	0.0232		0.433	0.500	-13.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/34 Calibration Date: 08/16/2022 19:06
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081634.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	3.08	3.08	3.12
PCB-1221 Peak 2	3.34	3.34	3.38
PCB-1221 Peak 3	3.40	3.40	3.44

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D
 Lims ID: icv 1221
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:06:44 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-034
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:04:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.744	1.751	-0.007	35144954	0.0500	0.0500	
2	2.014	2.020	-0.007	48959645	0.0500	0.0500	
3 PCB-1221							a
1	3.079	3.097	-0.018	3474521	0.5000	0.4433	
1	3.335	3.356	-0.021	2306197	0.5000	0.4422	a
1	3.402	3.422	-0.020	8145481	0.5000	0.4330	a
Average of Peak Amounts =						0.4395	
2	4.019	4.038	-0.019	4316900	0.5000	0.4195	
2	4.247	4.268	-0.021	3100331	0.5000	0.4520	a
2	4.337	4.357	-0.020	10951048	0.5000	0.4485	a
Average of Peak Amounts =						0.4400	

RPD = 0.12

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG1221ICV@.5_00010

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D

Injection Date: 16-Aug-2022 19:06:44

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1221

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

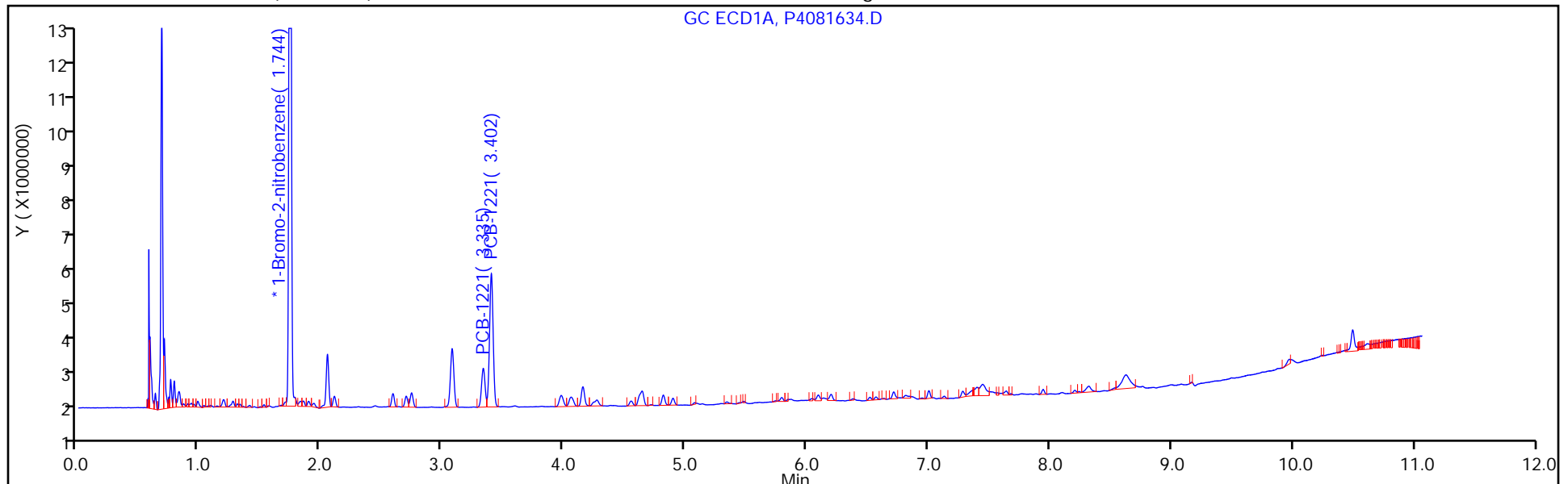
ALS Bottle#: 34

Method: PCB4 is

Limit Group: GC 8082A IS

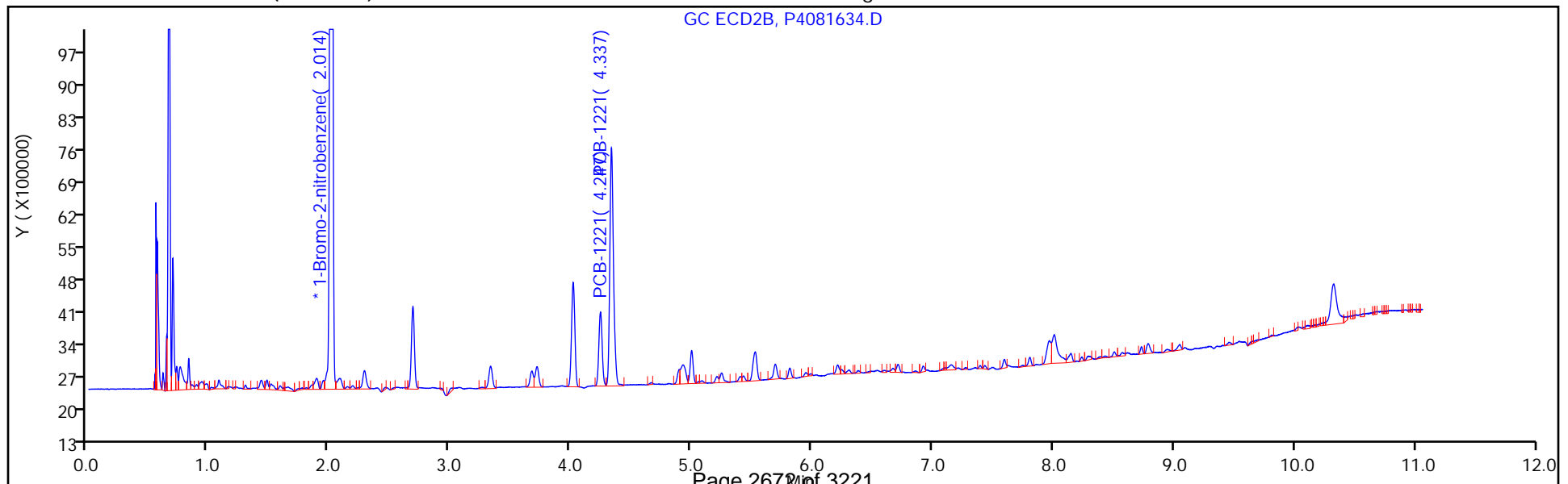
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D

Injection Date: 16-Aug-2022 19:06:44

Instrument ID: A2HP4

Lims ID: icv 1221

Client ID:

Operator ID:

ALS Bottle#: 34

Worklist Smp#: 34

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

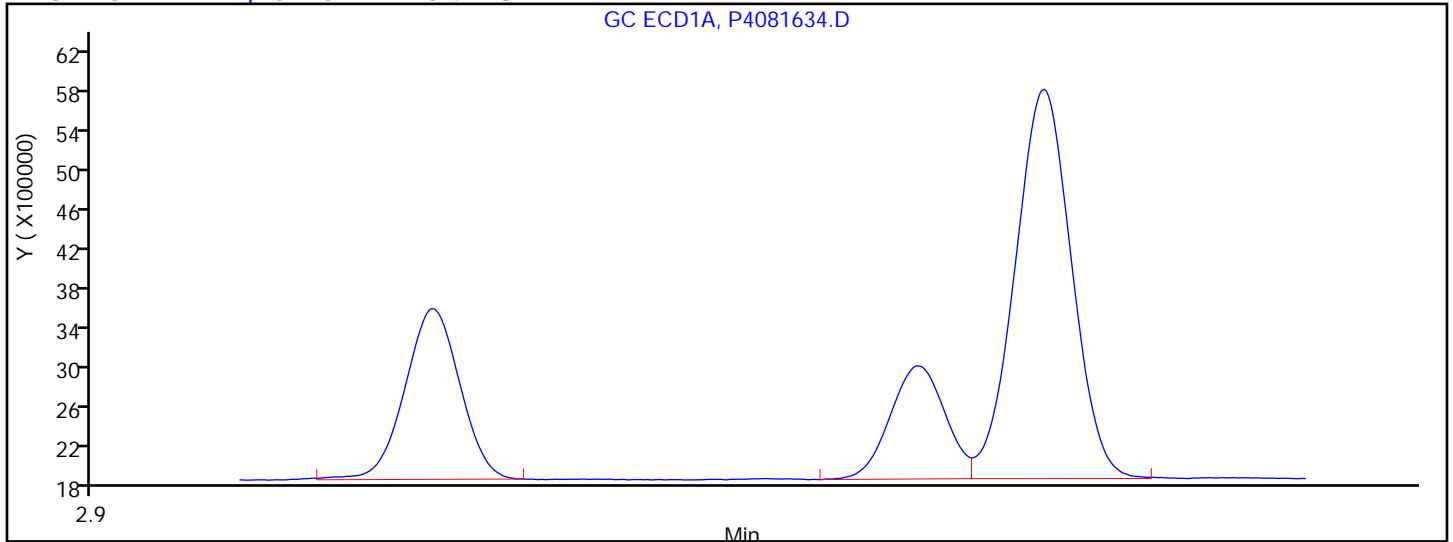
Method: PCB4 is

Limit Group: GC 8082A IS

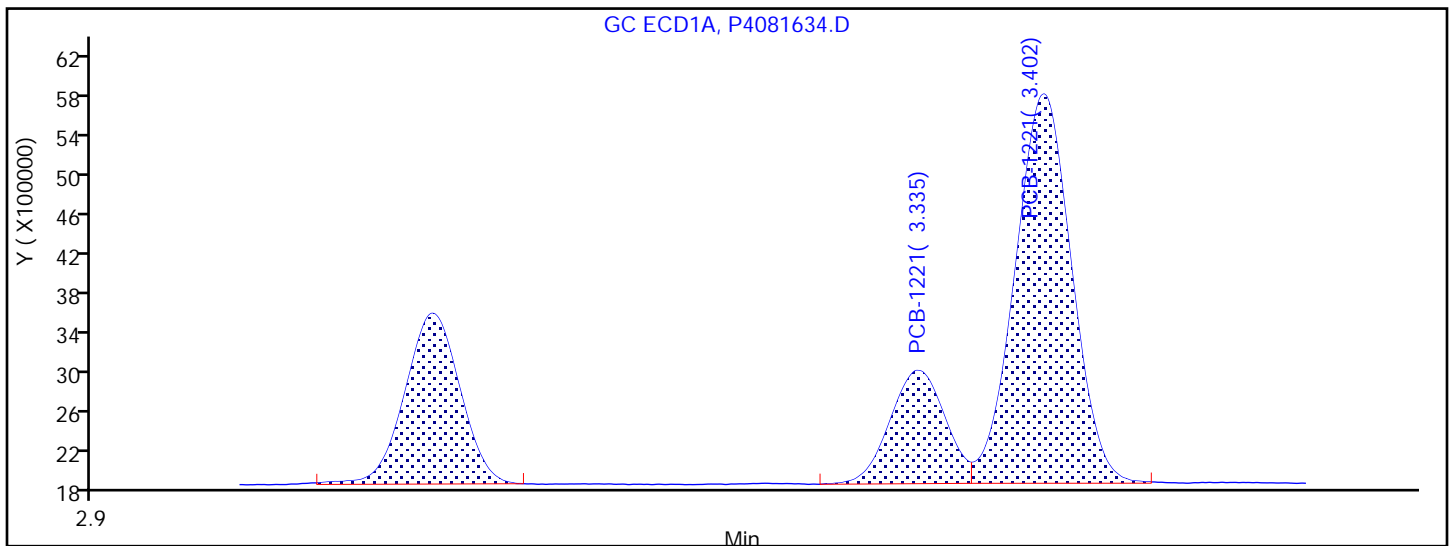
Column: CLP-1 0.53mm ID (0.53 mm)

Detector: GC ECD1A

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results



Manual Integration Results

3.079	Response = 3474521	
3.335	Response = 2306197	M
3.402	Response = 8145481	M

Reviewer: WRR8, 17-Aug-2022 08:04:24

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/34 Calibration Date: 08/16/2022 19:06
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081634.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0105	0.0088		0.420	0.500	-16.1	20.0
PCB-1221 Peak 2	Ave	0.0070	0.0063		0.452	0.500	-9.6	20.0
PCB-1221 Peak 3	Ave	0.0249	0.0224		0.449	0.500	-10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/34 Calibration Date: 08/16/2022 19:06
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081634.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.02	4.02	4.06
PCB-1221 Peak 2	4.25	4.25	4.29
PCB-1221 Peak 3	4.34	4.34	4.38

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D
 Lims ID: icv 1221
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:06:44 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-034
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:04:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.744	1.751	-0.007	35144954	0.0500	0.0500	
2	2.014	2.020	-0.007	48959645	0.0500	0.0500	
3 PCB-1221							
1	3.079	3.097	-0.018	3474521	0.5000	0.4433	a
1	3.335	3.356	-0.021	2306197	0.5000	0.4422	a
1	3.402	3.422	-0.020	8145481	0.5000	0.4330	a
Average of Peak Amounts =						0.4395	
2	4.019	4.038	-0.019	4316900	0.5000	0.4195	
2	4.247	4.268	-0.021	3100331	0.5000	0.4520	a
2	4.337	4.357	-0.020	10951048	0.5000	0.4485	a
Average of Peak Amounts =						0.4400	
RPD = 0.12							

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG1221ICV@.5_00010

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D

Injection Date: 16-Aug-2022 19:06:44

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1221

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

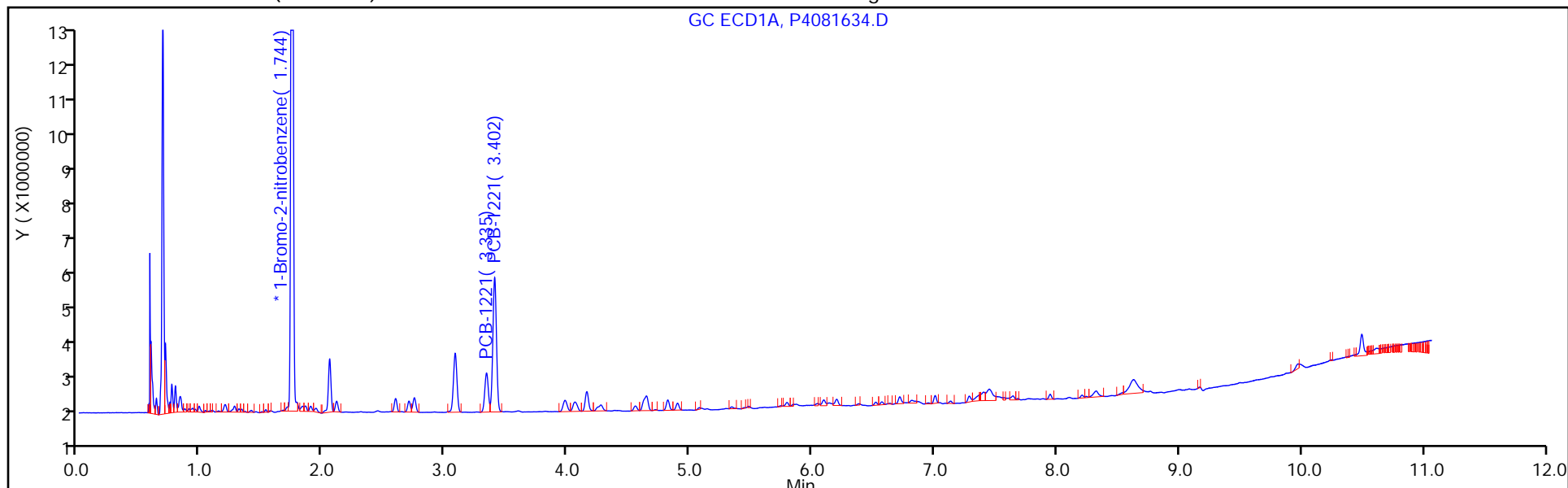
ALS Bottle#: 34

Method: PCB4 is

Limit Group: GC 8082A IS

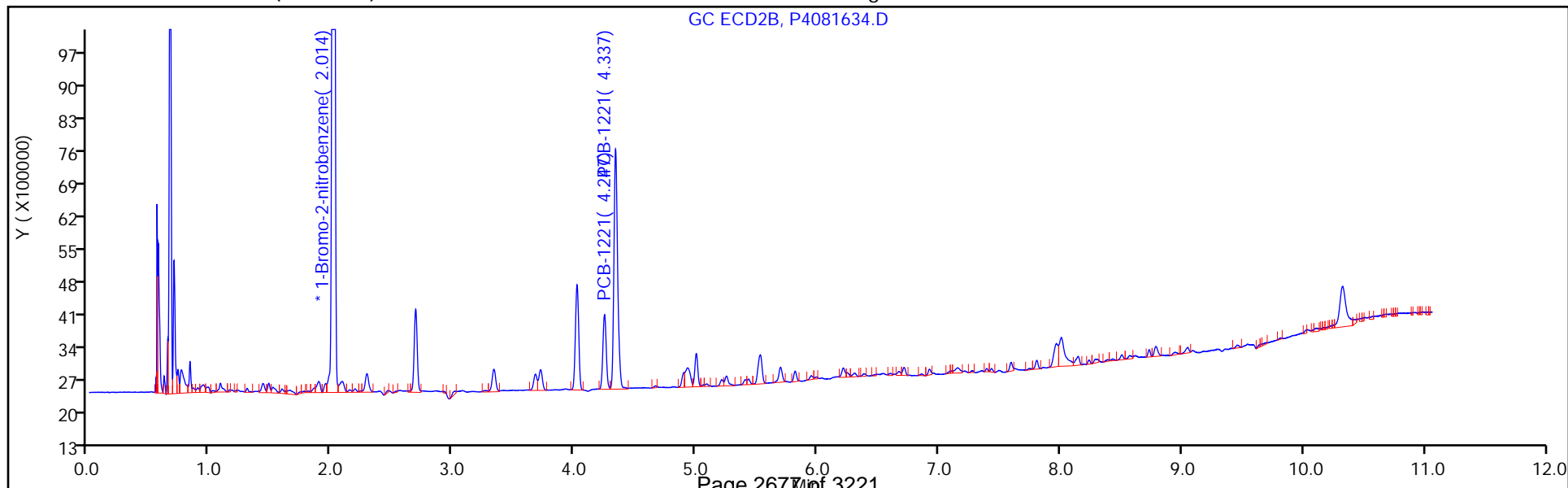
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081634.D

Injection Date: 16-Aug-2022 19:06:44

Instrument ID: A2HP4

Lims ID: icv 1221

Client ID:

Operator ID:

ALS Bottle#: 34

Worklist Smp#: 34

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

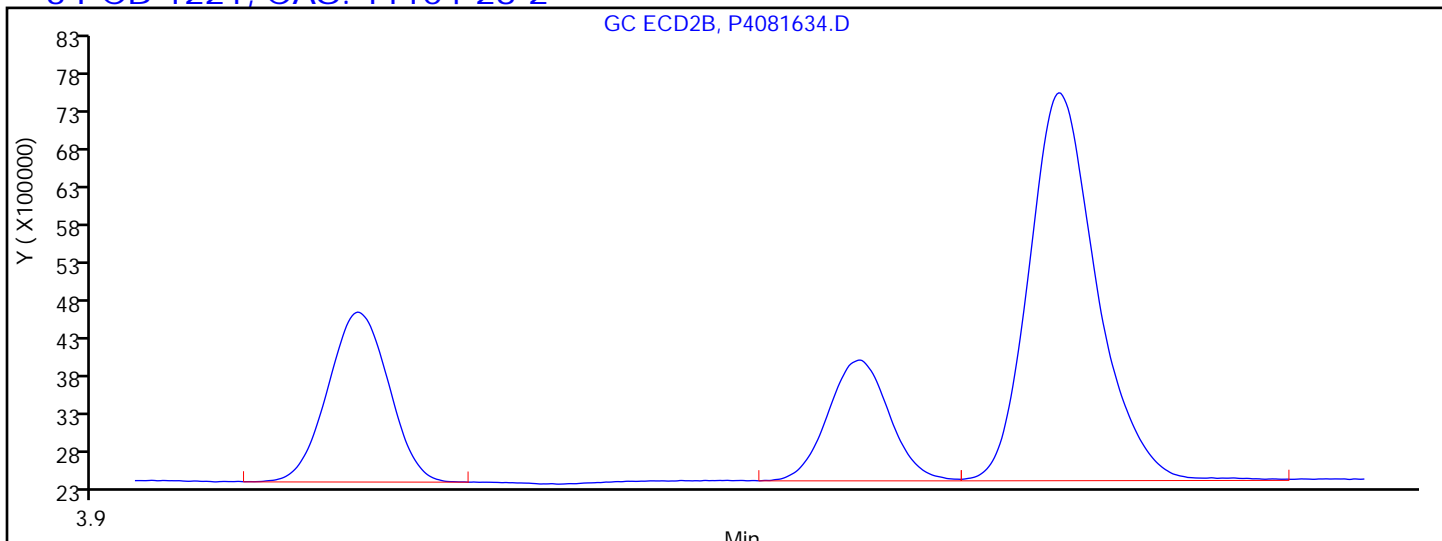
Method: PCB4 is

Limit Group: GC 8082A IS

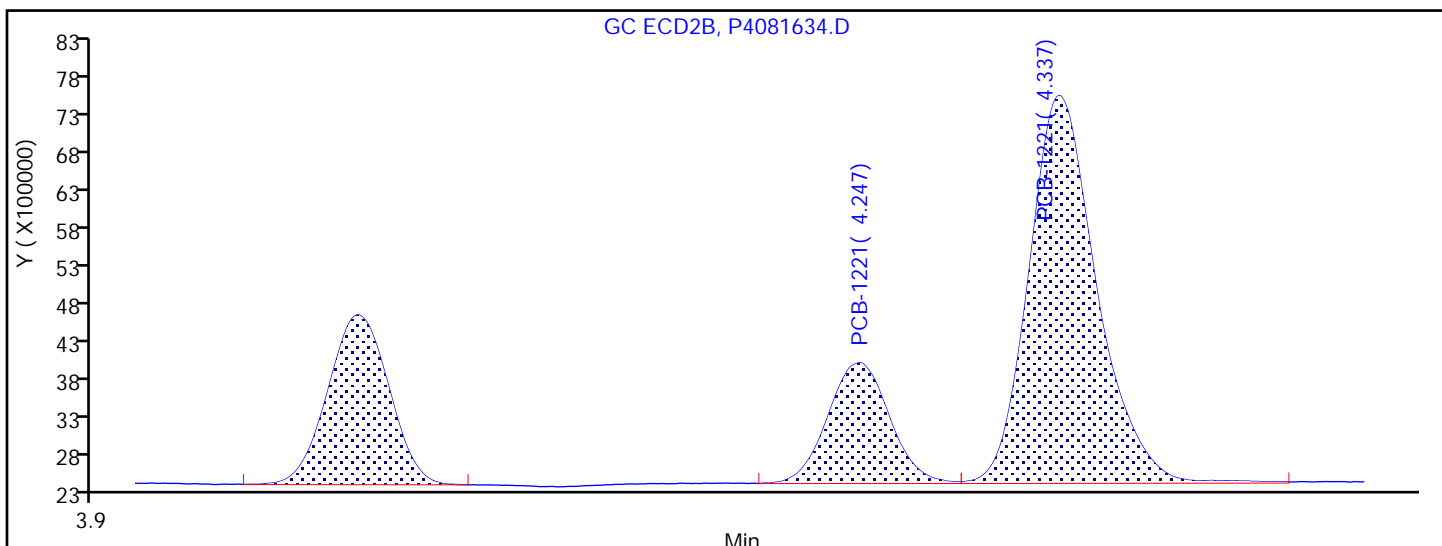
Column: CLP-2 0.53mm ID (0.53 mm)

Detector: GC ecd2b

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results



Manual Integration Results

4.019	Response = 4316900	
4.247	Response = 3100331	M
4.337	Response = 10951048	M

Reviewer: WRR8, 17-Aug-2022 08:04:32

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/35 Calibration Date: 08/16/2022 19:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081635.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0218	0.0197		0.452	0.500	-9.7	20.0
PCB-1232 Peak 2	Ave	0.0166	0.0160		0.482	0.500	-3.5	20.0
PCB-1232 Peak 3	Ave	0.0350	0.0350		0.501	0.500	0.1	20.0
PCB-1232 Peak 4	Ave	0.0151	0.0152		0.502	0.500	0.5	20.0
PCB-1232 Peak 5	Ave	0.0054	0.0055		0.514	0.500	2.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/35 Calibration Date: 08/16/2022 19:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081635.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.41	3.39	3.43
PCB-1232 Peak 2	3.99	3.97	4.01
PCB-1232 Peak 3	4.65	4.63	4.67
PCB-1232 Peak 4	4.83	4.81	4.85
PCB-1232 Peak 5	5.15	5.13	5.17

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081635.D
 Lims ID: icv 1232
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:24:11 ALS Bottle#: 35 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-035
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:06:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.752	1.751	0.001	36277088	0.0500	0.0500	
2	2.022	2.020	0.001	50811913	0.0500	0.0500	
4 PCB-1232							
1	3.413	3.411	0.002	7150763	0.5000	0.4515	
1	3.987	3.986	0.001	5795136	0.5000	0.4823	
1	4.654	4.653	0.001	12714798	0.5000	0.5007	
1	4.828	4.829	-0.001	5504370	0.5000	0.5023	
1	5.149	5.151	-0.002	2011400	0.5000	0.5138	
Average of Peak Amounts =						0.4901	
2	4.349	4.348	0.001	9638147	0.5000	0.4650	
2	4.946	4.945	0.001	7972425	0.5000	0.4998	
2	5.538	5.537	0.001	15911824	0.5000	0.5003	
2	5.704	5.703	0.001	6596893	0.5000	0.5140	
2	6.001	5.999	0.002	3342839	0.5000	0.5412	
Average of Peak Amounts =						0.5041	
						RPD = 2.81	

Reagents:

SG1232ICV@.5_00010 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081635.D

Injection Date: 16-Aug-2022 19:24:11

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1232

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

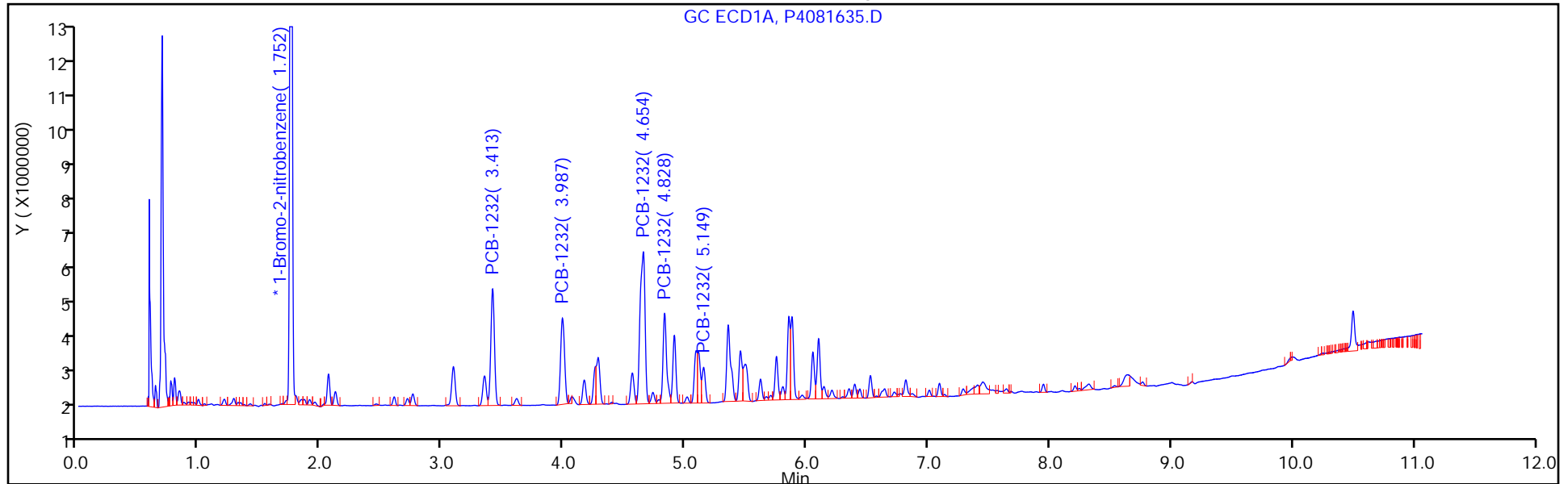
ALS Bottle#: 35

Method: PCB4 is

Limit Group: GC 8082A IS

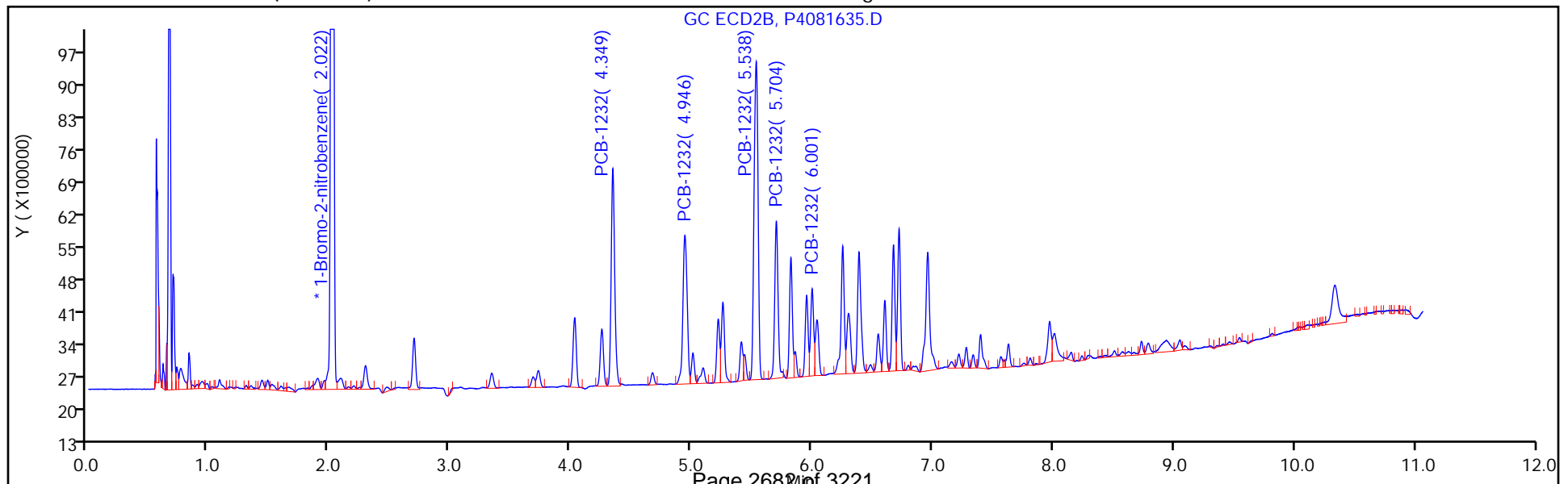
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/35 Calibration Date: 08/16/2022 19:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081635.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0204	0.0190		0.465	0.500	-7.0	20.0
PCB-1232 Peak 2	Ave	0.0157	0.0157		0.500	0.500	-0.0	20.0
PCB-1232 Peak 3	Ave	0.0313	0.0313		0.500	0.500	0.0	20.0
PCB-1232 Peak 4	Ave	0.0126	0.0130		0.514	0.500	2.8	20.0
PCB-1232 Peak 5	Ave	0.0061	0.0066		0.541	0.500	8.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/35 Calibration Date: 08/16/2022 19:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081635.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.35	4.33	4.37
PCB-1232 Peak 2	4.95	4.93	4.96
PCB-1232 Peak 3	5.54	5.52	5.56
PCB-1232 Peak 4	5.70	5.68	5.72
PCB-1232 Peak 5	6.00	5.98	6.02

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081635.D
 Lims ID: icv 1232
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:24:11 ALS Bottle#: 35 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-035
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:06:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.752	1.751	0.001	36277088	0.0500	0.0500	
2	2.022	2.020	0.001	50811913	0.0500	0.0500	
4 PCB-1232							
1	3.413	3.411	0.002	7150763	0.5000	0.4515	
1	3.987	3.986	0.001	5795136	0.5000	0.4823	
1	4.654	4.653	0.001	12714798	0.5000	0.5007	
1	4.828	4.829	-0.001	5504370	0.5000	0.5023	
1	5.149	5.151	-0.002	2011400	0.5000	0.5138	
Average of Peak Amounts =						0.4901	
2	4.349	4.348	0.001	9638147	0.5000	0.4650	
2	4.946	4.945	0.001	7972425	0.5000	0.4998	
2	5.538	5.537	0.001	15911824	0.5000	0.5003	
2	5.704	5.703	0.001	6596893	0.5000	0.5140	
2	6.001	5.999	0.002	3342839	0.5000	0.5412	
Average of Peak Amounts =						0.5041	
						RPD = 2.81	

Reagents:

SG1232ICV@.5_00010 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081635.D

Injection Date: 16-Aug-2022 19:24:11

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1232

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

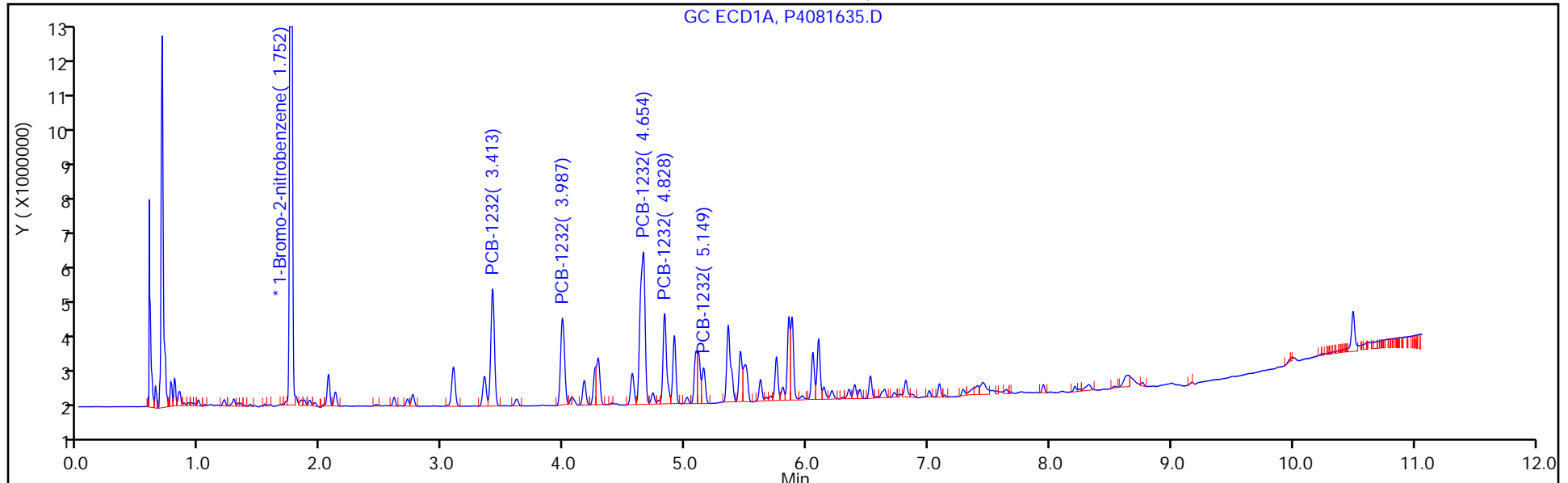
ALS Bottle#: 35

Method: PCB4 is

Limit Group: GC 8082A IS

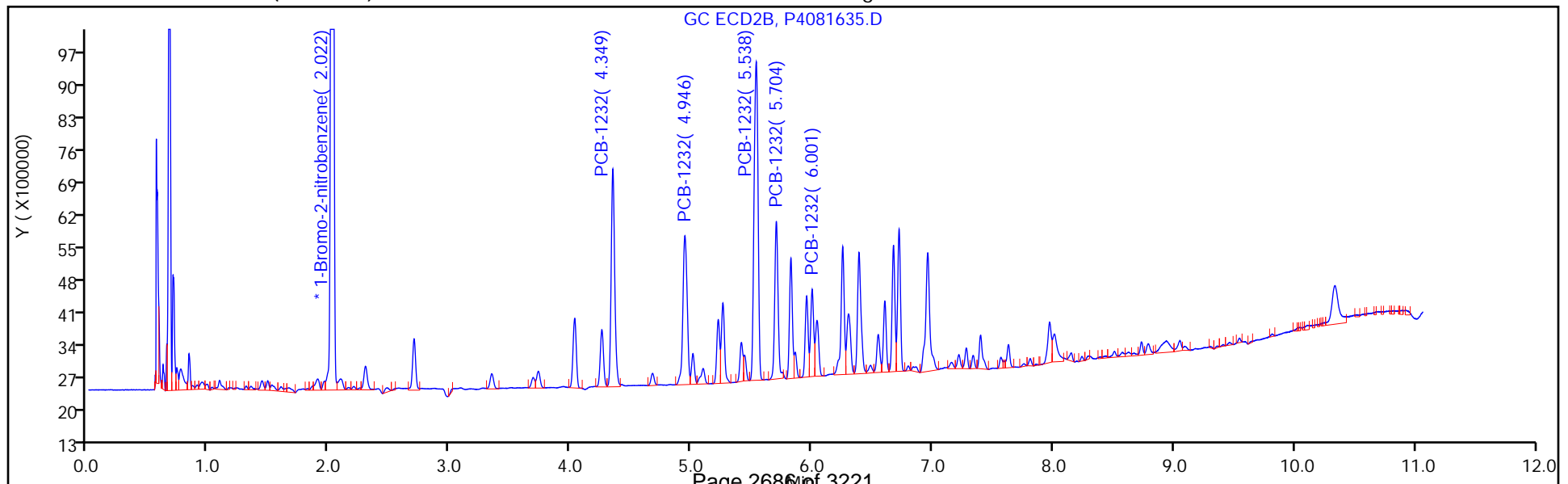
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/36 Calibration Date: 08/16/2022 19:41
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081636.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0160	0.0148		0.465	0.500	-7.0	20.0
PCB-1242 Peak 2	Ave	0.0303	0.0283		0.467	0.500	-6.6	20.0
PCB-1242 Peak 3	Ave	0.0660	0.0619		0.469	0.500	-6.3	20.0
PCB-1242 Peak 4	Ave	0.0285	0.0268		0.470	0.500	-5.9	20.0
PCB-1242 Peak 5	Ave	0.0118	0.0110		0.470	0.500	-6.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/36 Calibration Date: 08/16/2022 19:41
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081636.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.41	3.40	3.44
PCB-1242 Peak 2	3.99	3.97	4.01
PCB-1242 Peak 3	4.65	4.64	4.68
PCB-1242 Peak 4	4.83	4.82	4.85
PCB-1242 Peak 5	5.15	5.13	5.17

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081636.D
 Lims ID: icv 1242
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:41:35 ALS Bottle#: 36 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-036
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:06:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.752	1.751	0.001	35590553	0.0500	0.0500	
2	2.022	2.020	0.002	49241227	0.0500	0.0500	
5 PCB-1242							
1	3.414	3.417	-0.003	5283462	0.5000	0.4649	
1	3.987	3.993	-0.006	10056191	0.5000	0.4669	
1	4.653	4.660	-0.007	22017300	0.5000	0.4687	
1	4.828	4.834	-0.006	9543521	0.5000	0.4705	
1	5.148	5.153	-0.005	3930685	0.5000	0.4698	
Average of Peak Amounts =						0.4682	
2	4.348	4.355	-0.007	7145769	0.5000	0.4904	
2	4.945	4.952	-0.007	13047390	0.5000	0.4822	
2	5.538	5.540	-0.002	27680184	0.5000	0.4762	
2	5.703	5.707	-0.004	11141879	0.5000	0.4711	
2	6.002	6.005	-0.003	6494769	0.5000	0.4761	
Average of Peak Amounts =						0.4792	
						RPD = 2.33	

Reagents:

SG1242ICV@.5_00009 Amount Added: 1.00 Units: mL

Report Date: 17-Aug-2022 08:13:49

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081636.D

Injection Date: 16-Aug-2022 19:41:35

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1242

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

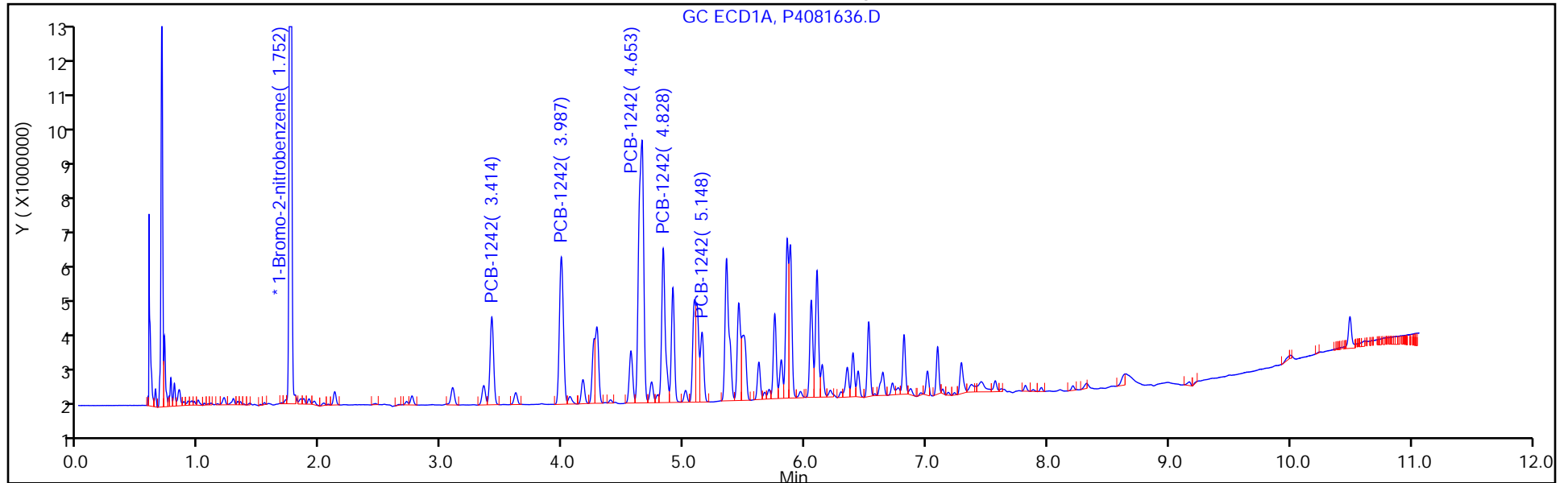
ALS Bottle#: 36

Method: PCB4 is

Limit Group: GC 8082A IS

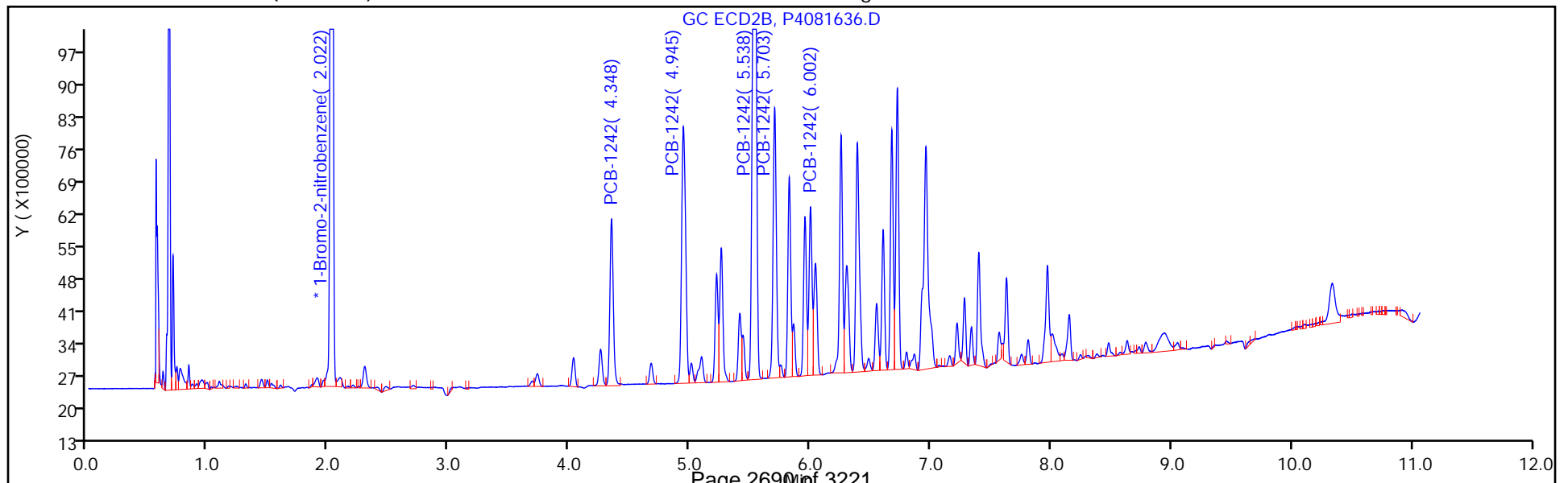
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/36 Calibration Date: 08/16/2022 19:41
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081636.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0148	0.0145		0.490	0.500	-1.9	20.0
PCB-1242 Peak 2	Ave	0.0275	0.0265		0.482	0.500	-3.6	20.0
PCB-1242 Peak 3	Ave	0.0590	0.0562		0.476	0.500	-4.8	20.0
PCB-1242 Peak 4	Ave	0.0240	0.0226		0.471	0.500	-5.8	20.0
PCB-1242 Peak 5	Ave	0.0139	0.0132		0.476	0.500	-4.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/36 Calibration Date: 08/16/2022 19:41
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081636.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.35	4.34	4.37
PCB-1242 Peak 2	4.95	4.93	4.97
PCB-1242 Peak 3	5.54	5.52	5.56
PCB-1242 Peak 4	5.70	5.69	5.73
PCB-1242 Peak 5	6.00	5.99	6.02

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081636.D
 Lims ID: icv 1242
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:41:35 ALS Bottle#: 36 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-036
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:06:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.752	1.751	0.001	35590553	0.0500	0.0500	
2	2.022	2.020	0.002	49241227	0.0500	0.0500	
5 PCB-1242							
1	3.414	3.417	-0.003	5283462	0.5000	0.4649	
1	3.987	3.993	-0.006	10056191	0.5000	0.4669	
1	4.653	4.660	-0.007	22017300	0.5000	0.4687	
1	4.828	4.834	-0.006	9543521	0.5000	0.4705	
1	5.148	5.153	-0.005	3930685	0.5000	0.4698	
Average of Peak Amounts =						0.4682	
2	4.348	4.355	-0.007	7145769	0.5000	0.4904	
2	4.945	4.952	-0.007	13047390	0.5000	0.4822	
2	5.538	5.540	-0.002	27680184	0.5000	0.4762	
2	5.703	5.707	-0.004	11141879	0.5000	0.4711	
2	6.002	6.005	-0.003	6494769	0.5000	0.4761	
Average of Peak Amounts =						0.4792	
RPD = 2.33							

Reagents:

SG1242ICV@.5_00009 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081636.D

Injection Date: 16-Aug-2022 19:41:35

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1242

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

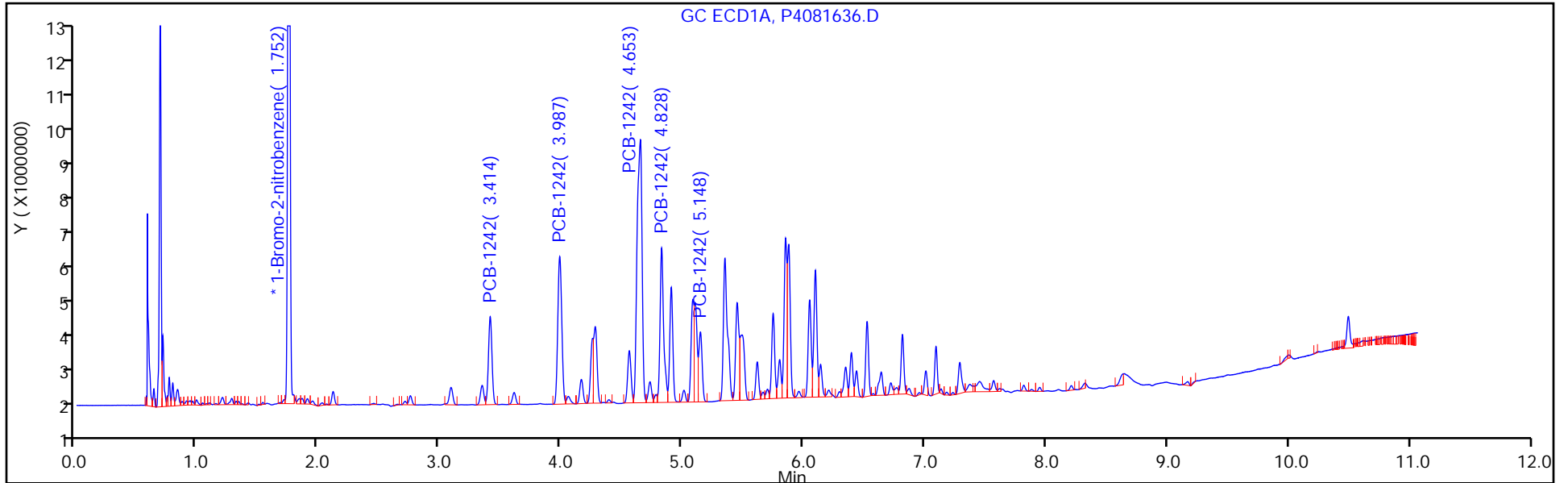
ALS Bottle#: 36

Method: PCB4 is

Limit Group: GC 8082A IS

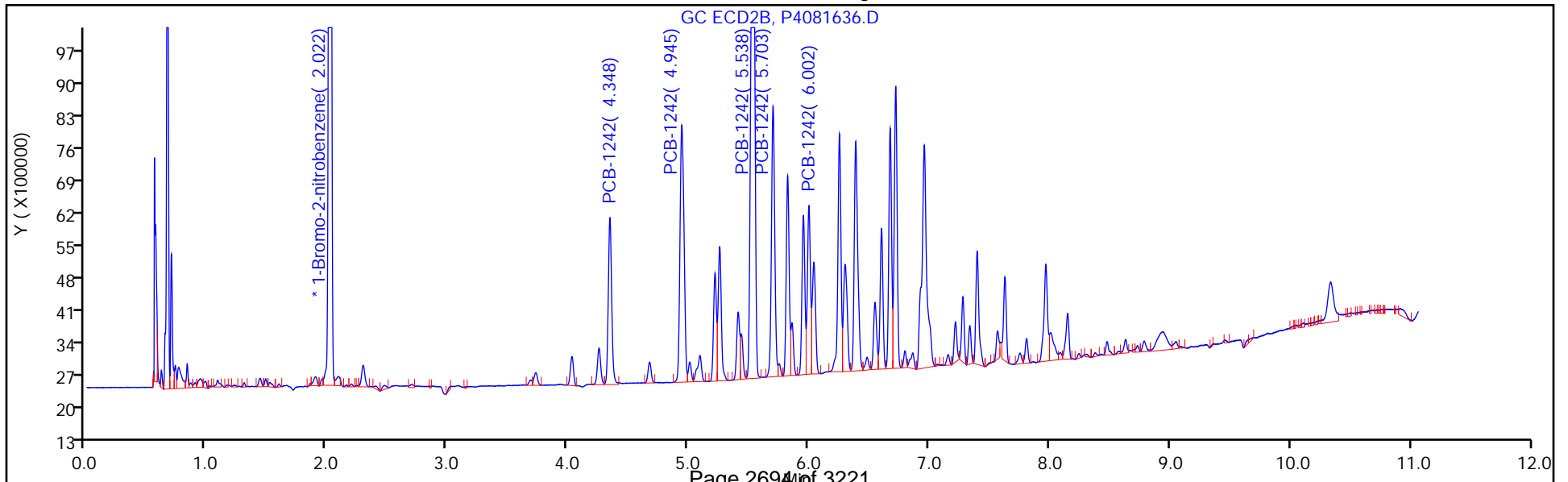
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/37 Calibration Date: 08/16/2022 19:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4081637.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0141	0.0136		0.482	0.500	-3.6	20.0
PCB-1248 Peak 2	Ave	0.0389	0.0383		0.493	0.500	-1.4	20.0
PCB-1248 Peak 3	Ave	0.0425	0.0407		0.479	0.500	-4.1	20.0
PCB-1248 Peak 4	Ave	0.0332	0.0314		0.472	0.500	-5.5	20.0
PCB-1248 Peak 5	Ave	0.0211	0.0210		0.497	0.500	-0.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/37 Calibration Date: 08/16/2022 19:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4081637.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.99	3.97	4.01
PCB-1248 Peak 2	4.65	4.64	4.68
PCB-1248 Peak 3	5.35	5.34	5.37
PCB-1248 Peak 4	6.10	6.08	6.12
PCB-1248 Peak 5	6.52	6.51	6.55

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081637.D
 Lims ID: icv 1248
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:59:01 ALS Bottle#: 37 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-037
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:07:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.754	1.751	0.003	35041887	0.0500	0.0500	
2	2.024	2.020	0.004	49071703	0.0500	0.0500	
7 PCB-1248							
1	3.990	3.990	0.000	4757594	0.5000	0.4818	M
1	4.654	4.656	-0.002	13429267	0.5000	0.4931	M
1	5.352	5.355	-0.003	14262761	0.5000	0.4793	
1	6.097	6.101	-0.004	10989014	0.5000	0.4724	
1	6.522	6.528	-0.006	7357096	0.5000	0.4973	
Average of Peak Amounts =						0.4847	
2	4.946	4.947	-0.001	6076045	0.5000	0.4927	
2	5.535	5.536	-0.001	16958219	0.5000	0.4944	
2	6.389	6.395	-0.006	14790818	0.5000	0.5027	
2	6.720	6.727	-0.007	17196744	0.5000	0.5069	
2	7.393	7.403	-0.010	9001326	0.5000	0.5176	
Average of Peak Amounts =						0.5029	
RPD = 3.67							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248ICV@.5_00010

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081637.D

Injection Date: 16-Aug-2022 19:59:01

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1248

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

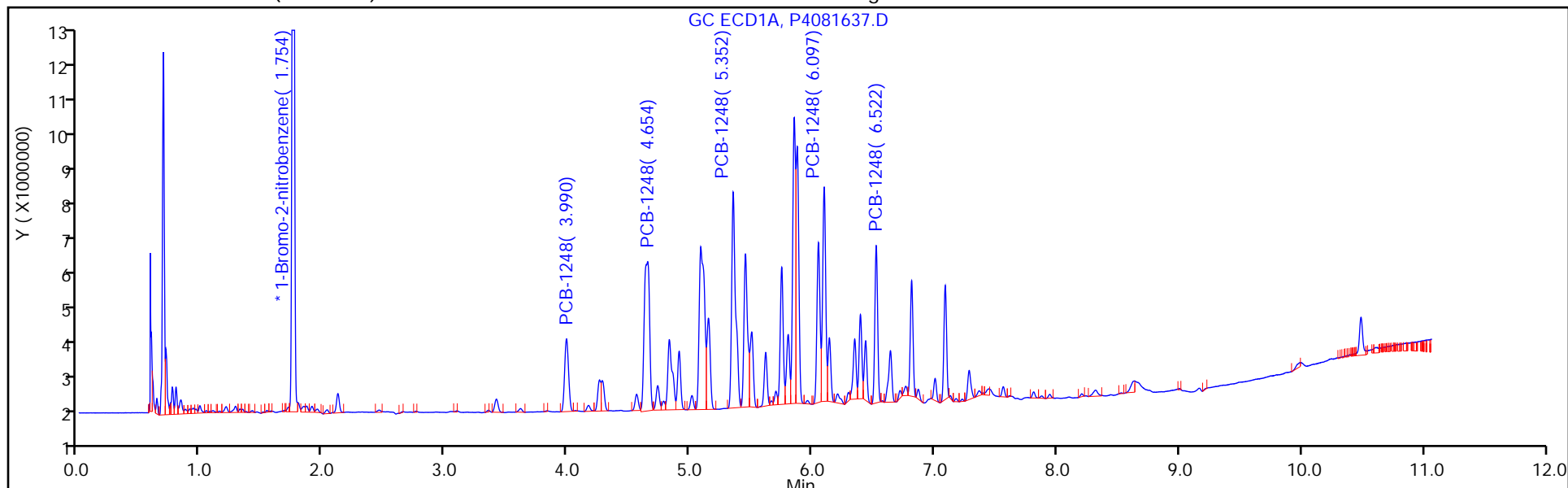
ALS Bottle#: 37

Method: PCB4 is

Limit Group: GC 8082A IS

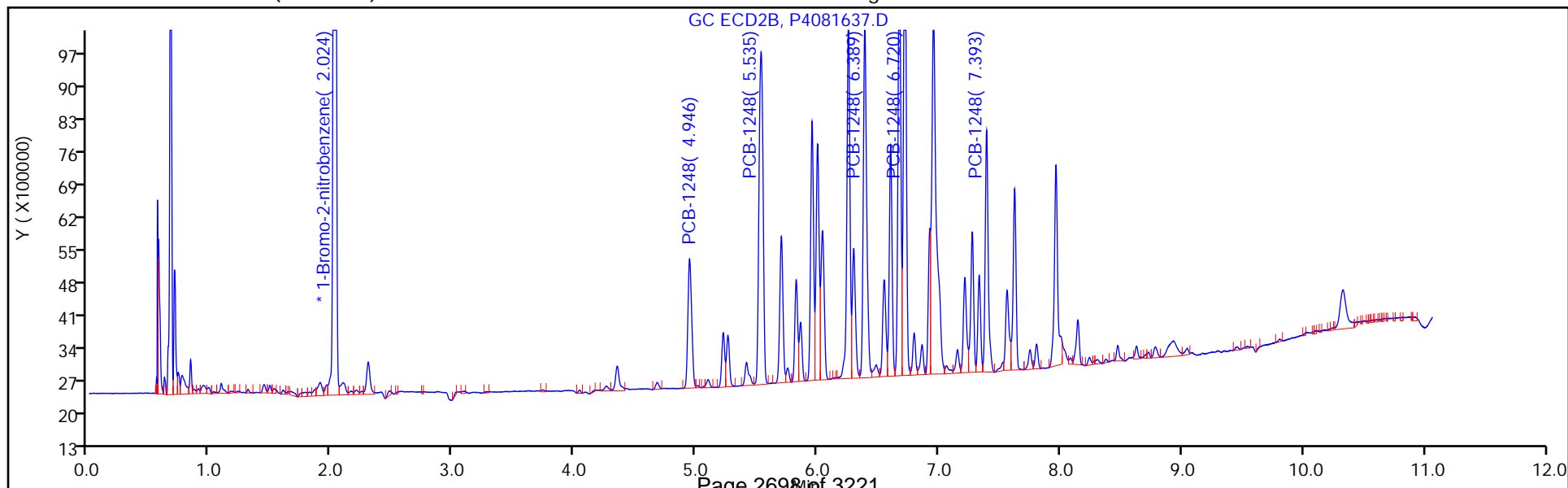
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081637.D

Injection Date: 16-Aug-2022 19:59:01

Instrument ID: A2HP4

Lims ID: icv 1248

Client ID:

Operator ID:

ALS Bottle#: 37

Worklist Smp#: 37

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

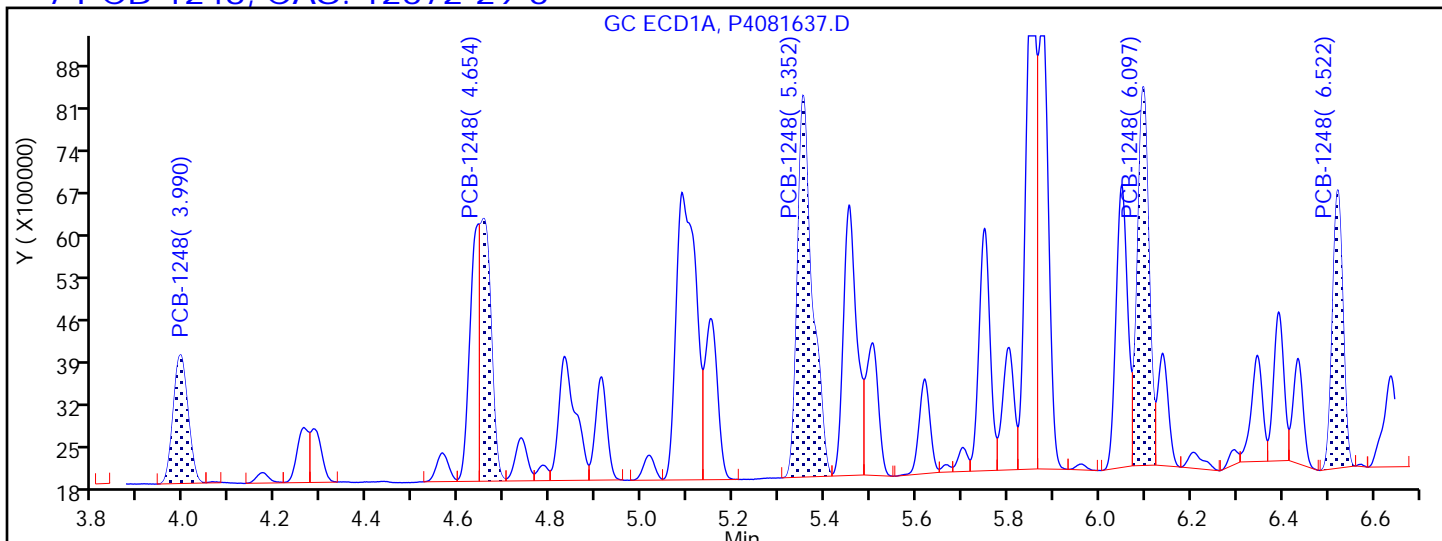
Method: PCB4 is

Limit Group: GC 8082A IS

Column: CLP-1 0.53mm ID (0.53 mm)

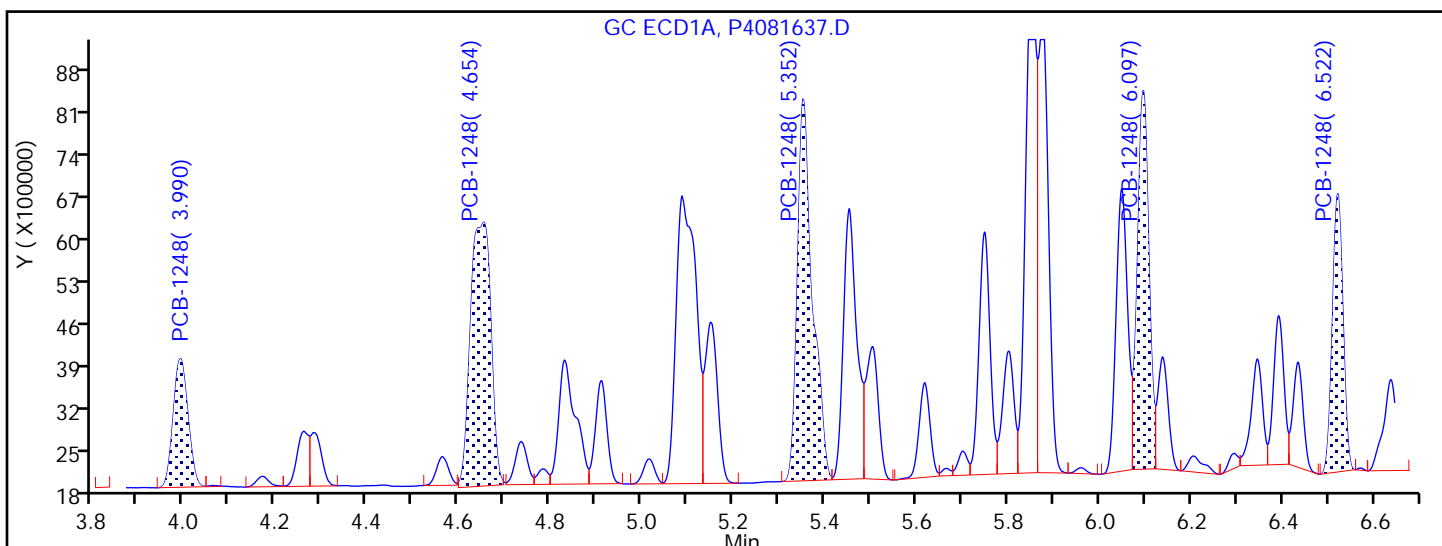
Detector: GC ECD1A

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.990	Response = 4757594
4.654	Response = 7435935
5.352	Response = 14262761
6.097	Response = 10989014
6.522	Response = 7357096



Manual Integration Results

3.990	Response = 4757594	
4.654	Response = 13429267	M
5.352	Response = 14262761	
6.097	Response = 10989014	
6.522	Response = 7357096	

Reviewer: WRR8, 17-Aug-2022 08:06:48

Audit Action: Manually Integrated

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/37 Calibration Date: 08/16/2022 19:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4081637.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0126	0.0124		0.493	0.500	-1.5	20.0
PCB-1248 Peak 2	Ave	0.0349	0.0346		0.494	0.500	-1.1	20.0
PCB-1248 Peak 3	Ave	0.0300	0.0301		0.503	0.500	0.5	20.0
PCB-1248 Peak 4	Ave	0.0346	0.0350		0.507	0.500	1.4	20.0
PCB-1248 Peak 5	Ave	0.0177	0.0183		0.518	0.500	3.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/37 Calibration Date: 08/16/2022 19:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4081637.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.95	4.93	4.97
PCB-1248 Peak 2	5.54	5.52	5.56
PCB-1248 Peak 3	6.39	6.38	6.41
PCB-1248 Peak 4	6.72	6.71	6.75
PCB-1248 Peak 5	7.39	7.38	7.42

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081637.D
 Lims ID: icv 1248
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 19:59:01 ALS Bottle#: 37 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-037
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:07:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.754	1.751	0.003	35041887	0.0500	0.0500	
2	2.024	2.020	0.004	49071703	0.0500	0.0500	
7 PCB-1248							
1	3.990	3.990	0.000	4757594	0.5000	0.4818	M
1	4.654	4.656	-0.002	13429267	0.5000	0.4931	M
1	5.352	5.355	-0.003	14262761	0.5000	0.4793	
1	6.097	6.101	-0.004	10989014	0.5000	0.4724	
1	6.522	6.528	-0.006	7357096	0.5000	0.4973	
Average of Peak Amounts =						0.4847	
2	4.946	4.947	-0.001	6076045	0.5000	0.4927	
2	5.535	5.536	-0.001	16958219	0.5000	0.4944	
2	6.389	6.395	-0.006	14790818	0.5000	0.5027	
2	6.720	6.727	-0.007	17196744	0.5000	0.5069	
2	7.393	7.403	-0.010	9001326	0.5000	0.5176	
Average of Peak Amounts =						0.5029	
						RPD = 3.67	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248ICV@.5_00010

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081637.D

Injection Date: 16-Aug-2022 19:59:01

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1248

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

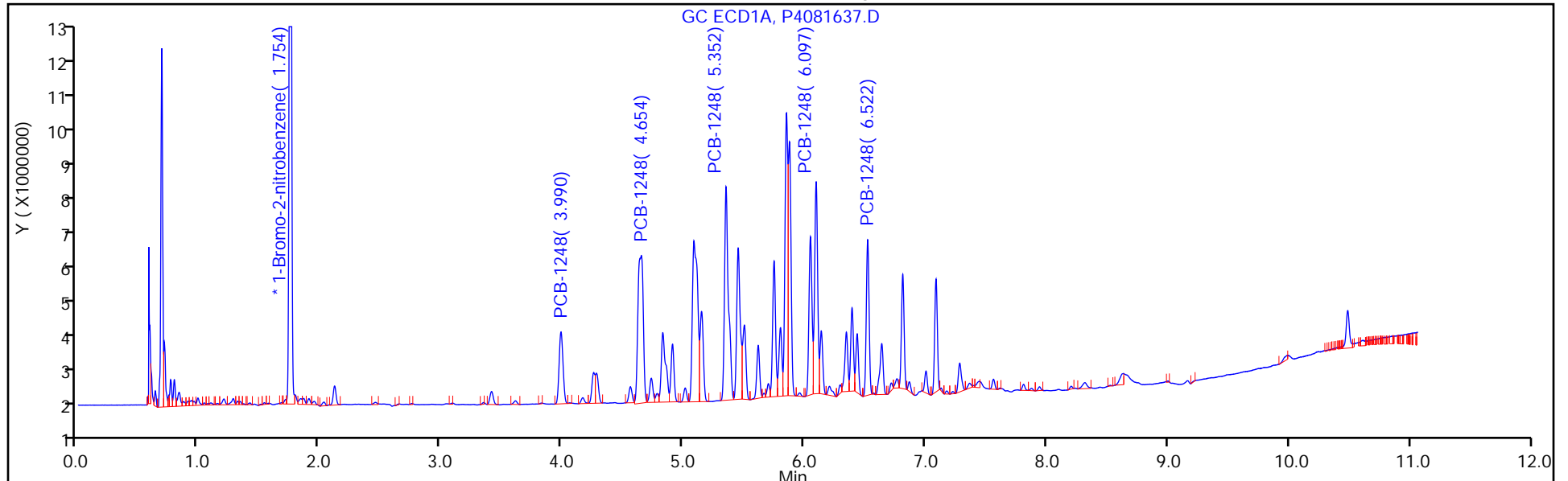
ALS Bottle#: 37

Method: PCB4 is

Limit Group: GC 8082A IS

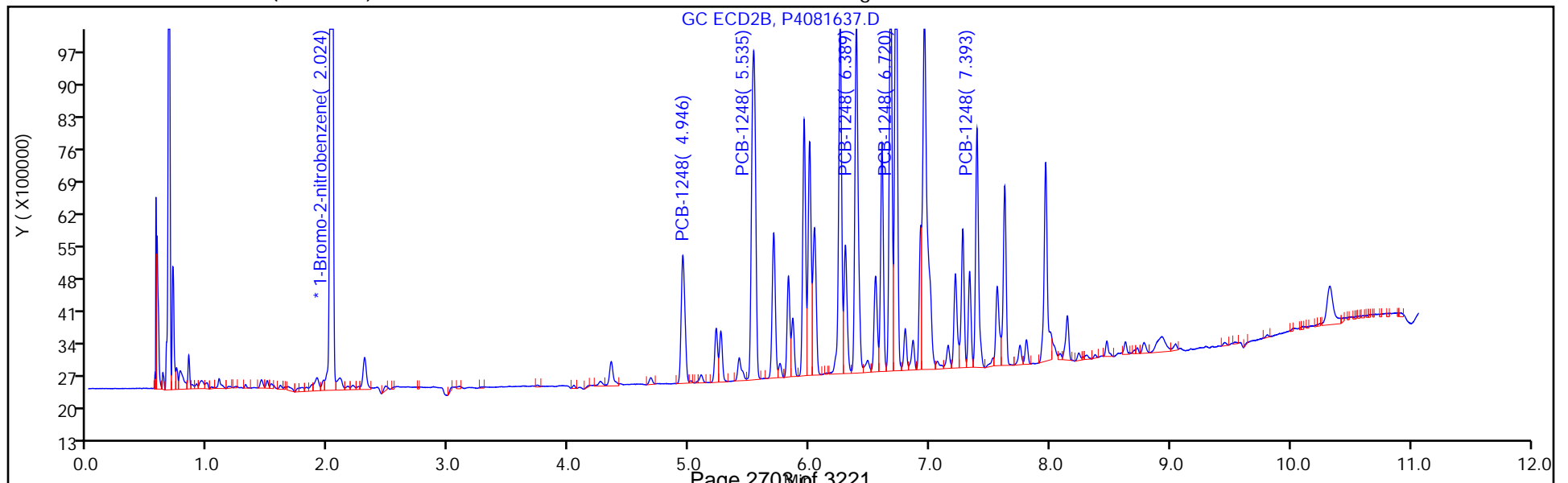
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/38 Calibration Date: 08/16/2022 20:16
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081638.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0317	0.0327		0.517	0.500	3.3	20.0
PCB-1254 Peak 2	Ave	0.0459	0.0465		0.507	0.500	1.4	20.0
PCB-1254 Peak 3	Ave	0.0653	0.0665		0.509	0.500	1.8	20.0
PCB-1254 Peak 4	Ave	0.0509	0.0531		0.521	0.500	4.2	20.0
PCB-1254 Peak 5	Ave	0.0694	0.0757		0.545	0.500	9.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/38 Calibration Date: 08/16/2022 20:16
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081638.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	5.79	5.79	5.82
PCB-1254 Peak 2	6.09	6.08	6.12
PCB-1254 Peak 3	6.52	6.51	6.55
PCB-1254 Peak 4	6.81	6.80	6.84
PCB-1254 Peak 5	7.28	7.27	7.31

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081638.D
 Lims ID: icv 1254
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:16:29 ALS Bottle#: 38 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-038
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:07:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.749	1.751	-0.002	31713717	0.0500	0.0500	
2	2.019	2.020	-0.002	44487994	0.0500	0.0500	
8 PCB-1254							
1	5.793	5.805	-0.012	10375968	0.5000	0.5165	
1	6.092	6.103	-0.011	14762621	0.5000	0.5069	
1	6.517	6.527	-0.010	21081070	0.5000	0.5091	
1	6.809	6.818	-0.009	16830939	0.5000	0.5209	
1	7.281	7.288	-0.007	23998208	0.5000	0.5449	
Average of Peak Amounts =						0.5197	
2	6.712	6.722	-0.010	13453186	0.5000	0.5100	
2	6.921	6.930	-0.009	16028751	0.5000	0.5334	
2	7.391	7.400	-0.009	23479789	0.5000	0.5188	
2	7.622	7.630	-0.008	18396806	0.5000	0.5267	
2	8.144	8.152	-0.008	25155783	0.5000	0.5469	
Average of Peak Amounts =						0.5272	
						RPD = 1.43	

Reagents:

SG2154ICV@.5_00011 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081638.D

Injection Date: 16-Aug-2022 20:16:29

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1254

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

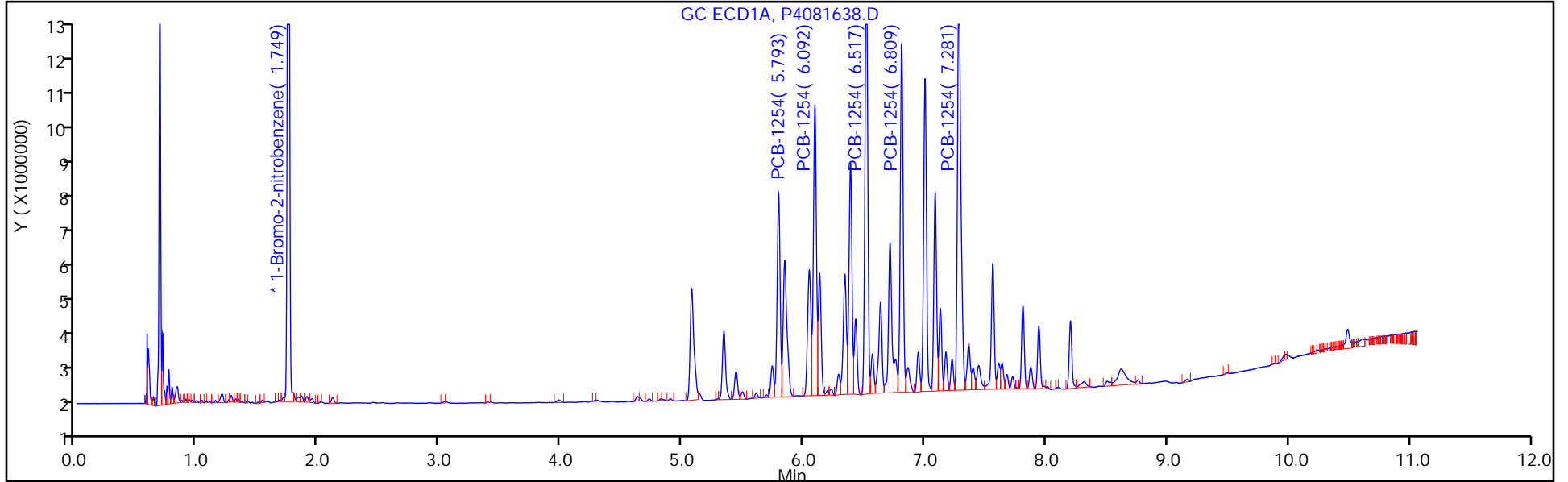
ALS Bottle#: 38

Method: PCB4 is

Limit Group: GC 8082A IS

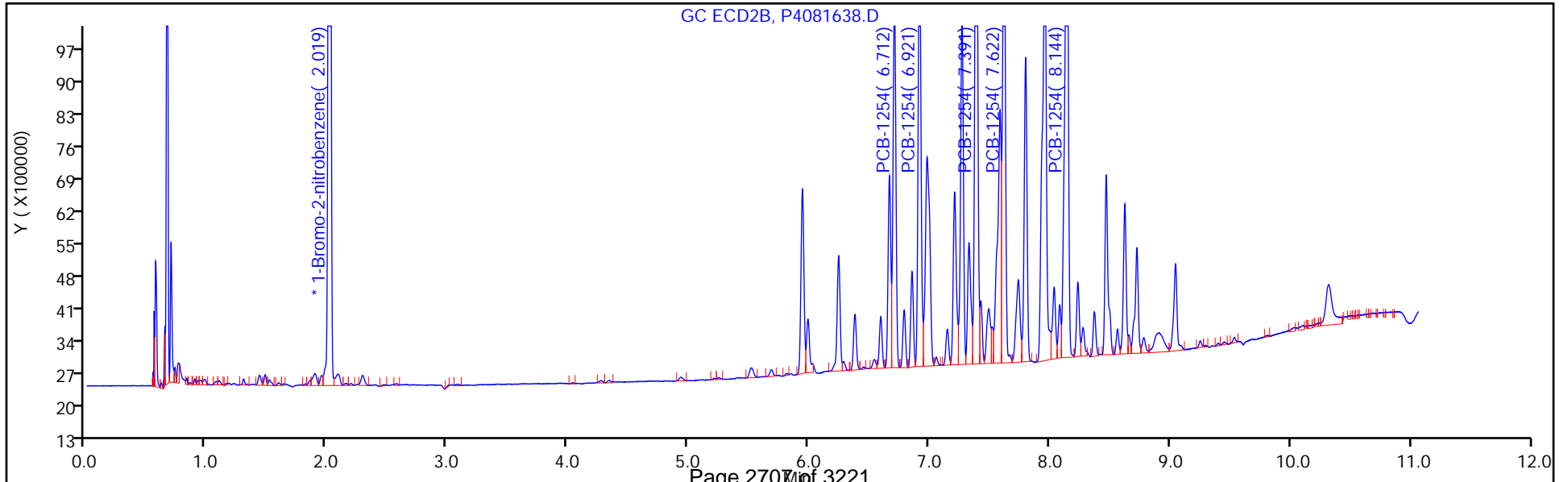
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/38 Calibration Date: 08/16/2022 20:16
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081638.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0296	0.0302		0.510	0.500	2.0	20.0
PCB-1254 Peak 2	Ave	0.0338	0.0360		0.533	0.500	6.7	20.0
PCB-1254 Peak 3	Ave	0.0509	0.0528		0.519	0.500	3.8	20.0
PCB-1254 Peak 4	Ave	0.0393	0.0414		0.527	0.500	5.3	20.0
PCB-1254 Peak 5	Ave	0.0517	0.0565		0.547	0.500	9.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/38 Calibration Date: 08/16/2022 20:16
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53(mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4081638.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	6.71	6.70	6.74
PCB-1254 Peak 2	6.92	6.91	6.95
PCB-1254 Peak 3	7.39	7.38	7.42
PCB-1254 Peak 4	7.62	7.61	7.65
PCB-1254 Peak 5	8.14	8.13	8.17

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081638.D
 Lims ID: icv 1254
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:16:29 ALS Bottle#: 38 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-038
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 17-Aug-2022 08:07:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.749	1.751	-0.002	31713717	0.0500	0.0500	
2	2.019	2.020	-0.002	44487994	0.0500	0.0500	
8 PCB-1254							
1	5.793	5.805	-0.012	10375968	0.5000	0.5165	
1	6.092	6.103	-0.011	14762621	0.5000	0.5069	
1	6.517	6.527	-0.010	21081070	0.5000	0.5091	
1	6.809	6.818	-0.009	16830939	0.5000	0.5209	
1	7.281	7.288	-0.007	23998208	0.5000	0.5449	
Average of Peak Amounts =						0.5197	
2	6.712	6.722	-0.010	13453186	0.5000	0.5100	
2	6.921	6.930	-0.009	16028751	0.5000	0.5334	
2	7.391	7.400	-0.009	23479789	0.5000	0.5188	
2	7.622	7.630	-0.008	18396806	0.5000	0.5267	
2	8.144	8.152	-0.008	25155783	0.5000	0.5469	
Average of Peak Amounts =						0.5272	
						RPD = 1.43	

Reagents:

SG2154ICV@.5_00011 Amount Added: 1.00 Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081638.D

Injection Date: 16-Aug-2022 20:16:29

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1254

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

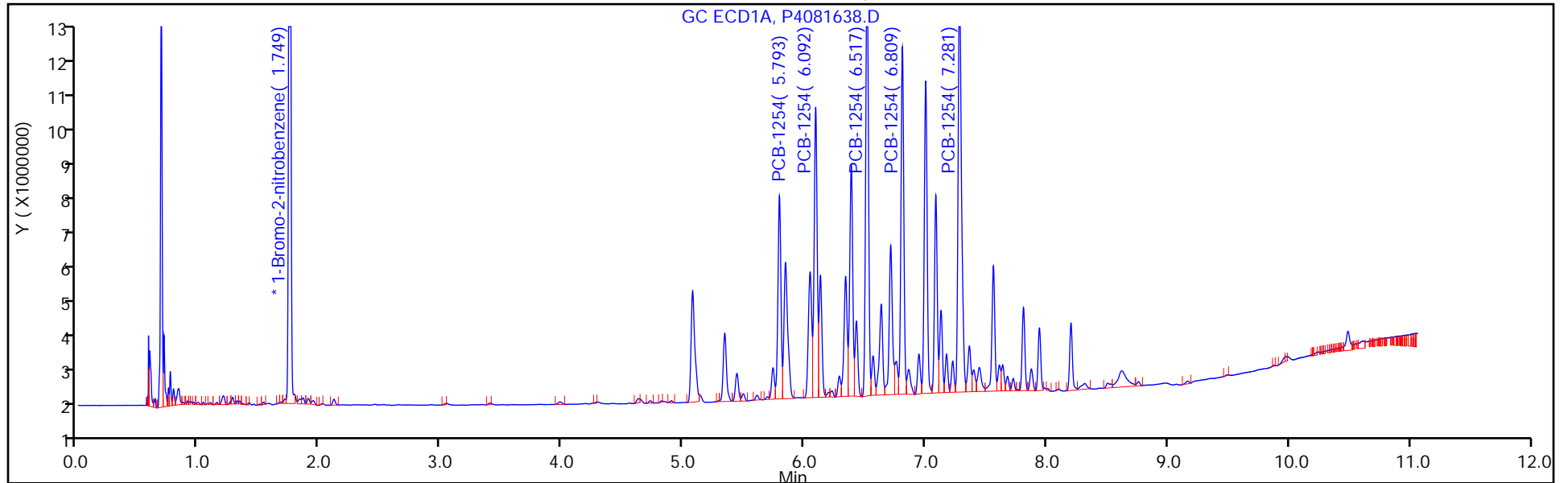
ALS Bottle#: 38

Method: PCB4 is

Limit Group: GC 8082A IS

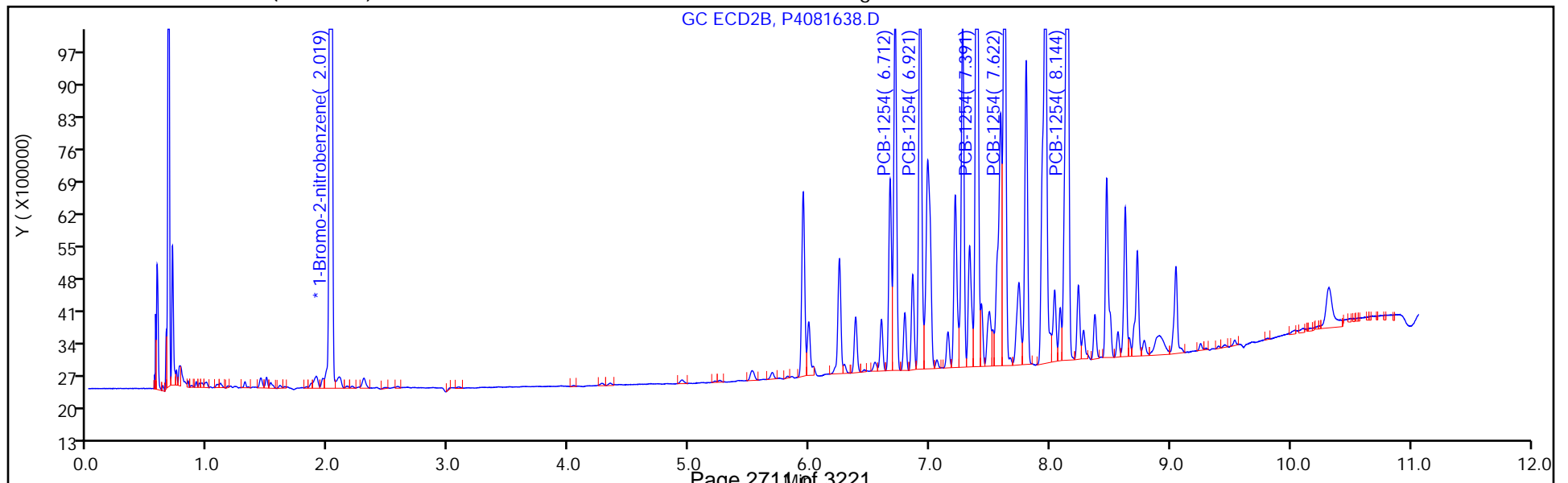
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/39 Calibration Date: 08/16/2022 20:33
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081639.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1262 Peak 1	Ave	0.0560	0.0538		0.481	0.500	-3.8	20.0
PCB-1262 Peak 2	Ave	0.0839	0.0742		0.442	0.500	-11.6	20.0
PCB-1262 Peak 3	Ave	0.0680	0.0644		0.473	0.500	-5.3	20.0
PCB-1262 Peak 4	Ave	0.1500	0.1436		0.479	0.500	-4.2	20.0
PCB-1262 Peak 5	Ave	0.0632	0.0583		0.461	0.500	-7.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/39 Calibration Date: 08/16/2022 20:33
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081639.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1262 Peak 1	7.01	6.99	7.03
PCB-1262 Peak 2	7.41	7.39	7.42
PCB-1262 Peak 3	7.65	7.63	7.66
PCB-1262 Peak 4	7.95	7.93	7.97
PCB-1262 Peak 5	8.25	8.22	8.26

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081639.D
 Lims ID: icv 1262
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:33:49 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-039
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	33474106	0.0500	0.0500	
2	2.026	2.020	0.006	46519528	0.0500	0.0500	

9 PCB-1262

1	7.010	7.008	0.002	18025586	0.5000	0.4810	
1	7.407	7.404	0.003	24839152	0.5000	0.4422	
1	7.646	7.644	0.002	21554669	0.5000	0.4735	
1	7.949	7.947	0.002	48084305	0.5000	0.4788	
1	8.245	8.243	0.002	19505534	0.5000	0.4612	

Average of Peak Amounts = 0.4673

2	7.811	7.809	0.002	16781488	0.5000	0.4871	
2	8.239	8.237	0.002	25813945	0.5000	0.4886	
2	8.509	8.507	0.002	21791116	0.5000	0.4832	
2	8.734	8.732	0.002	51008558	0.5000	0.4836	
2	9.052	9.049	0.003	36987976	0.5000	0.4763	

Average of Peak Amounts = 0.4838

RPD = 3.46

Reagents:

SG1262ICV@.5_00013

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081639.D

Injection Date: 16-Aug-2022 20:33:49

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1262

Worklist Smp#: 39

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

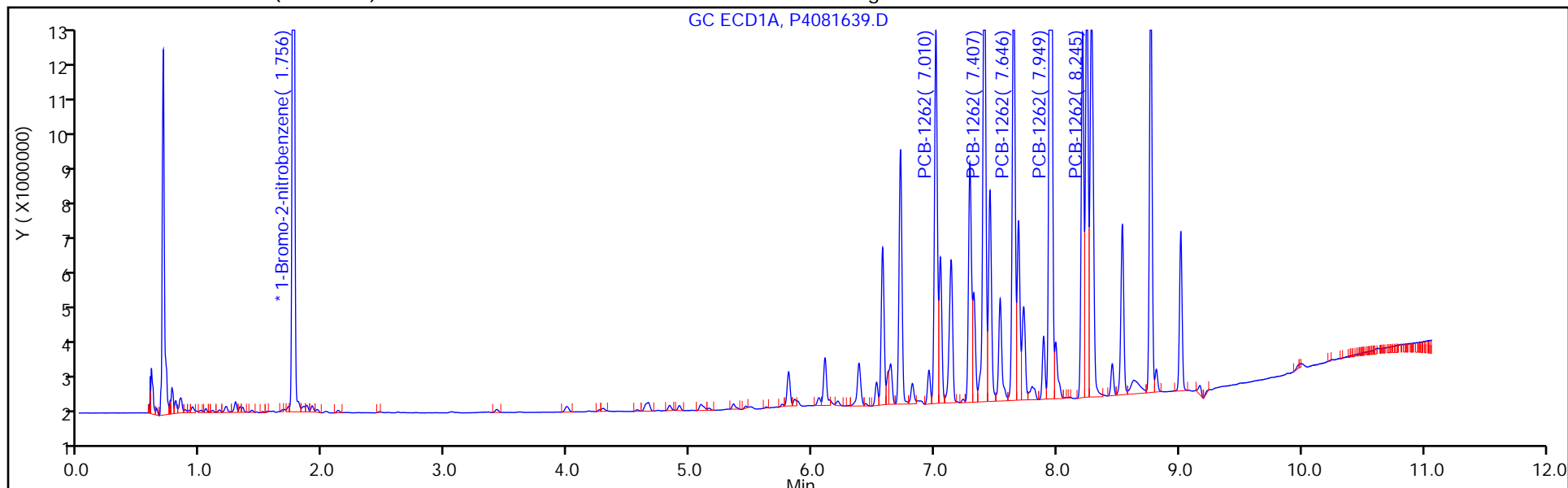
ALS Bottle#: 39

Method: PCB4 is

Limit Group: GC 8082A IS

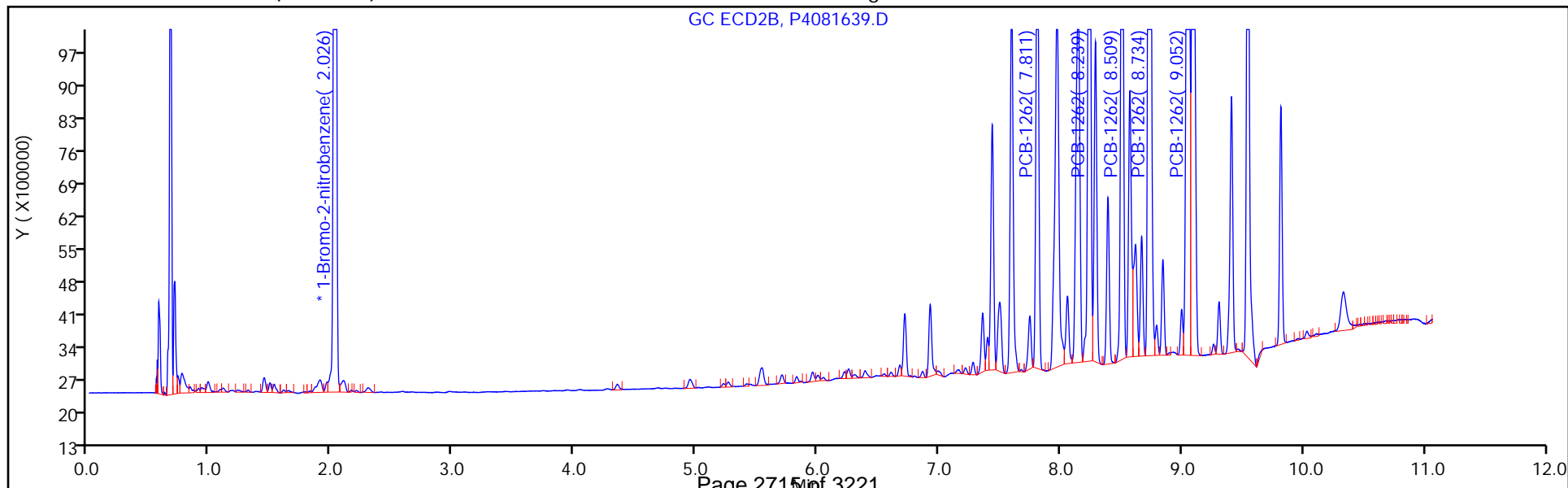
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/39 Calibration Date: 08/16/2022 20:33
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081639.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1262 Peak 1	Ave	0.0370	0.0361		0.487	0.500	-2.6	20.0
PCB-1262 Peak 2	Ave	0.0568	0.0555		0.489	0.500	-2.3	20.0
PCB-1262 Peak 3	Ave	0.0485	0.0468		0.483	0.500	-3.4	20.0
PCB-1262 Peak 4	Ave	0.1134	0.1096		0.484	0.500	-3.3	20.0
PCB-1262 Peak 5	Ave	0.0835	0.0795		0.476	0.500	-4.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/39 Calibration Date: 08/16/2022 20:33
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4081639.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1262 Peak 1	7.81	7.79	7.83
PCB-1262 Peak 2	8.24	8.22	8.26
PCB-1262 Peak 3	8.51	8.49	8.53
PCB-1262 Peak 4	8.73	8.71	8.75
PCB-1262 Peak 5	9.05	9.03	9.07

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081639.D
 Lims ID: icv 1262
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:33:49 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-039
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene

1	1.756	1.751	0.005	33474106	0.0500	0.0500	
2	2.026	2.020	0.006	46519528	0.0500	0.0500	

9 PCB-1262

1	7.010	7.008	0.002	18025586	0.5000	0.4810	
1	7.407	7.404	0.003	24839152	0.5000	0.4422	
1	7.646	7.644	0.002	21554669	0.5000	0.4735	
1	7.949	7.947	0.002	48084305	0.5000	0.4788	
1	8.245	8.243	0.002	19505534	0.5000	0.4612	

Average of Peak Amounts = 0.4673

2	7.811	7.809	0.002	16781488	0.5000	0.4871	
2	8.239	8.237	0.002	25813945	0.5000	0.4886	
2	8.509	8.507	0.002	21791116	0.5000	0.4832	
2	8.734	8.732	0.002	51008558	0.5000	0.4836	
2	9.052	9.049	0.003	36987976	0.5000	0.4763	

Average of Peak Amounts = 0.4838

RPD = 3.46

Reagents:

SG1262ICV@.5_00013

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081639.D

Injection Date: 16-Aug-2022 20:33:49

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1262

Worklist Smp#: 39

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

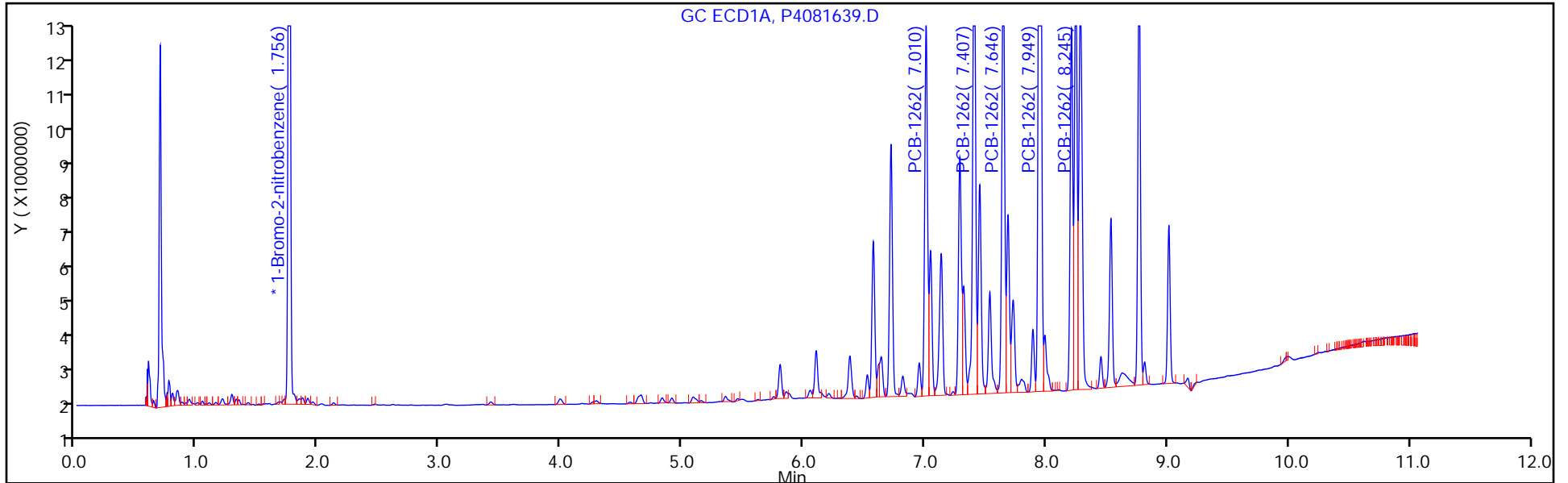
ALS Bottle#: 39

Method: PCB4 is

Limit Group: GC 8082A IS

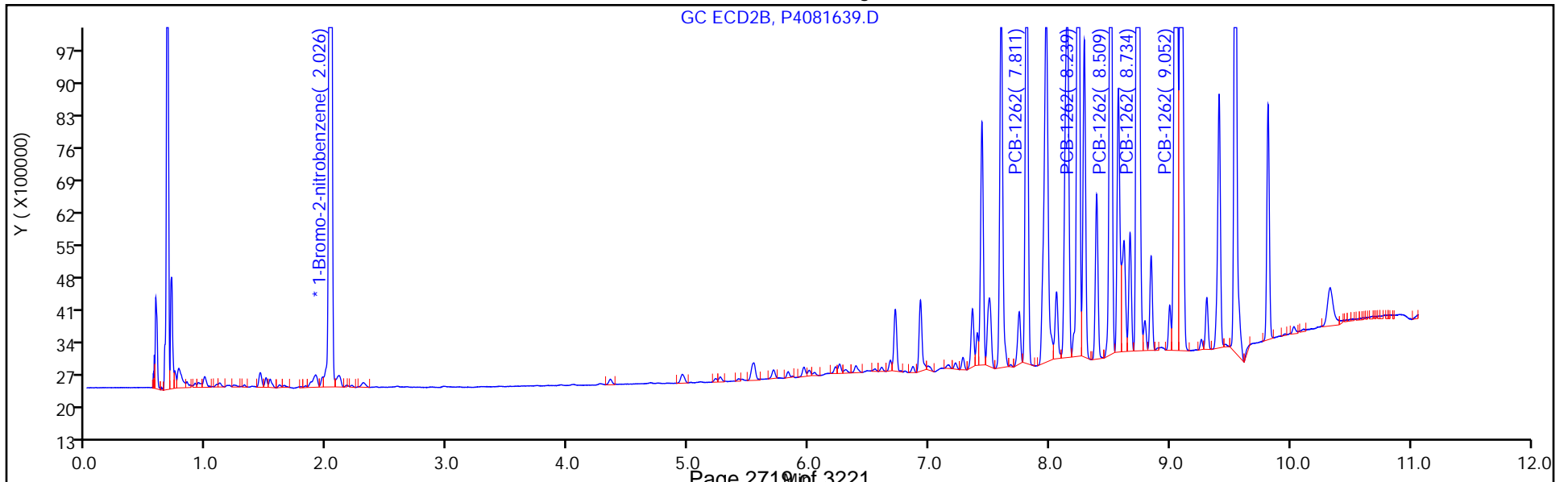
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/40 Calibration Date: 08/16/2022 20:51
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081640.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1268 Peak 1	Ave	0.2017	0.1974		0.489	0.500	-2.1	20.0
PCB-1268 Peak 2	Ave	0.2001	0.1902		0.475	0.500	-5.0	20.0
PCB-1268 Peak 3	Ave	0.1701	0.1641		0.482	0.500	-3.5	20.0
PCB-1268 Peak 4	Ave	0.0739	0.0704		0.476	0.500	-4.7	20.0
PCB-1268 Peak 5	Ave	0.5661	0.5477		0.484	0.500	-3.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/40 Calibration Date: 08/16/2022 20:51
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081640.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1268 Peak 1	8.24	8.23	8.27
PCB-1268 Peak 2	8.28	8.26	8.30
PCB-1268 Peak 3	8.45	8.44	8.48
PCB-1268 Peak 4	8.77	8.75	8.79
PCB-1268 Peak 5	9.01	9.00	9.04

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081640.D
 Lims ID: icv 1268
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:51:08 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-040
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 14 1-Bromo-2-nitrobenzene							
1	1.755	1.751	0.004	34023807	0.0500	0.0500	
2	2.025	2.020	0.004	47572755	0.0500	0.0500	
11 PCB-1268							
1	8.242	8.248	-0.006	67174631	0.5000	0.4894	
1	8.276	8.282	-0.006	64714737	0.5000	0.4752	
1	8.450	8.457	-0.007	55841886	0.5000	0.4823	
1	8.766	8.772	-0.006	23964630	0.5000	0.4764	
1	9.012	9.018	-0.006	186341993	0.5000	0.4837	
Average of Peak Amounts =						0.4814	
2	9.049	9.053	-0.004	72355515	0.5000	0.4905	
2	9.088	9.093	-0.005	70620336	0.5000	0.4923	
2	9.306	9.312	-0.006	61231996	0.5000	0.4831	
2	9.545	9.548	-0.003	26817615	0.5000	0.4848	
2	9.816	9.820	-0.004	190927337	0.5000	0.4800	
Average of Peak Amounts =						0.4861	
						RPD =	0.98

Reagents:

SG1268ICV@0.5_00016 Amount Added: 1.00 Units: mL

Report Date: 17-Aug-2022 08:14:06

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081640.D

Injection Date: 16-Aug-2022 20:51:08

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1268

Worklist Smp#: 40

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

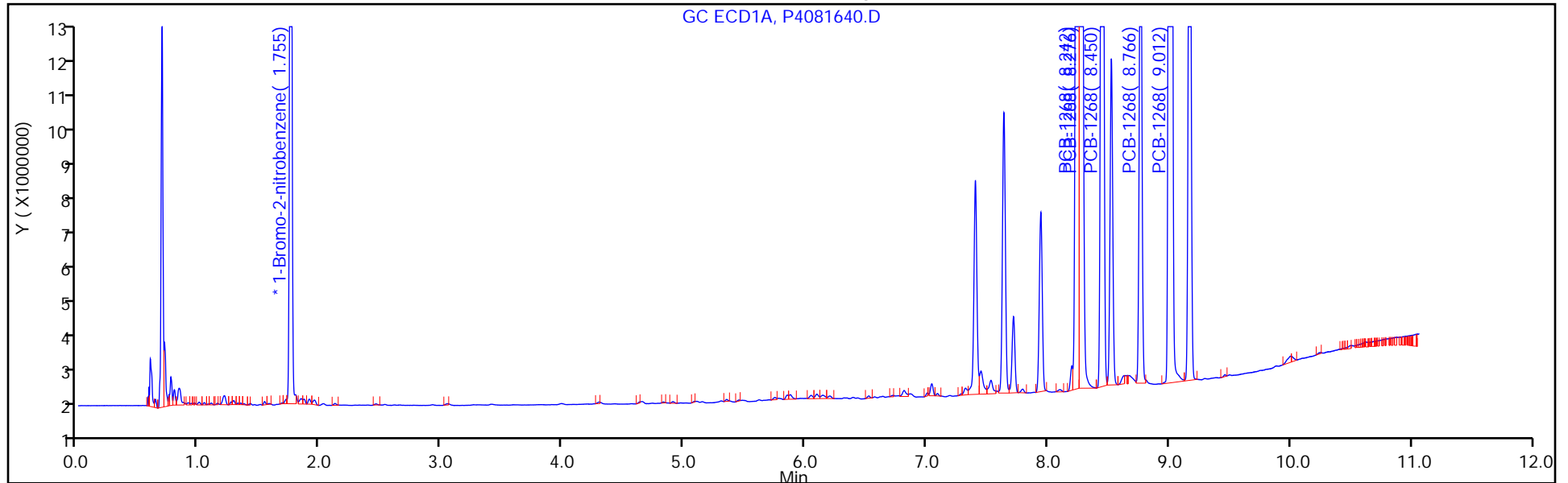
ALS Bottle#: 40

Method: PCB4 is

Limit Group: GC 8082A IS

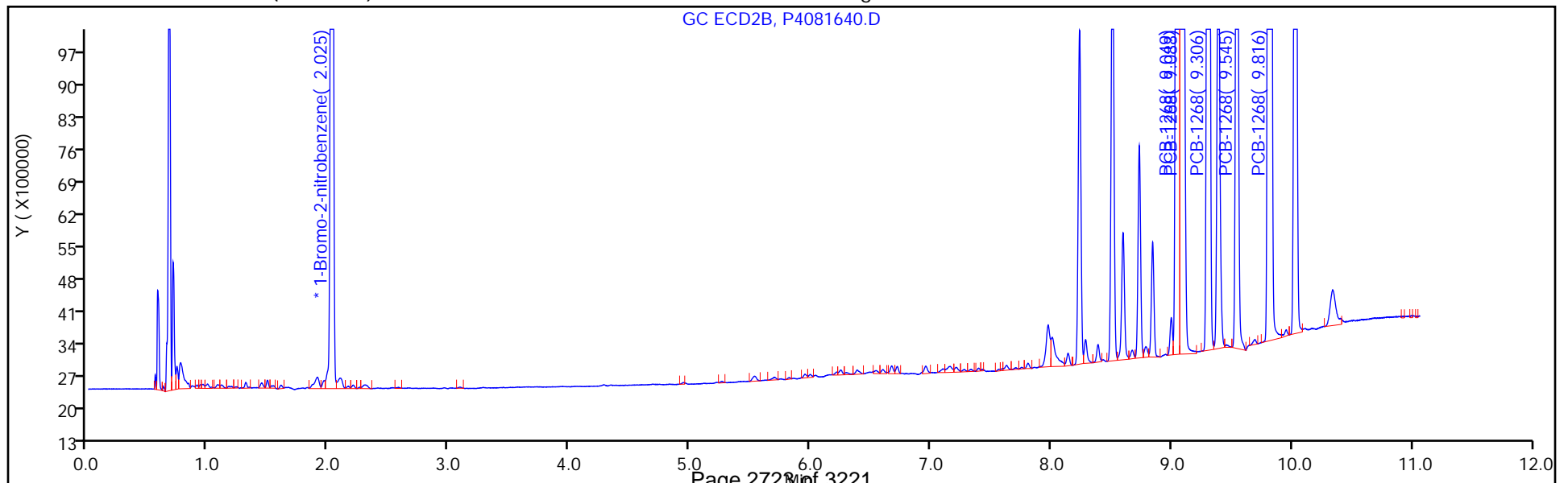
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/40 Calibration Date: 08/16/2022 20:51
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081640.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1268 Peak 1	Ave	0.1550	0.1521		0.491	0.500	-1.9	20.0
PCB-1268 Peak 2	Ave	0.1508	0.1484		0.492	0.500	-1.5	20.0
PCB-1268 Peak 3	Ave	0.1332	0.1287		0.483	0.500	-3.4	20.0
PCB-1268 Peak 4	Ave	0.0581	0.0564		0.485	0.500	-3.0	20.0
PCB-1268 Peak 5	Ave	0.4181	0.4013		0.480	0.500	-4.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/40 Calibration Date: 08/16/2022 20:51
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4081640.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1268 Peak 1	9.05	9.03	9.07
PCB-1268 Peak 2	9.09	9.07	9.11
PCB-1268 Peak 3	9.31	9.29	9.33
PCB-1268 Peak 4	9.55	9.53	9.57
PCB-1268 Peak 5	9.82	9.80	9.84

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081640.D
 Lims ID: icv 1268
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 20:51:08 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-040
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D

Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.751	0.004	34023807	0.0500	0.0500	
2	2.025	2.020	0.004	47572755	0.0500	0.0500	

11 PCB-1268

1	8.242	8.248	-0.006	67174631	0.5000	0.4894	
1	8.276	8.282	-0.006	64714737	0.5000	0.4752	
1	8.450	8.457	-0.007	55841886	0.5000	0.4823	
1	8.766	8.772	-0.006	23964630	0.5000	0.4764	
1	9.012	9.018	-0.006	186341993	0.5000	0.4837	

Average of Peak Amounts = 0.4814

2	9.049	9.053	-0.004	72355515	0.5000	0.4905	
2	9.088	9.093	-0.005	70620336	0.5000	0.4923	
2	9.306	9.312	-0.006	61231996	0.5000	0.4831	
2	9.545	9.548	-0.003	26817615	0.5000	0.4848	
2	9.816	9.820	-0.004	190927337	0.5000	0.4800	

Average of Peak Amounts = 0.4861

RPD = 0.98

Reagents:

SG1268ICV@0.5_00016

Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2022 08:14:06

Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081640.D

Injection Date: 16-Aug-2022 20:51:08

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1268

Worklist Smp#: 40

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

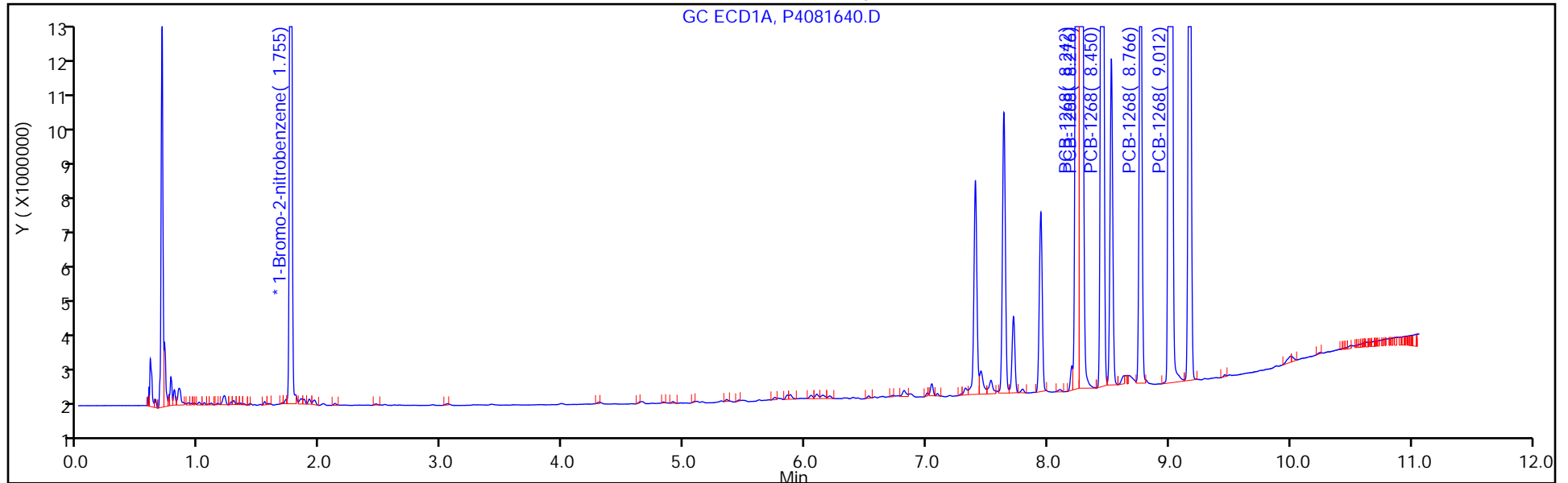
ALS Bottle#: 40

Method: PCB4 is

Limit Group: GC 8082A IS

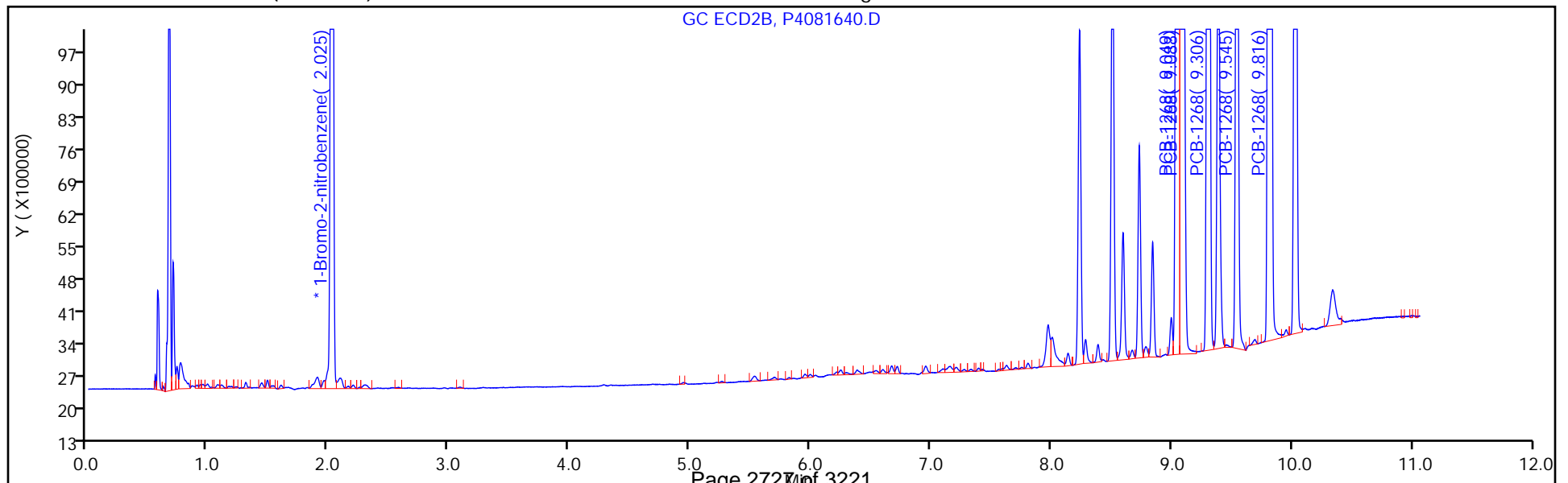
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/41 Calibration Date: 08/16/2022 21:08
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4081641.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0180	0.0182		0.504	0.500	0.9	20.0
PCB-1016 Peak 2	Ave	0.0334	0.0342		0.512	0.500	2.4	20.0
PCB-1016 Peak 3	Ave	0.0733	0.0754		0.514	0.500	2.8	20.0
PCB-1016 Peak 4	Ave	0.0318	0.0325		0.511	0.500	2.3	20.0
PCB-1016 Peak 5	Ave	0.0128	0.0133		0.518	0.500	3.6	20.0
PCB-1260 Peak 1	Ave	0.0482	0.0481		0.499	0.500	-0.2	20.0
PCB-1260 Peak 2	Ave	0.0774	0.0778		0.502	0.500	0.4	20.0
PCB-1260 Peak 3	Ave	0.0872	0.0845		0.485	0.500	-3.1	20.0
PCB-1260 Peak 4	Ave	0.1220	0.1272		0.522	0.500	4.3	20.0
PCB-1260 Peak 5	Ave	0.0619	0.0660		0.533	0.500	6.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/41 Calibration Date: 08/16/2022 21:08
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-1 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4081641.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.42	3.39	3.43
PCB-1016 Peak 2	3.99	3.97	4.00
PCB-1016 Peak 3	4.66	4.63	4.67
PCB-1016 Peak 4	4.83	4.81	4.84
PCB-1016 Peak 5	5.15	5.13	5.17
PCB-1260 Peak 1	6.72	6.70	6.73
PCB-1260 Peak 2	7.01	6.98	7.02
PCB-1260 Peak 3	7.29	7.26	7.30
PCB-1260 Peak 4	7.95	7.92	7.96
PCB-1260 Peak 5	8.21	8.18	8.22

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081641.D
 Lims ID: icv 1660
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 21:08:38 ALS Bottle#: 41 Worklist Smp#: 41
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-041
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.751	0.004	31650813	0.0500	0.0500	
2	2.025	2.020	0.005	44419818	0.0500	0.0500	

6 PCB-1016

1	3.418	3.412	0.006	5754125	0.5000	0.5043	
1	3.991	3.984	0.007	10823334	0.5000	0.5118	
1	4.655	4.650	0.005	23867106	0.5000	0.5142	
1	4.831	4.825	0.006	10292269	0.5000	0.5115	
1	5.150	5.146	0.004	4207038	0.5000	0.5182	

Average of Peak Amounts = 0.5120

2	4.352	4.345	0.007	7725381	0.5000	0.5290	
2	4.948	4.942	0.006	14279459	0.5000	0.5259	
2	5.537	5.535	0.002	30752278	0.5000	0.5274	
2	5.703	5.700	0.003	12428999	0.5000	0.5248	
2	5.954	5.952	0.002	6199956	0.5000	0.5237	

Average of Peak Amounts = 0.5261

RPD = 2.73

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.719	6.714	0.005	15217456	0.5000	0.4988	
1	7.008	7.001	0.007	24610054	0.5000	0.5022	
1	7.287	7.280	0.007	26753193	0.5000	0.4845	
1	7.948	7.940	0.008	40274609	0.5000	0.5216	
1	8.210	8.200	0.010	20893913	0.5000	0.5330	

Average of Peak Amounts = 0.5080

2	7.599	7.590	0.009	17081574	0.5000	0.5110	
2	7.810	7.801	0.009	21346434	0.5000	0.5216	
2	8.151	8.142	0.009	28349011	0.5000	0.5100	
2	8.735	8.728	0.007	45550843	0.5000	0.5325	
2	9.054	9.047	0.007	30945130	0.5000	0.5143	

Average of Peak Amounts = 0.5179

RPD = 1.92

Reagents:

SG1660ICV@.5_00018

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081641.D

Injection Date: 16-Aug-2022 21:08:38

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1660

Worklist Smp#: 41

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

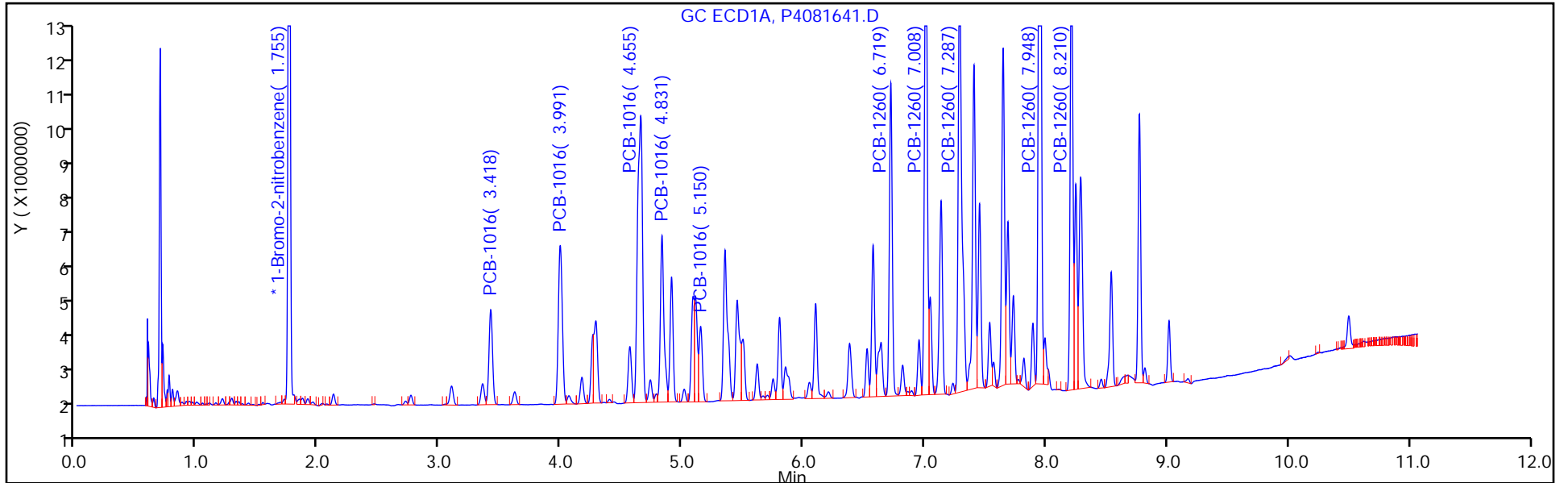
ALS Bottle#: 41

Method: PCB4 is

Limit Group: GC 8082A IS

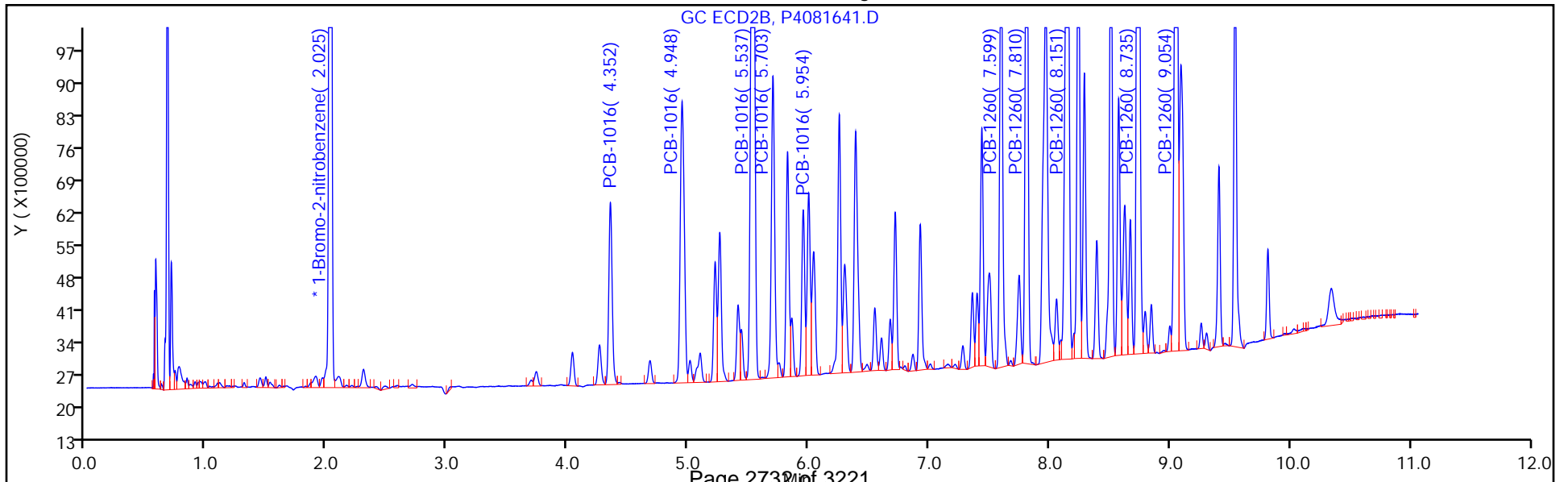
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/41 Calibration Date: 08/16/2022 21:08
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4081641.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0164	0.0174		0.529	0.500	5.8	20.0
PCB-1016 Peak 2	Ave	0.0306	0.0321		0.526	0.500	5.2	20.0
PCB-1016 Peak 3	Ave	0.0656	0.0692		0.527	0.500	5.5	20.0
PCB-1016 Peak 4	Ave	0.0267	0.0280		0.525	0.500	5.0	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0140		0.524	0.500	4.7	20.0
PCB-1260 Peak 1	Ave	0.0376	0.0385		0.511	0.500	2.2	20.0
PCB-1260 Peak 2	Ave	0.0461	0.0481		0.522	0.500	4.3	20.0
PCB-1260 Peak 3	Ave	0.0626	0.0638		0.510	0.500	2.0	20.0
PCB-1260 Peak 4	Ave	0.0963	0.1025		0.532	0.500	6.5	20.0
PCB-1260 Peak 5	Ave	0.0677	0.0697		0.514	0.500	2.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: ICV 240-539023/41 Calibration Date: 08/16/2022 21:08
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4081641.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.35	4.33	4.36
PCB-1016 Peak 2	4.95	4.92	4.96
PCB-1016 Peak 3	5.54	5.52	5.55
PCB-1016 Peak 4	5.70	5.68	5.72
PCB-1016 Peak 5	5.95	5.93	5.97
PCB-1260 Peak 1	7.60	7.57	7.61
PCB-1260 Peak 2	7.81	7.78	7.82
PCB-1260 Peak 3	8.15	8.12	8.16
PCB-1260 Peak 4	8.74	8.71	8.75
PCB-1260 Peak 5	9.05	9.03	9.07

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081641.D
 Lims ID: icv 1660
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Aug-2022 21:08:38 ALS Bottle#: 41 Worklist Smp#: 41
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 240-0121327-041
 Operator ID: Instrument ID: A2HP4
 Sublist:

Method: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 17-Aug-2022 08:12:44 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.751	0.004	31650813	0.0500	0.0500	
2	2.025	2.020	0.005	44419818	0.0500	0.0500	

6 PCB-1016

1	3.418	3.412	0.006	5754125	0.5000	0.5043	
1	3.991	3.984	0.007	10823334	0.5000	0.5118	
1	4.655	4.650	0.005	23867106	0.5000	0.5142	
1	4.831	4.825	0.006	10292269	0.5000	0.5115	
1	5.150	5.146	0.004	4207038	0.5000	0.5182	

Average of Peak Amounts = 0.5120

2	4.352	4.345	0.007	7725381	0.5000	0.5290	
2	4.948	4.942	0.006	14279459	0.5000	0.5259	
2	5.537	5.535	0.002	30752278	0.5000	0.5274	
2	5.703	5.700	0.003	12428999	0.5000	0.5248	
2	5.954	5.952	0.002	6199956	0.5000	0.5237	

Average of Peak Amounts = 0.5261

RPD = 2.73

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.719	6.714	0.005	15217456	0.5000	0.4988	
1	7.008	7.001	0.007	24610054	0.5000	0.5022	
1	7.287	7.280	0.007	26753193	0.5000	0.4845	
1	7.948	7.940	0.008	40274609	0.5000	0.5216	
1	8.210	8.200	0.010	20893913	0.5000	0.5330	

Average of Peak Amounts = 0.5080

2	7.599	7.590	0.009	17081574	0.5000	0.5110	
2	7.810	7.801	0.009	21346434	0.5000	0.5216	
2	8.151	8.142	0.009	28349011	0.5000	0.5100	
2	8.735	8.728	0.007	45550843	0.5000	0.5325	
2	9.054	9.047	0.007	30945130	0.5000	0.5143	

Average of Peak Amounts = 0.5179

RPD = 1.92

Reagents:

SG1660ICV@.5_00018

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081641.D

Injection Date: 16-Aug-2022 21:08:38

Instrument ID: A2HP4

Operator ID:

Lims ID: icv 1660

Worklist Smp#: 41

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

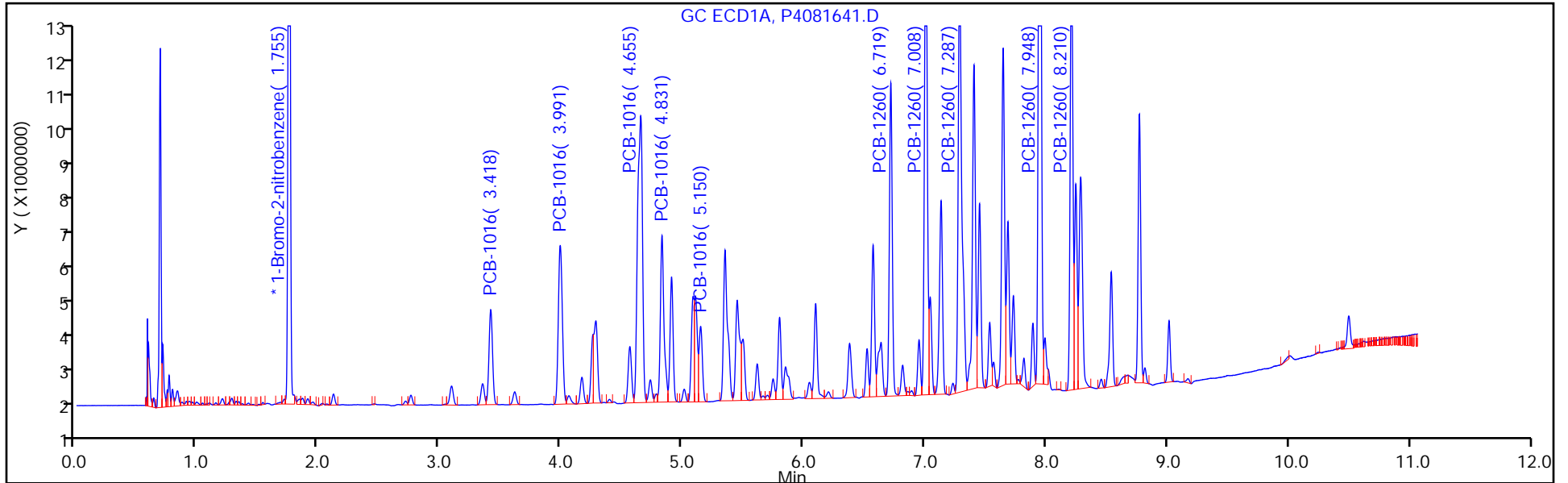
ALS Bottle#: 41

Method: PCB4 is

Limit Group: GC 8082A IS

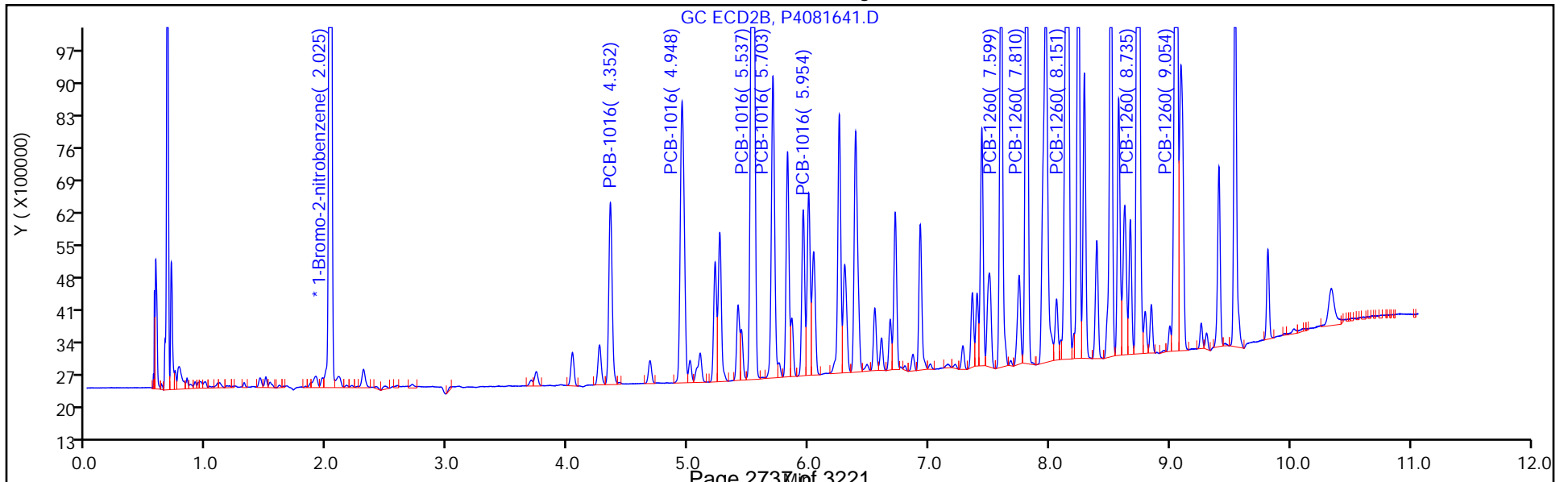
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/3 Calibration Date: 09/09/2022 13:32
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4090903.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0164	0.0156		0.475	0.500	-5.1	20.0
PCB-1016 Peak 2	Ave	0.0306	0.0287		0.470	0.500	-6.0	20.0
PCB-1016 Peak 3	Ave	0.0656	0.0610		0.465	0.500	-7.0	20.0
PCB-1016 Peak 4	Ave	0.0267	0.0255		0.479	0.500	-4.2	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0124		0.465	0.500	-7.0	20.0
PCB-1260 Peak 1	Ave	0.0376	0.0341		0.453	0.500	-9.5	20.0
PCB-1260 Peak 2	Ave	0.0461	0.0423		0.459	0.500	-8.1	20.0
PCB-1260 Peak 3	Ave	0.0626	0.0579		0.463	0.500	-7.4	20.0
PCB-1260 Peak 4	Ave	0.0963	0.0873		0.453	0.500	-9.4	20.0
PCB-1260 Peak 5	Ave	0.0677	0.0606		0.447	0.500	-10.5	20.0
Tetrachloro-m-xylene	Lin1		0.9018		0.0247	0.0250	-1.3	20.0
DCB Decachlorobiphenyl	Lin1		0.8078		0.0222	0.0250	-11.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/3 Calibration Date: 09/09/2022 13:32
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4090903.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.32	4.36
PCB-1016 Peak 2	4.94	4.92	4.96
PCB-1016 Peak 3	5.53	5.51	5.55
PCB-1016 Peak 4	5.70	5.68	5.71
PCB-1016 Peak 5	5.95	5.93	5.97
PCB-1260 Peak 1	7.59	7.57	7.61
PCB-1260 Peak 2	7.80	7.78	7.82
PCB-1260 Peak 3	8.14	8.12	8.16
PCB-1260 Peak 4	8.73	8.71	8.74
PCB-1260 Peak 5	9.04	9.03	9.06
Tetrachloro-m-xylene	3.47	3.45	3.49
DCB Decachlorobiphenyl	10.02	10.00	10.04

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090903.D
 Lims ID: CCV AR1660
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-Sep-2022 13:32:18 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-003
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:29 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.752	1.752	0.000	30192783	0.0500	0.0500	
2	2.014	2.014	0.000	45524903	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.764	2.764	0.000	13745190	0.0250	0.0245	
2	3.471	3.471	0.000	20528029	0.0250	0.0247	

RPD = 0.83

6 PCB-1016

1	3.408	3.408	0.000	5145106	0.5000	0.4727	
1	3.983	3.983	0.000	9434327	0.5000	0.4677	
1	4.648	4.648	0.000	20718221	0.5000	0.4679	
1	4.823	4.823	0.000	8983528	0.5000	0.4680	
1	5.142	5.142	0.000	3643667	0.5000	0.4705	

Average of Peak Amounts = 0.4693

2	4.340	4.340	0.000	7104855	0.5000	0.4747	
2	4.938	4.938	0.000	13083896	0.5000	0.4701	
2	5.529	5.529	0.000	27785125	0.5000	0.4649	
2	5.695	5.695	0.000	11628289	0.5000	0.4791	
2	5.948	5.948	0.000	5645098	0.5000	0.4652	

Average of Peak Amounts = 0.4708

RPD = 0.31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710	6.710	0.000	12859061	0.5000	0.4419	
1	6.999	6.999	0.000	20477815	0.5000	0.4381	
1	7.277	7.277	0.000	22282616	0.5000	0.4230	
1	7.938	7.938	0.000	32450401	0.5000	0.4406	
1	8.199	8.199	0.000	16296946	0.5000	0.4358	

Average of Peak Amounts = 0.4359

2	7.587	7.587	0.000	15510465	0.5000	0.4527	
2	7.800	7.800	0.000	19271153	0.5000	0.4595	
2	8.139	8.139	0.000	26370038	0.5000	0.4629	
2	8.725	8.725	0.000	39732508	0.5000	0.4532	
2	9.044	9.044	0.000	27583824	0.5000	0.4473	

Average of Peak Amounts = 0.4551

RPD = 4.32

\$ 12 DCB Decachlorobiphenyl

1	9.164	9.164	0.000	16312028	0.0250	0.0231	
2	10.020	10.020	0.000	18387694	0.0250	0.0222	

RPD = 4.04

16 1260 Res 1

1	8.199	8.199	0.000	16296946	NR	NR	
2	7.428	7.428	0.000	7574710	NR	NR	

13 1260 Res 2

1	8.234	8.234	0.000	7909370	NR	NR	
2	8.725	8.725	0.000	39732508	NR	NR	

15 1260 Res 3

1	8.274	8.274	0.000	10173695	NR	NR	
2	0.736	0.736	0.000	640517	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG 1260 res_00002

Amount Added: 1.00

Units: mL

SG1660@0.5PPM_00116

Amount Added: 1.00

Units: mL

Report Date: 10-Sep-2022 07:44:30

Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090903.D

Injection Date: 09-Sep-2022 13:32:18

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1660

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

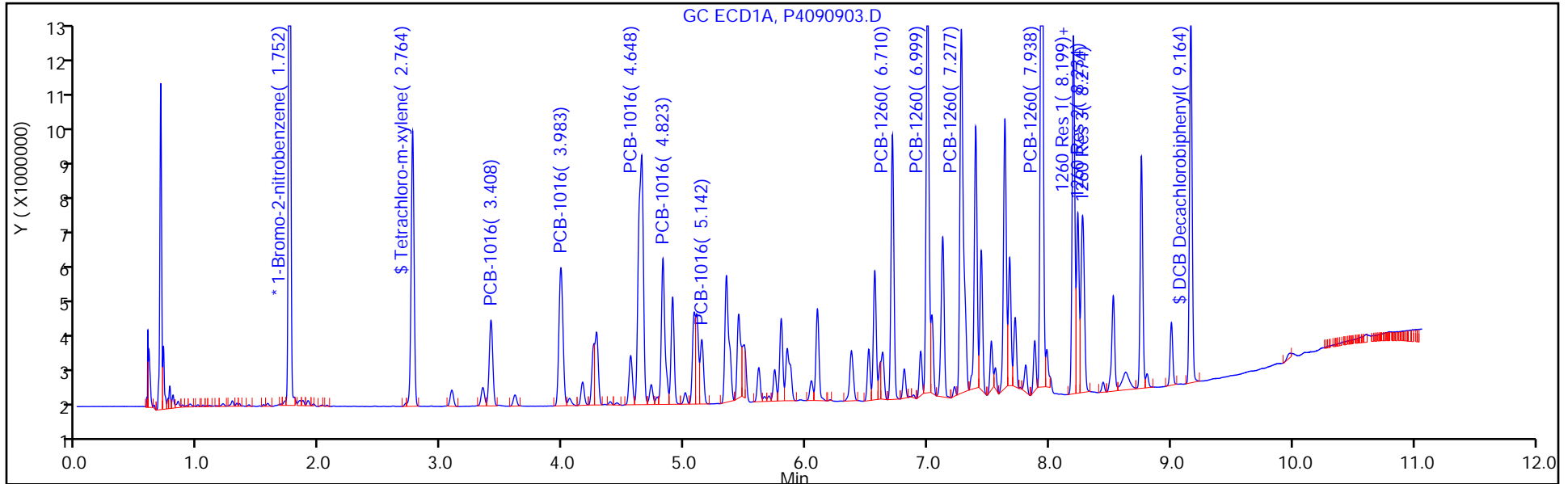
ALS Bottle#: 3

Method: PCB4 is

Limit Group: GC 8082A IS

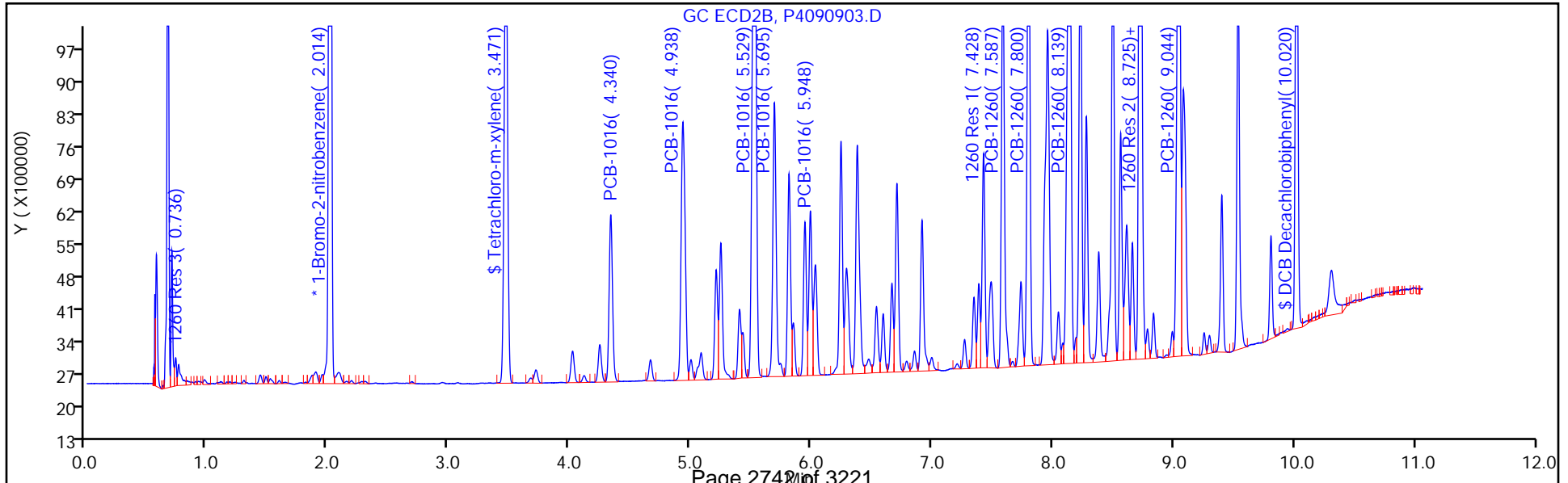
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/4 Calibration Date: 09/09/2022 13:50
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4090904.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0204	0.0194		0.476	0.500	-4.8	20.0
PCB-1232 Peak 2	Ave	0.0157	0.0152		0.484	0.500	-3.3	20.0
PCB-1232 Peak 3	Ave	0.0313	0.0298		0.476	0.500	-4.8	20.0
PCB-1232 Peak 4	Ave	0.0126	0.0127		0.502	0.500	0.4	20.0
PCB-1232 Peak 5	Ave	0.0061	0.0062		0.511	0.500	2.2	20.0
PCB-1262 Peak 1	Ave	0.0370	0.0339		0.457	0.500	-8.5	20.0
PCB-1262 Peak 2	Ave	0.0568	0.0531		0.468	0.500	-6.4	20.0
PCB-1262 Peak 3	Ave	0.0485	0.0443		0.457	0.500	-8.6	20.0
PCB-1262 Peak 4	Ave	0.1134	0.1012		0.446	0.500	-10.8	20.0
PCB-1262 Peak 5	Ave	0.0835	0.0738		0.442	0.500	-11.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/4 Calibration Date: 09/09/2022 13:50
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4090904.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.34	4.32	4.36
PCB-1232 Peak 2	4.94	4.92	4.96
PCB-1232 Peak 3	5.53	5.51	5.55
PCB-1232 Peak 4	5.69	5.68	5.71
PCB-1232 Peak 5	5.99	5.97	6.01
PCB-1262 Peak 1	7.80	7.78	7.82
PCB-1262 Peak 2	8.23	8.21	8.25
PCB-1262 Peak 3	8.50	8.48	8.52
PCB-1262 Peak 4	8.72	8.71	8.74
PCB-1262 Peak 5	9.04	9.02	9.06

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090904.D
 Lims ID: CCV AR1232/1262
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 13:50:09 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-004
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:31 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.749	1.749	0.000	29125284	0.0500	0.0500	
2	2.013	2.013	0.000	44017487	0.0500	0.0500	

4 PCB-1232

1	3.407	3.407	0.000	6004547	0.5000	0.4722	
1	3.980	3.980	0.000	4545059	0.5000	0.4711	
1	4.648	4.648	0.000	9714025	0.5000	0.4765	
1	4.822	4.822	0.000	4245272	0.5000	0.4825	
1	5.141	5.141	0.000	1546049	0.5000	0.4919	

Average of Peak Amounts = 0.4788

2	4.339	4.339	0.000	8550161	0.5000	0.4762	
2	4.936	4.936	0.000	6683165	0.5000	0.4837	
2	5.529	5.529	0.000	13108933	0.5000	0.4758	
2	5.694	5.694	0.000	5580915	0.5000	0.5019	
2	5.991	5.991	0.000	2734616	0.5000	0.5110	

Average of Peak Amounts = 0.4897

RPD = 2.25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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9 PCB-1262

1	6.996	6.996	0.000	14726017	0.5000	0.4516	
1	7.393	7.393	0.000	19173734	0.5000	0.3923	
1	7.633	7.633	0.000	16928355	0.5000	0.4274	
1	7.936	7.936	0.000	38584887	0.5000	0.4416	
1	8.233	8.233	0.000	15892607	0.5000	0.4318	

Average of Peak Amounts = 0.4289

2	7.797	7.797	0.000	14912094	0.5000	0.4574	
2	8.226	8.226	0.000	23384674	0.5000	0.4678	
2	8.497	8.497	0.000	19502825	0.5000	0.4571	
2	8.724	8.724	0.000	44525736	0.5000	0.4461	
2	9.038	9.038	0.000	32466247	0.5000	0.4419	

Average of Peak Amounts = 0.4541

RPD = 5.69

Reagents:

SG3262@0.5PPM_00053

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090904.D

Injection Date: 09-Sep-2022 13:50:09

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1232/1262

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

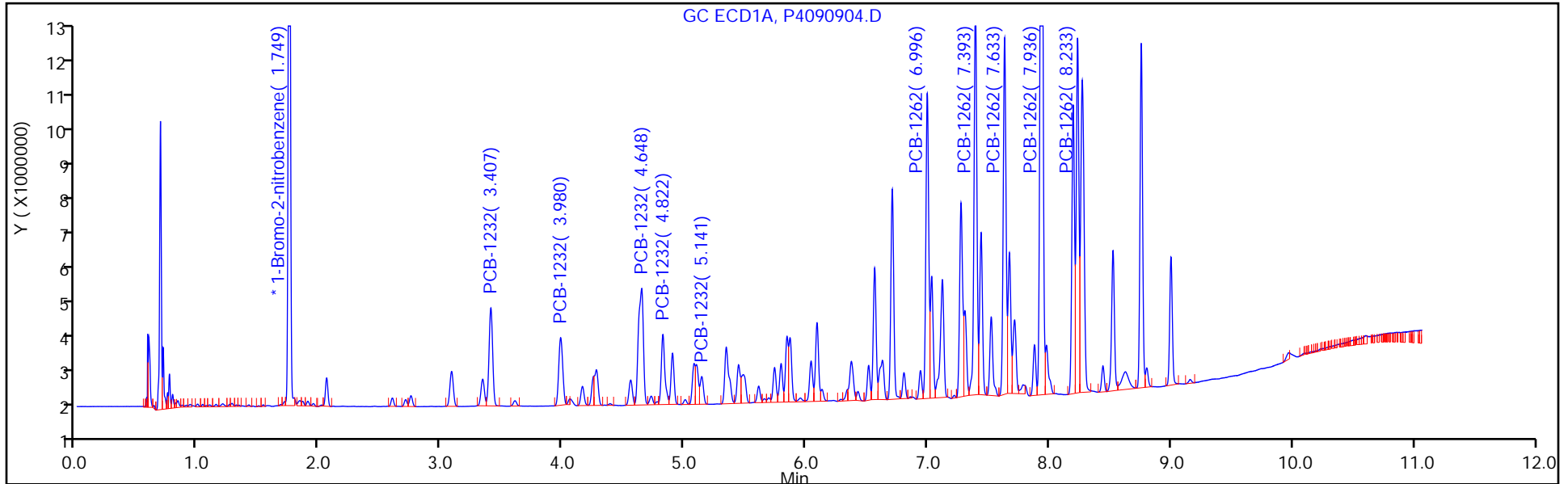
ALS Bottle#: 4

Method: PCB4 is

Limit Group: GC 8082A IS

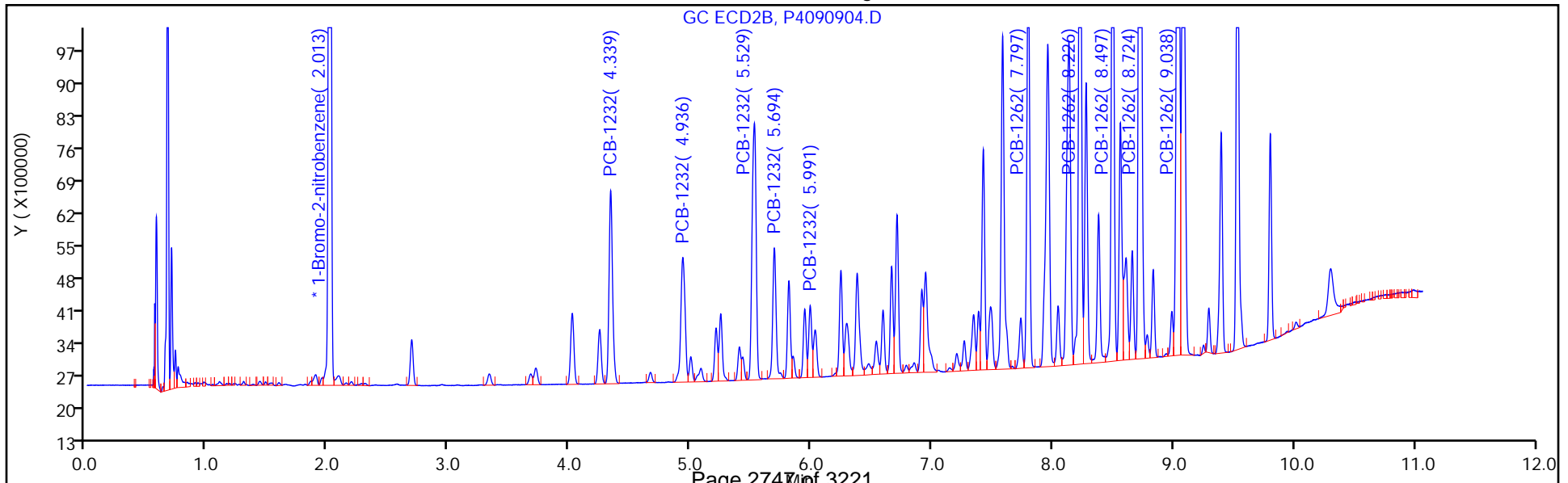
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/5 Calibration Date: 09/09/2022 14:07
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4090905.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0148	0.0142		0.480	0.500	-4.0	20.0
PCB-1242 Peak 2	Ave	0.0275	0.0259		0.472	0.500	-5.6	20.0
PCB-1242 Peak 3	Ave	0.0590	0.0549		0.465	0.500	-7.0	20.0
PCB-1242 Peak 4	Ave	0.0240	0.0223		0.463	0.500	-7.3	20.0
PCB-1242 Peak 5	Ave	0.0139	0.0126		0.456	0.500	-8.7	20.0
PCB-1268 Peak 1	Ave	0.1550	0.1360		0.439	0.500	-12.2	20.0
PCB-1268 Peak 2	Ave	0.1508	0.1314		0.436	0.500	-12.8	20.0
PCB-1268 Peak 3	Ave	0.1332	0.1157		0.434	0.500	-13.2	20.0
PCB-1268 Peak 4	Ave	0.0581	0.0508		0.437	0.500	-12.6	20.0
PCB-1268 Peak 5	Ave	0.4181	0.3619		0.433	0.500	-13.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/5 Calibration Date: 09/09/2022 14:07
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4090905.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.34	4.32	4.36
PCB-1242 Peak 2	4.93	4.92	4.95
PCB-1242 Peak 3	5.53	5.51	5.55
PCB-1242 Peak 4	5.69	5.68	5.71
PCB-1242 Peak 5	5.99	5.97	6.01
PCB-1268 Peak 1	9.04	9.02	9.06
PCB-1268 Peak 2	9.08	9.06	9.10
PCB-1268 Peak 3	9.30	9.28	9.32
PCB-1268 Peak 4	9.53	9.52	9.55
PCB-1268 Peak 5	9.81	9.79	9.82

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090905.D
 Lims ID: CCV AR1242/1268
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 14:07:51 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-005
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:32 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.747	1.747	0.000	27698124	0.0500	0.0500	
2	2.011	2.011	0.000	41917685	0.0500	0.0500	

5 PCB-1242

1	3.404	3.404	0.000	4236388	0.5000	0.4790	
1	3.979	3.979	0.000	7855445	0.5000	0.4687	
1	4.643	4.643	0.000	17073584	0.5000	0.4671	
1	4.819	4.819	0.000	7429726	0.5000	0.4706	
1	5.139	5.139	0.000	3038537	0.5000	0.4667	

Average of Peak Amounts = 0.4704

2	4.336	4.336	0.000	5954837	0.5000	0.4800	
2	4.934	4.934	0.000	10871495	0.5000	0.4720	
2	5.528	5.528	0.000	23011157	0.5000	0.4651	
2	5.694	5.694	0.000	9327885	0.5000	0.4633	
2	5.991	5.991	0.000	5299679	0.5000	0.4563	

Average of Peak Amounts = 0.4673

RPD = 0.65

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.233	8.233	0.000	48172866	0.5000	0.4311	
1	8.268	8.268	0.000	48535881	0.5000	0.4378	
1	8.441	8.441	0.000	41278649	0.5000	0.4380	
1	8.757	8.757	0.000	17935139	0.5000	0.4380	
1	9.002	9.002	0.000	137491152	0.5000	0.4384	
Average of Peak Amounts =						0.4367	
2	9.039	9.039	0.000	57027245	0.5000	0.4388	
2	9.078	9.078	0.000	55100018	0.5000	0.4359	
2	9.296	9.296	0.000	48485617	0.5000	0.4341	
2	9.534	9.534	0.000	21298163	0.5000	0.4370	
2	9.805	9.805	0.000	151716930	0.5000	0.4329	
Average of Peak Amounts =						0.4357	

RPD = 0.21

Reagents:

SG4268@0.5PPM_00054

Amount Added: 1.00

Units: mL

Report Date: 10-Sep-2022 07:44:32

Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090905.D

Injection Date: 09-Sep-2022 14:07:51

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1242/1268

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

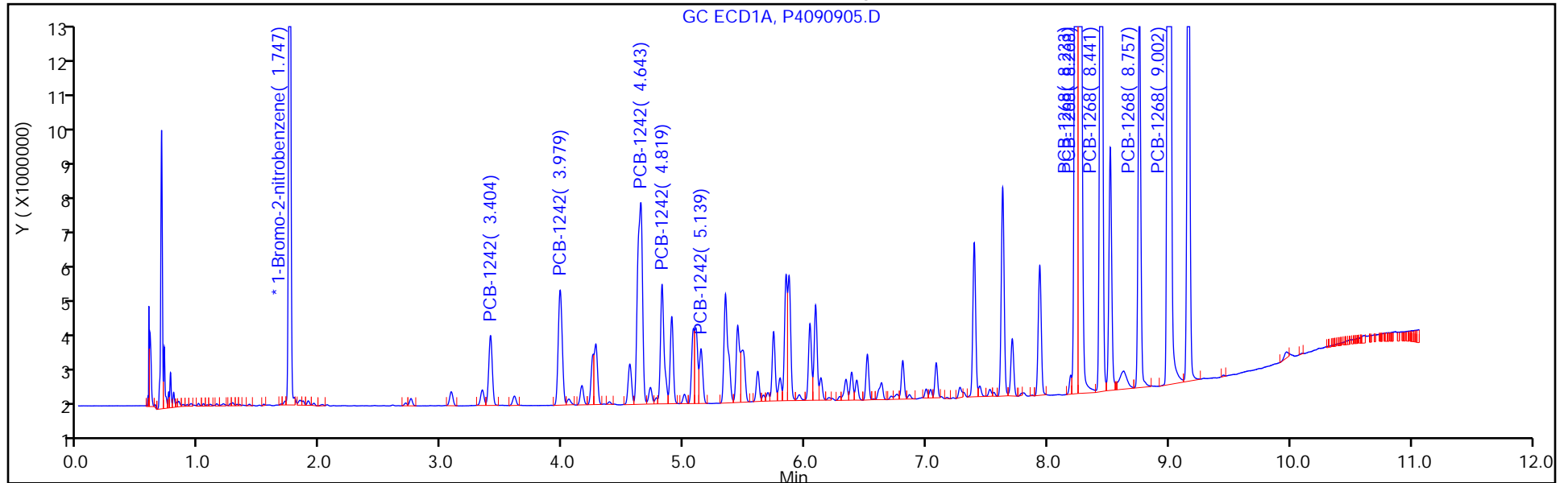
ALS Bottle#: 5

Method: PCB4 is

Limit Group: GC 8082A IS

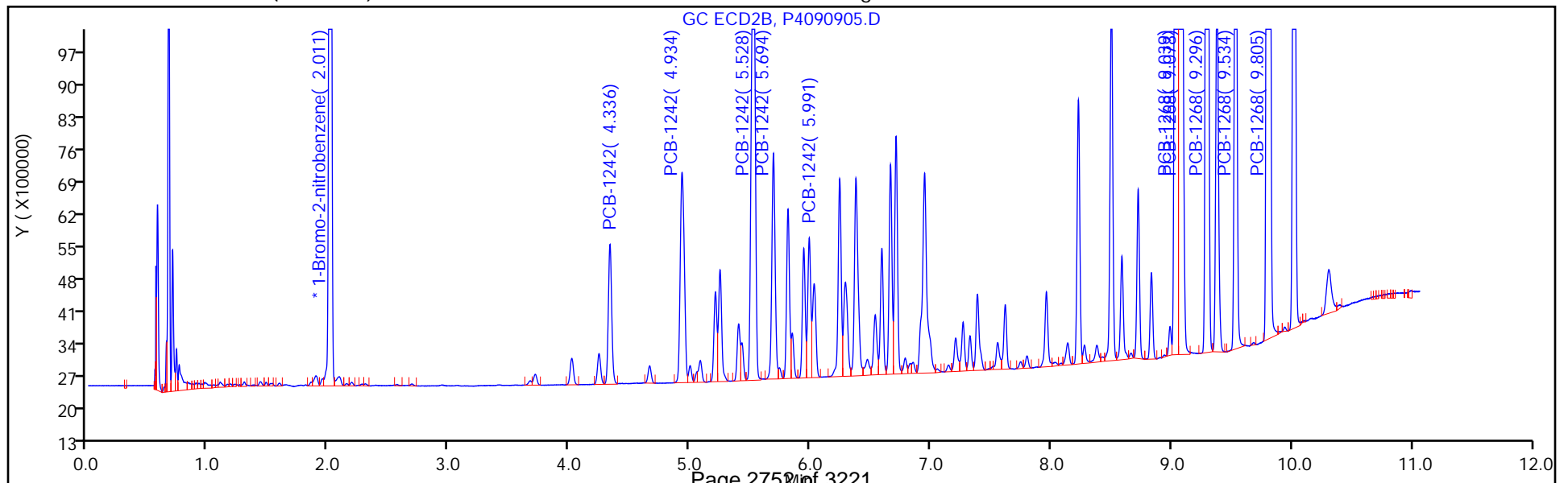
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/6 Calibration Date: 09/09/2022 14:25
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4090906.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0126	0.0117		0.465	0.500	-7.0	20.0
PCB-1248 Peak 2	Ave	0.0349	0.0323		0.462	0.500	-7.7	20.0
PCB-1248 Peak 3	Ave	0.0300	0.0298		0.496	0.500	-0.7	20.0
PCB-1248 Peak 4	Ave	0.0346	0.0329		0.476	0.500	-4.8	20.0
PCB-1248 Peak 5	Ave	0.0177	0.0169		0.478	0.500	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/6 Calibration Date: 09/09/2022 14:25
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4090906.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.93	4.92	4.95
PCB-1248 Peak 2	5.52	5.50	5.54
PCB-1248 Peak 3	6.38	6.36	6.40
PCB-1248 Peak 4	6.71	6.69	6.73
PCB-1248 Peak 5	7.39	7.37	7.41

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090906.D
 Lims ID: CCV AR1248
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 14:25:35 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-006
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:33 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.749	1.749	0.000	30749731	0.0500	0.0500	
2	2.013	2.013	0.000	46496587	0.0500	0.0500	

7 PCB-1248

1	3.980	3.980	0.000	4011385	0.5000	0.4629	
1	4.643	4.643	0.000	5026360	0.5000	0.2103	
1	5.342	5.342	0.000	12241154	0.5000	0.4688	
1	6.086	6.086	0.000	9369080	0.5000	0.4589	
1	6.512	6.512	0.000	6006602	0.5000	0.4627	

Average of Peak Amounts = 0.4127

2	4.934	4.934	0.000	5431445	0.5000	0.4648	
2	5.523	5.523	0.000	14999954	0.5000	0.4616	
2	6.378	6.378	0.000	13837860	0.5000	0.4963	
2	6.711	6.711	0.000	15300926	0.5000	0.4760	
2	7.387	7.387	0.000	7878781	0.5000	0.4782	

Average of Peak Amounts = 0.4754

RPD = 14.11

Reagents:

SG1248@0.5ppm_00058

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090906.D

Injection Date: 09-Sep-2022 14:25:35

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1248

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

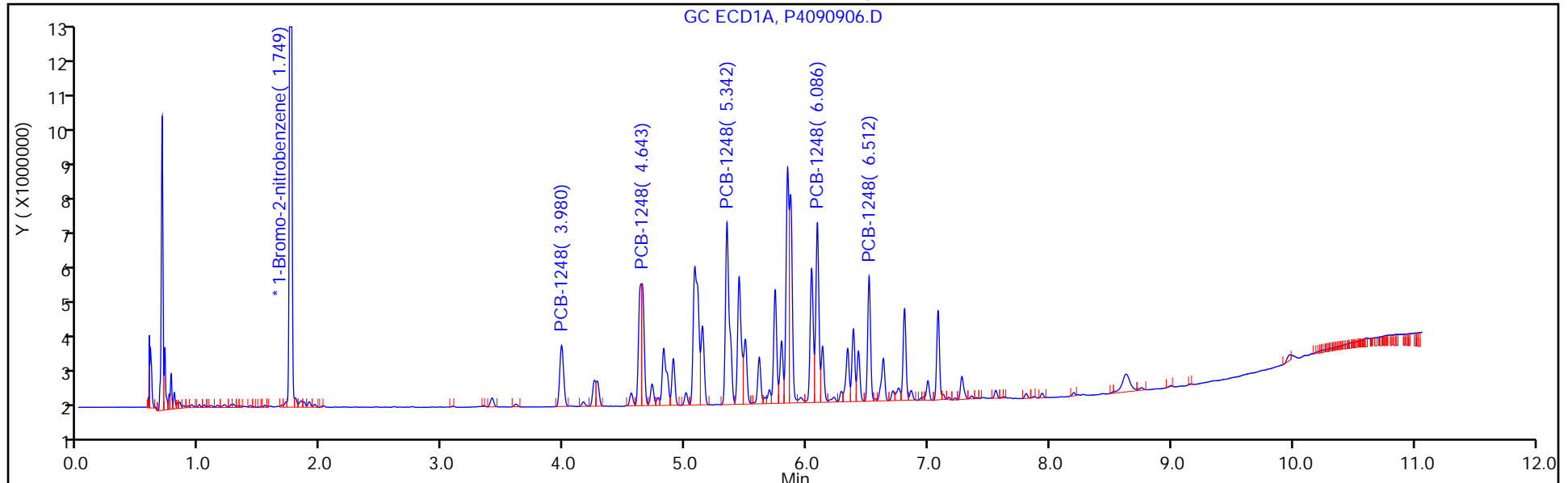
ALS Bottle#: 6

Method: PCB4 is

Limit Group: GC 8082A IS

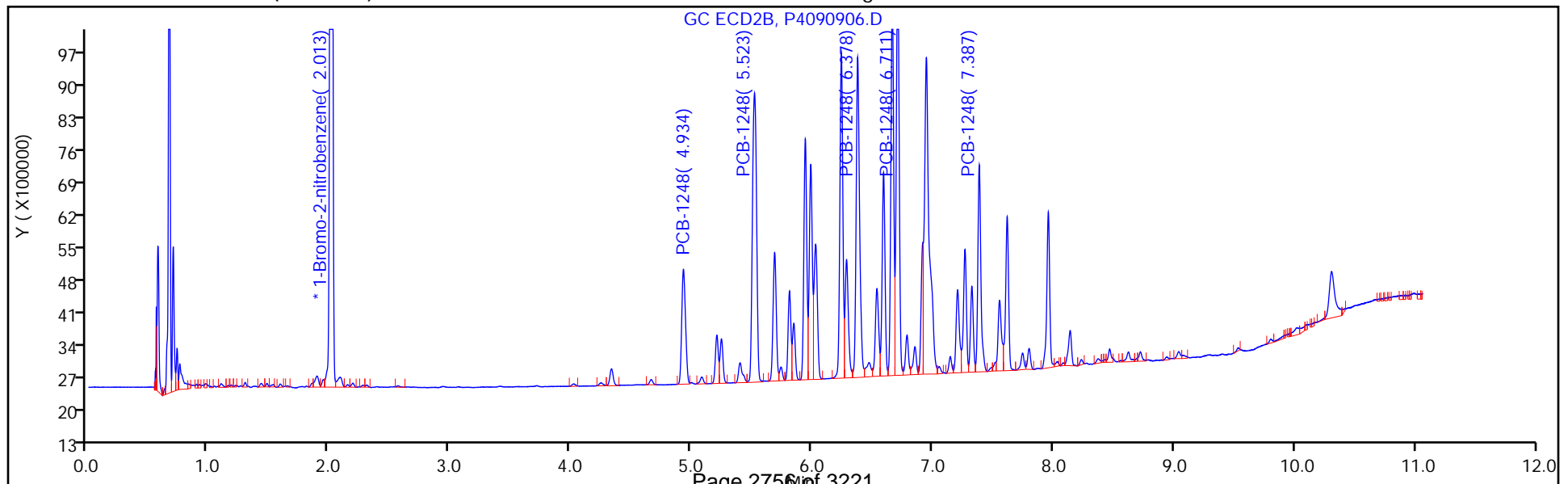
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/7 Calibration Date: 09/09/2022 14:43
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4090907.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0105	0.0100		0.476	0.500	-4.8	20.0
PCB-1221 Peak 2	Ave	0.0070	0.0067		0.477	0.500	-4.6	20.0
PCB-1221 Peak 3	Ave	0.0249	0.0236		0.474	0.500	-5.3	20.0
PCB-1254 Peak 1	Ave	0.0296	0.0280		0.472	0.500	-5.6	20.0
PCB-1254 Peak 2	Ave	0.0338	0.0323		0.478	0.500	-4.5	20.0
PCB-1254 Peak 3	Ave	0.0509	0.0476		0.468	0.500	-6.4	20.0
PCB-1254 Peak 4	Ave	0.0393	0.0361		0.460	0.500	-8.1	20.0
PCB-1254 Peak 5	Ave	0.0517	0.0470		0.455	0.500	-9.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542067/7 Calibration Date: 09/09/2022 14:43
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4090907.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.02	4.00	4.04
PCB-1221 Peak 2	4.25	4.23	4.26
PCB-1221 Peak 3	4.34	4.32	4.36
PCB-1254 Peak 1	6.71	6.69	6.73
PCB-1254 Peak 2	6.92	6.90	6.94
PCB-1254 Peak 3	7.39	7.37	7.41
PCB-1254 Peak 4	7.62	7.60	7.64
PCB-1254 Peak 5	8.14	8.12	8.16

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090907.D
 Lims ID: CCV AR1221/1254
 Client ID:
 Sample Type: CCV
 Inject. Date: 09-Sep-2022 14:43:24 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-007
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:34 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1: CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2: CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.749	1.749	0.000	29618781	0.0500	0.0500	
2	2.013	2.013	0.000	44723632	0.0500	0.0500	

3 PCB-1221

1	3.083	3.083	0.000	3097838	0.5000	0.4690	
1	3.339	3.339	0.000	2142812	0.5000	0.4875	
1	3.405	3.405	0.000	7464057	0.5000	0.4708	

Average of Peak Amounts = 0.4758

2	4.019	4.019	0.000	4472329	0.5000	0.4758	
2	4.245	4.245	0.000	2988781	0.5000	0.4770	
2	4.337	4.337	0.000	10565215	0.5000	0.4737	

Average of Peak Amounts = 0.4755

RPD = 0.05

8 PCB-1254

1	5.794	5.794	0.000	8857887	0.5000	0.4721	
1	6.092	6.092	0.000	12667170	0.5000	0.4657	
1	6.514	6.514	0.000	18224626	0.5000	0.4713	
1	6.806	6.806	0.000	14172706	0.5000	0.4697	
1	7.277	7.277	0.000	19074861	0.5000	0.4637	

Average of Peak Amounts = 0.4685

2	6.709	6.709	0.000	12514384	0.5000	0.4719	
2	6.918	6.918	0.000	14426271	0.5000	0.4775	
2	7.388	7.388	0.000	21286792	0.5000	0.4679	
2	7.619	7.619	0.000	16138141	0.5000	0.4596	
2	8.141	8.141	0.000	21029429	0.5000	0.4548	

Average of Peak Amounts = 0.4663

RPD = 0.46

Reagents:

SG2154@0.5PPM_00066

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090907.D

Injection Date: 09-Sep-2022 14:43:24

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1221/1254

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

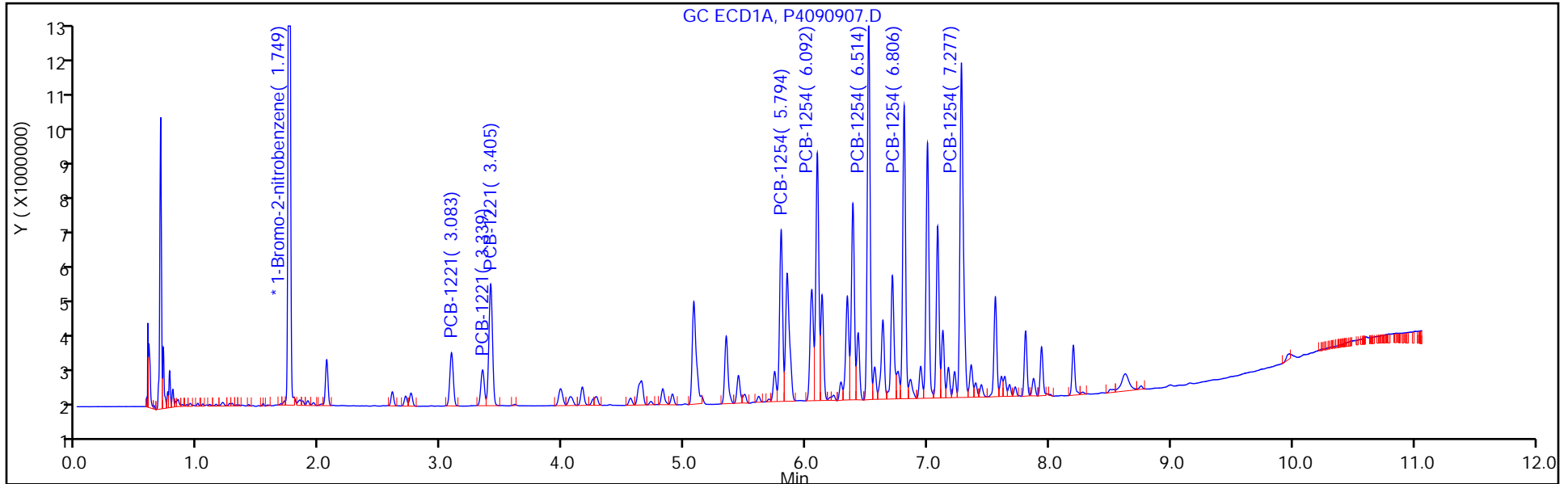
ALS Bottle#: 7

Method: PCB4 is

Limit Group: GC 8082A IS

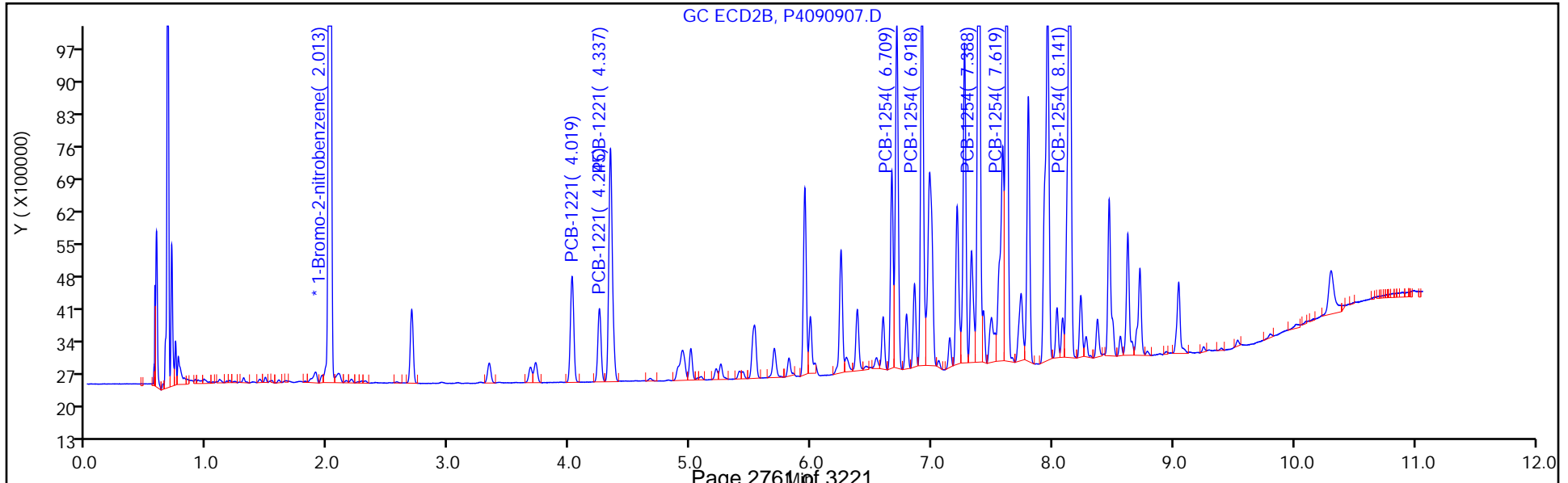
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-542067/27 Calibration Date: 09/09/2022 20:36
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4090927.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0164	0.0165		0.503	0.500	0.6	20.0
PCB-1016 Peak 2	Ave	0.0306	0.0308		0.503	0.500	0.7	20.0
PCB-1016 Peak 3	Ave	0.0656	0.0664		0.506	0.500	1.1	20.0
PCB-1016 Peak 4	Ave	0.0267	0.0268		0.503	0.500	0.5	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0138		0.516	0.500	3.2	20.0
PCB-1260 Peak 1	Ave	0.0376	0.0394		0.524	0.500	4.8	20.0
PCB-1260 Peak 2	Ave	0.0461	0.0486		0.527	0.500	5.4	20.0
PCB-1260 Peak 3	Ave	0.0626	0.0663		0.530	0.500	6.0	20.0
PCB-1260 Peak 4	Ave	0.0963	0.1018		0.528	0.500	5.7	20.0
PCB-1260 Peak 5	Ave	0.0677	0.0702		0.518	0.500	3.6	20.0
Tetrachloro-m-xylene	Lin1		0.9481		0.0259	0.0250	3.8	20.0
DCB Decachlorobiphenyl	Lin1		0.9720		0.0269	0.0250	7.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-542067/27 Calibration Date: 09/09/2022 20:36
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4090927.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.32	4.36
PCB-1016 Peak 2	4.94	4.92	4.96
PCB-1016 Peak 3	5.53	5.51	5.55
PCB-1016 Peak 4	5.69	5.68	5.71
PCB-1016 Peak 5	5.95	5.93	5.97
PCB-1260 Peak 1	7.59	7.57	7.61
PCB-1260 Peak 2	7.80	7.78	7.82
PCB-1260 Peak 3	8.14	8.12	8.16
PCB-1260 Peak 4	8.73	8.71	8.74
PCB-1260 Peak 5	9.04	9.02	9.06
Tetrachloro-m-xylene	3.47	3.45	3.49
DCB Decachlorobiphenyl	10.02	10.00	10.04

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090927.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-Sep-2022 20:36:10 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-027
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:55:25 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 10-Sep-2022 07:55:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.749	1.749	0.000	27779178	0.0500	0.0500	
2	2.013	2.013	0.000	42377006	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.763	2.763	0.000	13463211	0.0250	0.0261	
2	3.472	3.472	0.000	20089816	0.0250	0.0259	

RPD = 0.42

6 PCB-1016

1	3.408	3.408	0.000	5094946	0.5000	0.5088	
1	3.980	3.980	0.000	9375384	0.5000	0.5051	
1	4.646	4.646	0.000	21040114	0.5000	0.5164	
1	4.821	4.821	0.000	9088717	0.5000	0.5146	
1	5.141	5.141	0.000	3740591	0.5000	0.5249	

Average of Peak Amounts = 0.5140

2	4.338	4.338	0.000	7008893	0.5000	0.5031	
2	4.936	4.936	0.000	13042574	0.5000	0.5035	
2	5.529	5.529	0.000	28131239	0.5000	0.5057	
2	5.694	5.694	0.000	11359008	0.5000	0.5027	
2	5.947	5.947	0.000	5827449	0.5000	0.5159	

Average of Peak Amounts = 0.5062

RPD = 1.53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.712	6.712	0.000	13615844	0.5000	0.5085	
1	7.000	7.000	0.000	22295394	0.5000	0.5184	
1	7.277	7.277	0.000	24760348	0.5000	0.5109	
1	7.937	7.937	0.000	35638199	0.5000	0.5259	
1	8.198	8.198	0.000	17855822	0.5000	0.5190	

Average of Peak Amounts = 0.5165

2	7.588	7.588	0.000	16714544	0.5000	0.5241	
2	7.799	7.799	0.000	20575141	0.5000	0.5270	
2	8.138	8.138	0.000	28106881	0.5000	0.5300	
2	8.725	8.725	0.000	43119956	0.5000	0.5284	
2	9.043	9.043	0.000	29743341	0.5000	0.5182	

Average of Peak Amounts = 0.5255

RPD = 1.72

\$ 12 DCB Decachlorobiphenyl

1	9.163	9.163	0.000	17681133	0.0250	0.0274	
2	10.017	10.017	0.000	20595251	0.0250	0.0269	

RPD = 1.69

16 1260 Res 1

1		8.199			ND	ND	U
2		7.428					

13 1260 Res 2

1		8.234			ND	ND	U
2		8.725					

15 1260 Res 3

1		8.274			ND	ND	U
2		0.736					

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

SG1660@0.5PPM_00116

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromf\Canton\ChromData\A2HP4\20220909-121964.b\P4090927.D

Injection Date: 09-Sep-2022 20:36:10

Instrument ID: A2HP4

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

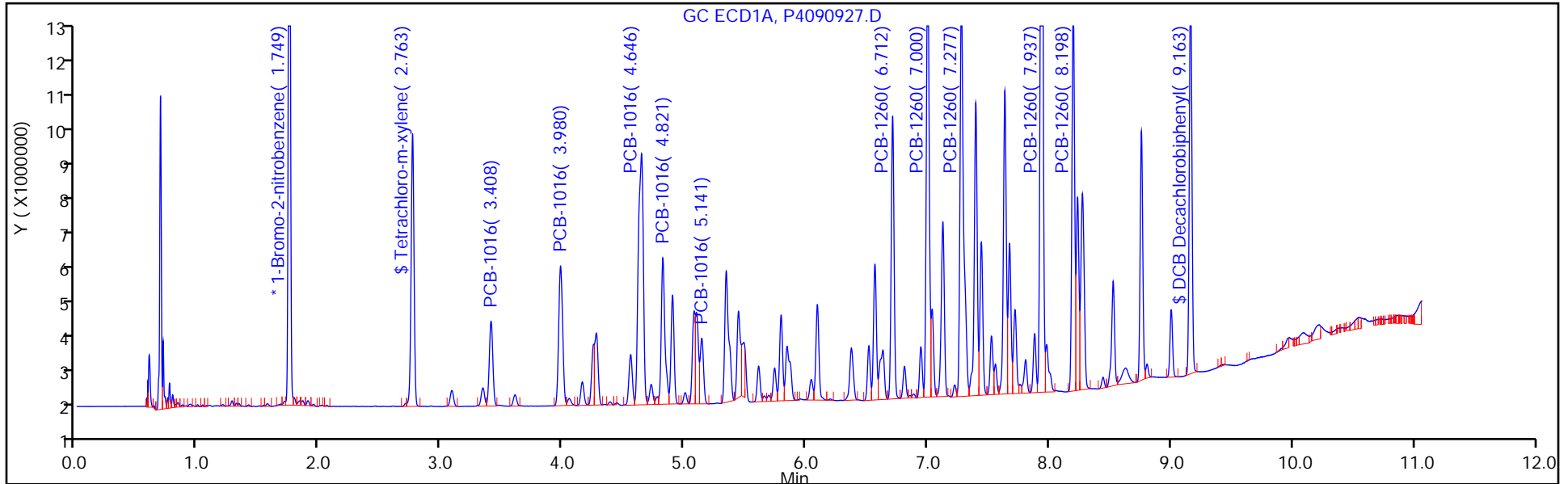
ALS Bottle#: 27

Method: PCB4 is

Limit Group: GC 8082A IS

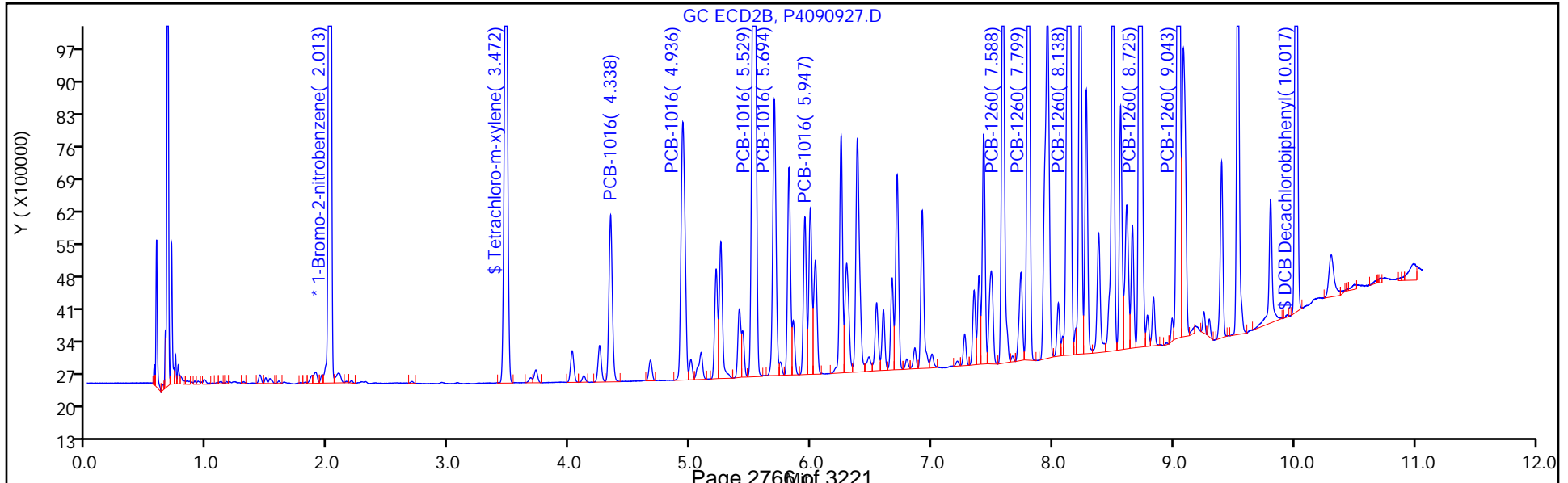
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/3 Calibration Date: 09/12/2022 06:50
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4091203.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0105	0.0104		0.493	0.500	-1.3	20.0
PCB-1221 Peak 2	Ave	0.0070	0.0070		0.499	0.500	-0.3	20.0
PCB-1221 Peak 3	Ave	0.0249	0.0246		0.494	0.500	-1.1	20.0
PCB-1254 Peak 1	Ave	0.0296	0.0303		0.511	0.500	2.2	20.0
PCB-1254 Peak 2	Ave	0.0338	0.0358		0.530	0.500	6.1	20.0
PCB-1254 Peak 3	Ave	0.0509	0.0524		0.515	0.500	3.0	20.0
PCB-1254 Peak 4	Ave	0.0393	0.0401		0.511	0.500	2.1	20.0
PCB-1254 Peak 5	Ave	0.0517	0.0528		0.511	0.500	2.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/3 Calibration Date: 09/12/2022 06:50
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 15:36
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 17:04
 Lab File ID: P4091203.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.01	3.99	4.03
PCB-1221 Peak 2	4.24	4.22	4.26
PCB-1221 Peak 3	4.33	4.31	4.35
PCB-1254 Peak 1	6.70	6.69	6.72
PCB-1254 Peak 2	6.91	6.90	6.93
PCB-1254 Peak 3	7.39	7.37	7.40
PCB-1254 Peak 4	7.62	7.60	7.64
PCB-1254 Peak 5	8.14	8.12	8.16

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091203.D
 Lims ID: CCV AR1254
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Sep-2022 06:50:01 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-003
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 10:22:51 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

First Level Reviewer: WRR8 Date: 12-Sep-2022 08:03:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.741	1.741	0.000	28473612	0.0500	0.0500	
2	2.004	2.004	0.000	42661723	0.0500	0.0500	

3 PCB-1221

1	3.071	3.071	0.000	3062548	0.5000	0.4823	
1	3.326	3.326	0.000	2118125	0.5000	0.5013	
1	3.394	3.394	0.000	7447457	0.5000	0.4886	

Average of Peak Amounts = 0.4907

2	4.013	4.013	0.000	4424014	0.5000	0.4934	
2	4.240	4.240	0.000	2979954	0.5000	0.4986	
2	4.332	4.332	0.000	10516095	0.5000	0.4943	

Average of Peak Amounts = 0.4954

RPD = 0.95

8 PCB-1254

1	5.791	5.791	0.000	9187382	0.5000	0.5094	
1	6.089	6.089	0.000	13197323	0.5000	0.5047	
1	6.511	6.511	0.000	19085196	0.5000	0.5134	
1	6.802	6.802	0.000	14830077	0.5000	0.5112	
1	7.275	7.275	0.000	20012990	0.5000	0.5061	

Average of Peak Amounts = 0.5090

2	6.704	6.704	0.000	12929612	0.5000	0.5111	
2	6.914	6.914	0.000	15287260	0.5000	0.5305	
2	7.385	7.385	0.000	22354497	0.5000	0.5151	
2	7.616	7.616	0.000	17105817	0.5000	0.5107	
2	8.136	8.136	0.000	22521463	0.5000	0.5106	

Average of Peak Amounts = 0.5156

RPD = 1.29

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

SG2154@0.5PPM_00066

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091203.D

Injection Date: 12-Sep-2022 06:50:01

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1254

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

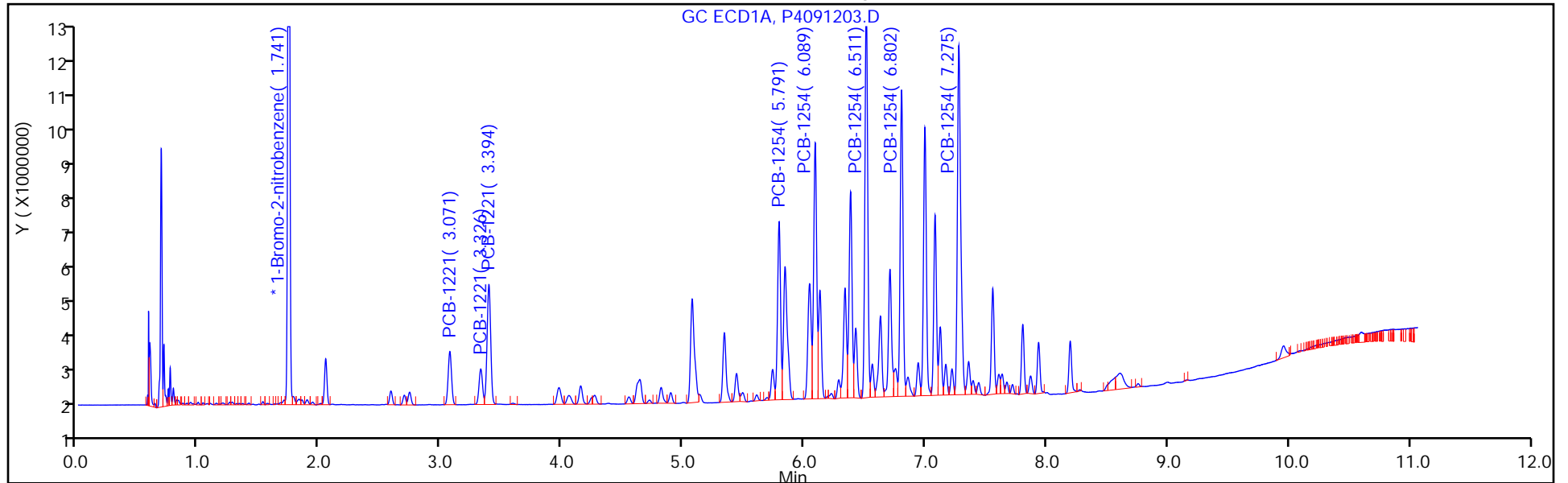
ALS Bottle#: 3

Method: PCB4 is

Limit Group: GC 8082A IS

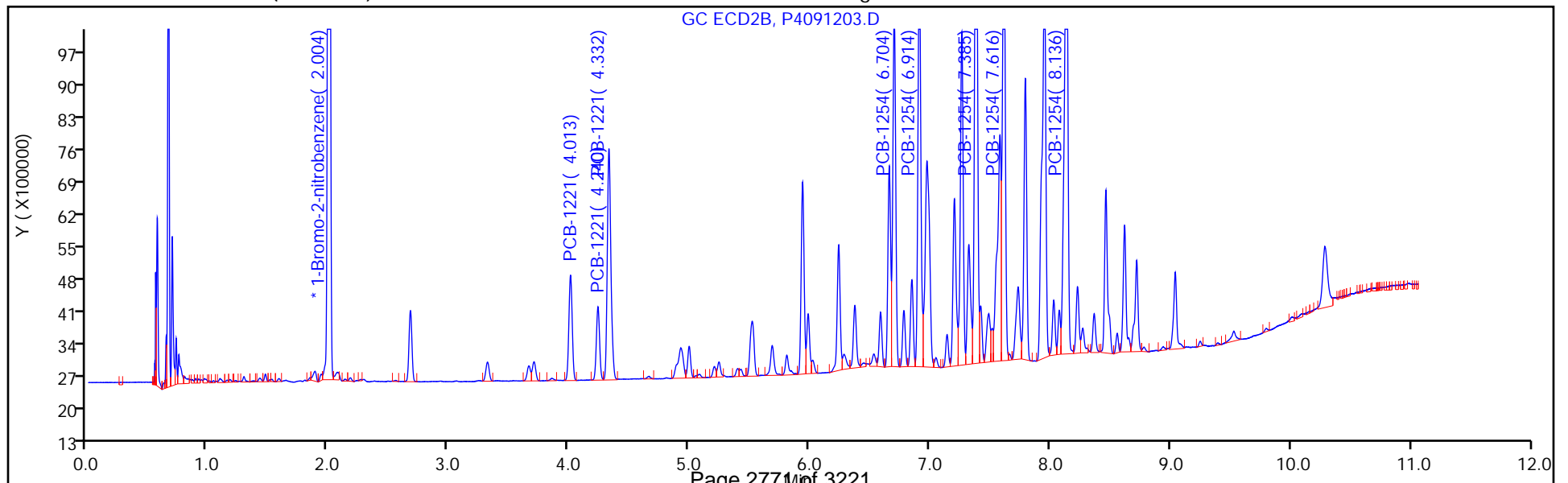
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/4 Calibration Date: 09/12/2022 07:07
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4091204.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0126	0.0122		0.485	0.500	-3.0	20.0
PCB-1248 Peak 2	Ave	0.0349	0.0339		0.485	0.500	-3.1	20.0
PCB-1248 Peak 3	Ave	0.0300	0.0319		0.531	0.500	6.2	20.0
PCB-1248 Peak 4	Ave	0.0346	0.0357		0.517	0.500	3.4	20.0
PCB-1248 Peak 5	Ave	0.0177	0.0186		0.525	0.500	5.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/4 Calibration Date: 09/12/2022 07:07
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 13:50
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 15:18
 Lab File ID: P4091204.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.93	4.91	4.95
PCB-1248 Peak 2	5.52	5.50	5.54
PCB-1248 Peak 3	6.38	6.36	6.40
PCB-1248 Peak 4	6.71	6.69	6.73
PCB-1248 Peak 5	7.39	7.37	7.41

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091204.D
 Lims ID: CCV AR1248
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Sep-2022 07:07:24 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-004
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub3
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 10:22:53 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

First Level Reviewer: WRR8 Date: 12-Sep-2022 08:04:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene							
1	1.745	1.745	0.000	27207412	0.0500	0.0500	
2	2.010	2.010	0.000	41273843	0.0500	0.0500	
7 PCB-1248							
1	3.977	3.977	0.000	3665434	0.5000	0.4780	M
1	4.641	4.641	0.000	10736074	0.5000	0.5077	M
1	5.340	5.340	0.000	11552825	0.5000	0.5000	
1	6.086	6.086	0.000	8956840	0.5000	0.4959	
1	6.513	6.513	0.000	5785502	0.5000	0.5037	
Average of Peak Amounts =						0.4971	
2	4.933	4.933	0.000	5028781	0.5000	0.4848	
2	5.522	5.522	0.000	13982804	0.5000	0.4847	
2	6.379	6.379	0.000	13146128	0.5000	0.5312	
2	6.711	6.711	0.000	14751533	0.5000	0.5170	
2	7.386	7.386	0.000	7677430	0.5000	0.5249	
Average of Peak Amounts =						0.5085	
RPD = 2.28							

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG1248@0.5ppm_00058

Amount Added: 1.00

Units: mL

Report Date: 12-Sep-2022 10:22:53

Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091204.D

Injection Date: 12-Sep-2022 07:07:24

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1248

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

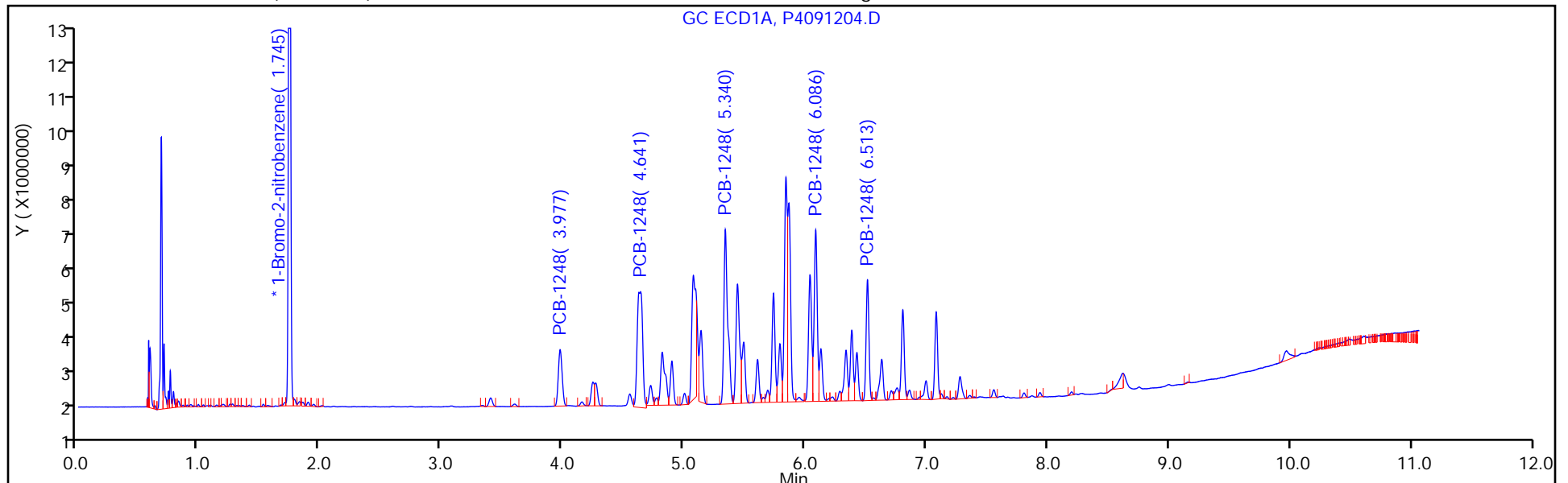
ALS Bottle#: 4

Method: PCB4 is

Limit Group: GC 8082A IS

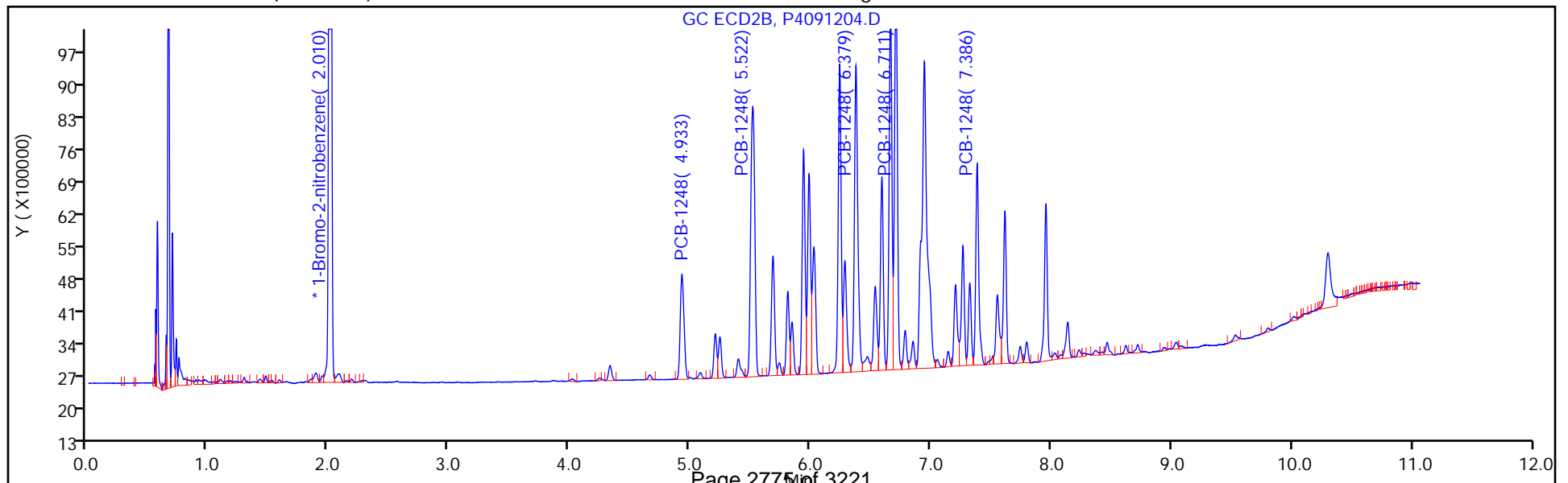
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/5 Calibration Date: 09/12/2022 07:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4091205.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0148	0.0142		0.480	0.500	-4.0	20.0
PCB-1242 Peak 2	Ave	0.0275	0.0262		0.477	0.500	-4.7	20.0
PCB-1242 Peak 3	Ave	0.0590	0.0558		0.473	0.500	-5.4	20.0
PCB-1242 Peak 4	Ave	0.0240	0.0228		0.474	0.500	-5.2	20.0
PCB-1242 Peak 5	Ave	0.0139	0.0130		0.468	0.500	-6.5	20.0
PCB-1268 Peak 1	Ave	0.1550	0.1361		0.439	0.500	-12.2	20.0
PCB-1268 Peak 2	Ave	0.1508	0.1317		0.437	0.500	-12.6	20.0
PCB-1268 Peak 3	Ave	0.1332	0.1171		0.439	0.500	-12.1	20.0
PCB-1268 Peak 4	Ave	0.0581	0.0510		0.438	0.500	-12.3	20.0
PCB-1268 Peak 5	Ave	0.4181	0.3607		0.431	0.500	-13.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/5 Calibration Date: 09/12/2022 07:24
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 12:04
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 13:32
 Lab File ID: P4091205.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.34	4.32	4.36
PCB-1242 Peak 2	4.94	4.92	4.95
PCB-1242 Peak 3	5.53	5.51	5.55
PCB-1242 Peak 4	5.69	5.68	5.71
PCB-1242 Peak 5	5.99	5.97	6.01
PCB-1268 Peak 1	9.04	9.02	9.06
PCB-1268 Peak 2	9.08	9.06	9.10
PCB-1268 Peak 3	9.29	9.28	9.31
PCB-1268 Peak 4	9.53	9.51	9.55
PCB-1268 Peak 5	9.80	9.78	9.82

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091205.D
 Lims ID: CCV AR1242/1268
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Sep-2022 07:24:58 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-005
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub2
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 10:22:54 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.747	1.747	0.000	28709713	0.0500	0.0500	
2	2.011	2.011	0.000	43817485	0.0500	0.0500	

5 PCB-1242

1	3.406	3.406	0.000	4470217	0.5000	0.4877	
1	3.978	3.978	0.000	8240595	0.5000	0.4743	
1	4.645	4.645	0.000	18176404	0.5000	0.4797	
1	4.820	4.820	0.000	7857577	0.5000	0.4802	
1	5.142	5.142	0.000	3231360	0.5000	0.4788	

Average of Peak Amounts = 0.4801

2	4.336	4.336	0.000	6222372	0.5000	0.4799	
2	4.935	4.935	0.000	11475272	0.5000	0.4766	
2	5.529	5.529	0.000	24466885	0.5000	0.4730	
2	5.694	5.694	0.000	9974298	0.5000	0.4739	
2	5.992	5.992	0.000	5676158	0.5000	0.4676	

Average of Peak Amounts = 0.4742

RPD = 1.24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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11 PCB-1268

1	8.235	8.235	0.000	50970963	0.5000	0.4400	
1	8.270	8.270	0.000	50596672	0.5000	0.4403	
1	8.444	8.444	0.000	43080121	0.5000	0.4410	
1	8.759	8.759	0.000	18310284	0.5000	0.4314	
1	9.003	9.003	0.000	141544699	0.5000	0.4354	
Average of Peak Amounts =						0.4376	
2	9.037	9.037	0.000	59632363	0.5000	0.4389	
2	9.077	9.077	0.000	57706074	0.5000	0.4368	
2	9.294	9.294	0.000	51303935	0.5000	0.4394	
2	9.532	9.532	0.000	22339121	0.5000	0.4384	
2	9.802	9.802	0.000	158039122	0.5000	0.4313	
Average of Peak Amounts =						0.4370	

RPD = 0.15

Reagents:

SG4268@0.5PPM_00054

Amount Added: 1.00

Units: mL

Report Date: 12-Sep-2022 10:22:55

Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091205.D

Injection Date: 12-Sep-2022 07:24:58

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1242/1268

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

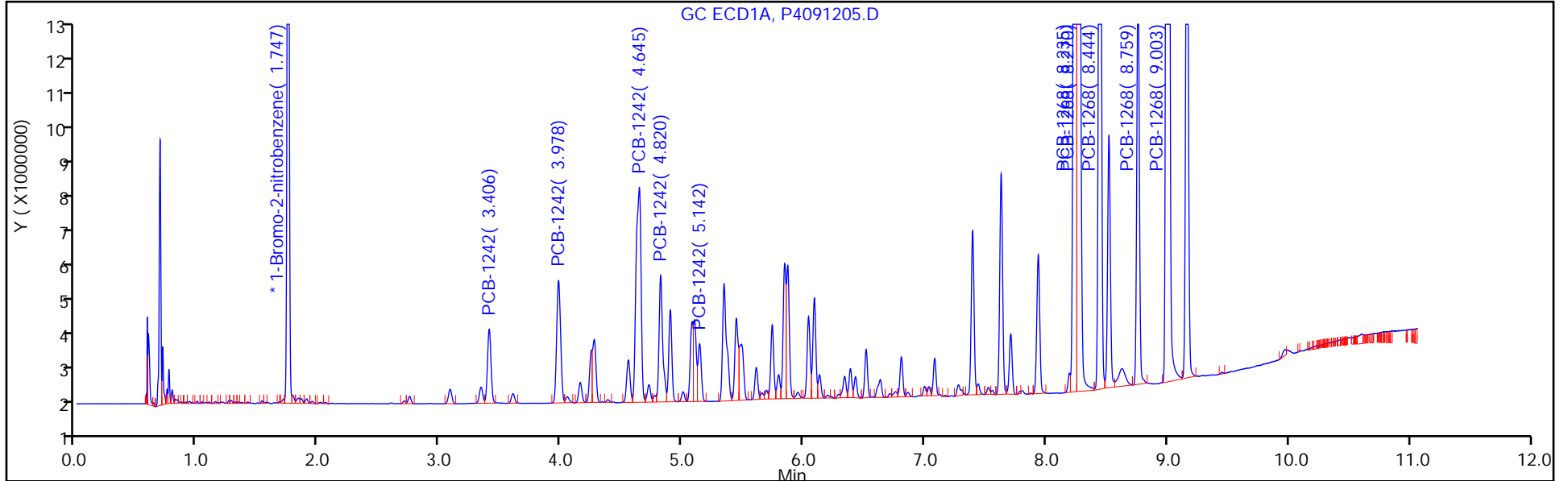
ALS Bottle#: 5

Method: PCB4 is

Limit Group: GC 8082A IS

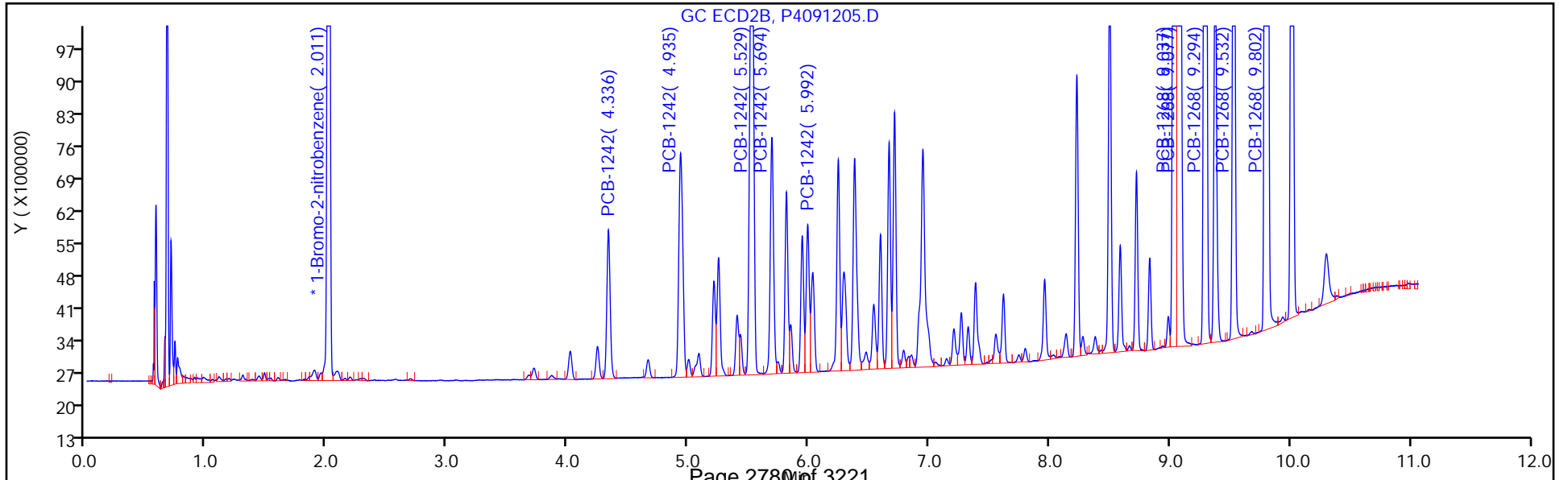
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/6 Calibration Date: 09/12/2022 07:42
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4091206.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0204	0.0200		0.490	0.500	-2.0	20.0
PCB-1232 Peak 2	Ave	0.0157	0.0157		0.499	0.500	-0.2	20.0
PCB-1232 Peak 3	Ave	0.0313	0.0307		0.490	0.500	-1.9	20.0
PCB-1232 Peak 4	Ave	0.0126	0.0126		0.498	0.500	-0.3	20.0
PCB-1232 Peak 5	Ave	0.0061	0.0065		0.533	0.500	6.6	20.0
PCB-1262 Peak 1	Ave	0.0370	0.0373		0.504	0.500	0.8	20.0
PCB-1262 Peak 2	Ave	0.0568	0.0578		0.509	0.500	1.9	20.0
PCB-1262 Peak 3	Ave	0.0485	0.0482		0.497	0.500	-0.6	20.0
PCB-1262 Peak 4	Ave	0.1134	0.1119		0.494	0.500	-1.3	20.0
PCB-1262 Peak 5	Ave	0.0835	0.0816		0.489	0.500	-2.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/6 Calibration Date: 09/12/2022 07:42
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 10:18
 GC Column: CLP-2 (0.53mm) ID: 0.53(mm) Calib End Date: 08/16/2022 11:46
 Lab File ID: P4091206.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.34	4.32	4.36
PCB-1232 Peak 2	4.94	4.92	4.95
PCB-1232 Peak 3	5.53	5.51	5.55
PCB-1232 Peak 4	5.69	5.68	5.71
PCB-1232 Peak 5	5.99	5.97	6.01
PCB-1262 Peak 1	7.80	7.78	7.82
PCB-1262 Peak 2	8.23	8.21	8.25
PCB-1262 Peak 3	8.50	8.48	8.52
PCB-1262 Peak 4	8.72	8.70	8.74
PCB-1262 Peak 5	9.04	9.02	9.06

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091206.D
 Lims ID: CCV AR1232/1262
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Sep-2022 07:42:26 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-006
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub1
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 10:22:56 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

First Level Reviewer: WRR8 Date: 12-Sep-2022 08:04:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.749	1.749	0.000	26454474	0.0500	0.0500	
2	2.014	2.014	0.000	40757792	0.0500	0.0500	

4 PCB-1232

1	3.404	3.404	0.000	5670165	0.5000	0.4909	
1	3.979	3.979	0.000	4378606	0.5000	0.4997	
1	4.645	4.645	0.000	9251174	0.5000	0.4996	
1	4.821	4.821	0.000	4071786	0.5000	0.5095	
1	5.141	5.141	0.000	1492458	0.5000	0.5227	

Average of Peak Amounts = 0.5045

2	4.337	4.337	0.000	8147225	0.5000	0.4901	
2	4.935	4.935	0.000	6385739	0.5000	0.4991	
2	5.529	5.529	0.000	12508186	0.5000	0.4903	
2	5.694	5.694	0.000	5131528	0.5000	0.4984	
2	5.992	5.992	0.000	2641383	0.5000	0.5331	

Average of Peak Amounts = 0.5022

RPD = 0.46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	6.998	6.998	0.000	14922615	0.5000	0.5039	
1	7.394	7.394	0.000	19749932	0.5000	0.4449	
1	7.634	7.634	0.000	17607948	0.5000	0.4894	
1	7.936	7.936	0.000	39662596	0.5000	0.4998	
1	8.234	8.234	0.000	16513674	0.5000	0.4940	

Average of Peak Amounts = 0.4864

2	7.797	7.797	0.000	15207404	0.5000	0.5038	
2	8.226	8.226	0.000	23577852	0.5000	0.5094	
2	8.497	8.497	0.000	19642603	0.5000	0.4971	
2	8.723	8.723	0.000	45624061	0.5000	0.4937	
2	9.039	9.039	0.000	33263161	0.5000	0.4889	

Average of Peak Amounts = 0.4986

RPD = 2.48

Reagents:

SG3262@0.5PPM_00053

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091206.D

Injection Date: 12-Sep-2022 07:42:26

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1232/1262

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

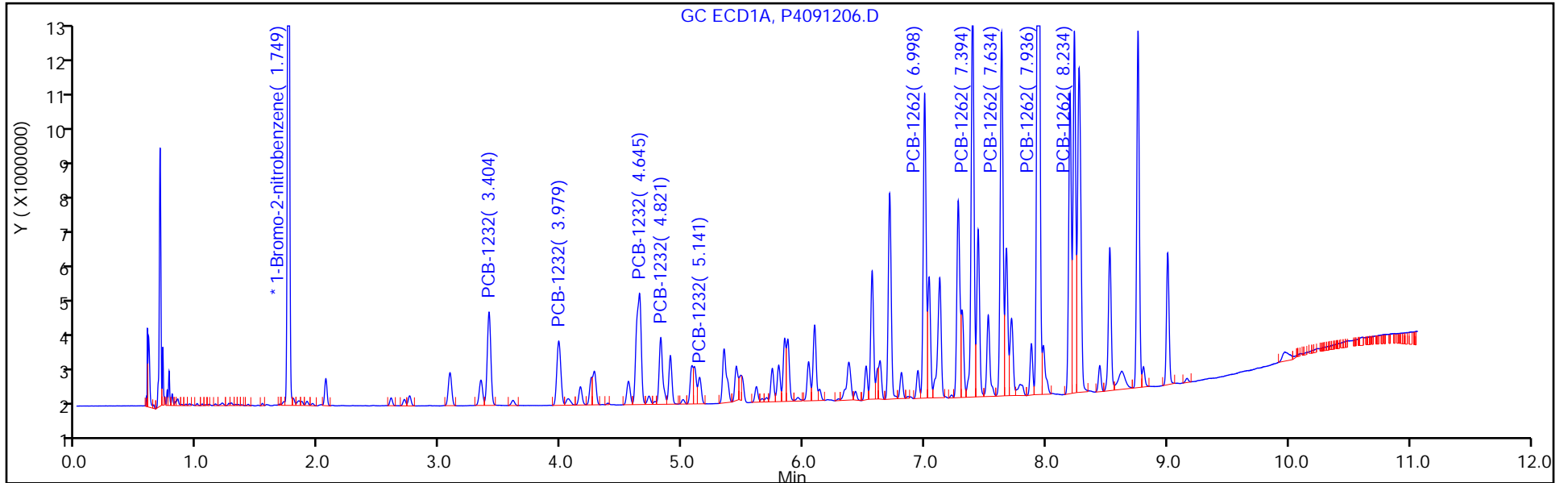
ALS Bottle#: 6

Method: PCB4 is

Limit Group: GC 8082A IS

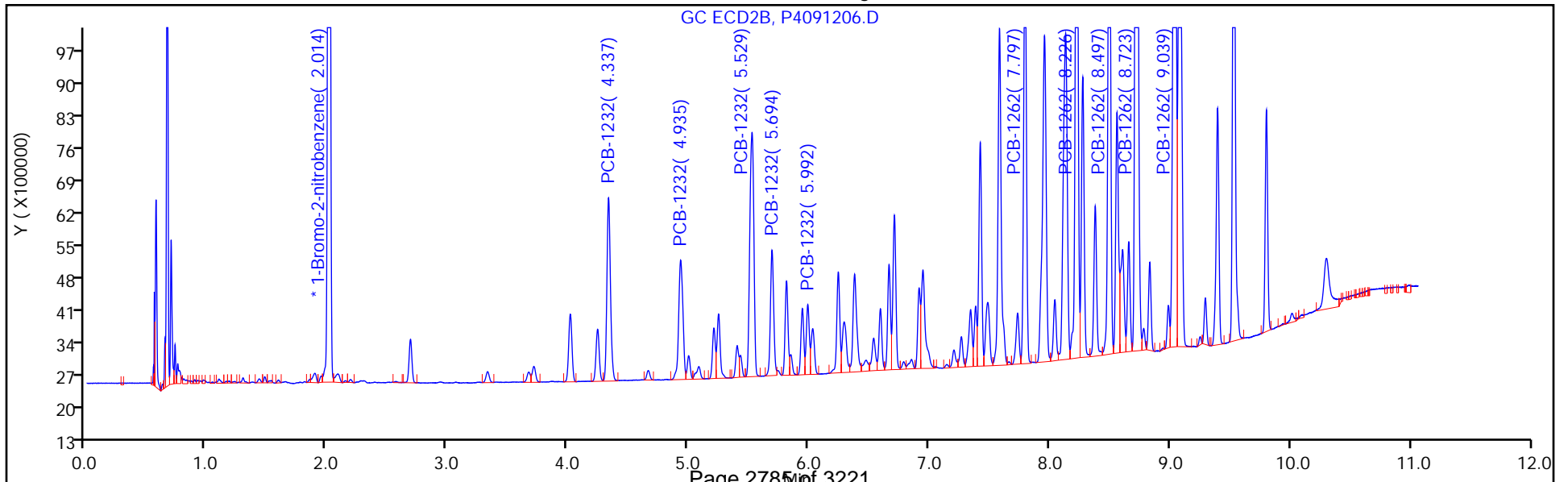
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/7 Calibration Date: 09/12/2022 07:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4091207.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0164	0.0161		0.488	0.500	-2.3	20.0
PCB-1016 Peak 2	Ave	0.0306	0.0297		0.486	0.500	-2.7	20.0
PCB-1016 Peak 3	Ave	0.0656	0.0637		0.485	0.500	-2.9	20.0
PCB-1016 Peak 4	Ave	0.0267	0.0259		0.485	0.500	-3.0	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0132		0.494	0.500	-1.3	20.0
PCB-1260 Peak 1	Ave	0.0376	0.0382		0.507	0.500	1.4	20.0
PCB-1260 Peak 2	Ave	0.0461	0.0468		0.508	0.500	1.5	20.0
PCB-1260 Peak 3	Ave	0.0626	0.0640		0.511	0.500	2.2	20.0
PCB-1260 Peak 4	Ave	0.0963	0.0972		0.505	0.500	1.0	20.0
PCB-1260 Peak 5	Ave	0.0677	0.0680		0.502	0.500	0.4	20.0
Tetrachloro-m-xylene	Lin1		0.9265		0.0253	0.0250	1.4	20.0
DCB Decachlorobiphenyl	Lin1		0.9649		0.0267	0.0250	7.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Lab Sample ID: CCV 240-542120/7 Calibration Date: 09/12/2022 07:59
 Instrument ID: A2HP4 Calib Start Date: 08/16/2022 17:21
 GC Column: CLP-2 (0.53mm) ID: 0.53 (mm) Calib End Date: 08/16/2022 18:49
 Lab File ID: P4091207.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.33	4.31	4.35
PCB-1016 Peak 2	4.93	4.91	4.95
PCB-1016 Peak 3	5.53	5.51	5.55
PCB-1016 Peak 4	5.69	5.67	5.71
PCB-1016 Peak 5	5.94	5.92	5.96
PCB-1260 Peak 1	7.58	7.56	7.60
PCB-1260 Peak 2	7.80	7.78	7.82
PCB-1260 Peak 3	8.14	8.12	8.15
PCB-1260 Peak 4	8.72	8.70	8.74
PCB-1260 Peak 5	9.04	9.02	9.06
Tetrachloro-m-xylene	3.46	3.44	3.48
DCB Decachlorobiphenyl	10.02	10.00	10.04

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091207.D
 Lims ID: CCV AR1660
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 12-Sep-2022 07:59:54 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121971-007
 Operator ID: Instrument ID: A2HP4
 Sublist: chrom-PCB4 is*sub5
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 12-Sep-2022 11:16:01 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1655

First Level Reviewer: WRR8 Date: 12-Sep-2022 11:16:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.744	1.744	0.000	27241255	0.0500	0.0500	
2	2.009	2.009	0.000	41389742	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.758	2.758	0.000	12717993	0.0250	0.0251	
2	3.463	3.463	0.000	19174573	0.0250	0.0253	

RPD = 1.02

6 PCB-1016

1	3.399	3.399	0.000	4779503	0.5000	0.4867	
1	3.973	3.973	0.000	8839225	0.5000	0.4856	
1	4.640	4.640	0.000	19753370	0.5000	0.4944	
1	4.816	4.816	0.000	8560001	0.5000	0.4943	
1	5.138	5.138	0.000	3457216	0.5000	0.4947	

Average of Peak Amounts = 0.4912

2	4.333	4.333	0.000	6645557	0.5000	0.4884	
2	4.932	4.932	0.000	12308719	0.5000	0.4865	
2	5.527	5.527	0.000	26373598	0.5000	0.4854	
2	5.691	5.691	0.000	10702223	0.5000	0.4850	
2	5.943	5.943	0.000	5445405	0.5000	0.4936	

Average of Peak Amounts = 0.4878

RPD = 0.69

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.706	6.706	0.000	13009108	0.5000	0.4955	
1	6.994	6.994	0.000	21224040	0.5000	0.5032	
1	7.273	7.273	0.000	23387047	0.5000	0.4921	
1	7.934	7.934	0.000	33782096	0.5000	0.5083	
1	8.195	8.195	0.000	16863519	0.5000	0.4998	

Average of Peak Amounts = 0.4998

2	7.583	7.583	0.000	15790688	0.5000	0.5069	
2	7.796	7.796	0.000	19356596	0.5000	0.5076	
2	8.135	8.135	0.000	26476015	0.5000	0.5112	
2	8.719	8.719	0.000	40245437	0.5000	0.5049	
2	9.038	9.038	0.000	28149356	0.5000	0.5021	

Average of Peak Amounts = 0.5065

RPD = 1.34

\$ 12 DCB Decachlorobiphenyl

1	9.159	9.159	0.000	17019274	0.0250	0.0269	
2	10.016	10.016	0.000	19969428	0.0250	0.0267	

RPD = 0.53

16 1260 Res 1

1	8.195	8.195	0.000	16863519	NR	NR	
2	7.423	7.423	0.000	7690877	NR	NR	

13 1260 Res 2

1	8.231	8.231	0.000	8202013	NR	NR	
2	8.719	8.719	0.000	40245437	NR	NR	

15 1260 Res 3

1	8.271	8.271	0.000	10506615	NR	NR	
2	0.733	0.733	0.000	580751	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@0.5PPM_00116

Amount Added: 1.00

Units: mL

SG 1260 res_00002

Amount Added: 1.00

Units: mL

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121971.b\P4091207.D

Injection Date: 12-Sep-2022 07:59:54

Instrument ID: A2HP4

Operator ID:

Lims ID: CCV AR1660

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

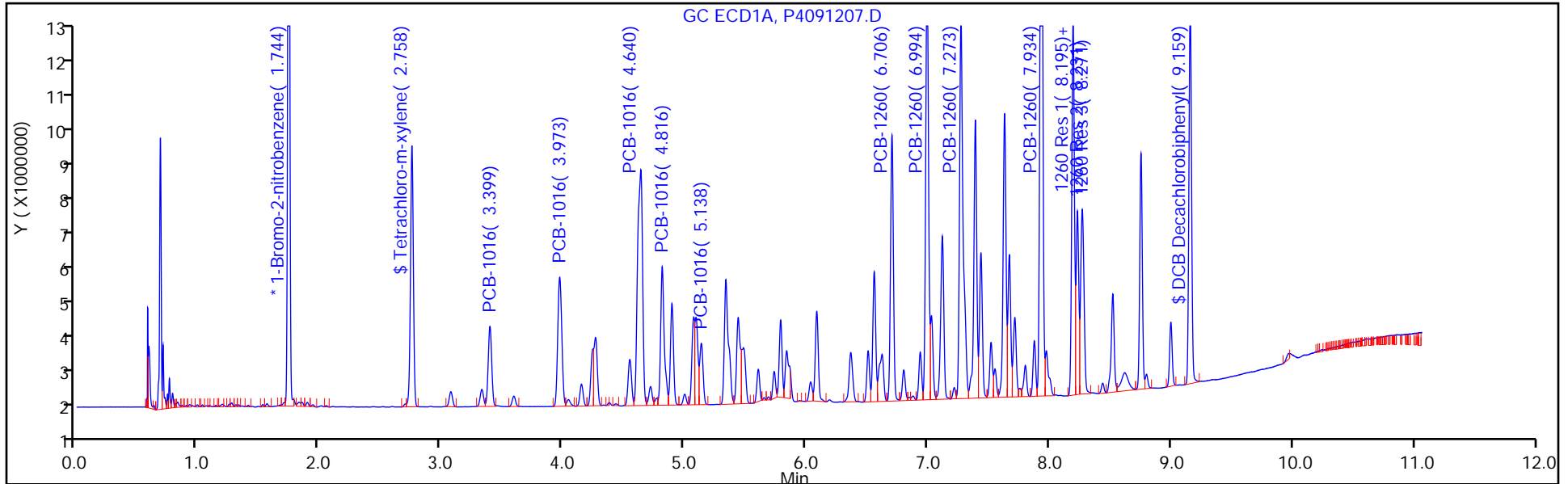
ALS Bottle#: 7

Method: PCB4 is

Limit Group: GC 8082A IS

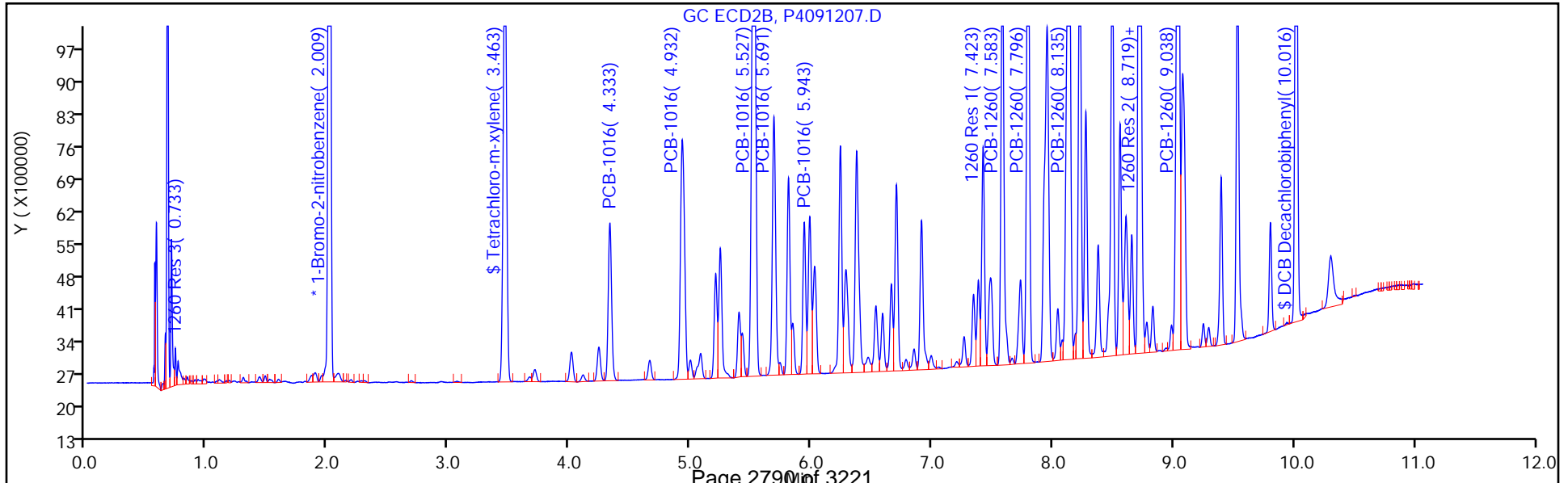
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-541803/18-A
 Matrix: Solid Lab File ID: P4090909.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10(g) Date Analyzed: 09/09/2022 15:18
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	<0.050		0.050	
11104-28-2	PCB-1221	<0.050		0.050	
11141-16-5	PCB-1232	<0.050		0.050	
53469-21-9	PCB-1242	<0.050		0.050	
12672-29-6	PCB-1248	<0.050		0.050	
11097-69-1	PCB-1254	<0.050		0.050	
11096-82-5	PCB-1260	<0.050		0.050	
1336-36-3	Polychlorinated biphenyls, Total	<0.050		0.050	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	90		10-149
2051-24-3	DCB Decachlorobiphenyl	103		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090909.D
 Lims ID: MB 240-541803/18-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Sep-2022 15:18:55 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-009
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.747 1.749 -0.002 27452474 0.0500 0.0500
 2 2.011 2.013 -0.002 41032797 0.0500 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.762 2.764 -0.002 8896438 0.0200 0.0174
 2 3.471 3.471 0.000 13587556 0.0200 0.0180
 RPD = 3.94

3 PCB-1221

1 3.083 ND
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

5 PCB-1242

1 3.404 ND
 1 3.979
 1 4.643
 1 4.819
 1 5.139
 2 4.336
 2 4.934
 2 5.528
 2 5.694
 2 5.991

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090909.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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4 PCB-1232

1	3.407					ND	
1	3.980						
1	4.648						
1	4.822						
1	5.141						
2	4.339						
2	4.936						
2	5.529						
2	5.694						
2	5.991						

6 PCB-1016

1	3.408					ND	
1	3.983						
1	4.648						
1	4.823						
1	5.142						
2	4.340						
2	4.938						
2	5.529						
2	5.695						
2	5.948						

7 PCB-1248

1	3.980					ND	
1	4.643						
1	5.342						
1	6.086						
1	6.512						
2	4.934						
2	5.523						
2	6.378						
2	6.711						
2	7.387						

8 PCB-1254

1	5.794					ND	
1	6.092						
1	6.514						
1	6.806						
1	7.277						
2	6.709						
2	6.918						
2	7.388						
2	7.619						
2	8.141						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.710					ND	
1	6.999						
1	7.277						
1	7.938						
1	8.199						
2	7.587						
2	7.800						
2	8.139						
2	8.725						
2	9.044						

9 PCB-1262

1	6.996					ND	
1	7.393						
1	7.633						
1	7.936						
1	8.233						
2	7.797						
2	8.226						
2	8.497						
2	8.724						
2	9.038						

11 PCB-1268

1	8.233					ND	
1	8.268						
1	8.441						
1	8.757						
1	9.002						
2	9.039						
2	9.078						
2	9.296						
2	9.534						
2	9.805						

\$ 12 DCB Decachlorobiphenyl

1	9.165	9.164	0.001	13109428	0.0200	0.0204	
2	10.022	10.020	0.002	15397200	0.0200	0.0206	

RPD = 1.04

16 1260 Res 1

1	8.199					ND	
2	7.428						

13 1260 Res 2

1	8.234					ND	
2	8.725						

15 1260 Res 3

1	8.274					ND	
2	0.736						

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090909.D

Injection Date: 09-Sep-2022 15:18:55

Instrument ID: A2HP4

Operator ID:

Lims ID: MB 240-541803/18-A

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

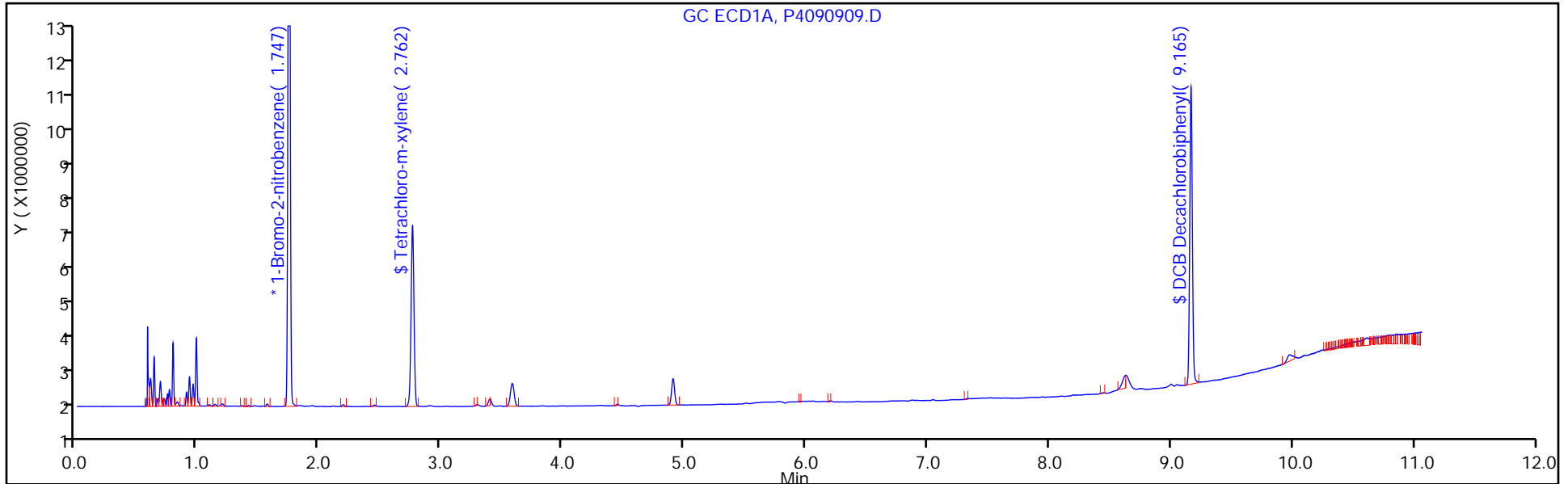
ALS Bottle#: 9

Method: PCB4 is

Limit Group: GC 8082A IS

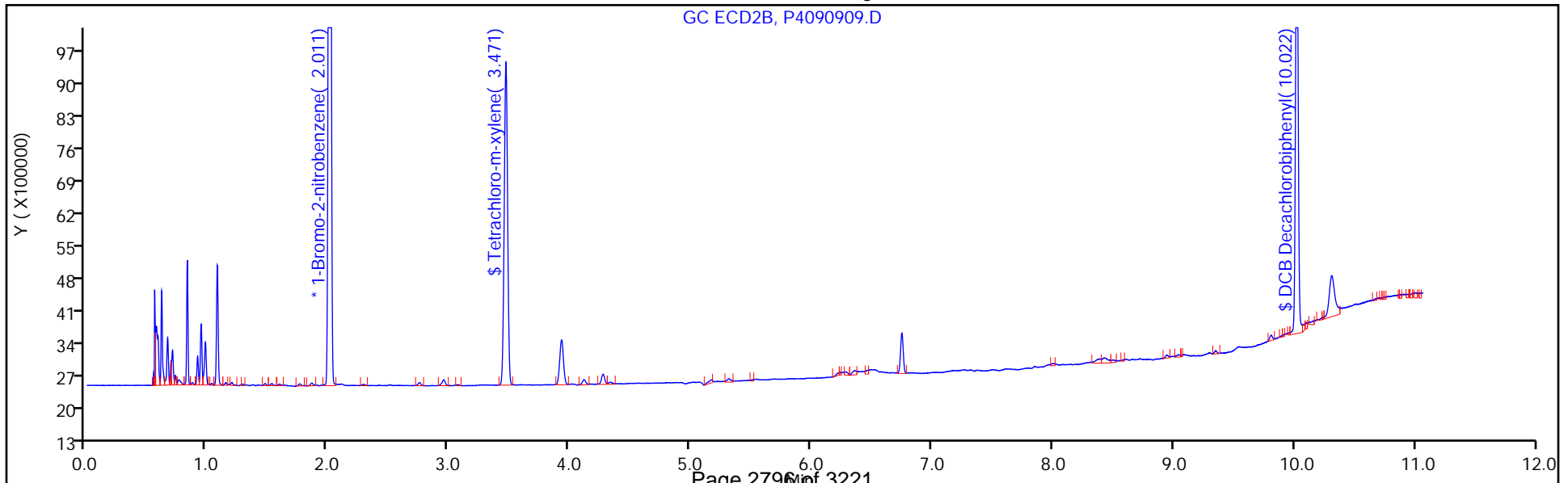
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Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090909.D
 Lims ID: MB 240-541803/18-A
 Client ID:
 Sample Type: MB
 Inject. Date: 09-Sep-2022 15:18:55 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-009
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0174	86.77
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0204	101.83

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0180	90.25
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0206	102.90

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-541803/19-A
 Matrix: Solid Lab File ID: P4090910.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10(g) Date Analyzed: 09/09/2022 15:36
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	0.780		0.050	
11096-82-5	PCB-1260	0.823		0.050	
1336-36-3	Polychlorinated biphenyls, Total	1.60		0.050	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		10-149
2051-24-3	DCB Decachlorobiphenyl	94		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090910.D
 Lims ID: LCS 240-541803/19-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Sep-2022 15:36:50 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-010
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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* 14 1-Bromo-2-nitrobenzene

1	1.755	1.749	0.006	28924287	0.0500	0.0500	
2	2.019	2.013	0.006	43486921	0.0500	0.0500	

\$ 2 Tetrachloro-m-xylene

1	2.769	2.764	0.005	9055646	0.0200	0.0168	
2	3.477	3.471	0.006	13349225	0.0200	0.0167	

RPD = 0.25

6 PCB-1016

1	3.415	3.408	0.007	7960802	1.00	0.7635	
1	3.986	3.983	0.003	14586930	1.00	0.7548	
1	4.651	4.648	0.003	33260397	1.00	0.7841	
1	4.826	4.823	0.003	14396073	1.00	0.7829	
1	5.146	5.142	0.004	5771287	1.00	0.7778	

Average of Peak Amounts = 0.7726

2	4.343	4.340	0.003	10911689	1.00	0.7633	
2	4.941	4.938	0.003	20524303	1.00	0.7720	
2	5.532	5.529	0.003	45254435	1.00	0.7927	
2	5.698	5.695	0.003	18181793	1.00	0.7842	
2	5.950	5.948	0.002	9113401	1.00	0.7863	

Average of Peak Amounts = 0.7797

RPD = 0.91

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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10 PCB-1260

1	6.709	6.710	-0.001	21872354	1.00	0.7845	
1	6.998	6.999	-0.001	35988682	1.00	0.8037	
1	7.276	7.277	-0.001	39815120	1.00	0.7891	
1	7.935	7.938	-0.003	58573051	1.00	0.8301	
1	8.196	8.199	-0.003	29057266	1.00	0.8111	

Average of Peak Amounts = 0.8037

2	7.586	7.587	-0.001	26746529	1.00	0.8173	
2	7.796	7.800	-0.004	32874183	1.00	0.8205	
2	8.136	8.139	-0.003	44970678	1.00	0.8264	
2	8.721	8.725	-0.004	69398934	1.00	0.8286	
2	9.040	9.044	-0.004	48328918	1.00	0.8205	

Average of Peak Amounts = 0.8227

RPD = 2.33

\$ 12 DCB Decachlorobiphenyl

1	9.159	9.164	-0.005	12877815	0.0200	0.0189	
2	10.017	10.020	-0.003	15029726	0.0200	0.0189	

RPD = 0.31

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090910.D

Injection Date: 09-Sep-2022 15:36:50

Instrument ID: A2HP4

Operator ID:

Lims ID: LCS 240-541803/19-A

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

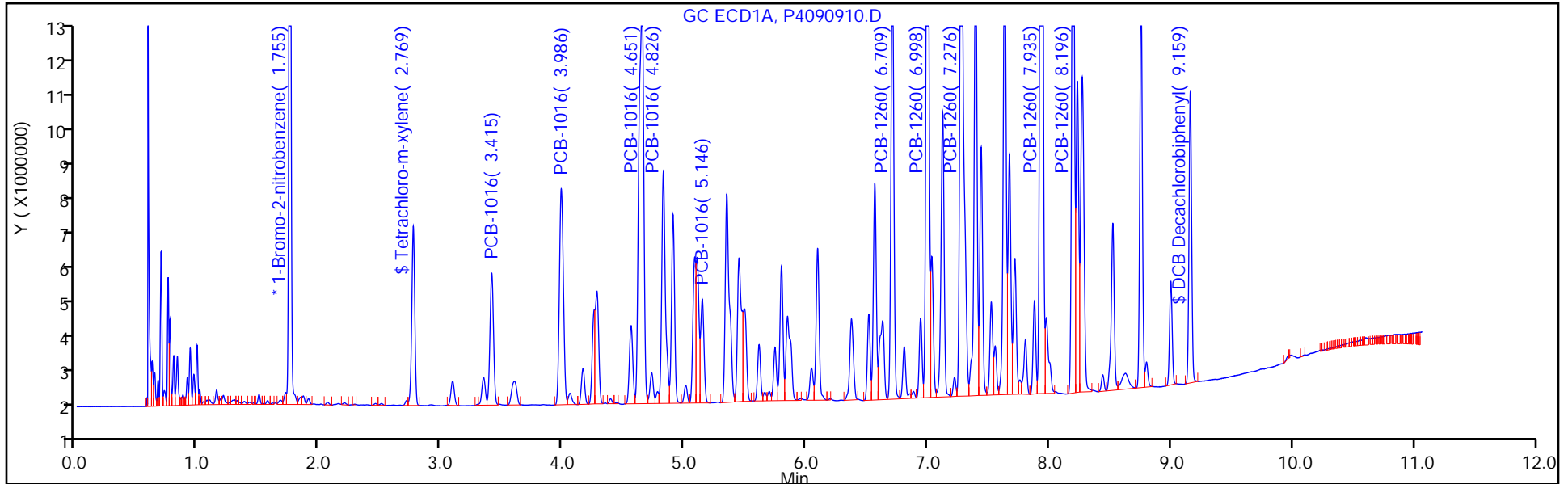
ALS Bottle#: 10

Method: PCB4 is

Limit Group: GC 8082A IS

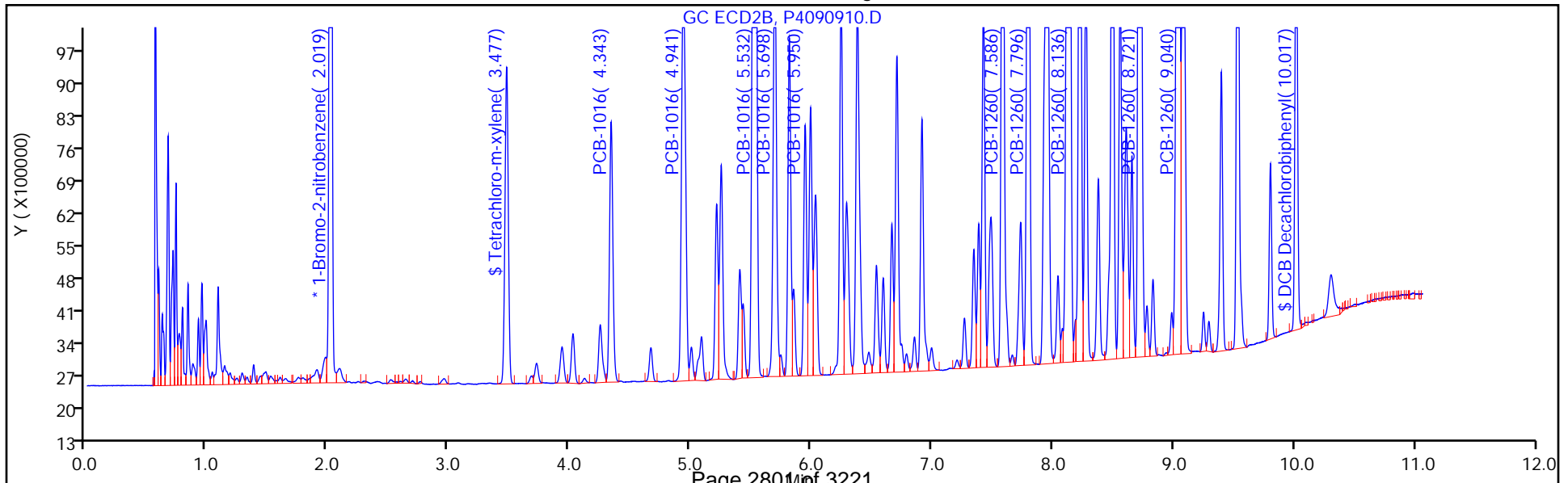
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090910.D
 Lims ID: LCS 240-541803/19-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-Sep-2022 15:36:50 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-010
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0168	83.79
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0189	94.68

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0167	83.58
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0189	94.39

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090910.D

Injection Date: 09-Sep-2022 15:36:50

Instrument ID: A2HP4

Lims ID: LCS 240-541803/19-A

Client ID:

Operator ID:

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

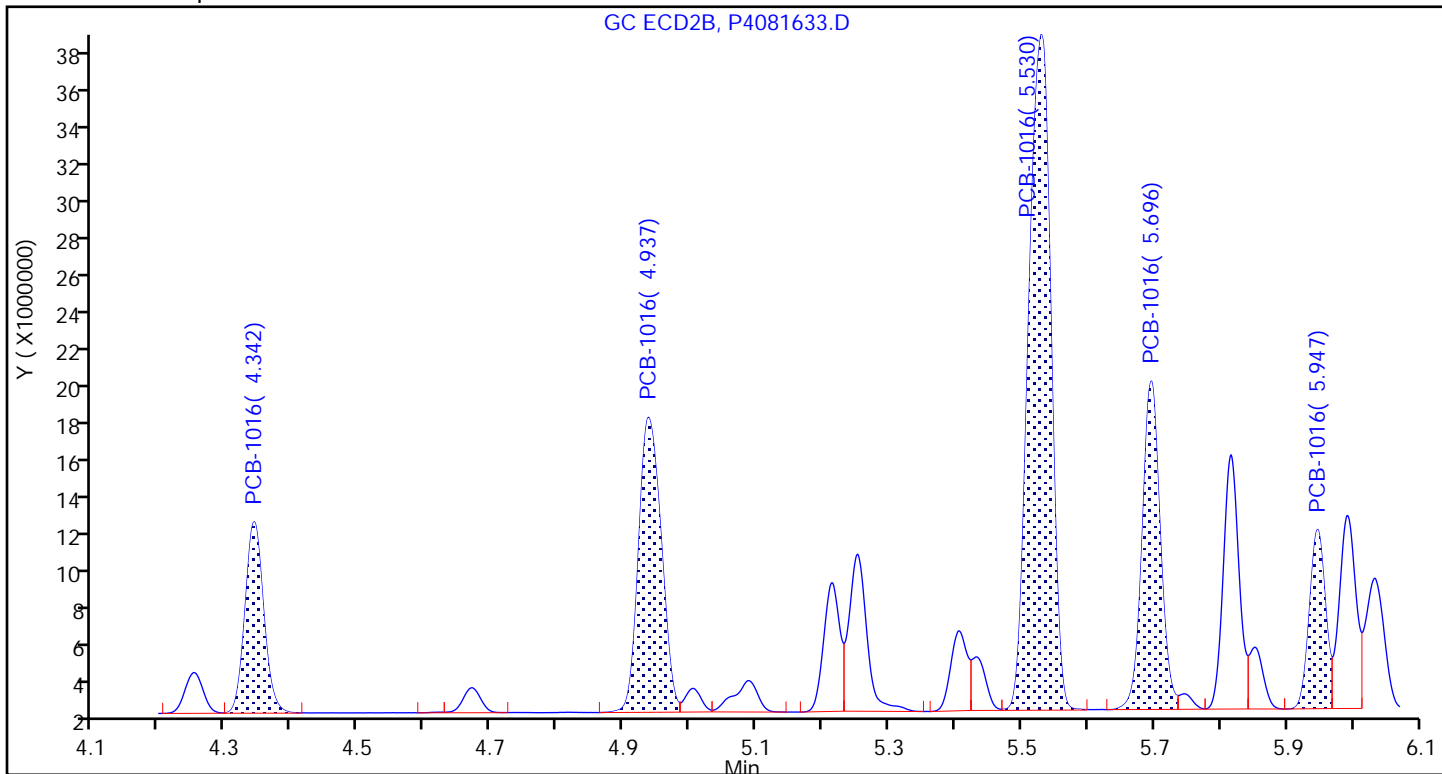
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

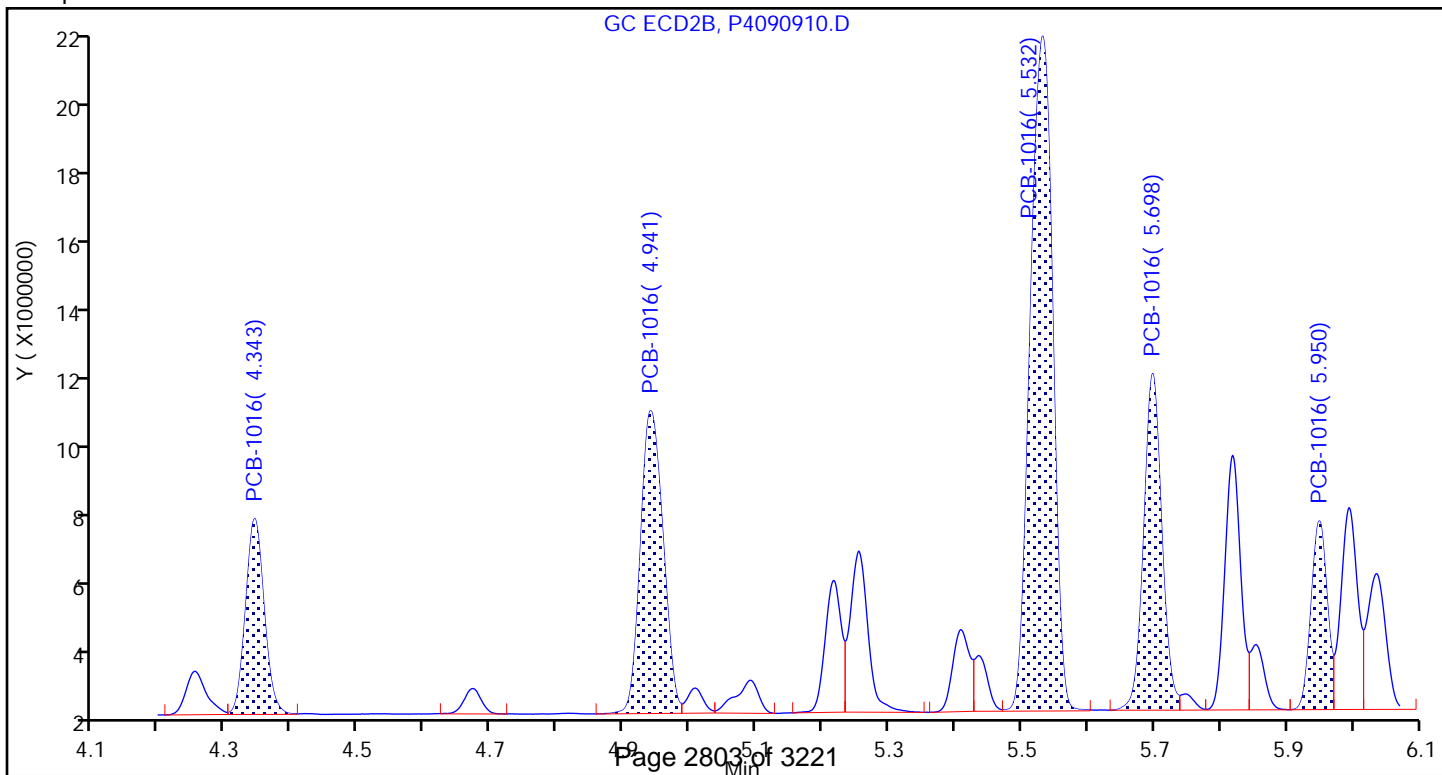
Detector: GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090910.D

Injection Date: 09-Sep-2022 15:36:50

Instrument ID: A2HP4

Lims ID: LCS 240-541803/19-A

Client ID:

Operator ID:

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

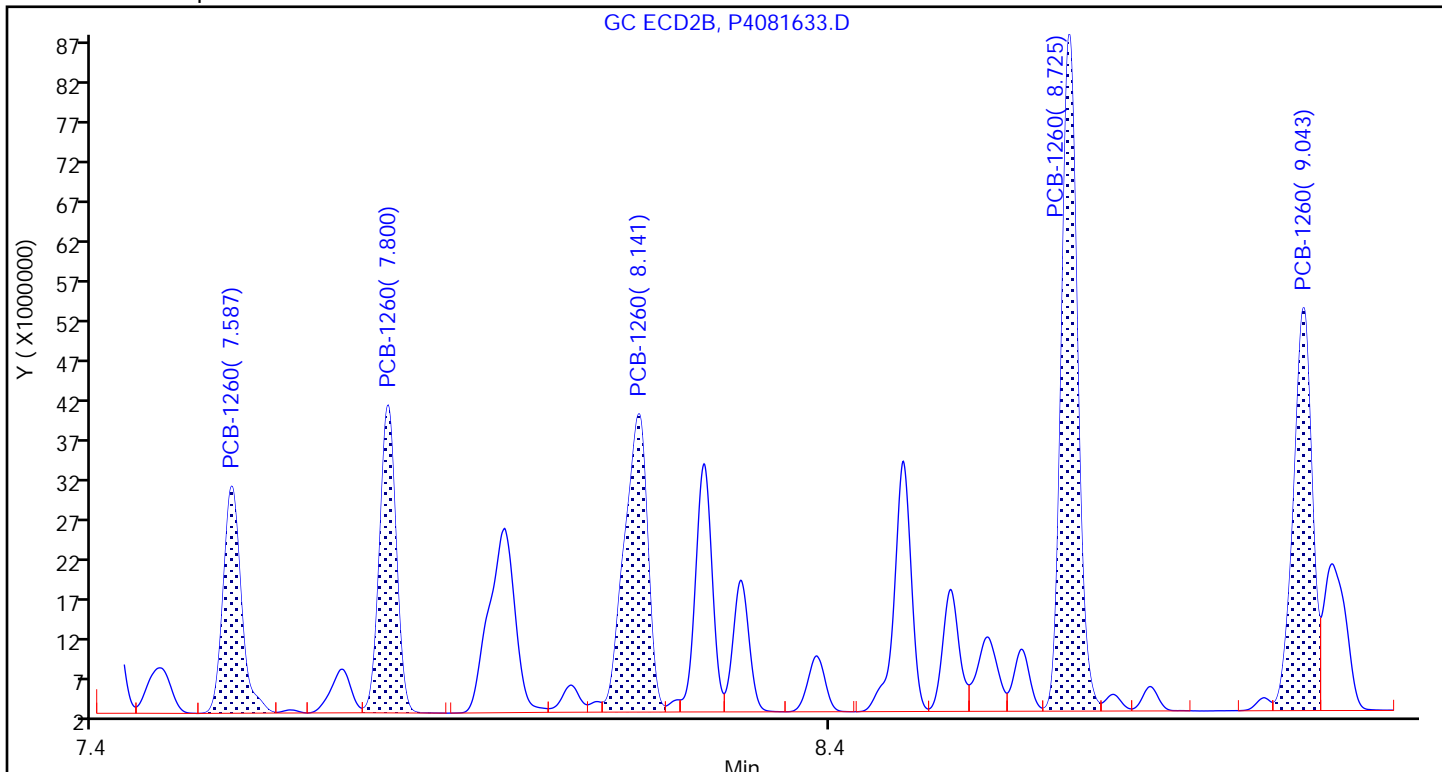
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

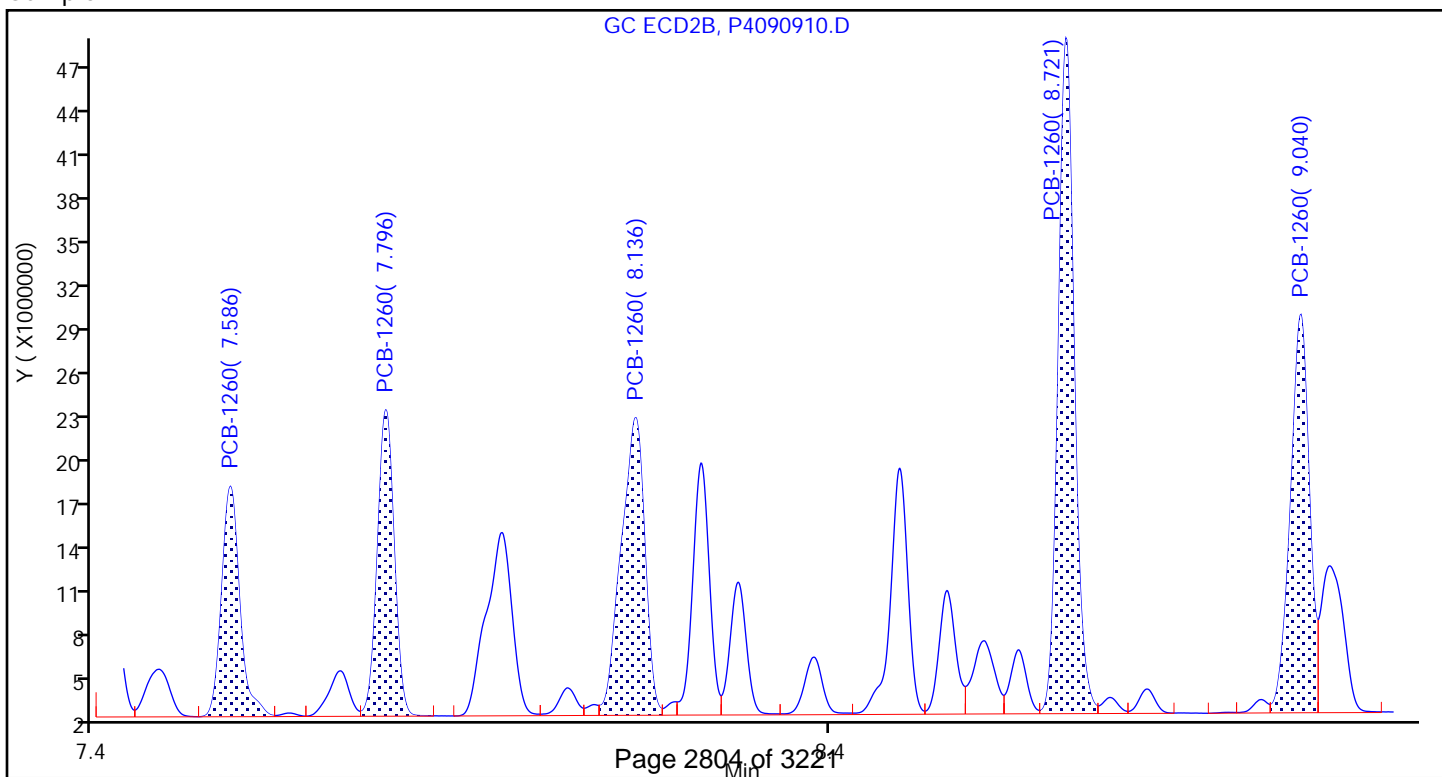
Detector: GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MS Lab Sample ID: 500-221506-5 MS
 Matrix: Solid Lab File ID: P4090918.D
 Analysis Method: 8082A Date Collected: 08/29/2022 14:15
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.49(g) Date Analyzed: 09/09/2022 17:58
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	0.642		0.063	
11104-28-2	PCB-1221	<0.063		0.063	
11141-16-5	PCB-1232	<0.063		0.063	
53469-21-9	PCB-1242	<0.063		0.063	
12672-29-6	PCB-1248	<0.063		0.063	
11097-69-1	PCB-1254	<0.063		0.063	
11096-82-5	PCB-1260	0.671		0.063	
1336-36-3	Polychlorinated biphenyls, Total	1.31		0.063	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	55		10-149
2051-24-3	DCB Decachlorobiphenyl	61		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090918.D
 Lims ID: 500-221506-F-5-E MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 09-Sep-2022 17:58:52 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-018
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.744 1.749 -0.005 27064494 0.0500 0.0500
 2 2.009 2.013 -0.004 40528823 0.0500 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.757 2.764 -0.007 5726618 0.0200 0.0113
 2 3.466 3.471 -0.005 8270184 0.0200 0.0110

RPD = 2.03

3 PCB-1221

1 3.083 ND U
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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5 PCB-1242

							U
1		3.404				ND	
1		3.979					
1		4.643					
1		4.819					
1		5.139					
2		4.336					
2		4.934					
2		5.528					
2		5.694					
2		5.991					

4 PCB-1232

							U
1		3.407				ND	
1		3.980					
1		4.648					
1		4.822					
1		5.141					
2		4.339					
2		4.936					
2		5.529					
2		5.694					
2		5.991					

6 PCB-1016

1	3.402	3.408	-0.006	5036766	1.00	0.5163
1	3.977	3.983	-0.006	9061551	1.00	0.5011
1	4.643	4.648	-0.005	19794759	1.00	0.4987
1	4.818	4.823	-0.005	8683461	1.00	0.5047
1	5.139	5.142	-0.003	3528072	1.00	0.5082
Average of Peak Amounts =						0.5058
2	4.336	4.340	-0.004	6790065	1.00	0.5096
2	4.932	4.938	-0.006	12481654	1.00	0.5038
2	5.526	5.529	-0.003	26902493	1.00	0.5056
2	5.691	5.695	-0.004	10931525	1.00	0.5059
2	5.943	5.948	-0.005	5540470	1.00	0.5129

Average of Peak Amounts =

0.5076

RPD = 0.35

7 PCB-1248

							U
1		3.980				ND	
1		4.643					
1		5.342					
1		6.086					
1		6.512					
2		4.934					
2		5.523					
2		6.378					
2		6.711					
2		7.387					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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8 PCB-1254

							U
1		5.794				ND	
1		6.092					
1		6.514					
1		6.806					
1		7.277					
2		6.709					
2		6.918					
2		7.388					
2		7.619					
2		8.141					

10 PCB-1260

1	6.706	6.710	-0.004	13089318	1.00	0.5018	
1	6.995	6.999	-0.004	21433448	1.00	0.5115	
1	7.274	7.277	-0.003	23767929	1.00	0.5034	
1	7.935	7.938	-0.003	34686683	1.00	0.5254	
1	8.196	8.199	-0.003	17278855	1.00	0.5155	
Average of Peak Amounts =						0.5115	
2	7.585	7.587	-0.002	16094995	1.00	0.5277	
2	7.797	7.800	-0.003	19828045	1.00	0.5310	
2	8.137	8.139	-0.002	27101813	1.00	0.5344	
2	8.722	8.725	-0.003	41402800	1.00	0.5304	
2	9.041	9.044	-0.003	28954440	1.00	0.5274	

Average of Peak Amounts =

0.5302

RPD = 3.59

9 PCB-1262

							U
1		6.996				ND	
1		7.393					
1		7.633					
1		7.936					
1		8.233					
2		7.797					
2		8.226					
2		8.497					
2		8.724					
2		9.038					

11 PCB-1268

							U
1		8.233				ND	
1		8.268					
1		8.441					
1		8.757					
1		9.002					
2		9.039					
2		9.078					
2		9.296					
2		9.534					
2		9.805					

\$ 12 DCB Decachlorobiphenyl

1	9.161	9.164	-0.003	7983577	0.0200	0.0123	
2	10.016	10.020	-0.004	9356707	0.0200	0.0123	

RPD = 0.00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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16 1260 Res 1

1	8.196	8.199	-0.002	17278855			NR
2	7.425	7.428	-0.003	7789939			NR

13 1260 Res 2

1	8.231	8.234	-0.003	8465707			NR
2	8.722	8.725	-0.003	41402800			NR

15 1260 Res 3

1		8.274					ND
2		0.736					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090918.D

Injection Date: 09-Sep-2022 17:58:52

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-5-E MS

Worklist Smp#: 18

Client ID: B-5 (8'-10')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

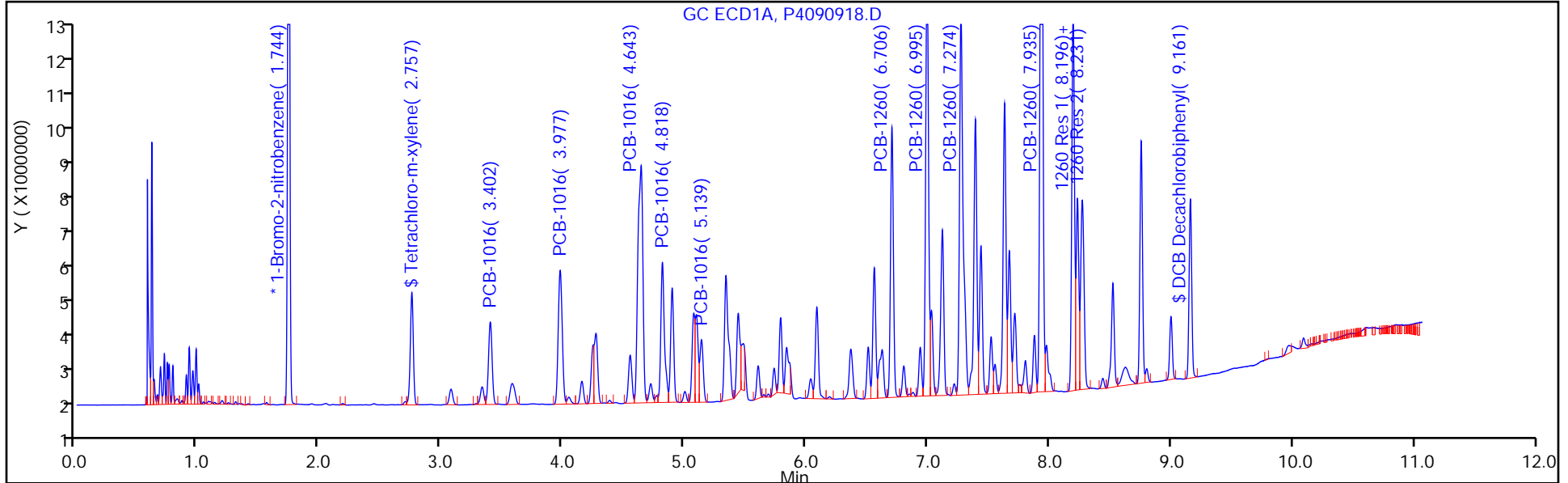
ALS Bottle#: 18

Method: PCB4 is

Limit Group: GC 8082A IS

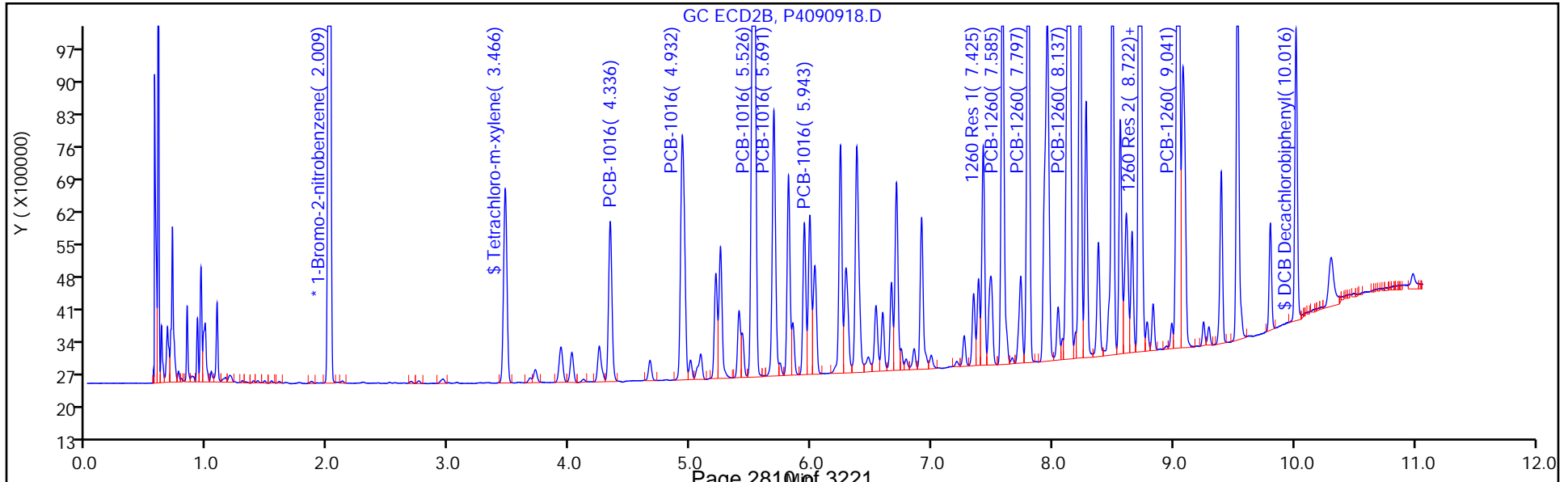
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090918.D
 Lims ID: 500-221506-F-5-E MS
 Client ID: B-5 (8'-10')
 Sample Type: MS
 Inject. Date: 09-Sep-2022 17:58:52 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-018
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681
 First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:08

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0113	56.30
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0123	61.42

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0110	55.17
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0123	61.42

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090918.D

Injection Date: 09-Sep-2022 17:58:52

Instrument ID: A2HP4

Lims ID: 500-221506-F-5-E MS

Client ID: B-5 (8'-10')

Operator ID:

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

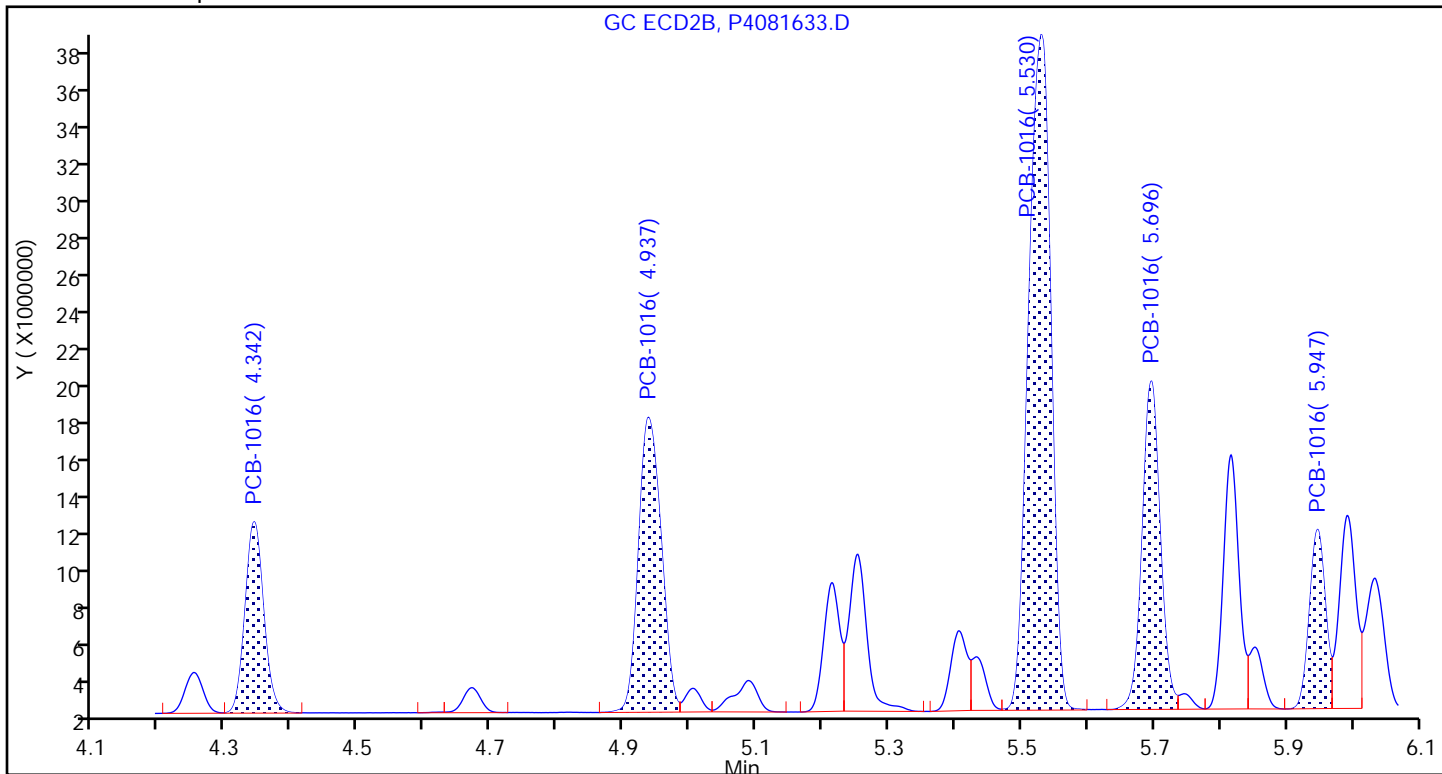
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

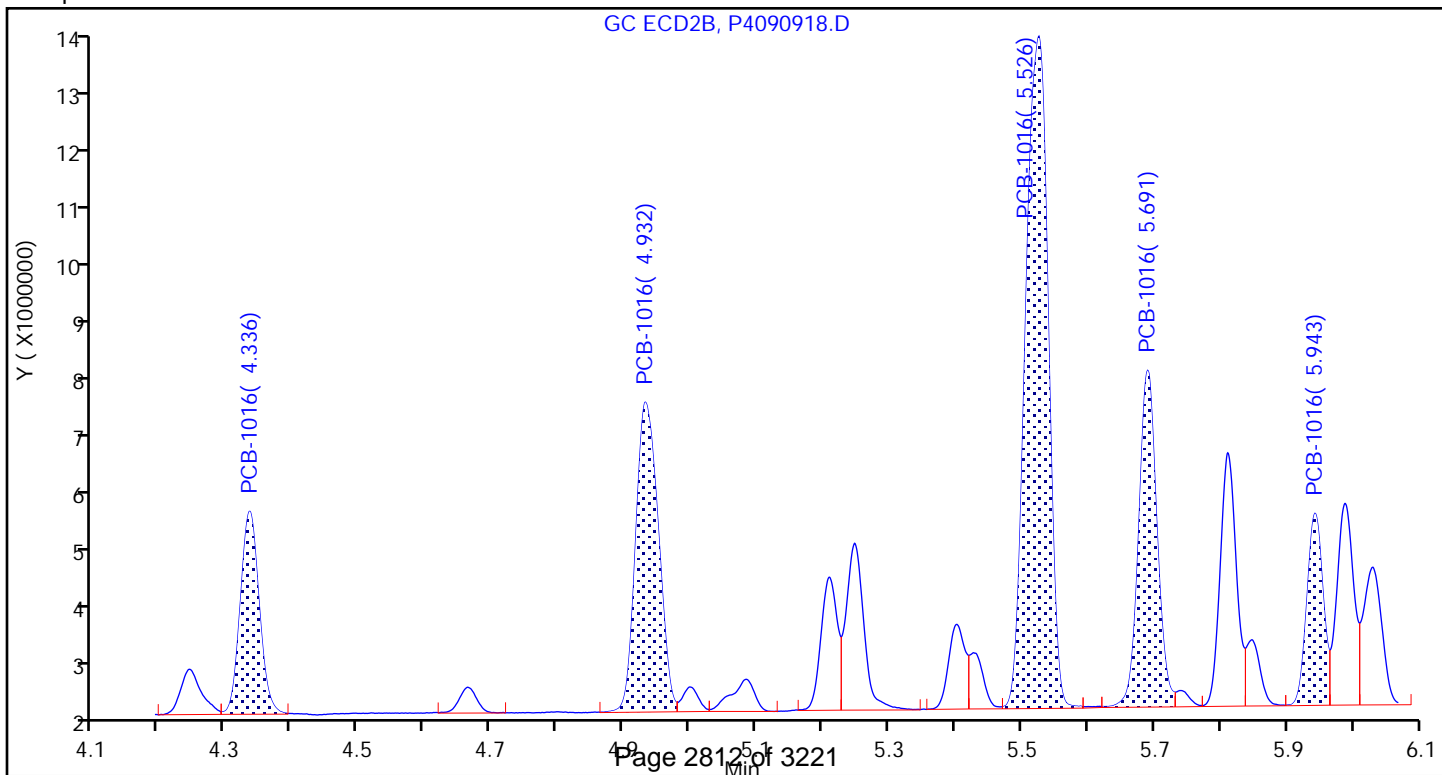
Detector: GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090918.D

Injection Date: 09-Sep-2022 17:58:52

Instrument ID: A2HP4

Lims ID: 500-221506-F-5-E MS

Client ID: B-5 (8'-10')

Operator ID:

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

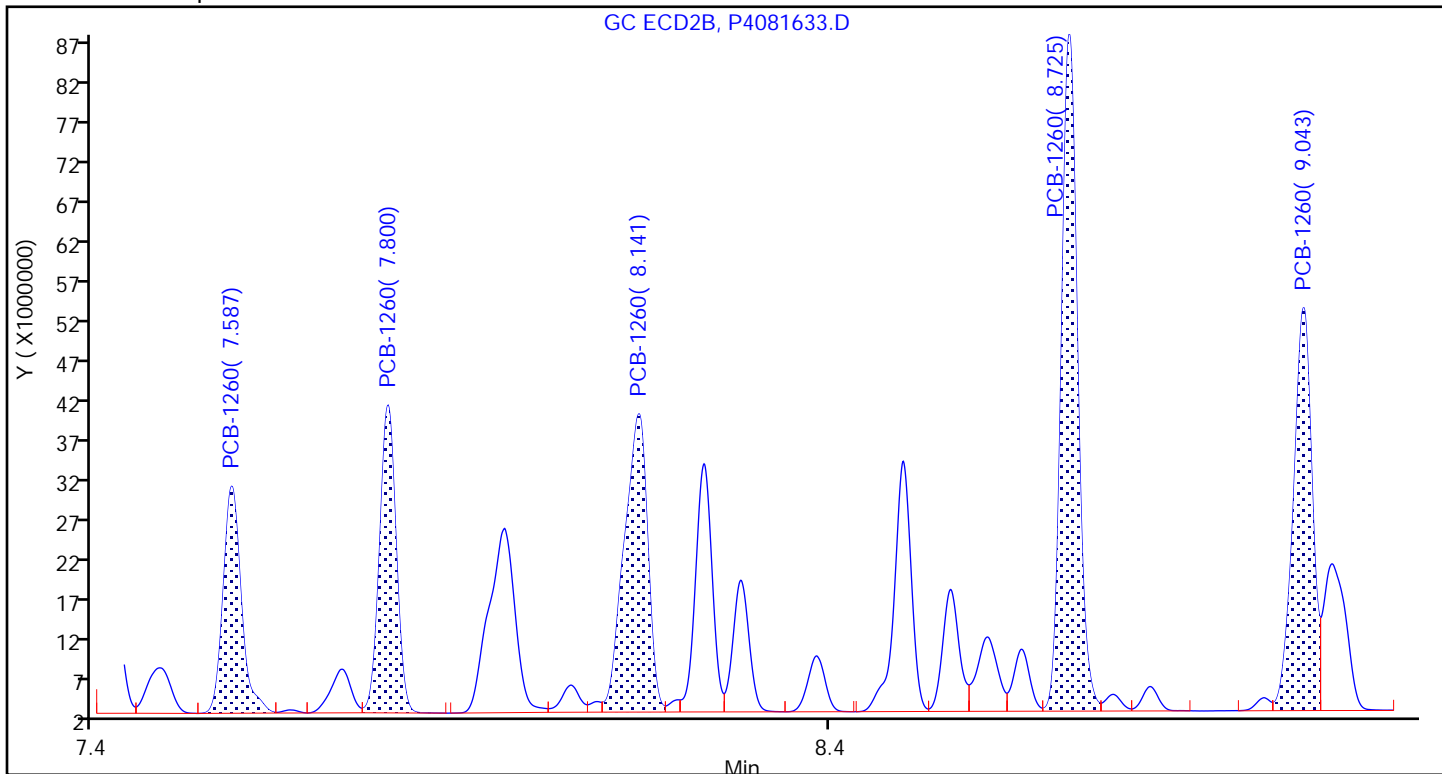
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

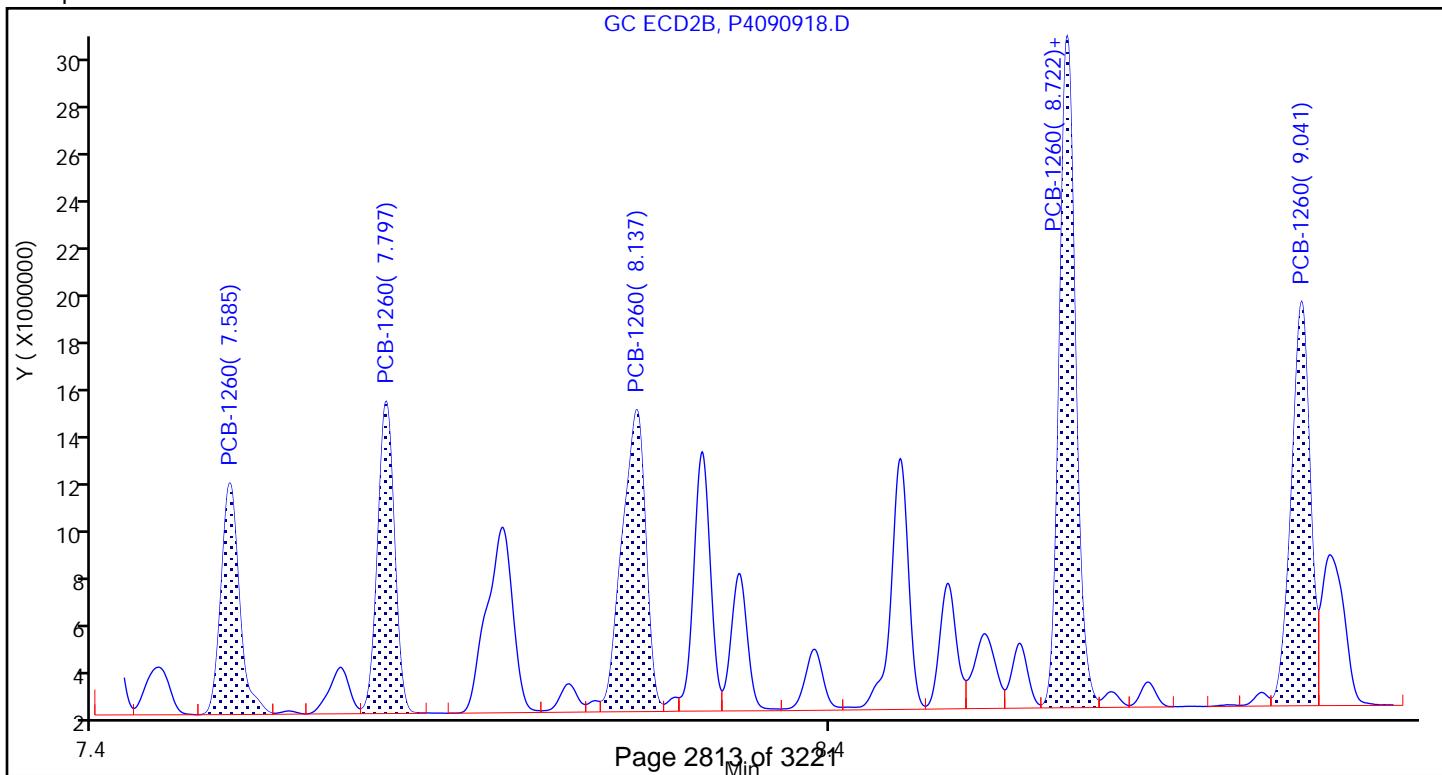
Detector: GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1
 SDG No.: _____
 Client Sample ID: B-5 (8'-10') MSD Lab Sample ID: 500-221506-5 MSD
 Matrix: Solid Lab File ID: P4090919.D
 Analysis Method: 8082A Date Collected: 08/29/2022 14:15
 Extraction Method: 3540C Date Extracted: 09/08/2022 09:19
 Sample wt/vol: 10.24(g) Date Analyzed: 09/09/2022 18:16
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: CLP-2 (0.53mm) ID: 0.53(mm)
 % Moisture: 24.7 % Solids: 75.3 GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 542067 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
12674-11-2	PCB-1016	0.896		0.065	
11104-28-2	PCB-1221	<0.065		0.065	
11141-16-5	PCB-1232	<0.065		0.065	
53469-21-9	PCB-1242	<0.065		0.065	
12672-29-6	PCB-1248	<0.065		0.065	
11097-69-1	PCB-1254	<0.065		0.065	
11096-82-5	PCB-1260	0.918		0.065	
1336-36-3	Polychlorinated biphenyls, Total	1.81		0.065	

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		10-149
2051-24-3	DCB Decachlorobiphenyl	79		10-174

Eurofins Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D
 Lims ID: 500-221506-F-5-F MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 09-Sep-2022 18:16:33 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-019
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681

First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

S 1 Polychlorinated biphenyls, Total

1 1.000 ND

* 14 1-Bromo-2-nitrobenzene

1 1.743 1.749 -0.005 29201103 0.0500 0.0500
 2 2.008 2.013 -0.005 43685735 0.0500 0.0500

\$ 2 Tetrachloro-m-xylene

1 2.755 2.764 -0.009 8343806 0.0200 0.0153
 2 3.463 3.471 -0.008 12099329 0.0200 0.0151

RPD = 1.44

3 PCB-1221

1 3.083 ND U
 1 3.339
 1 3.405
 2 4.019
 2 4.245
 2 4.337

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

5 PCB-1242

							U
1		3.404				ND	
1		3.979					
1		4.643					
1		4.819					
1		5.139					
2		4.336					
2		4.934					
2		5.528					
2		5.694					
2		5.991					

4 PCB-1232

							U
1		3.407				ND	
1		3.980					
1		4.648					
1		4.822					
1		5.141					
2		4.339					
2		4.936					
2		5.529					
2		5.694					
2		5.991					

6 PCB-1016

1	3.399	3.408	-0.009	7131795	1.00	0.6775	
1	3.975	3.983	-0.008	13139511	1.00	0.6734	
1	4.643	4.648	-0.005	29350475	1.00	0.6854	
1	4.819	4.823	-0.004	12864692	1.00	0.6930	
1	5.139	5.142	-0.003	5108284	1.00	0.6820	
Average of Peak Amounts =						0.6822	
2	4.334	4.340	-0.006	9819303	1.00	0.6837	
2	4.934	4.938	-0.004	18148946	1.00	0.6796	
2	5.527	5.529	-0.002	40056841	1.00	0.6985	
2	5.692	5.695	-0.003	16122744	1.00	0.6922	
2	5.944	5.948	-0.004	8148812	1.00	0.6998	

Average of Peak Amounts =

0.6908
RPD = 1.24

7 PCB-1248

							U
1		3.980				ND	
1		4.643					
1		5.342					
1		6.086					
1		6.512					
2		4.934					
2		5.523					
2		6.378					
2		6.711					
2		7.387					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
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8 PCB-1254

							U
1		5.794				ND	
1		6.092					
1		6.514					
1		6.806					
1		7.277					
2		6.709					
2		6.918					
2		7.388					
2		7.619					
2		8.141					

10 PCB-1260

1	6.708	6.710	-0.002	19288812	1.00	0.6853	
1	6.997	6.999	-0.002	31553449	1.00	0.6979	
1	7.275	7.277	-0.002	34777265	1.00	0.6827	
1	7.936	7.938	-0.002	50313951	1.00	0.7063	
1	8.198	8.199	-0.001	24899540	1.00	0.6885	
Average of Peak Amounts =						0.6921	
2	7.586	7.587	-0.001	23390627	1.00	0.7115	
2	7.799	7.800	-0.001	28710074	1.00	0.7133	
2	8.139	8.139	0.000	39153387	1.00	0.7162	
2	8.724	8.725	-0.001	59392231	1.00	0.7059	
2	9.042	9.044	-0.002	41107103	1.00	0.6947	
Average of Peak Amounts =						0.7083	

RPD = 2.31

9 PCB-1262

							U
1		6.996				ND	
1		7.393					
1		7.633					
1		7.936					
1		8.233					
2		7.797					
2		8.226					
2		8.497					
2		8.724					
2		9.038					

11 PCB-1268

							U
1		8.233				ND	
1		8.268					
1		8.441					
1		8.757					
1		9.002					
2		9.039					
2		9.078					
2		9.296					
2		9.534					
2		9.805					

\$ 12 DCB Decachlorobiphenyl

1	9.160	9.164	-0.004	11082699	0.0200	0.0160	
2	10.017	10.020	-0.003	12765719	0.0200	0.0158	

RPD = 1.37

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

16 1260 Res 1

1	8.198	8.199	-0.001	24899540			NR
2	7.427	7.428	-0.001	11382324			NR

13 1260 Res 2

1	8.234	8.234	-0.001	11786584			NR
2	8.724	8.725	-0.002	59392231			NR

15 1260 Res 3

1		8.274					ND
2		0.736					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

U - Marked Undetected

Reagents:

SGPCBISTD_00033

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D

Injection Date: 09-Sep-2022 18:16:33

Instrument ID: A2HP4

Operator ID:

Lims ID: 500-221506-F-5-F MSD

Worklist Smp#: 19

Client ID: B-5 (8'-10')

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

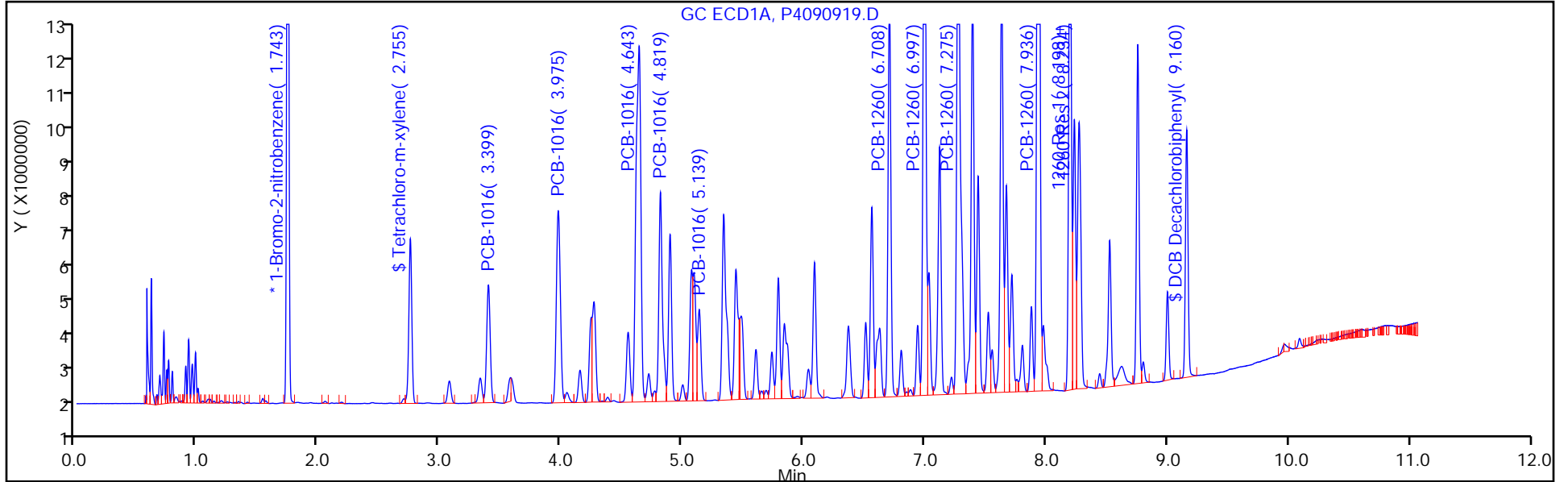
ALS Bottle#: 19

Method: PCB4 is

Limit Group: GC 8082A IS

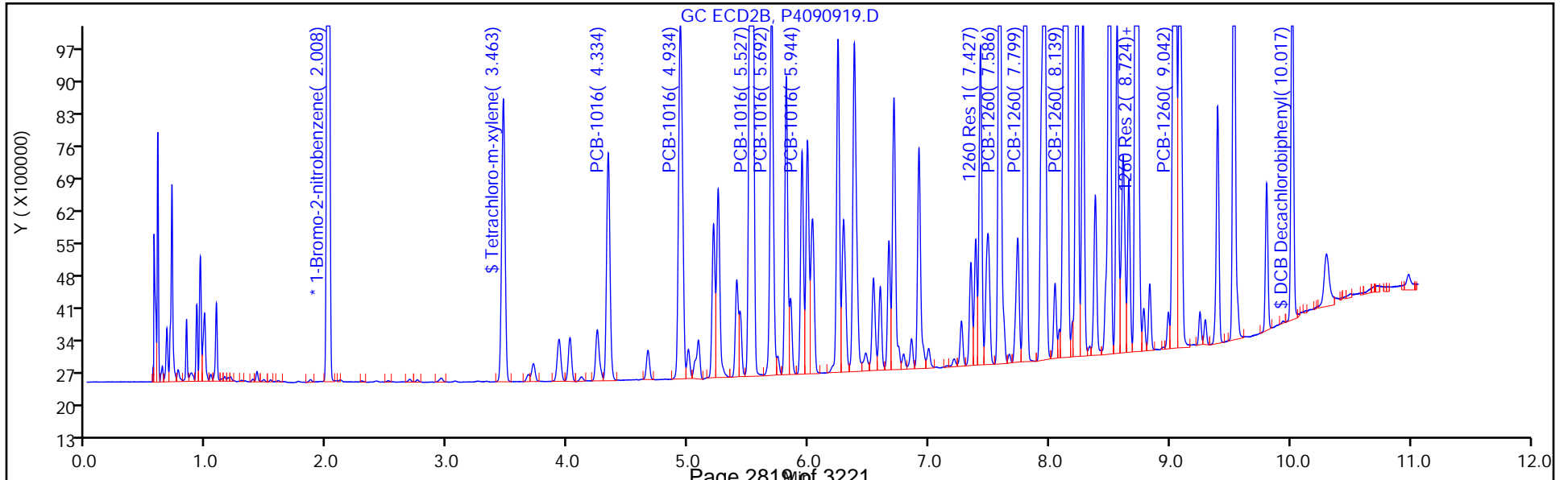
Column: CLP-1 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: CLP-2 0.53mm ID (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D
 Lims ID: 500-221506-F-5-F MSD
 Client ID: B-5 (8'-10')
 Sample Type: MSD
 Inject. Date: 09-Sep-2022 18:16:33 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 240-0121964-019
 Operator ID: Instrument ID: A2HP4
 Method: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\PCB4 is.m
 Limit Group: GC 8082A IS
 Last Update: 10-Sep-2022 07:44:05 Calib Date: 16-Aug-2022 18:49:18
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Canton\ChromData\A2HP4\20220816-121327.b\P4081633.D
 Column 1 : CLP-1 0.53mm ID (0.53 mm) Det: GC ECD1A
 Column 2 : CLP-2 0.53mm ID (0.53 mm) Det: GC ecd2b
 Process Host: CTX1681
 First Level Reviewer: WRR8 Date: 10-Sep-2022 07:42:22

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0153	76.38
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0160	80.14

Surrogate Recovery, Detector: GC ecd2b

Compound	Amount Added	Amount Recovered	% Rec.
\$ 2 Tetrachloro-m-xylene	0.0200	0.0151	75.29
\$ 12 DCB Decachlorobiphenyl	0.0200	0.0158	79.05

Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D

Injection Date: 09-Sep-2022 18:16:33

Instrument ID: A2HP4

Lims ID: 500-221506-F-5-F MSD

Client ID: B-5 (8'-10')

Operator ID:

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

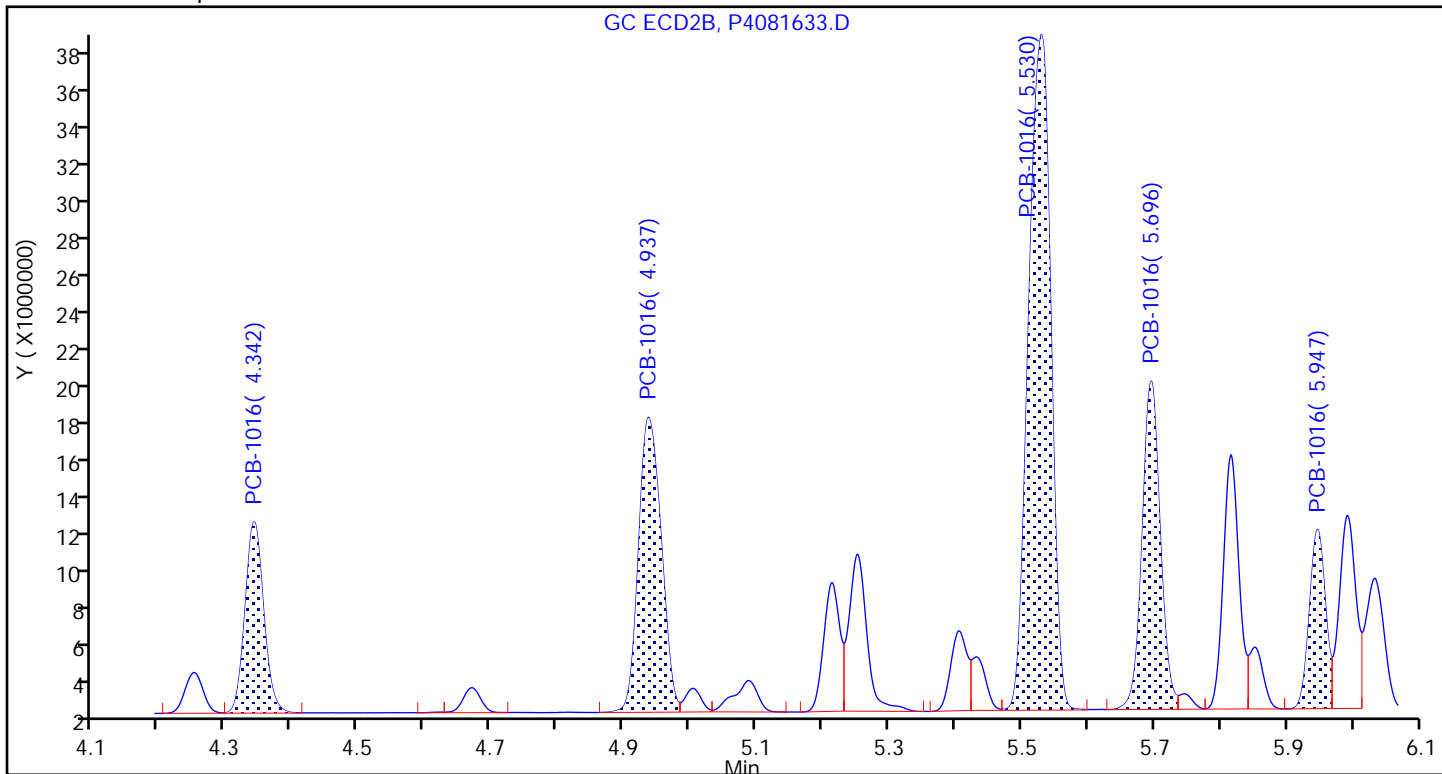
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

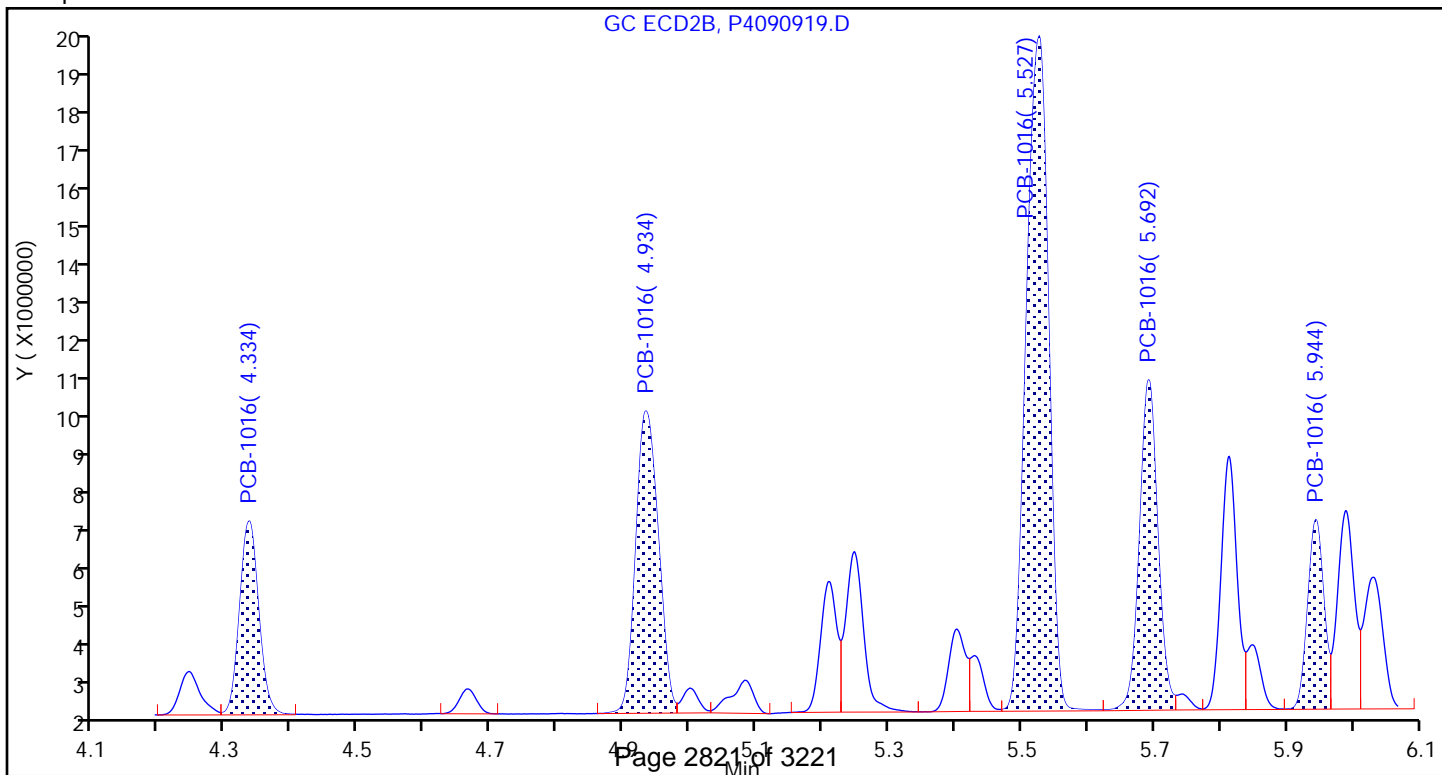
Detector: GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Eurofins Canton

Data File: \\chromfs\Canton\ChromData\A2HP4\20220909-121964.b\P4090919.D

Injection Date: 09-Sep-2022 18:16:33

Instrument ID: A2HP4

Lims ID: 500-221506-F-5-F MSD

Client ID: B-5 (8'-10')

Operator ID:

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

Method: PCB4 is

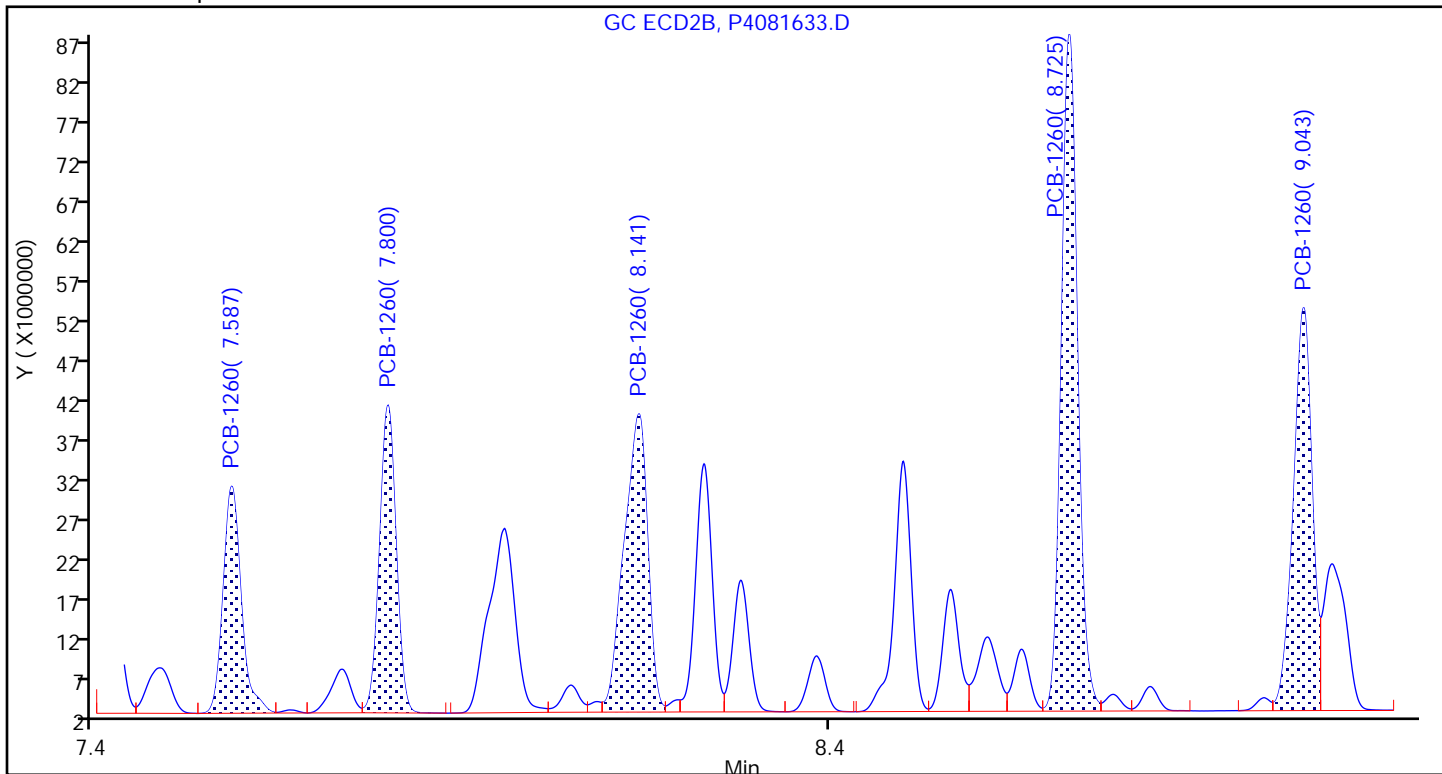
Limit Group: GC 8082A IS

Column: CLP-2 0.53mm ID (0.53 mm)

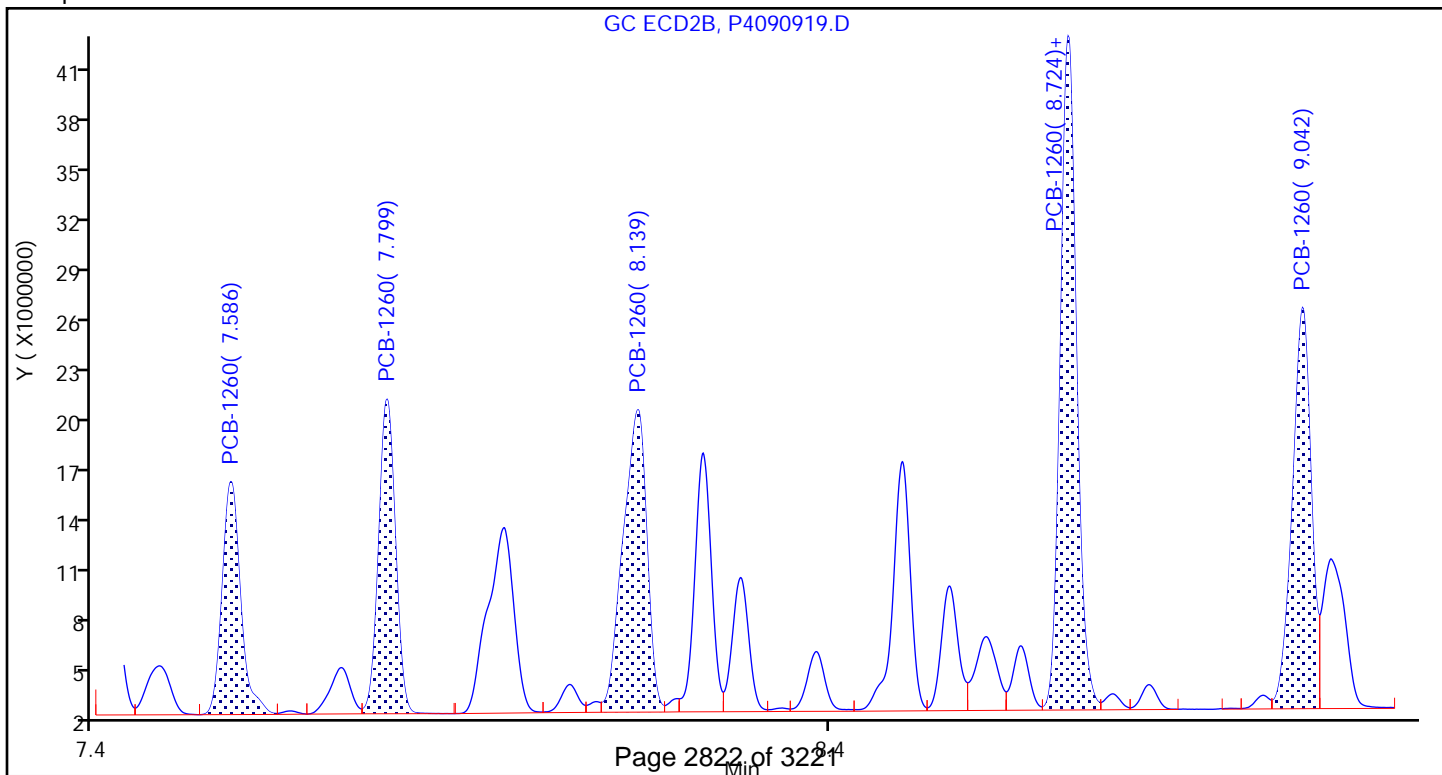
Detector: GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 08/16/2022 10:18

Analysis Batch Number: 539023 End Date: 08/16/2022 21:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-539023/4 IC		08/16/2022 10:18	1	P4081604.D	CLP-1 (0.53mm) 0.53 (mm)
STD005 240-539023/4 IC		08/16/2022 10:18	1	P4081604.D	CLP-2 (0.53mm) 0.53 (mm)
STD01 240-539023/5 IC		08/16/2022 10:36	1	P4081605.D	CLP-1 (0.53mm) 0.53 (mm)
STD01 240-539023/5 IC		08/16/2022 10:36	1	P4081605.D	CLP-2 (0.53mm) 0.53 (mm)
STD02 240-539023/6 IC		08/16/2022 10:54	1	P4081606.D	CLP-1 (0.53mm) 0.53 (mm)
STD02 240-539023/6 IC		08/16/2022 10:54	1	P4081606.D	CLP-2 (0.53mm) 0.53 (mm)
STD05 240-539023/7 IC		08/16/2022 11:11	1	P4081607.D	CLP-1 (0.53mm) 0.53 (mm)
STD05 240-539023/7 IC		08/16/2022 11:11	1	P4081607.D	CLP-2 (0.53mm) 0.53 (mm)
STD1 240-539023/8 IC		08/16/2022 11:29	1	P4081608.D	CLP-1 (0.53mm) 0.53 (mm)
STD1 240-539023/8 IC		08/16/2022 11:29	1	P4081608.D	CLP-2 (0.53mm) 0.53 (mm)
STD15 240-539023/9 IC		08/16/2022 11:46	1	P4081609.D	CLP-1 (0.53mm) 0.53 (mm)
STD15 240-539023/9 IC		08/16/2022 11:46	1	P4081609.D	CLP-2 (0.53mm) 0.53 (mm)
STD005 240-539023/10 IC		08/16/2022 12:04	1	P4081610.D	CLP-1 (0.53mm) 0.53 (mm)
STD005 240-539023/10 IC		08/16/2022 12:04	1	P4081610.D	CLP-2 (0.53mm) 0.53 (mm)
STD01 240-539023/11 IC		08/16/2022 12:22	1	P4081611.D	CLP-1 (0.53mm) 0.53 (mm)
STD01 240-539023/11 IC		08/16/2022 12:22	1	P4081611.D	CLP-2 (0.53mm) 0.53 (mm)
STD02 240-539023/12 IC		08/16/2022 12:39	1	P4081612.D	CLP-1 (0.53mm) 0.53 (mm)
STD02 240-539023/12 IC		08/16/2022 12:39	1	P4081612.D	CLP-2 (0.53mm) 0.53 (mm)
STD05 240-539023/13 IC		08/16/2022 12:57	1	P4081613.D	CLP-1 (0.53mm) 0.53 (mm)
STD05 240-539023/13 IC		08/16/2022 12:57	1	P4081613.D	CLP-2 (0.53mm) 0.53 (mm)
STD1 240-539023/14 IC		08/16/2022 13:15	1	P4081614.D	CLP-1 (0.53mm) 0.53 (mm)
STD1 240-539023/14 IC		08/16/2022 13:15	1	P4081614.D	CLP-2 (0.53mm) 0.53 (mm)
STD15 240-539023/15 IC		08/16/2022 13:32	1	P4081615.D	CLP-1 (0.53mm) 0.53 (mm)
STD15 240-539023/15 IC		08/16/2022 13:32	1	P4081615.D	CLP-2 (0.53mm) 0.53 (mm)
STD005 240-539023/16 IC		08/16/2022 13:50	1	P4081616.D	CLP-1 (0.53mm) 0.53 (mm)
STD005 240-539023/16 IC		08/16/2022 13:50	1	P4081616.D	CLP-2 (0.53mm) 0.53 (mm)
STD01 240-539023/17 IC		08/16/2022 14:07	1	P4081617.D	CLP-1 (0.53mm) 0.53 (mm)
STD01 240-539023/17 IC		08/16/2022 14:07	1	P4081617.D	CLP-2 (0.53mm) 0.53 (mm)
STD02 240-539023/18 IC		08/16/2022 14:25	1	P4081618.D	CLP-1 (0.53mm) 0.53 (mm)
STD02 240-539023/18 IC		08/16/2022 14:25	1	P4081618.D	CLP-2 (0.53mm) 0.53 (mm)
STD05 240-539023/19 IC		08/16/2022 14:43	1	P4081619.D	CLP-1 (0.53mm) 0.53 (mm)
STD05 240-539023/19 IC		08/16/2022 14:43	1	P4081619.D	CLP-2 (0.53mm) 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 08/16/2022 10:18

Analysis Batch Number: 539023 End Date: 08/16/2022 21:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-539023/20 IC		08/16/2022 15:00	1	P4081620.D	CLP-1 (0.53mm) 0.53 (mm)
STD1 240-539023/20 IC		08/16/2022 15:00	1	P4081620.D	CLP-2 (0.53mm) 0.53 (mm)
STD15 240-539023/21 IC		08/16/2022 15:18	1	P4081621.D	CLP-1 (0.53mm) 0.53 (mm)
STD15 240-539023/21 IC		08/16/2022 15:18	1	P4081621.D	CLP-2 (0.53mm) 0.53 (mm)
STD005 240-539023/22 IC		08/16/2022 15:36	1	P4081622.D	CLP-1 (0.53mm) 0.53 (mm)
STD005 240-539023/22 IC		08/16/2022 15:36	1	P4081622.D	CLP-2 (0.53mm) 0.53 (mm)
STD01 240-539023/23 IC		08/16/2022 15:54	1	P4081623.D	CLP-1 (0.53mm) 0.53 (mm)
STD01 240-539023/23 IC		08/16/2022 15:54	1	P4081623.D	CLP-2 (0.53mm) 0.53 (mm)
STD02 240-539023/24 IC		08/16/2022 16:11	1	P4081624.D	CLP-1 (0.53mm) 0.53 (mm)
STD02 240-539023/24 IC		08/16/2022 16:11	1	P4081624.D	CLP-2 (0.53mm) 0.53 (mm)
STD05 240-539023/25 IC		08/16/2022 16:29	1	P4081625.D	CLP-1 (0.53mm) 0.53 (mm)
STD05 240-539023/25 IC		08/16/2022 16:29	1	P4081625.D	CLP-2 (0.53mm) 0.53 (mm)
STD1 240-539023/26 IC		08/16/2022 16:46	1	P4081626.D	CLP-1 (0.53mm) 0.53 (mm)
STD1 240-539023/26 IC		08/16/2022 16:46	1	P4081626.D	CLP-2 (0.53mm) 0.53 (mm)
STD15 240-539023/27 IC		08/16/2022 17:04	1	P4081627.D	CLP-1 (0.53mm) 0.53 (mm)
STD15 240-539023/27 IC		08/16/2022 17:04	1	P4081627.D	CLP-2 (0.53mm) 0.53 (mm)
STD005 240-539023/28 IC		08/16/2022 17:21	1	P4081628.D	CLP-1 (0.53mm) 0.53 (mm)
STD005 240-539023/28 IC		08/16/2022 17:21	1	P4081628.D	CLP-2 (0.53mm) 0.53 (mm)
STD01 240-539023/29 IC		08/16/2022 17:39	1	P4081629.D	CLP-1 (0.53mm) 0.53 (mm)
STD01 240-539023/29 IC		08/16/2022 17:39	1	P4081629.D	CLP-2 (0.53mm) 0.53 (mm)
STD02 240-539023/30 IC		08/16/2022 17:56	1	P4081630.D	CLP-1 (0.53mm) 0.53 (mm)
STD02 240-539023/30 IC		08/16/2022 17:56	1	P4081630.D	CLP-2 (0.53mm) 0.53 (mm)
STD05 240-539023/31 ICIS		08/16/2022 18:14	1	P4081631.D	CLP-1 (0.53mm) 0.53 (mm)
STD05 240-539023/31 ICIS		08/16/2022 18:14	1	P4081631.D	CLP-2 (0.53mm) 0.53 (mm)
STD1 240-539023/32 IC		08/16/2022 18:31	1	P4081632.D	CLP-1 (0.53mm) 0.53 (mm)
STD1 240-539023/32 IC		08/16/2022 18:31	1	P4081632.D	CLP-2 (0.53mm) 0.53 (mm)
STD15 240-539023/33 IC		08/16/2022 18:49	1	P4081633.D	CLP-1 (0.53mm) 0.53 (mm)
STD15 240-539023/33 IC		08/16/2022 18:49	1	P4081633.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/34		08/16/2022 19:06	1	P4081634.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/34		08/16/2022 19:06	1	P4081634.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/35		08/16/2022 19:24	1	P4081635.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/35		08/16/2022 19:24	1	P4081635.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/36		08/16/2022 19:41	1	P4081636.D	CLP-1 (0.53mm) 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 08/16/2022 10:18

Analysis Batch Number: 539023 End Date: 08/16/2022 21:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 240-539023/36		08/16/2022 19:41	1	P4081636.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/37		08/16/2022 19:59	1	P4081637.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/37		08/16/2022 19:59	1	P4081637.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/38		08/16/2022 20:16	1	P4081638.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/38		08/16/2022 20:16	1	P4081638.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/39		08/16/2022 20:33	1	P4081639.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/39		08/16/2022 20:33	1	P4081639.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/40		08/16/2022 20:51	1	P4081640.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/40		08/16/2022 20:51	1	P4081640.D	CLP-2 (0.53mm) 0.53 (mm)
ICV 240-539023/41		08/16/2022 21:08	1	P4081641.D	CLP-1 (0.53mm) 0.53 (mm)
ICV 240-539023/41		08/16/2022 21:08	1	P4081641.D	CLP-2 (0.53mm) 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 09/09/2022 13:32

Analysis Batch Number: 542067 End Date: 09/09/2022 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-542067/3 CCVIS		09/09/2022 13:32	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542067/3 CCVIS		09/09/2022 13:32	1	P4090903.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542067/4		09/09/2022 13:50	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542067/4		09/09/2022 13:50	1	P4090904.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542067/5		09/09/2022 14:07	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542067/5		09/09/2022 14:07	1	P4090905.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542067/6		09/09/2022 14:25	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542067/6		09/09/2022 14:25	1	P4090906.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542067/7		09/09/2022 14:43	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542067/7		09/09/2022 14:43	1	P4090907.D	CLP-2 (0.53mm) 0.53 (mm)
MB 240-541803/18-A		09/09/2022 15:18	1	P4090909.D	CLP-1 (0.53mm) 0.53 (mm)
MB 240-541803/18-A		09/09/2022 15:18	1	P4090909.D	CLP-2 (0.53mm) 0.53 (mm)
LCS 240-541803/19-A		09/09/2022 15:36	1	P4090910.D	CLP-1 (0.53mm) 0.53 (mm)
LCS 240-541803/19-A		09/09/2022 15:36	1	P4090910.D	CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 15:54	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 15:54	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:12	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:12	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:30	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:30	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:48	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 16:48	1		CLP-2 (0.53mm) 0.53 (mm)
500-221506-3	B-3 (22'-23.5')	09/09/2022 17:05	1	P4090915.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-3	B-3 (22'-23.5')	09/09/2022 17:05	1	P4090915.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-4	B-4 (20'-22')	09/09/2022 17:23	1	P4090916.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-4	B-4 (20'-22')	09/09/2022 17:23	1	P4090916.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-5	B-5 (8'-10')	09/09/2022 17:41	1	P4090917.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-5	B-5 (8'-10')	09/09/2022 17:41	1	P4090917.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-5 MS	B-5 (8'-10') MS	09/09/2022 17:58	1	P4090918.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-5 MS	B-5 (8'-10') MS	09/09/2022 17:58	1	P4090918.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-5 MSD	B-5 (8'-10') MSD	09/09/2022 18:16	1	P4090919.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-5 MSD	B-5 (8'-10') MSD	09/09/2022 18:16	1	P4090919.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-6	B-6 (30'-32')	09/09/2022 18:34	1	P4090920.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-6	B-6 (30'-32')	09/09/2022 18:34	1	P4090920.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-8	Dup-1	09/09/2022 18:51	1	P4090921.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-8	Dup-1	09/09/2022 18:51	1	P4090921.D	CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:09	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:09	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:26	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:26	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:43	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 19:43	1		CLP-2 (0.53mm) 0.53 (mm)
CCVIS 240-542067/27		09/09/2022 20:36	1		CLP-1 (0.53mm) 0.53 (mm)
CCVIS 240-542067/27		09/09/2022 20:36	1	P4090927.D	CLP-2 (0.53mm) 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 09/09/2022 13:32

Analysis Batch Number: 542067 End Date: 09/09/2022 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/09/2022 20:53	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 20:53	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 21:10	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 21:10	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 21:28	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/09/2022 21:28	1		CLP-2 (0.53mm) 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Instrument ID: A2HP4 Start Date: 09/12/2022 06:50

Analysis Batch Number: 542120 End Date: 09/12/2022 13:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-542120/3		09/12/2022 06:50	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542120/3		09/12/2022 06:50	1	P4091203.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542120/4		09/12/2022 07:07	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542120/4		09/12/2022 07:07	1	P4091204.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542120/5		09/12/2022 07:24	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542120/5		09/12/2022 07:24	1	P4091205.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542120/6		09/12/2022 07:42	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542120/6		09/12/2022 07:42	1	P4091206.D	CLP-2 (0.53mm) 0.53 (mm)
CCV 240-542120/7 CCVIS		09/12/2022 07:59	1		CLP-1 (0.53mm) 0.53 (mm)
CCV 240-542120/7 CCVIS		09/12/2022 07:59	1	P4091207.D	CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 08:35	5		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 08:35	5		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 08:52	10		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 08:52	10		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 09:10	20		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 09:10	20		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 09:45	20		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 09:45	20		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:12	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:12	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:30	1		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:30	1		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:48	5		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 10:48	5		CLP-2 (0.53mm) 0.53 (mm)
500-221506-1	B-1 (6'-8')	09/12/2022 11:05	1	P4091217.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-1	B-1 (6'-8')	09/12/2022 11:05	1	P4091217.D	CLP-2 (0.53mm) 0.53 (mm)
500-221506-2	B-2 (2'-4')	09/12/2022 11:23	1	P4091218.D	CLP-1 (0.53mm) 0.53 (mm)
500-221506-2	B-2 (2'-4')	09/12/2022 11:23	1	P4091218.D	CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 11:40	5		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 11:40	5		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:02	10		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:02	10		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:37	20		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:37	20		CLP-2 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:55	50		CLP-1 (0.53mm) 0.53 (mm)
ZZZZZ		09/12/2022 13:55	50		CLP-2 (0.53mm) 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1221ICV@.5 00010	SG1232ICV@.5 00010	SG1242ICV@.5 00009	SG1248@.05ppm 00034	SG1248@0.1PPM 00038	SG1248@0.2ppm 00033
STD005 240-539023/4 IC		8082A							
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A					1 mL		
STD01 240-539023/17 IC		8082A						1 mL	
STD02 240-539023/18 IC		8082A							1 mL
STD05 240-539023/19 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1221ICV@.5 00010	SG1232ICV@.5 00010	SG1242ICV@.5 00009	SG1248@.05ppm 00034	SG1248@0.1PPM 00038	SG1248@0.2ppm 00033
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1221ICV@.5 00010	SG1232ICV@.5 00010	SG1242ICV@.5 00009	SG1248@.05ppm 00034	SG1248@0.1PPM 00038	SG1248@0.2ppm 00033
ICV 240-539023/34		8082A		1 mL					
ICV 240-539023/35		8082A			1 mL				
ICV 240-539023/36		8082A				1 mL			
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1248@0.5ppm 00058	SG1248@1.0ppm 00044	SG1248@1.5ppm 00013	SG1248ICV@.5 00010	SG1262ICV@.5 00013	SG1268ICV@0.5 00016
STD005 240-539023/4 IC		8082A							
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1248@0.5ppm 00058	SG1248@1.0ppm 00044	SG1248@1.5ppm 00013	SG1248ICV@.5 00010	SG1262ICV@.5 00013	SG1268ICV@0.5 00016
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A		1 mL					
STD1 240-539023/20 IC		8082A			1 mL				
STD15 240-539023/21 IC		8082A				1 mL			
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1248@0.5ppm 00058	SG1248@1.0ppm 00044	SG1248@1.5ppm 00013	SG1248ICV@.5 00010	SG1262ICV@.5 00013	SG1268ICV@0.5 00016
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A					1 mL		
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A						1 mL	
ICV 240-539023/40		8082A							1 mL
ICV 240-539023/41		8082A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660@.05PPM 00047	SG1660@0.2ppm 00037	SG1660@0.5PPM 00116	SG1660@1.0PPM 00050	SG1660@1.5PPM 00018	SG1660ICV@.5 00018
STD005 240-539023/4 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660@.05PPM 00047	SG1660@0.2ppm 00037	SG1660@0.5PPM 00116	SG1660@1.0PPM 00050	SG1660@1.5PPM 00018	SG1660ICV@.5 00018
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660@.05PPM 00047	SG1660@0.2ppm 00037	SG1660@0.5PPM 00116	SG1660@1.0PPM 00050	SG1660@1.5PPM 00018	SG1660ICV@.5 00018
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A		1 mL					
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A			1 mL				
STD05 240-539023/31 ICIS		8082A				1 mL			
STD1 240-539023/32 IC		8082A					1 mL		
STD15 240-539023/33 IC		8082A						1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660@0.05PPM 00047	SG1660@0.2ppm 00037	SG1660@0.5PPM 00116	SG1660@1.0PPM 00050	SG1660@1.5PPM 00018	SG1660ICV@.5 00018
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660STD@0.1 00034	SG2154@0.05PP 00029	SG2154@0.2PPM 00031	SG2154@0.5PPM 00066	SG2154@1.0PPM 00047	SG2154@1.5PPM 00013
STD005 240-539023/4 IC		8082A							
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660STD@0.1 00034	SG2154@0.05PP 00029	SG2154@0.2PPM 00031	SG2154@0.5PPM 00066	SG2154@1.0PPM 00047	SG2154@1.5PPM 00013
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A							
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A			1 mL				
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A				1 mL			
STD05 240-539023/25 IC		8082A					1 mL		
STD1 240-539023/26 IC		8082A						1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG1660STD@0.1 00034	SG2154@0.05PP 00029	SG2154@0.2PPM 00031	SG2154@0.5PPM 00066	SG2154@1.0PPM 00047	SG2154@1.5PPM 00013
STD15 240-539023/27 IC		8082A							1 mL
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A		1 mL					
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG2154@0.1PPM 00030	SG2154ICV@.5 00011	SG3262@.05PPM 00028	SG3262@.2PPM 00026	SG3262@0.1PPM 00025	SG3262@0.5PPM 00053
STD005 240-539023/4 IC		8082A				1 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG2154@0.1PPM 00030	SG2154ICV@.5 00011	SG3262@.05PPM 00028	SG3262@.2PPM 00026	SG3262@0.1PPM 00025	SG3262@0.5PPM 00053
STD01 240-539023/5 IC		8082A						1 mL	
STD02 240-539023/6 IC		8082A					1 mL		
STD05 240-539023/7 IC		8082A							1 mL
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG2154@0.1PPM 00030	SG2154ICV@.5 00011	SG3262@.05PPM 00028	SG3262@.2PPM 00026	SG3262@0.1PPM 00025	SG3262@0.5PPM 00053
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A		1 mL					
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG2154@0.1PPM 00030	SG2154ICV@.5 00011	SG3262@.05PPM 00028	SG3262@.2PPM 00026	SG3262@0.1PPM 00025	SG3262@0.5PPM 00053
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A			1 mL				
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG3262@1.0PPM 00038	SG3262@1.5PPM 00014	SG42/68@1.0PP 00042	SG4268@.05PPM 00023	SG4268@.1PPM 00024	SG4268@.2PPM 00023
STD005 240-539023/4 IC		8082A							
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A		1 mL					
STD15 240-539023/9 IC		8082A			1 mL				
STD005 240-539023/10 IC		8082A					1 mL		
STD01 240-539023/11 IC		8082A						1 mL	
STD02 240-539023/12 IC		8082A							1 mL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG3262@1.0PPM 00038	SG3262@1.5PPM 00014	SG42/68@1.0PP 00042	SG4268@.05PPM 00023	SG4268@.1PPM 00024	SG4268@.2PPM 00023
STD05 240-539023/13 IC		8082A							
STD1 240-539023/14 IC		8082A				1 mL			
STD15 240-539023/15 IC		8082A							
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A							
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG3262@1.0PPM 00038	SG3262@1.5PPM 00014	SG42/68@1.0PP 00042	SG4268@.05PPM 00023	SG4268@.1PPM 00024	SG4268@.2PPM 00023
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG4268@0.5PPM 00054	SG4268@1.5PPM 00014				
STD005 240-539023/4 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG4268@0.5PPM 00054	SG4268@1.5PPM 00014				
STD01 240-539023/5 IC		8082A							
STD02 240-539023/6 IC		8082A							
STD05 240-539023/7 IC		8082A							
STD1 240-539023/8 IC		8082A							
STD15 240-539023/9 IC		8082A							
STD005 240-539023/10 IC		8082A							
STD01 240-539023/11 IC		8082A							
STD02 240-539023/12 IC		8082A							
STD05 240-539023/13 IC		8082A		1 mL					
STD1 240-539023/14 IC		8082A							
STD15 240-539023/15 IC		8082A			1 mL				
STD005 240-539023/16 IC		8082A							
STD01 240-539023/17 IC		8082A							
STD02 240-539023/18 IC		8082A							
STD05 240-539023/19 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG4268@0.5PPM 00054	SG4268@1.5PPM 00014				
STD1 240-539023/20 IC		8082A							
STD15 240-539023/21 IC		8082A							
STD005 240-539023/22 IC		8082A							
STD01 240-539023/23 IC		8082A							
STD02 240-539023/24 IC		8082A							
STD05 240-539023/25 IC		8082A							
STD1 240-539023/26 IC		8082A							
STD15 240-539023/27 IC		8082A							
STD005 240-539023/28 IC		8082A							
STD01 240-539023/29 IC		8082A							
STD02 240-539023/30 IC		8082A							
STD05 240-539023/31 ICIS		8082A							
STD1 240-539023/32 IC		8082A							
STD15 240-539023/33 IC		8082A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 539023 Batch Start Date: 08/16/22 10:18 Batch Analyst: Hass, Lori

Batch Method: 8082A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	SG4268@0.5PPM 00054	SG4268@1.5PPM 00014				
ICV 240-539023/34		8082A							
ICV 240-539023/35		8082A							
ICV 240-539023/36		8082A							
ICV 240-539023/37		8082A							
ICV 240-539023/38		8082A							
ICV 240-539023/39		8082A							
ICV 240-539023/40		8082A							
ICV 240-539023/41		8082A							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 500-221506-1

SDG No.: _____

Batch Number: 541803 Batch Start Date: 09/08/22 14:22 Batch Analyst: Cook, Thomas E

Batch Method: 3540C Batch End Date: 09/09/22 06:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ex10PPMSPK 00058	ex2/.2SURRW 00168		
500-221506-F-1	B-1 (6'-8')	3540C, 8082A	T	10.35 g	10 mL		1 mL		
500-221506-F-2	B-2 (2'-4')	3540C, 8082A	T	10.29 g	10 mL		1 mL		
500-221506-F-3	B-3 (22'-23.5')	3540C, 8082A	T	9.60 g	10 mL		1 mL		
500-221506-F-4	B-4 (20'-22')	3540C, 8082A	T	9.78 g	10 mL		1 mL		
500-221506-F-5	B-5 (8'-10')	3540C, 8082A	T	10.25 g	10 mL		1 mL		
500-221506-F-5 MS	B-5 (8'-10')	3540C, 8082A	T	10.49 g	10 mL	1 mL	1 mL		
500-221506-F-5 MSD	B-5 (8'-10')	3540C, 8082A	T	10.24 g	10 mL	1 mL	1 mL		
500-221506-F-6	B-6 (30'-32')	3540C, 8082A	T	10.41 g	10 mL		1 mL		
500-221506-F-8	Dup-1	3540C, 8082A	T	10.15 g	10 mL		1 mL		
MB 240-541803/18		3540C, 8082A		10 g	10 mL		1 mL		
LCS 240-541803/19		3540C, 8082A		10 g	10 mL	1 mL	1 mL		

Batch Notes	
Balance ID	1339908
Analyst ID - Extraction	THOMAS COOK
Analyst ID - Spike Analyst	THOMAS COOK
Prep Solvent ID	5402074
Na2SO4 ID	5382427
Glass Wool ID	3894706
Analyst ID - Concentration	BRITTANY BLYTHE LUCAS GROSSMAN EBONE FORD
Acid used for Clean Up ID	5801983

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Chicago _____

Job Number: 500-221506-1 _____

SDG No.: _____

Project: Fullerton Pike _____

Client Sample ID	Lab Sample ID
B-1 (6'-8')	500-221506-1
B-2 (2'-4')	500-221506-2
B-3 (22'-23.5')	500-221506-3
B-4 (20'-22')	500-221506-4
B-5 (8'-10')	500-221506-5
B-6 (30'-32')	500-221506-6
Dup-1	500-221506-8

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-1 (6'-8')

Lab Sample ID: 500-221506-1

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.:

Matrix: Solid

Date Sampled: 08/29/2022 10:10

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 78.0

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.8	1.3		mg/Kg			1	6010B
7440-39-3	Barium	110	1.3		mg/Kg			1	6010B
7440-43-9	Cadmium	<0.25	0.25		mg/Kg			1	6010B
7440-47-3	Chromium	15	1.3		mg/Kg			1	6010B
7439-92-1	Lead	17	0.64		mg/Kg			1	6010B
7782-49-2	Selenium	<1.3	1.3		mg/Kg			1	6010B
7440-22-4	Silver	<0.64	0.64		mg/Kg			1	6010B
7439-97-6	Mercury	0.048	0.020		mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-2 (2'-4')

Lab Sample ID: 500-221506-2

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/29/2022 10:22

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 86.1

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.6	1.1		mg/Kg			1	6010B
7440-39-3	Barium	50	1.1		mg/Kg			1	6010B
7440-43-9	Cadmium	<0.22	0.22		mg/Kg			1	6010B
7440-47-3	Chromium	21	1.1		mg/Kg			1	6010B
7439-92-1	Lead	9.3	0.54		mg/Kg			1	6010B
7782-49-2	Selenium	<1.1	1.1		mg/Kg			1	6010B
7440-22-4	Silver	<0.54	0.54		mg/Kg			1	6010B
7439-97-6	Mercury	0.024	0.018		mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-3 (22'-23.5')

Lab Sample ID: 500-221506-3

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/29/2022 11:25

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 82.0

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	<1.0	1.0		mg/Kg			1	6010B
7440-39-3	Barium	18	1.0		mg/Kg			1	6010B
7440-43-9	Cadmium	0.95	0.21		mg/Kg			1	6010B
7440-47-3	Chromium	2.4	1.0		mg/Kg			1	6010B
7439-92-1	Lead	15	0.52		mg/Kg			1	6010B
7782-49-2	Selenium	<1.0	1.0		mg/Kg			1	6010B
7440-22-4	Silver	<0.52	0.52		mg/Kg			1	6010B
7439-97-6	Mercury	0.19	0.019		mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-4 (20'-22')

Lab Sample ID: 500-221506-4

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/29/2022 12:18

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 81.3

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	1.1		mg/Kg			1	6010B
7440-39-3	Barium	45	1.1		mg/Kg			1	6010B
7440-43-9	Cadmium	2.9	0.23		mg/Kg			1	6010B
7440-47-3	Chromium	11	1.1		mg/Kg			1	6010B
7439-92-1	Lead	18	0.56		mg/Kg			1	6010B
7782-49-2	Selenium	<1.1	1.1		mg/Kg			1	6010B
7440-22-4	Silver	<0.56	0.56		mg/Kg			1	6010B
7439-97-6	Mercury	<0.018	0.018		mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-5 (8'-10')

Lab Sample ID: 500-221506-5

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.:

Matrix: Solid

Date Sampled: 08/29/2022 14:15

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 75.3

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.8	1.2		mg/Kg			1	6010B
7440-39-3	Barium	44	1.2		mg/Kg		F2	1	6010B
7440-43-9	Cadmium	<0.24	0.24		mg/Kg			1	6010B
7440-47-3	Chromium	76	1.2		mg/Kg		F1 F2	1	6010B
7439-92-1	Lead	17	0.60		mg/Kg		F1 F2	1	6010B
7782-49-2	Selenium	<1.2	1.2		mg/Kg			1	6010B
7440-22-4	Silver	<0.60	0.60		mg/Kg			1	6010B
7439-97-6	Mercury	0.063	0.020		mg/Kg		F1	1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B-6 (30'-32')

Lab Sample ID: 500-221506-6

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/29/2022 15:33

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 82.8

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.5	1.1		mg/Kg			1	6010B
7440-39-3	Barium	79	1.1		mg/Kg			1	6010B
7440-43-9	Cadmium	0.48	0.21		mg/Kg			1	6010B
7440-47-3	Chromium	9.6	1.1		mg/Kg			1	6010B
7439-92-1	Lead	15	0.53		mg/Kg			1	6010B
7782-49-2	Selenium	<1.1	1.1		mg/Kg			1	6010B
7440-22-4	Silver	<0.53	0.53		mg/Kg			1	6010B
7439-97-6	Mercury	<0.019	0.019		mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Dup-1

Lab Sample ID: 500-221506-8

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/29/2022 00:00

Reporting Basis: DRY

Date Received: 08/30/2022 10:15

% Solids: 80.6

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.7	1.2		mg/Kg			1	6010B
7440-39-3	Barium	120	1.2		mg/Kg			1	6010B
7440-43-9	Cadmium	<0.24	0.24		mg/Kg			1	6010B
7440-47-3	Chromium	14	1.2		mg/Kg			1	6010B
7439-92-1	Lead	18	0.59		mg/Kg			1	6010B
7782-49-2	Selenium	<1.2	1.2		mg/Kg			1	6010B
7440-22-4	Silver	<0.59	0.59		mg/Kg			1	6010B
7439-97-6	Mercury	0.043	0.020		mg/Kg			1	7471B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

ICV Source: M22HICVIC_00001 Concentration Units: mg/L

CCV Source: M22HCCVIC_00001

Analyte	ICV 500-673605/7 09/07/2022 14:10				CCV 500-673605/13 09/07/2022 14:30				CCV 500-673605/24 09/07/2022 15:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.422		0.400	105	0.531		0.500	106	0.528		0.500	106
Barium	0.386		0.400	96	0.497		0.500	99	0.494		0.500	99
Cadmium	0.410		0.400	102	0.514		0.500	103	0.512		0.500	102
Chromium	0.376		0.400	94	0.477		0.500	95	0.458		0.500	92
Lead	0.417		0.400	104	0.522		0.500	104	0.513		0.500	103
Selenium	0.422		0.400	106	0.521		0.500	104	0.514		0.500	103
Silver	0.389		0.400	97	0.501		0.500	100	0.483		0.500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

ICV Source: M22HICVIC_00001 Concentration Units: mg/L

CCV Source: M22HCCVIC_00001

Analyte	CCV 500-673605/45 09/07/2022 16:26				CCV 500-673605/57 09/07/2022 17:05				CCV 500-673605/69 09/07/2022 17:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.537		0.500	107	0.529		0.500	106	0.522		0.500	104
Barium	0.496		0.500	99	0.493		0.500	99	0.487		0.500	97
Cadmium	0.519		0.500	104	0.520		0.500	104	0.516		0.500	103
Chromium	0.467		0.500	93	0.472		0.500	94	0.483		0.500	97
Lead	0.513		0.500	103	0.521		0.500	104	0.526		0.500	105
Selenium	0.520		0.500	104	0.507		0.500	101	0.513		0.500	103
Silver	0.493		0.500	99	0.494		0.500	99	0.503		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

ICV Source: M22HICVIC_00001 Concentration Units: mg/L

CCV Source: M22HCCVIC_00001

Analyte	ICV 500-673826/7 09/08/2022 17:34				CCV 500-673826/13 09/08/2022 17:53				CCV 500-673826/28 09/08/2022 18:44			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.406		0.400	101	0.501		0.500	100	0.502		0.500	100
Barium	0.392		0.400	98	0.489		0.500	98	0.490		0.500	98
Cadmium	0.394		0.400	99	0.492		0.500	98	0.491		0.500	98
Chromium	0.393		0.400	98	0.489		0.500	98	0.488		0.500	98
Selenium	0.400		0.400	100	0.491		0.500	98	0.487		0.500	97
Silver	0.405		0.400	101	0.519		0.500	104	0.514		0.500	103
<i>Lead</i>	0.403		0.400	101	0.507		0.500	101	0.513		0.500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

ICV Source: M22HICVIC_00001 Concentration Units: mg/L

CCV Source: M22HCCVIC_00001

Analyte	CCV 500-673826/64 09/08/2022 20:40				CCV 500-673826/76 09/08/2022 21:20							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.480		0.500	96	0.491		0.500	98				
Barium	0.463		0.500	93	0.474		0.500	95				
Cadmium	0.481		0.500	96	0.485		0.500	97				
Chromium	0.474		0.500	95	0.487		0.500	97				
Selenium	0.469		0.500	94	0.477		0.500	95				
Silver	0.497		0.500	99	0.509		0.500	102				
<i>Lead</i>	0.506		0.500	101	0.513		0.500	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Method: 6010B Instrument ID: ICP6

Lab Sample ID: CRI 500-673605/10 Concentration Units: mg/L

CRQL Check Standard Source: M22GCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0190		95	50-150
Barium	0.0200	0.0205		102	50-150
Cadmium	0.00400	0.00433		108	50-150
Chromium	0.0200	0.0194		97	50-150
Lead	0.0100	0.0109		109	50-150
Selenium	0.0200	0.0217		109	50-150
Silver	0.0100	0.0103		103	50-150

Lab Sample ID: CRI 500-673826/10 Concentration Units: mg/L

CRQL Check Standard Source: M22GCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0196		98	50-150
Barium	0.0200	0.0205		102	50-150
Cadmium	0.00400	0.00401		100	50-150
Chromium	0.0200	0.0170		85	50-150
Lead	0.0100	0.0106		106	50-150
Selenium	0.0200	0.0207		104	50-150
Silver	0.0100	0.0107		107	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Method: 7471B Instrument ID: HG6
 Lab Sample ID: CRA 500-673625/10 Concentration Units: ug/L
 CRQL Check Standard Source: M21JSTKHG_002_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.125	J	63	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICBIS 500-673605/8 09/07/2022 14:13		CCB 500-673605/14 09/07/2022 14:33		CCB 500-673605/23 09/07/2022 15:11		CCB 500-673605/46 09/07/2022 16:29	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Barium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Cadmium	0.0020	<0.0020		<0.0010		<0.0010		<0.0010	
Chromium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Lead	0.0050	<0.0050		<0.0025		<0.0025		<0.0025	
Selenium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Silver	0.0050	<0.0050		<0.0025		<0.0025		<0.0025	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	CCB 500-673605/58 09/07/2022 17:08		CCB 500-673605/70 09/07/2022 17:46					
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050		<0.0050					
Barium	0.010	<0.0050		<0.0050					
Cadmium	0.0020	<0.0010		<0.0010					
Chromium	0.010	<0.0050		<0.0050					
Lead	0.0050	<0.0025		<0.0025					
Selenium	0.010	<0.0050		<0.0050					
Silver	0.0050	<0.0025		<0.0025					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICBIS 500-673826/8 09/08/2022 17:37		CCB 500-673826/14 09/08/2022 17:58		CCB 500-673826/29 09/08/2022 18:47		CCB 500-673826/65 09/08/2022 20:43	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Barium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Cadmium	0.0020	<0.0020		<0.0010		<0.0010		<0.0010	
Chromium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Selenium	0.010	<0.010		<0.0050		<0.0050		<0.0050	
Silver	0.0050	<0.0050		<0.0025		<0.0025		<0.0025	
<i>Lead</i>	0.0050	<0.0050		<0.0025		<0.0025		<0.0025	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	CCB 500-673826/77 09/08/2022 21:23							
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050							
Barium	0.010	<0.0050							
Cadmium	0.0020	<0.0010							
Chromium	0.010	<0.0050							
Selenium	0.010	<0.0050							
Silver	0.0050	<0.0025							
<i>Lead</i>	0.0050	<0.0025							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 500-673625/9 09/08/2022 07:02		CCB 500-673625/68 09/08/2022 08:55		CCB 500-673625/80 09/08/2022 09:26		CCB 500-673625/92 09/08/2022 09:53	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.098		<0.098		<0.098		<0.098	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 500-673245/1-A
Instrument Code: ICP6 Batch No.: 673605

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<1.0			6010B
7440-39-3	Barium	<1.0			6010B
7440-43-9	Cadmium	<0.20			6010B
7440-47-3	Chromium	<1.0			6010B
7439-92-1	Lead	<0.50			6010B
7782-49-2	Selenium	<1.0			6010B
7440-22-4	Silver	<0.50			6010B

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 500-673439/12-A
Instrument Code: HG6 Batch No.: 673625

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.017			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID: ICSA 500-673605/11

Instrument ID: ICP6

Lab File ID: P6090722AA.asc

ICS Source: M22HISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		-0.0011	
Barium		0.0018	
Cadmium		0.0008	
Chromium		0.0008	
Lead		0.0035	
Selenium		0.0077	
Silver		0.0005	
<i>Aluminum</i>	<i>500</i>	<i>523</i>	<i>105</i>
<i>Antimony</i>		<i>-0.0080</i>	
<i>Beryllium</i>		<i>0.0023</i>	
<i>Bismuth</i>		<i>0.0194</i>	
<i>Boron</i>		<i>-0.0028</i>	
<i>Calcium</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Cobalt</i>		<i>0.0002</i>	
<i>Copper</i>		<i>0.0004</i>	
<i>Iron</i>	<i>200</i>	<i>193</i>	<i>96</i>
<i>Li</i>		<i>0.0016</i>	
<i>Magnesium</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Manganese</i>		<i>0.0020</i>	
<i>Molybdenum</i>		<i>0.0007</i>	
<i>Nickel</i>		<i>-0.0026</i>	
<i>Potassium</i>		<i>0.0426</i>	
<i>Silicon</i>		<i>-0.0107</i>	
<i>Sodium</i>		<i>0.0607</i>	
<i>Strontium</i>		<i>0.0022</i>	
<i>Thallium</i>		<i>0.0045</i>	
<i>Tin</i>		<i>0.0124</i>	
<i>Titanium</i>		<i>0.0035</i>	
<i>Vanadium</i>		<i>-0.0022</i>	
<i>Zinc</i>		<i>0.0019</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID: ICSAB 500-673605/12

Instrument ID: ICP6

Lab File ID: P6090722AA.asc

ICS Source: M22IISBIC_00001

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.0977	98
Barium	0.500	0.494	99
Cadmium	1.00	1.03	103
Chromium	0.500	0.425	85
Lead	0.0500	0.0491	98
Selenium	0.0500	0.0497	99
Silver	0.200	0.212	106
<i>Aluminum</i>	<i>500</i>	<i>510</i>	<i>102</i>
<i>Antimony</i>	<i>0.600</i>	<i>0.545</i>	<i>91</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.510</i>	<i>102</i>
<i>Bismuth</i>		<i>0.0172</i>	
<i>Boron</i>		<i>-0.0027</i>	
<i>Calcium</i>	<i>500</i>	<i>470</i>	<i>94</i>
<i>Cobalt</i>	<i>0.500</i>	<i>0.515</i>	<i>103</i>
<i>Copper</i>	<i>0.500</i>	<i>0.559</i>	<i>112</i>
<i>Iron</i>	<i>200</i>	<i>187</i>	<i>94</i>
<i>Li</i>		<i>0.0015</i>	
<i>Magnesium</i>	<i>500</i>	<i>486</i>	<i>97</i>
<i>Manganese</i>	<i>0.500</i>	<i>0.457</i>	<i>91</i>
<i>Molybdenum</i>		<i>0.0007</i>	
<i>Nickel</i>	<i>1.00</i>	<i>0.976</i>	<i>98</i>
<i>Potassium</i>		<i>0.0778</i>	
<i>Silicon</i>		<i>-0.0098</i>	
<i>Sodium</i>		<i>0.0526</i>	
<i>Strontium</i>		<i>0.0023</i>	
<i>Thallium</i>	<i>0.100</i>	<i>0.0854</i>	<i>85</i>
<i>Tin</i>		<i>0.0103</i>	
<i>Titanium</i>		<i>0.0041</i>	
<i>Vanadium</i>	<i>0.500</i>	<i>0.457</i>	<i>91</i>
<i>Zinc</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID: ICSA 500-673826/11

Instrument ID: ICP6

Lab File ID: P6090822B.asc

ICS Source: M22HISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		-0.0021	
Barium		0.0015	
Cadmium		0.0008	
Chromium		-0.0018	
Selenium		-0.0027	
Silver		0.0008	
<i>Aluminum</i>	<i>500</i>	<i>512</i>	<i>102</i>
<i>Antimony</i>		<i>-0.0096</i>	
<i>Beryllium</i>		<i>0.0023</i>	
<i>Bismuth</i>		<i>0.0014</i>	
<i>Calcium</i>	<i>500</i>	<i>472</i>	<i>94</i>
<i>Cobalt</i>		<i>-0.0002</i>	
<i>Copper</i>		<i>-0.0010</i>	
<i>Iron</i>	<i>200</i>	<i>190</i>	<i>95</i>
<i>Lead</i>		<i>0.0043</i>	
<i>Li</i>		<i>0.0038</i>	
<i>Magnesium</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Manganese</i>		<i>0.0019</i>	
<i>Molybdenum</i>		<i>-0.0023</i>	
<i>Nickel</i>		<i>-0.0058</i>	
<i>Potassium</i>		<i>0.0012</i>	
<i>Silicon</i>		<i>-0.0441</i>	
<i>Sodium</i>		<i>0.0361</i>	
<i>Strontium</i>		<i>0.0019</i>	
<i>Thallium</i>		<i>0.0025</i>	
<i>Tin</i>		<i>0.0062</i>	
<i>Titanium</i>		<i>0.0036</i>	
<i>Vanadium</i>		<i>-0.0030</i>	
<i>Zinc</i>		<i>-0.0088</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Lab Sample ID: ICSAB 500-673826/12

Instrument ID: ICP6

Lab File ID: P6090822B.asc

ICS Source: M22IISBIC_00001

Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	0.100	0.0999	100
Barium	0.500	0.495	99
Cadmium	1.00	0.998	100
Chromium	0.500	0.458	92
Selenium	0.0500	0.0442	88
Silver	0.200	0.225	112
<i>Aluminum</i>	<i>500</i>	<i>519</i>	<i>104</i>
<i>Antimony</i>	<i>0.600</i>	<i>0.520</i>	<i>87</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.504</i>	<i>101</i>
<i>Bismuth</i>		<i>0.0006</i>	
<i>Boron</i>		<i>-0.0591</i>	
<i>Calcium</i>	<i>500</i>	<i>483</i>	<i>97</i>
<i>Cobalt</i>	<i>0.500</i>	<i>0.511</i>	<i>102</i>
<i>Copper</i>	<i>0.500</i>	<i>0.541</i>	<i>108</i>
<i>Iron</i>	<i>200</i>	<i>192</i>	<i>96</i>
<i>Lead</i>	<i>0.0500</i>	<i>0.0474</i>	<i>95</i>
<i>Li</i>		<i>0.0037</i>	
<i>Magnesium</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Manganese</i>	<i>0.500</i>	<i>0.468</i>	<i>94</i>
<i>Molybdenum</i>		<i>-0.0032</i>	
<i>Nickel</i>	<i>1.00</i>	<i>0.971</i>	<i>97</i>
<i>Potassium</i>		<i>-0.0057</i>	
<i>Silicon</i>		<i>-0.0410</i>	
<i>Sodium</i>		<i>0.0392</i>	
<i>Strontium</i>		<i>0.0021</i>	
<i>Thallium</i>	<i>0.100</i>	<i>0.0810</i>	<i>81</i>
<i>Tin</i>		<i>0.0065</i>	
<i>Titanium</i>		<i>0.0045</i>	
<i>Vanadium</i>	<i>0.500</i>	<i>0.457</i>	<i>91</i>
<i>Zinc</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: B-5 (8'-10') MS

Lab ID: 500-221506-5 MS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 75.3

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	18.7	6.8	12.3	96	75-125		6010B
Barium	304	44	246	106	75-125		6010B
Cadmium	5.60	<0.24	6.16	88	75-125		6010B
Chromium	108	76	24.6	131	75-125	F1	6010B
Lead	29.1	17	12.3	101	75-125		6010B
Selenium	10.1	<1.2	12.3	82	75-125		6010B
Silver	5.27	<0.60	6.16	80	75-125		6010B
Mercury	0.127	0.063	0.0984	65	75-125	F1	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: B-5 (8'-10') MSD

Lab ID: 500-221506-5 MSD

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 75.3

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	16.2	11.3	83	75-125	14	20		6010B
Barium	245	226	89	75-125	22	20	F2	6010B
Cadmium	5.00	5.65	85	75-125	11	20		6010B
Chromium	71.8	22.6	-20	75-125	41	20	F1 F2	6010B
Lead	44.6	11.3	247	75-125	42	20	F1 F2	6010B
Selenium	8.83	11.3	78	75-125	13	20		6010B
Silver	5.01	5.65	82	75-125	5	20		6010B
Mercury	0.126	0.0980	65	75-125	1	20	F1	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

6-IN
 DUPLICATES
 METALS

Client ID: B-5 (8'-10') DU

Lab ID: 500-221506-5 DU

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

% Solids for Sample: 75.3

% Solids for Duplicate: 75.3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	1.2	6.8	8.41	21	F3	6010B
Barium	1.2	44	36.5	18		6010B
Cadmium	0.25	<0.24	<0.25	NC		6010B
Chromium	1.2	76	92.8	20		6010B
Lead	0.62	17	18.1	8		6010B
Selenium	1.2	<1.2	<1.2	NC		6010B
Silver	0.62	<0.60	<0.62	NC		6010B
Mercury	0.020	0.063	0.0584	7		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
 LINEAR RANGE CHECK STANDARD
 METALS

Lab ID: LRC 500-673605/19

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

Sample Matrix: _____

LCS Source: _____

Analyte	(mg/L)						
	True	Found	C	%R	Limits	Q	Method
Arsenic		<0.010					6010B
Barium	5.00	4.92		98	90	110	6010B
Cadmium	5.00	4.92		98	90	110	6010B
Chromium	2.00	1.84		92	90	110	6010B
Lead	5.00	5.03		101	90	110	6010B
Selenium	5.00	5.14		103	90	110	6010B
Silver		<0.0050					6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-673245/2-A

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

Sample Matrix: Solid

LCS Source: M22GSPKIC_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	10.0	9.28		93	80	120		6010B
Barium	200	202		101	80	120		6010B
Cadmium	5.00	4.89		98	80	120		6010B
Chromium	20.0	18.6		93	80	120		6010B
Lead	10.0	9.25		92	80	120		6010B
Selenium	10.0	8.77		88	80	120		6010B
Silver	5.00	4.23		85	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
 LINEAR RANGE CHECK STANDARD
 METALS

Lab ID: LRC 500-673826/17

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

Sample Matrix: _____

LCS Source: _____

Analyte	(mg/L)						
	True	Found	C	%R	Limits	Q	Method
Arsenic		<0.010					6010B
Barium	5.00	5.04		101	90	110	6010B
Cadmium	5.00	4.88		98	90	110	6010B
Chromium	2.00	1.97		99	90	110	6010B
Lead	5.00	5.06		101	90	110	6010B
Selenium	5.00	5.08		102	90	110	6010B
Silver		<0.0050					6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-673439/13-A

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

Sample Matrix: Solid

LCS Source: M22GSTKHG_001_00001

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.167	0.172		103	80	120	7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
 ICP-AES AND ICP-MS SERIAL DILUTIONS
 METALS

Lab ID: 500-221506-5

SDG No: _____

Lab Name: Eurofins Chicago

Job No: 500-221506-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	6.8	7.07	NC		6010B
Barium	44	49.8	14	V	6010B
Cadmium	<0.24	<1.2	NC		6010B
Chromium	76	89.7	18	V	6010B
Lead	17	19.1	14	V	6010B
Selenium	<1.2	<6.0	NC		6010B
Silver	<0.60	<3.0	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Chicago

Job Number: 500-221506-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP6

Method: 6010B

MDL Date: 03/29/2017 09:48

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		1	0.342
Barium		1	0.114
Cadmium		0.2	0.036
Chromium		1	0.495
Lead		0.5	0.231
Selenium		1	0.588
Silver		0.5	0.129

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Chicago

Job Number: 500-221506-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP6

Method: 6010B

XMDL Date: 05/25/2006 09:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Chicago Job Number: 500-221506-1
SDG Number: _____
Matrix: Solid Instrument ID: HG6
Method: 7471B MDL Date: 03/29/2017 08:56
Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (ug/Kg)	MDL (ug/Kg)
Mercury		16.7	5.56

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Chicago Job Number: 500-221506-1
SDG Number: _____
Matrix: Solid Instrument ID: HG6
Method: 7471B XMDL Date: 03/29/2017 08:57

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.0984

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Chicago

Job Number: 500-221506-1

SDG No.: _____

ICP-AES Instrument ID: ICP6

Date: 08/23/2022

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Aluminum	308.215										0.000941				
Antimony	206.833		0.000029												
Arsenic	189.042		0.0000023												-0.000022
Barium	455.403										-0.000144				
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802			0.002171											0
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754														0.000021
Iron	271.441										-0.011085	0.050586			
Lead	220.353		-0.000060								0.000027				0.000063
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														-0.000034
Nickel	231.604		0.000008												0.000033
Potassium	766.490														
Selenium	196.090		-0.000014								0.000025				
Silicon	212.412														
Silver	328.068						0.000039				-0.010920				
Sodium	589.592														
Strontium	421.552		0.000013						0.000008		0.000284				
Thallium	190.856		0.000025								0.000540				-0.000044
Tin	189.989										0.000107				0.000022
Titanium	334.941	0.003434													
Vanadium	292.402														0.000035
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Chicago

Job Number: 500-221506-1

SDG No.: _____

ICP-AES Instrument ID: ICP6

Date: 08/23/2022

Analyte	Wave Length	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215					0.007252									
Antimony	206.833														
Arsenic	189.042											-0.000204			
Barium	455.403			0.000012											
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802											0.000021			
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														0.002231
Copper	324.754														
Iron	271.441			0.000100					0						
Lead	220.353									-0.000357		0.000135			
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000016													
Potassium	766.490														
Selenium	196.090														
Silicon	212.412					0.058805				0.009312			0.028864		0.016825
Silver	328.068				0.000212										
Sodium	589.592														
Strontium	421.552														
Thallium	190.856				0.000269										
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Chicago

Job Number: 500-221506-1

SDG No.: _____

ICP-AES Instrument ID: ICP6

Date: 08/23/2022

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215		0.067221												
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754														
Iron	271.441		0.003316												
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068		0.000132												
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		0.002191												
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Chicago

Job No: 500-221506-1

SDG No.: _____

Instrument ID: ICP6

Date: 01/02/2019 11:08

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		1.0	6010B
Barium		7.5	6010B
Cadmium		10	6010B
Chromium		2.0	6010B
Lead		100	6010B
Selenium		20	6010B
Silver		1.0	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Chicago

Job No: 500-221506-1

SDG No.: _____

Instrument ID: HG6

Date: 11/09/2018 08:59

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		10	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 500-673245/1-A	09/06/2022 12:10	673245	1		100
LCS 500-673245/2-A	09/06/2022 12:10	673245	1		100
500-221506-1	09/06/2022 12:10	673245	1.0070		100
500-221506-2	09/06/2022 12:10	673245	1.0759		100
500-221506-3	09/06/2022 12:10	673245	1.1803		100
500-221506-4	09/06/2022 12:10	673245	1.0886		100
500-221506-5	09/06/2022 12:10	673245	1.1002		100
500-221506-5 DU	09/06/2022 12:10	673245	1.0633		100
500-221506-5 MS	09/06/2022 12:10	673245	1.0785		100
500-221506-5 MSD	09/06/2022 12:10	673245	1.1756		100
500-221506-6	09/06/2022 12:10	673245	1.1477		100
500-221506-8	09/06/2022 12:10	673245	1.0515		100

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Chicago

Job No.: 500-221506-1

SDG No.: _____

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 500-673439/12-A	09/07/2022 14:40	673439	0.6		50
LCS 500-673439/13-A	09/07/2022 14:40	673439	0.6		50
500-221506-1	09/07/2022 14:40	673439	0.6492		50
500-221506-2	09/07/2022 14:40	673439	0.6436		50
500-221506-3	09/07/2022 14:40	673439	0.6350		50
500-221506-4	09/07/2022 14:40	673439	0.6947		50
500-221506-5	09/07/2022 14:40	673439	0.6764		50
500-221506-5 DU	09/07/2022 14:40	673439	0.6765		50
500-221506-5 MS	09/07/2022 14:40	673439	0.6745		50
500-221506-5 MSD	09/07/2022 14:40	673439	0.6771		50
500-221506-6	09/07/2022 14:40	673439	0.6542		50
500-221506-8	09/07/2022 14:40	673439	0.6268		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/07/2022 13:50 End Date: 09/07/2022 20:08

Lab Sample Id	D/F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			13:50																
ZZZZZZ			13:54																
ZZZZZZ			13:57																
ZZZZZZ			14:00																
ZZZZZZ			14:04																
ZZZZZZ			14:07																
ICV 500-673605/7	1		14:10	X	X	X	X	X	X	X									
ICBIS 500-673605/8	1		14:13	X	X	X	X	X	X	X									
ICVL 500-673605/9			14:16																
CRI 500-673605/10	1		14:20	X	X	X	X	X	X	X									
ICSA 500-673605/11	1		14:23	X	X	X	X	X	X	X									
ICSAB 500-673605/12	1		14:26	X	X	X	X	X	X	X									
CCV 500-673605/13	1		14:30	X	X	X	X	X	X	X									
CCB 500-673605/14	1		14:33	X	X	X	X	X	X	X									
ZZZZZZ			14:37																
ZZZZZZ			14:40																
ICVL 500-673605/17			14:51																
ZZZZZZ			14:54																
LRC 500-673605/19	1		14:57	X	X	X	X	X	X	X									
ZZZZZZ			15:01																
ZZZZZZ			15:04																
ZZZZZZ			15:07																
CCB 500-673605/23	1		15:11	X	X	X	X	X	X	X									
CCV 500-673605/24	1		15:14	X	X	X	X	X	X	X									
ZZZZZZ			15:23																
ZZZZZZ			15:26																
ZZZZZZ			15:29																
ZZZZZZ			15:32																
ZZZZZZ			15:35																
ZZZZZZ			15:38																
ZZZZZZ			15:41																
ZZZZZZ			15:45																
CCV 500-673605/33			15:48																
CCB 500-673605/34			15:51																
ZZZZZZ			15:54																
ZZZZZZ			15:57																
ZZZZZZ			16:01																
ZZZZZZ			16:04																
ZZZZZZ			16:07																
ZZZZZZ			16:10																
ZZZZZZ			16:14																
ZZZZZZ			16:17																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/07/2022 13:50 End Date: 09/07/2022 20:08

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	A	B	C	C	P	S																					
ZZZZZZ			16:20																												
ZZZZZZ			16:23																												
CCV 500-673605/45	1		16:26	X	X	X	X	X	X	X																					
CCB 500-673605/46	1		16:29	X	X	X	X	X	X	X																					
ZZZZZZ			16:33																												
ZZZZZZ			16:36																												
ZZZZZZ			16:39																												
ZZZZZZ			16:42																												
ZZZZZZ			16:45																												
ZZZZZZ			16:48																												
ZZZZZZ			16:52																												
MB 500-673245/1-A	1	T	16:55	X	X	X	X	X	X	X																					
LCS 500-673245/2-A	1	T	16:58	X	X	X	X	X	X	X																					
500-221506-1	1	T	17:02	X	X	X	X	X	X	X																					
CCV 500-673605/57	1		17:05	X	X	X	X	X	X	X																					
CCB 500-673605/58	1		17:08	X	X	X	X	X	X	X																					
500-221506-2	1	T	17:11	X	X	X	X	X	X	X																					
500-221506-3	1	T	17:14							X																					
500-221506-4	1	T	17:18	X	X	X	X	X	X	X																					
500-221506-5	1	T	17:21	X	X	X	X	X	X	X																					
500-221506-5 SD	5	T	17:24	X	X	X	X	X	X	X																					
500-221506-5 DU	1	T	17:27	X	X	X	X	X	X	X																					
500-221506-5 MS	1	T	17:30	X	X	X	X	X	X	X																					
500-221506-5 MSD	1	T	17:33	X	X	X	X	X	X	X																					
500-221506-6	1	T	17:37	X	X	X	X	X	X	X																					
500-221506-8	1	T	17:40	X	X	X	X	X	X	X																					
CCV 500-673605/69	1		17:43	X	X	X	X	X	X	X																					
CCB 500-673605/70	1		17:46	X	X	X	X	X	X	X																					
ZZZZZZ			17:49																												
ZZZZZZ			17:53																												
ZZZZZZ			17:57																												
ZZZZZZ			18:00																												
ZZZZZZ			18:03																												
ZZZZZZ			18:06																												
ZZZZZZ			18:10																												
ZZZZZZ			18:13																												
ZZZZZZ			18:16																												
ZZZZZZ			18:19																												
CCV 500-673605/81			18:22																												
CCB 500-673605/82			18:25																												
ZZZZZZ			18:29																												
ZZZZZZ			18:32																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/07/2022 13:50 End Date: 09/07/2022 20:08

Lab Sample Id	D/F	Type	Time	Analytes																											
				A g	A s	B a	C d	C r	P b	S e																					
ZZZZZZ			18:37																												
ZZZZZZ			18:40																												
ZZZZZZ			18:43																												
ZZZZZZ			18:47																												
ZZZZZZ			18:50																												
ZZZZZZ			18:53																												
ZZZZZZ			18:56																												
ZZZZZZ			19:00																												
CCV 500-673605/93			19:03																												
CCB 500-673605/94			19:06																												
ZZZZZZ			19:09																												
ZZZZZZ			19:13																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
ZZZZZZ			19:23																												
ZZZZZZ			19:27																												
ZZZZZZ			19:30																												
ZZZZZZ			19:33																												
ZZZZZZ			19:36																												
ZZZZZZ			19:40																												
CCV 500-673605/105			19:43																												
CCB 500-673605/106			19:46																												
ZZZZZZ			19:49																												
ZZZZZZ			19:52																												
ZZZZZZ			19:55																												
ZZZZZZ			19:58																												
CCV 500-673605/111			20:02																												
CCB 500-673605/112			20:05																												
CCVL 500-673605/113			20:08																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/08/2022 17:14 End Date: 09/08/2022 23:21

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	A	B	C	C	S																						
ZZZZZZ			17:14																												
ZZZZZZ			17:18																												
ZZZZZZ			17:21																												
ZZZZZZ			17:24																												
ZZZZZZ			17:28																												
ZZZZZZ			17:31																												
ICV 500-673826/7	1		17:34	X	X	X	X	X	X																						
ICBIS 500-673826/8	1		17:37	X	X	X	X	X	X																						
ICVL 500-673826/9			17:40																												
CRI 500-673826/10	1		17:44	X	X	X	X	X	X																						
ICSA 500-673826/11	1		17:47	X	X	X	X	X	X																						
ICSAB 500-673826/12	1		17:50	X	X	X	X	X	X																						
CCV 500-673826/13	1		17:53	X	X	X	X	X	X																						
CCB 500-673826/14	1		17:58	X	X	X	X	X	X																						
ICVL 500-673826/15			18:01																												
ZZZZZZ			18:04																												
LRC 500-673826/17	1		18:08	X	X	X	X	X	X																						
ZZZZZZ			18:12																												
ZZZZZZ			18:15																												
ZZZZZZ			18:18																												
ZZZZZZ			18:21																												
ZZZZZZ			18:25																												
ZZZZZZ			18:28																												
ZZZZZZ			18:31																												
ZZZZZZ			18:34																												
ZZZZZZ			18:38																												
ZZZZZZ			18:41																												
CCV 500-673826/28	1		18:44	X	X	X	X	X	X																						
CCB 500-673826/29	1		18:47	X	X	X	X	X	X																						
ZZZZZZ			18:50																												
ZZZZZZ			18:54																												
ZZZZZZ			18:57																												
ZZZZZZ			19:00																												
ZZZZZZ			19:03																												
ZZZZZZ			19:06																												
ZZZZZZ			19:10																												
ZZZZZZ			19:13																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
CCV 500-673826/40			19:23																												
CCB 500-673826/41			19:26																												
ZZZZZZ			19:29																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/08/2022 17:14 End Date: 09/08/2022 23:21

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	A	B	C	C	S																						
ZZZZZZ			19:32																												
ZZZZZZ			19:35																												
ZZZZZZ			19:39																												
ZZZZZZ			19:42																												
ZZZZZZ			19:45																												
ZZZZZZ			19:48																												
ZZZZZZ			19:51																												
ZZZZZZ			19:54																												
ZZZZZZ			19:58																												
CCV 500-673826/52			20:01																												
CCB 500-673826/53			20:04																												
ZZZZZZ			20:07																												
ZZZZZZ			20:11																												
ZZZZZZ			20:14																												
ZZZZZZ			20:17																												
ZZZZZZ			20:20																												
ZZZZZZ			20:24																												
ZZZZZZ			20:27																												
ZZZZZZ			20:30																												
ZZZZZZ			20:33																												
ZZZZZZ			20:37																												
CCV 500-673826/64		1	20:40	X	X	X	X	X	X																						
CCB 500-673826/65		1	20:43	X	X	X	X	X	X																						
ZZZZZZ			20:46																												
ZZZZZZ			20:50																												
500-221506-3		1 T	20:53	X	X	X	X	X	X																						
ZZZZZZ			20:56																												
ZZZZZZ			20:59																												
ZZZZZZ			21:03																												
ZZZZZZ			21:06																												
ZZZZZZ			21:10																												
ZZZZZZ			21:13																												
ZZZZZZ			21:16																												
CCV 500-673826/76		1	21:20	X	X	X	X	X	X																						
CCB 500-673826/77		1	21:23	X	X	X	X	X	X																						
ZZZZZZ			21:26																												
ZZZZZZ			21:29																												
ZZZZZZ			21:33																												
ZZZZZZ			21:36																												
ZZZZZZ			21:40																												
ZZZZZZ			21:43																												
ZZZZZZ			21:46																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 09/08/2022 17:14 End Date: 09/08/2022 23:21

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	A	B	C	C	S																						
ZZZZZZ			21:49																												
ZZZZZZ			21:53																												
ZZZZZZ			21:56																												
CCV 500-673826/88			21:59																												
CCB 500-673826/89			22:03																												
ZZZZZZ			22:06																												
ZZZZZZ			22:09																												
ZZZZZZ			22:12																												
ZZZZZZ			22:15																												
ZZZZZZ			22:18																												
ZZZZZZ			22:22																												
ZZZZZZ			22:25																												
ZZZZZZ			22:28																												
ZZZZZZ			22:31																												
ZZZZZZ			22:34																												
CCV 500-673826/100			22:37																												
CCB 500-673826/101			22:40																												
CCVL 500-673826/102		1	22:44																												
ZZZZZZ			22:47																												
ZZZZZZ			22:50																												
ZZZZZZ			22:53																												
ZZZZZZ			22:56																												
ZZZZZZ			22:59																												
ZZZZZZ			23:02																												
ZZZZZZ			23:05																												
ZZZZZZ			23:08																												
ZZZZZZ			23:12																												
CCV 500-673826/112			23:15																												
CCB 500-673826/113			23:18																												
CCVL 500-673826/114			23:21																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7471B

Start Date: 09/08/2022 06:31 End Date: 09/08/2022 10:13

Lab Sample Id	D/F	Type	Time	Hg	Analytes																			
ZZZZZZ			06:31																					
ZZZZZZ			06:33																					
ZZZZZZ			06:35																					
ZZZZZZ			06:37																					
ZZZZZZ			06:39																					
ZZZZZZ			06:41																					
ZZZZZZ			06:44																					
ICV 500-673625/8	1		06:59	X																				
ICB 500-673625/9	1		07:02	X																				
CRA 500-673625/10	1		07:04	X																				
ZZZZZZ			07:06																					
ZZZZZZ			07:08																					
ZZZZZZ			07:10																					
ZZZZZZ			07:12																					
ZZZZZZ			07:14																					
ZZZZZZ			07:16																					
ZZZZZZ			07:18																					
ZZZZZZ			07:20																					
CCV 500-673625/19			07:24																					
CCB 500-673625/20			07:26																					
ZZZZZZ			07:28																					
ZZZZZZ			07:30																					
ZZZZZZ			07:32																					
ZZZZZZ			07:33																					
ZZZZZZ			07:35																					
ZZZZZZ			07:37																					
ZZZZZZ			07:39																					
ZZZZZZ			07:41																					
ZZZZZZ			07:43																					
ZZZZZZ			07:45																					
CCV 500-673625/31			07:47																					
CCB 500-673625/32			07:48																					
ZZZZZZ			07:50																					
ZZZZZZ			07:52																					
ZZZZZZ			07:54																					
ZZZZZZ			07:56																					
ZZZZZZ			07:58																					
ZZZZZZ			07:59																					
ZZZZZZ			08:01																					
ZZZZZZ			08:03																					
ZZZZZZ			08:05																					
ZZZZZZ			08:07																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7471B

Start Date: 09/08/2022 06:31 End Date: 09/08/2022 10:13

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
CCV 500-673625/43			08:09																												
CCB 500-673625/44			08:11																												
ZZZZZZ			08:13																												
ZZZZZZ			08:15																												
ZZZZZZ			08:17																												
ZZZZZZ			08:18																												
ZZZZZZ			08:20																												
ZZZZZZ			08:22																												
ZZZZZZ			08:24																												
ZZZZZZ			08:26																												
ZZZZZZ			08:28																												
ZZZZZZ			08:29																												
CCV 500-673625/55			08:31																												
CCB 500-673625/56			08:33																												
ZZZZZZ			08:35																												
ZZZZZZ			08:37																												
ZZZZZZ			08:39																												
ZZZZZZ			08:41																												
ZZZZZZ			08:43																												
ZZZZZZ			08:45																												
ZZZZZZ			08:46																												
ZZZZZZ			08:48																												
ZZZZZZ			08:50																												
ZZZZZZ			08:52																												
CCV 500-673625/67	1		08:53	X																											
CCB 500-673625/68	1		08:55	X																											
MB 500-673439/12-A	1	T	09:06	X																											
LCS 500-673439/13-A	1	T	09:08	X																											
ZZZZZZ			09:10																												
ZZZZZZ			09:12																												
ZZZZZZ			09:14																												
ZZZZZZ			09:15																												
ZZZZZZ			09:17																												
ZZZZZZ			09:19																												
500-221506-1	1	T	09:21	X																											
500-221506-2	1	T	09:22	X																											
CCV 500-673625/79	1		09:24	X																											
CCB 500-673625/80	1		09:26	X																											
500-221506-3	1	T	09:28	X																											
500-221506-4	1	T	09:30	X																											
500-221506-5	1	T	09:32	X																											
500-221506-5 DU	1	T	09:34	X																											

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____
 Instrument ID: HG6 Analysis Method: 7471B
 Start Date: 09/08/2022 06:31 End Date: 09/08/2022 10:13

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
500-221506-5 MS	1	T	09:36	X																											
500-221506-5 MSD	1	T	09:38	X																											
500-221506-6	1	T	09:40	X																											
500-221506-8	1	T	09:42	X																											
ZZZZZZ			09:44																												
ZZZZZZ			09:48																												
CCV 500-673625/91	1		09:50	X																											
CCB 500-673625/92	1		09:53	X																											
ZZZZZZ			09:55																												
ZZZZZZ			09:56																												
ZZZZZZ			09:59																												
ZZZZZZ			10:01																												
ZZZZZZ			10:09																												
CCV 500-673625/98			10:10																												
CCB 500-673625/99			10:13																												

Prep Types: _____
 T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____ Analysis Batch No.: 673605
 ICP Instrument ID: ICP6 Start Date: 09/07/2022 End Date: 09/07/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICV 500-673605/7	14:10										
ICBIS 500-673605/8	14:13										
CRI 500-673605/10	14:20	98		99		101		100			
ICSA 500-673605/11	14:23	67		84		84		88			
ICSAB 500-673605/12	14:26	67		85		85		90			
CCV 500-673605/13	14:30	83		93		94		97			
CCB 500-673605/14	14:33	99		98		100		100			
LRC 500-673605/19	14:57	94		97		99		103			
CCB 500-673605/23	15:11	98		95		99		101			
CCV 500-673605/24	15:14	84		93		95		98			
CCV 500-673605/45	16:26	83		91		95		98			
CCB 500-673605/46	16:29	99		95		99		100			
MB 500-673245/1-A	16:55	99		96		102		100			
LCS 500-673245/2-A	16:58	92		95		98		98			
500-221506-1	17:02	87		105		106		107			
CCV 500-673605/57	17:05	85		95		96		98			
CCB 500-673605/58	17:08	100		98		100		100			
500-221506-2	17:11	86		103		104		105			
500-221506-3	17:14	65									
500-221506-4	17:18	66		90		91		97			
500-221506-5	17:21	84		111		110		111			
500-221506-5 SD	17:24	92		102		103		103			
500-221506-5 DU	17:27	82		104		105		104			
500-221506-5 MS	17:30	82		105		102		103			
500-221506-5 MSD	17:33	80		109		106		105			
500-221506-6	17:37	64		86		87		93			
500-221506-8	17:40	88		112		111		111			
CCV 500-673605/69	17:43	86		99		97		100			
CCB 500-673605/70	17:46	102		102		102		102			

15A-IN
ICP INTERNAL STANDARDS RELATIONS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____ Analysis Batch No.: 673605
 ICP Instrument ID: ICP6 Start Date: 09/07/2022 End Date: 09/07/2022

Analyte	Wavelength	Internal Standard Used:				
		Element In 230.606	Element Y 224.306	Element Y 360.073	Element Y 371.030	Element
Arsenic	189.042		X			
Barium	455.403				X	
Cadmium	228.802		X			
Chromium	267.716			X		
Lead	220.353	X				
Selenium	196.090		X			
Silver	328.068			X		
<i>Aluminum</i>	308.215				X	
<i>Antimony</i>	206.833		X			
<i>Beryllium</i>	234.861				X	
<i>Bismuth</i>	223.061	X				
<i>Boron</i>	208.959		X			
<i>Calcium</i>	317.933				X	
<i>Cobalt</i>	228.616	X				
<i>Copper</i>	324.754			X		
<i>Iron</i>	271.441				X	
<i>Li</i>	670.784				X	
<i>Magnesium</i>	279.079				X	
<i>Manganese</i>	257.610				X	
<i>Molybdenum</i>	202.030		X			
<i>Nickel</i>	231.604	X				
<i>Potassium</i>	766.490				X	
<i>Silicon</i>	212.412		X			
<i>Sodium</i>	589.592				X	
<i>Strontium</i>	421.552			X		
<i>Thallium</i>	190.856	X				
<i>Tin</i>	189.989	X				
<i>Titanium</i>	334.941			X		
<i>Vanadium</i>	292.402			X		
<i>Zinc</i>	206.200	X				
Internal Standard Name on Instrument		In2306	Y_2243	Y_3600	Y_3710	

15-IN
 ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
 METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____ Analysis Batch No.: 673826
 ICP Instrument ID: ICP6 Start Date: 09/08/2022 End Date: 09/08/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICV 500-673826/7	17:34										
ICBIS 500-673826/8	17:37										
CRI 500-673826/10	17:44	98		99		99		99			
ICSA 500-673826/11	17:47	68		86		86		91			
ICSAB 500-673826/12	17:50	68		85		86		90			
CCV 500-673826/13	17:53	84		95		94		98			
CCB 500-673826/14	17:58	99		99		100		100			
LRC 500-673826/17	18:08	92		96		97		99			
CCV 500-673826/28	18:44	85		97		96		98			
CCB 500-673826/29	18:47	100		101		100		101			
CCV 500-673826/64	20:40	87		101		99		102			
CCB 500-673826/65	20:43	103		105		103		102			
500-221506-3	20:53	82		118		114		118			
CCV 500-673826/76	21:20	86		100		97		98			
CCB 500-673826/77	21:23	104		108		105		101			
CCVL 500-673826/102	22:44	105		110		106		104			

15A-IN
ICP INTERNAL STANDARDS RELATIONS
METALS

Lab Name: Eurofins Chicago Job No.: 500-221506-1
 SDG No.: _____ Analysis Batch No.: 673826
 ICP Instrument ID: ICP6 Start Date: 09/08/2022 End Date: 09/08/2022

Analyte	Wavelength	Internal Standard Used:				
		Element In 230.606	Element Y 224.306	Element Y 360.073	Element Y 371.030	Element
Arsenic	189.042		X			
Barium	455.403				X	
Cadmium	228.802		X			
Chromium	267.716			X		
Lead	220.353	X				
Selenium	196.090		X			
Silver	328.068			X		
<i>Aluminum</i>	308.215				X	
<i>Antimony</i>	206.833		X			
<i>Beryllium</i>	234.861				X	
<i>Bismuth</i>	223.061	X				
<i>Boron</i>	208.959		X			
<i>Calcium</i>	317.933				X	
<i>Cobalt</i>	228.616	X				
<i>Copper</i>	324.754			X		
<i>Iron</i>	271.441				X	
<i>Li</i>	670.784				X	
<i>Magnesium</i>	279.079				X	
<i>Manganese</i>	257.610				X	
<i>Molybdenum</i>	202.030		X			
<i>Nickel</i>	231.604	X				
<i>Potassium</i>	766.490				X	
<i>Silicon</i>	212.412		X			
<i>Sodium</i>	589.592				X	
<i>Strontium</i>	421.552			X		
<i>Thallium</i>	190.856	X				
<i>Tin</i>	189.989	X				
<i>Titanium</i>	334.941			X		
<i>Vanadium</i>	292.402			X		
<i>Zinc</i>	206.200	X				
Internal Standard Name on Instrument		In2306	Y_2243	Y_3600	Y_3710	

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673245 Batch Start Date: 09/06/22 12:10 Batch Analyst: Edwards, Benjamin D

Batch Method: 3050B Batch End Date: 09/06/22 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M22GSPKIC 00001			
MB 500-673245/1		3050B, 6010B		1 g	100 mL				
LCS 500-673245/2		3050B, 6010B		1 g	100 mL	1 mL			
500-221506-D-1	B-1 (6'-8')	3050B, 6010B	T	1.0070 g	100 mL				
500-221506-D-2	B-2 (2'-4')	3050B, 6010B	T	1.0759 g	100 mL				
500-221506-D-3	B-3 (22'-23.5')	3050B, 6010B	T	1.1803 g	100 mL				
500-221506-D-4	B-4 (20'-22')	3050B, 6010B	T	1.0886 g	100 mL				
500-221506-D-5	B-5 (8'-10')	3050B, 6010B	T	1.1002 g	100 mL				
500-221506-D-5 DU	B-5 (8'-10')	3050B, 6010B	T	1.0633 g	100 mL				
500-221506-D-5 MS	B-5 (8'-10')	3050B, 6010B	T	1.0785 g	100 mL	1 mL			
500-221506-D-5 MSD	B-5 (8'-10')	3050B, 6010B	T	1.1756 g	100 mL	1 mL			
500-221506-D-6	B-6 (30'-32')	3050B, 6010B	T	1.1477 g	100 mL				
500-221506-E-8	Dup-1	3050B, 6010B	T	1.0515 g	100 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673245 Batch Start Date: 09/06/22 12:10 Batch Analyst: Edwards, Benjamin D

Batch Method: 3050B Batch End Date: 09/06/22 12:40

Batch Notes	
Balance ID	3234
Digestion Tube/Cup ID	2204135
Pipette/Syringe/Dispenser ID	3192
Hydrochloric Acid ID	220348
Nitric Acid ID	sca2038011
Hydrogen Peroxide ID	22b0861006
Digestion Unit ID	1739
Thermometer ID	202421
Thermometer Location ID	6,3
Temperature - Uncorrected - Start	91 Degrees C
Temperature - Corrected - Start	91 Degrees C
Temperature - Uncorrected - End	91 Degrees C
Temperature - Corrected - End	91 Degrees C
Digestion Start Time	09/06/2022 12:10
Digestion End Time	09/06/2022 12:40
Batch Comment	Snap: 11422004

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673439 Batch Start Date: 09/07/22 14:40 Batch Analyst: Gomez, Martin J

Batch Method: 7471B Batch End Date: 09/07/22 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M21JSTKHG_002 00001	M22GSTKHG_001 00001		
MB 500-673439/12		7471B, 7471B		0.6 g	50 mL				
LCS 500-673439/13		7471B, 7471B		0.6 g	50 mL		0.0001 mL		
500-221506-E-1	B-1 (6'-8')	7471B, 7471B	T	0.6492 g	50 mL				
500-221506-E-2	B-2 (2'-4')	7471B, 7471B	T	0.6436 g	50 mL				
500-221506-E-3	B-3 (22'-23.5')	7471B, 7471B	T	0.6350 g	50 mL				
500-221506-E-4	B-4 (20'-22')	7471B, 7471B	T	0.6947 g	50 mL				
500-221506-E-5	B-5 (8'-10')	7471B, 7471B	T	0.6764 g	50 mL				
500-221506-E-5 DU	B-5 (8'-10')	7471B, 7471B	T	0.6765 g	50 mL				
500-221506-E-5 MS	B-5 (8'-10')	7471B, 7471B	T	0.6745 g	50 mL	0.00005 mL			
500-221506-E-5 MSD	B-5 (8'-10')	7471B, 7471B	T	0.6771 g	50 mL	0.00005 mL			
500-221506-E-6	B-6 (30'-32')	7471B, 7471B	T	0.6542 g	50 mL				
500-221506-E-8	Dup-1	7471B, 7471B	T	0.6268 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Chicago Job No.: 500-221506-1

SDG No.: _____

Batch Number: 673439 Batch Start Date: 09/07/22 14:40 Batch Analyst: Gomez, Martin J

Batch Method: 7471B Batch End Date: 09/07/22 15:10

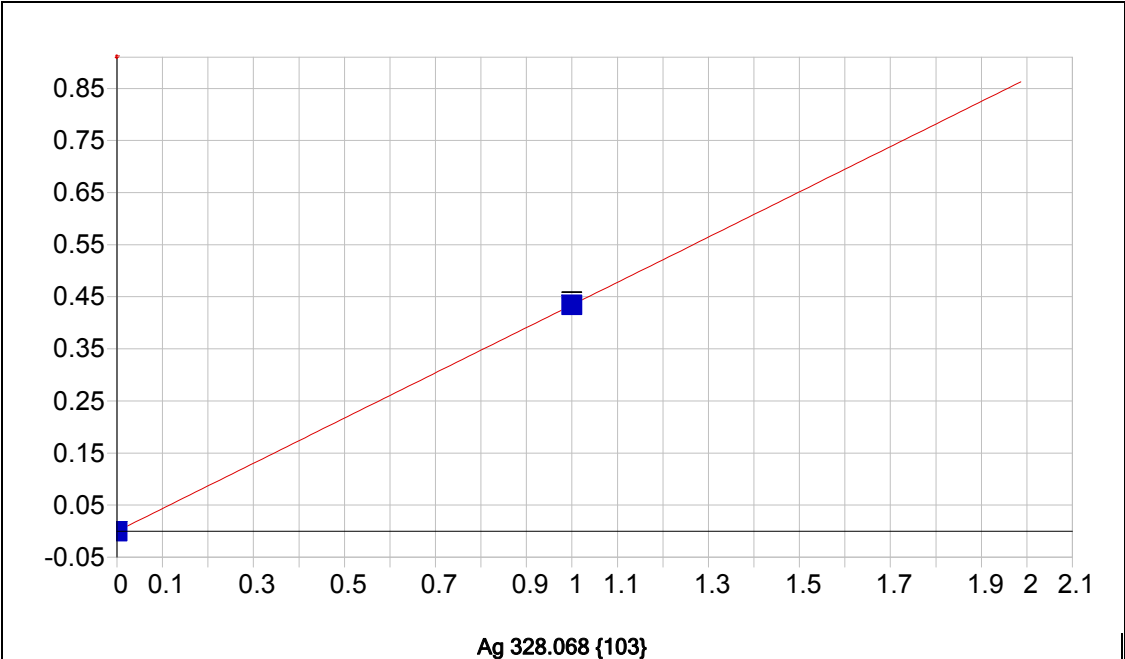
Batch Notes	
Balance ID	3433
Blank Matrix ID	DI Water
Digestion Tube/Cup ID	2106023
Pipette/Syringe/Dispenser ID	1626,1751,3194,1623
Hydrochloric Acid ID	285454
Nitric Acid ID	215106
Potassium Permanganate ID	210839
Digestion Unit ID	C-2486
Thermometer ID	315369
Temperature - Uncorrected - Start	94.0 Degrees C
Temperature - Corrected - Start	93.8 Degrees C
Digestion Start Time	09/07/2022 14:40
Digestion End Time	09/07/2022 15:10
Temperature - Uncorrected - End	94.0 Degrees C
Temperature - Corrected - End	93.8 Degrees C
Hydroxylamine ID	MKCM5014

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table	Fail Action
1	---	---	---	---	Cal	---	---	---	---	---	None
2	1	1	1	1	QC	S1	P6090722A	1	☒	S1	None
3	2	1	2	1	QC	S2		1	☒	S2	None
4	3	1	3	1	QC	ICV		1	☒	ICV	None
5	4	1	4	1	QC	ICB		1	☒	ICB	None
6	5	1	5	1	QC	ICVL		1	☒	CCVLL	None
7	6	1	6	1	QC	CRI		1	☒	CRI	None
8	7	1	7	1	QC	ICSA		1	☒	ICSA	None
9	8	1	8	1	QC	ICSAB		1	☒	ICSAB	None
10	9	1	9	1	QC	CCV		1	☒	CCV	None
11	10	1	10	1	QC	CCB		1	☒	CCB	None
12	111	2	3	5	QC	AI		1	☒	IEC	None
13	112	2	4	5	QC	Fe		1	☒	IEC	None
14	11	1	11	1	QC	ICVL		1	☒	CCVLL	None
15	110	2	2	5	QC	MRL		1	☒	CCVLL	None
16	109	2	1	5	QC	LRC		1	☒	LRC	None
17	12	1	12	1	Unk	lcs 500-672812/2-a		1	☒	RLTABLE	---
18	13	1	1	2	Unk	lcs 500-672817/2-a		1	☒	RLTABLE	---
19	113	2	5	5	QC	CCV		1	☒	CCV	None
20	114	2	6	5	QC	CCB		1	☒	CCB	None
21	115	2	7	5	QC	CCV		1	☒	CCV	None
22	14	1	2	2	Unk	lb 500-672841/1-b		1	☒	RLTABLE	---
23	15	1	3	2	Unk	lcs 500-673058/2-a		1	☒	RLTABLE	---
24	16	1	4	2	Unk	500-221414-f-1-e		1	☒	RLTABLE	---
25	17	1	5	2	Unk	500-221414-f-2-e		1	☒	RLTABLE	---
26	18	1	6	2	Unk	500-221417-f-1-f		1	☒	RLTABLE	---
27	19	1	7	2	Unk	500-221417-f-2-f		1	☒	RLTABLE	---
28	20	1	8	2	Unk	500-221417-f-3-f		1	☒	RLTABLE	---
29	21	1	9	2	Unk	500-221417-f-4-f		1	☒	RLTABLE	---
30	22	1	10	2	QC	CCV		1	☒	CCV	None
31	23	1	11	2	QC	CCB		1	☒	CCB	None
32	24	1	12	2	Unk	500-221417-f-5-f		1	☒	RLTABLE	---
33	25	1	1	3	Unk	500-221417-f-6-f		1	☒	RLTABLE	---
34	26	1	2	3	Unk	mb 500-673049/1-a		1	☒	RLTABLE	---
35	27	1	3	3	Unk	lcs 500-673049/2-a		1	☒	RLTABLE	---
36	28	1	4	3	Unk	500-221520-f-1-a		1	☒	RLTABLE	---
37	29	1	5	3	Unk	500-221520-f-1-aSD@5		1	☒	RLTABLE	---
38	30	1	6	3	Unk	500-221520-f-1-b du		1	☒	RLTABLE	---
39	31	1	7	3	Unk	500-221520-f-1-c ms		1	☒	RLTABLE	---
40	32	1	8	3	Unk	500-221520-f-1-d msd		1	☒	RLTABLE	---
41	33	1	9	3	Unk	500-221520-f-2-a		1	☒	RLTABLE	---
42	34	1	10	3	QC	CCV		1	☒	CCV	None
43	35	1	11	3	QC	CCB		1	☒	CCB	None
44	36	1	12	3	Unk	500-221576-b-1-a		1	☒	RLTABLE	---
45	37	1	1	4	Unk	500-221576-b-2-a		1	☒	RLTABLE	---
46	38	1	2	4	Unk	500-221576-b-3-a		1	☒	RLTABLE	---
47	39	1	3	4	Unk	500-221576-b-4-a		1	☒	RLTABLE	---
48	40	1	4	4	Unk	500-221576-b-5-b@5		1	☒	RLTABLE	---
49	41	1	5	4	Unk	500-221576-b-7-c		1	☒	RLTABLE	---
50	42	1	6	4	Unk	500-221576-d-8-c		1	☒	RLTABLE	---
51	43	1	7	4	Unk	mb 500-673245/1-a		1	☒	RLTABLE	---
52	44	1	8	4	Unk	lcs 500-673245/2-a		1	☒	RLTABLE	---
53	45	1	9	4	Unk	500-221506-d-1-a		1	☒	RLTABLE	---
54	46	1	10	4	QC	CCV		1	☒	CCV	None
55	47	1	11	4	QC	CCB		1	☒	CCB	None
56	48	1	12	4	Unk	500-221506-d-2-a		1	☒	RLTABLE	---
57	49	1	1	5	Unk	500-221506-d-3-a		1	☒	RLTABLE	---
58	50	1	2	5	Unk	500-221506-d-4-a		1	☒	RLTABLE	---
59	51	1	3	5	Unk	500-221506-d-5-a		1	☒	RLTABLE	---
60	52	1	4	5	Unk	500-221506-d-5-aSD@		1	☒	RLTABLE	---
61	53	1	5	5	Unk	500-221506-d-5-b du		1	☒	RLTABLE	---
62	54	1	6	5	Unk	500-221506-d-5-c ms		1	☒	RLTABLE	---
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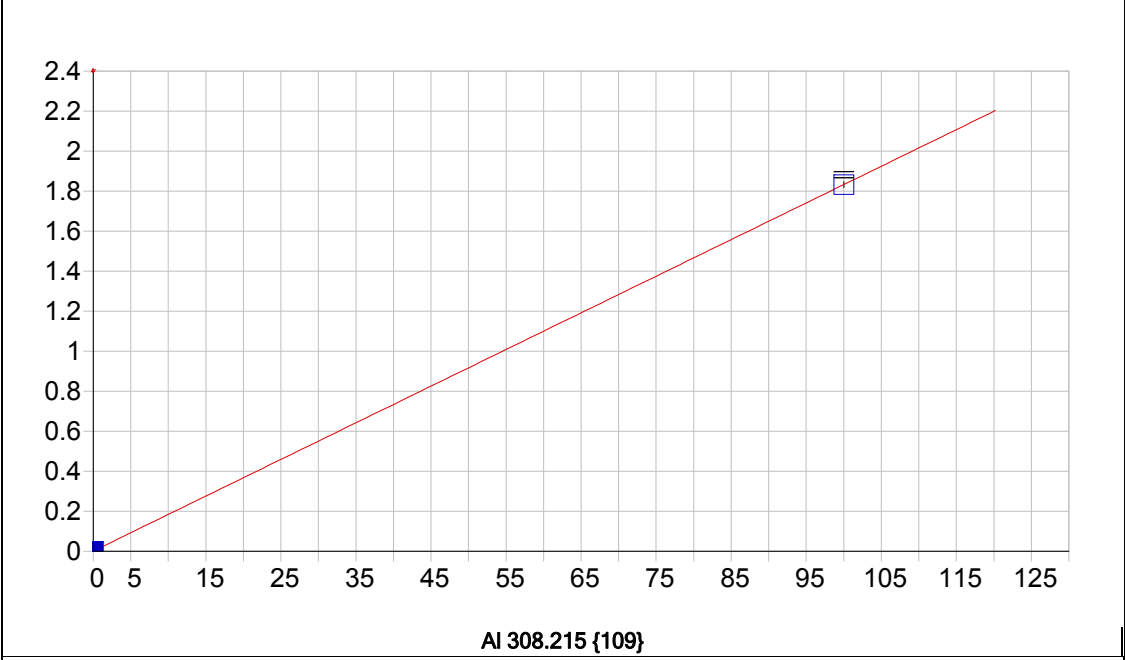
	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table	Fail Action
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65	57	1	9	5	Unk	500-221506-e-8-a		1	☒	RLTABLE	---
66	58	1	10	5	QC	CCV		1	☒	CCV	None
67	59	1	11	5	QC	CCB		1	☒	CCB	None
68	60	1	12	5	Unk	500-221453-f-1-i		1	☒	RLTABLE	---
69	61	2	1	1	Unk	500-221453-f-2-e		1	☒	RLTABLE	---
70	62	2	2	1	Unk	500-221453-f-3-e		1	☒	RLTABLE	---
71	63	2	3	1	Unk	500-221453-f-4-e		1	☒	RLTABLE	---
72	64	2	4	1	Unk	500-221577-d-1-g		1	☒	RLTABLE	---
73	65	2	5	1	Unk	500-221514-a-4-c		1	☒	RLTABLE	---
74	66	2	6	1	Unk	500-221514-a-5-c		1	☒	RLTABLE	---
75	67	2	7	1	Unk	500-221514-a-6-c		1	☒	RLTABLE	---
76	68	2	8	1	Unk	500-221514-a-7-c		1	☒	RLTABLE	---
77	69	2	9	1	Unk	500-221514-a-8-c		1	☒	RLTABLE	---
78	70	2	10	1	QC	CCV		1	☒	CCV	None
79	71	2	11	1	QC	CCB		1	☒	CCB	None
80	72	2	12	1	Unk	500-221514-a-9-c		1	☒	RLTABLE	---
81	73	2	1	2	Unk	mb 500-672912/1-a		1	☒	RLTABLE	---
82	74	2	2	2	Unk	lcs 500-672912/2-a		1	☒	RLTABLE	---
83	75	2	3	2	Unk	500-221479-e-1-a		1	☒	RLTABLE	---
84	76	2	4	2	Unk	500-221479-e-1-aSD@		1	☒	RLTABLE	---
85	77	2	5	2	Unk	500-221479-e-1-b du		1	☒	RLTABLE	---
86	78	2	6	2	Unk	500-221479-e-1-c ms		1	☒	RLTABLE	---
87	79	2	7	2	Unk	500-221479-e-1-d msd		1	☒	RLTABLE	---
88	80	2	8	2	Unk	500-221479-e-2-a		1	☒	RLTABLE	---
89	81	2	9	2	Unk	500-221479-e-3-a		1	☒	RLTABLE	---
90	82	2	10	2	QC	CCV		1	☒	CCV	None
91	83	2	11	2	QC	CCB		1	☒	CCB	None
92	84	2	12	2	Unk	500-221479-e-4-a		1	☒	RLTABLE	---
93	85	2	1	3	Unk	500-221479-e-5-a		1	☒	RLTABLE	---
94	86	2	2	3	Unk	500-221479-e-6-a		1	☒	RLTABLE	---
95	87	2	3	3	Unk	500-221479-e-7-a		1	☒	RLTABLE	---
96	88	2	4	3	Unk	500-221479-e-8-a		1	☒	RLTABLE	---
97	89	2	5	3	Unk	500-221479-e-9-a		1	☒	RLTABLE	---
98	90	2	6	3	Unk	500-221479-e-10-a		1	☒	RLTABLE	---
99	91	2	7	3	Unk	500-221479-e-11-a		1	☒	RLTABLE	---
100	92	2	8	3	Unk	500-221479-e-12-a		1	☒	RLTABLE	---
101	93	2	9	3	Unk	500-221479-e-13-a		1	☒	RLTABLE	---
102	94	2	10	3	QC	CCV		1	☒	CCV	None
103	95	2	11	3	QC	CCB		1	☒	CCB	None
104	96	2	12	3	Unk	500-221550-f-1-a		1	☒	RLTABLE	---
105	97	2	1	4	Unk	500-221550-f-2-a		1	☒	RLTABLE	---
106	98	2	2	4	Unk	500-221550-f-3-a		1	☒	RLTABLE	---
107	99	2	3	4	Unk	500-221550-f-4-a		1	☒	RLTABLE	---
108	106	2	10	4	QC	CCV		1	☒	CCV	None
109	107	2	11	4	QC	CCB		1	☒	CCB	None
110	108	2	12	4	QC	CCVL		1	☒	CCVLL	None



Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000028 Re-Slope: 1.000000
 A1 (Gain): 0.434277 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000810
 Predicted MQL: 0.002700

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
S1	1.0000	1.00000	.000	.000	.43442	.006	1

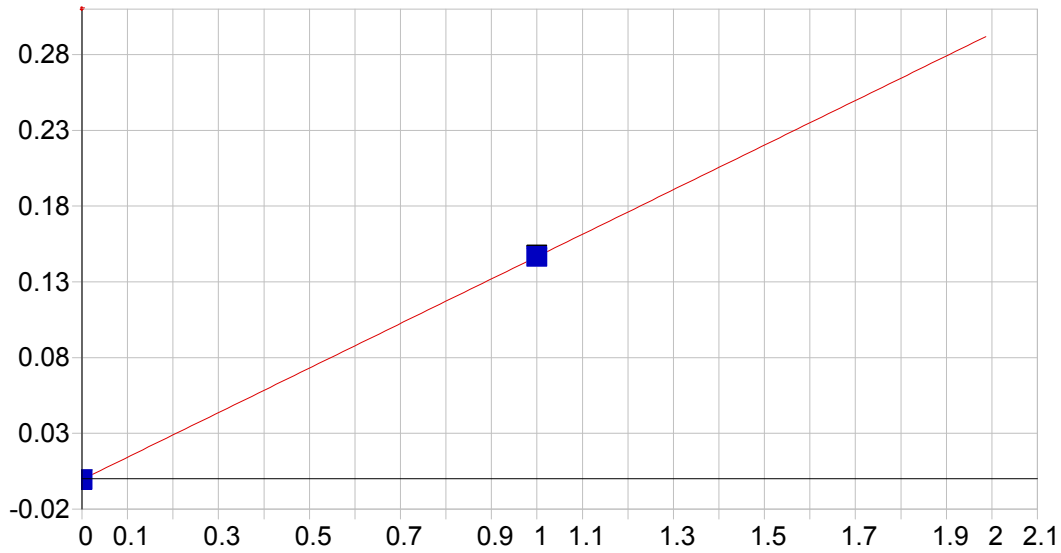


Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001243 Re-Slope: 1.000000
 A1 (Gain): 0.018315 Y-int: 0.000000
 A2 (Curvature): 0.000000

n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.015056
 Predicted MQL: 0.050186

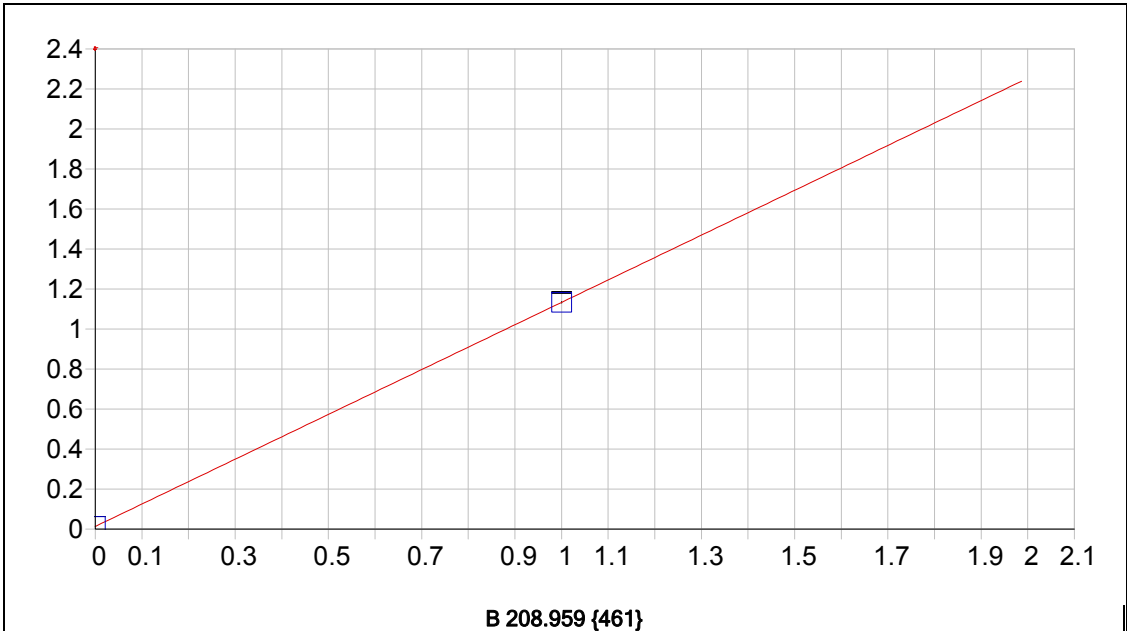
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00124	.000	1
S2	100.00	100.00	.000	.000	1.8327	.015	1



As 189.042 {478}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000488 Re-Slope: 1.000000
 A1 (Gain): 0.147158 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002252
 Predicted MQL: 0.007506

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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S1	1.0000	1.0000	.000	.000	.14664	.001	1

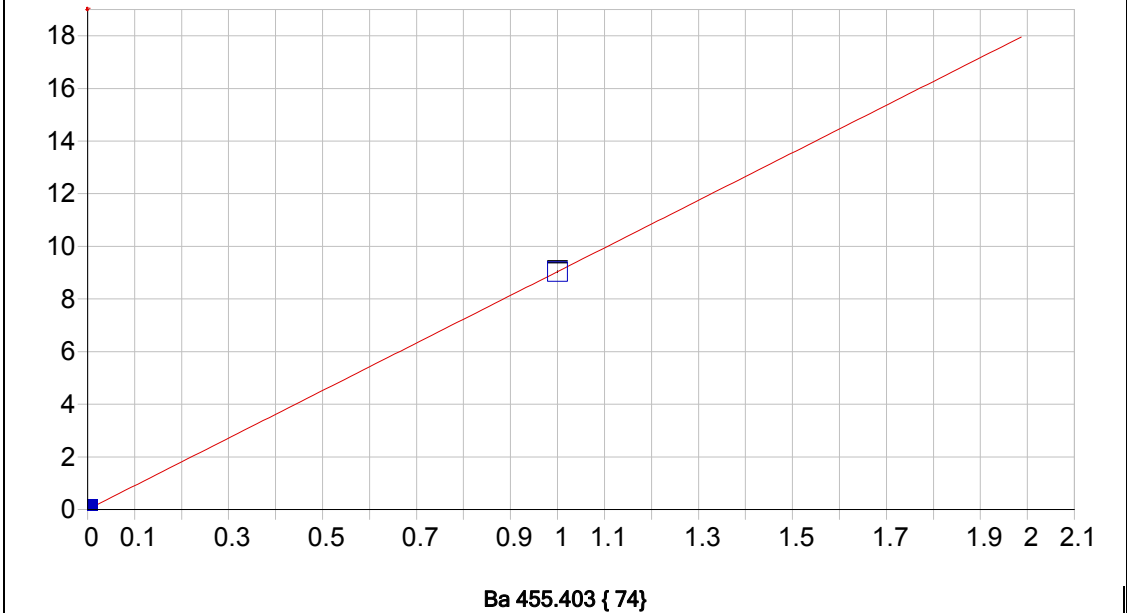


Ba 208.959 {461}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.013425 Re-Slope: 1.000000
 A1 (Gain): 1.120106 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000297
 Predicted MQL: 0.000990

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01343	.000	1
S1	1.0000	1.0000	.000	.000	1.1335	.004	1



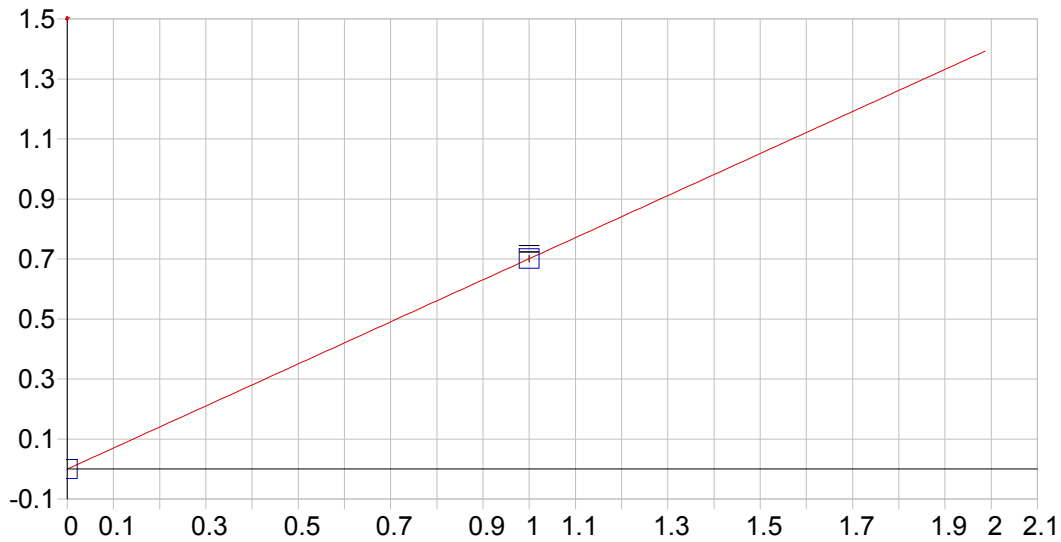
Ba 455.403 {74}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002092 Re-Slope: 1.000000
 A1 (Gain): 9.036640 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000079
 Predicted MQL: 0.000262

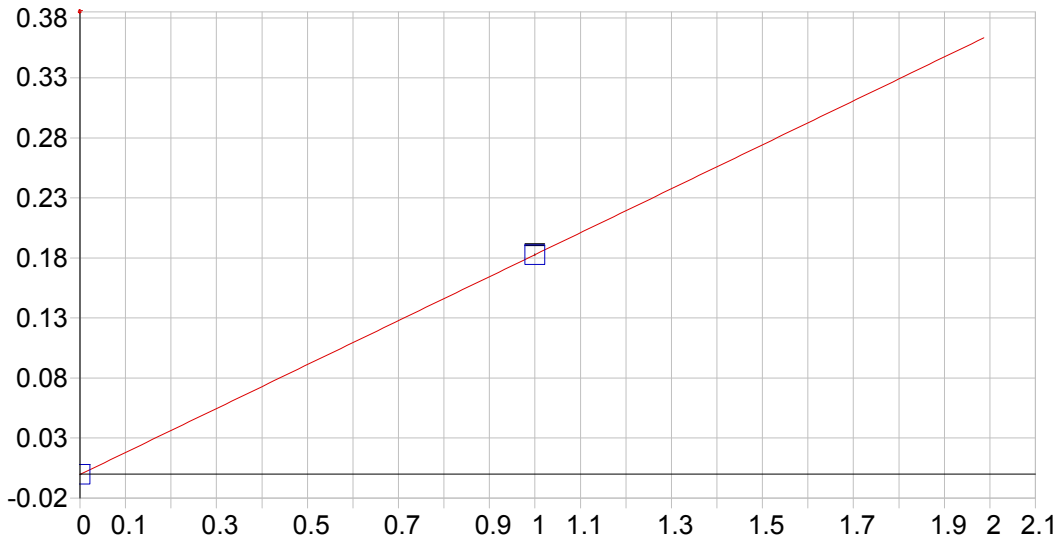
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00209	.000	1
S1	1.0000	1.0000	.000	.000	9.0387	.036	1



Be 234.861 {143}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000142 Re-Slope: 1.000000
 A1 (Gain): 0.700973 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000271
 Predicted MQL: 0.000902

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00014	.000	1
S1	1.0000	1.0000	.000	.000	.70083	.010	1

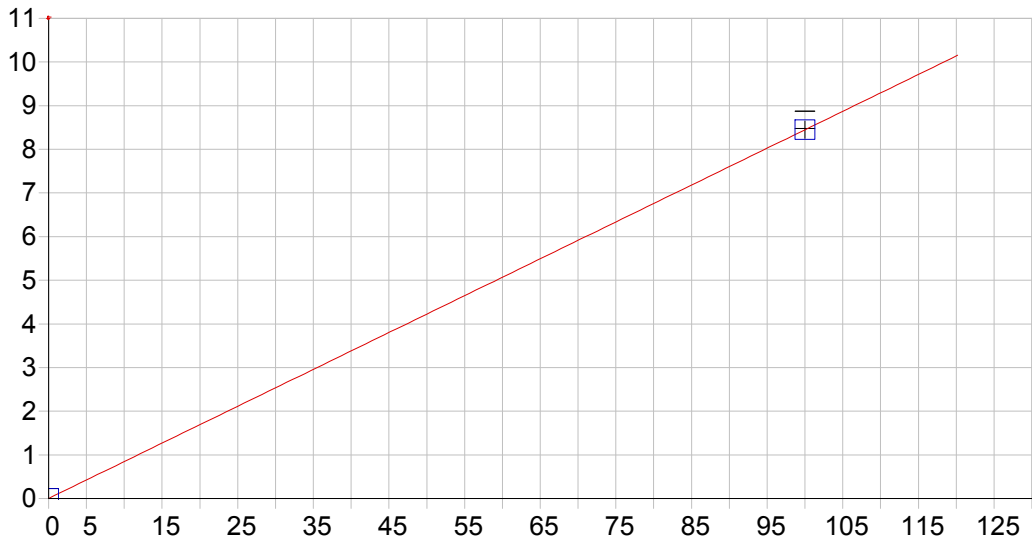


Bi 223.061 {451}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000323 Re-Slope: 1.000000
 A1 (Gain): 0.183053 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001368
 Predicted MQL: 0.004559

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00032	.000	1
S1	1.0000	1.0000	.000	.000	.18273	.001	1



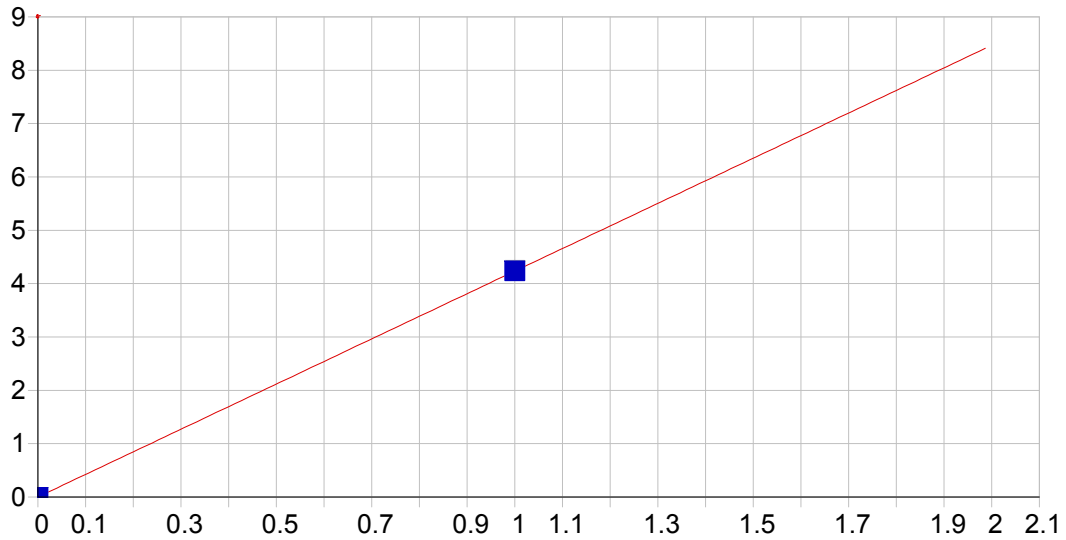
Ca 317.933 {106}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002051 Re-Slope: 1.000000
 A1 (Gain): 0.084458 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.003032
 Predicted MQL: 0.010107

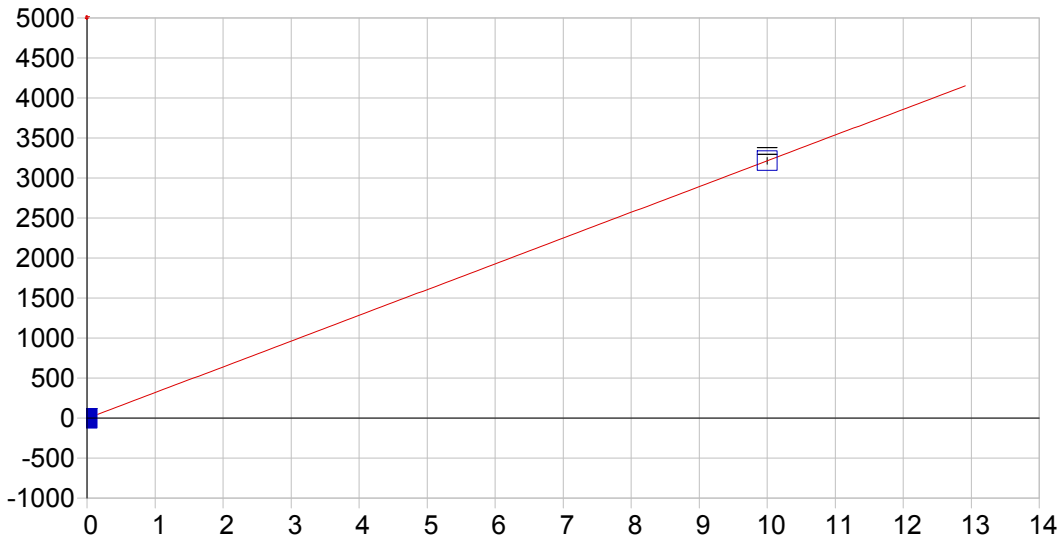
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00205	.000	1
S2	100.00	100.00	.000	.000	8.4478	.197	1



Cd 228.802 {447}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000888 Re-Slope: 1.000000
 A1 (Gain): 4.233463 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000137
 Predicted MQL: 0.000457

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00089	.000	1
S1	1.0000	1.0000	.000	.000	4.2436	.007	1

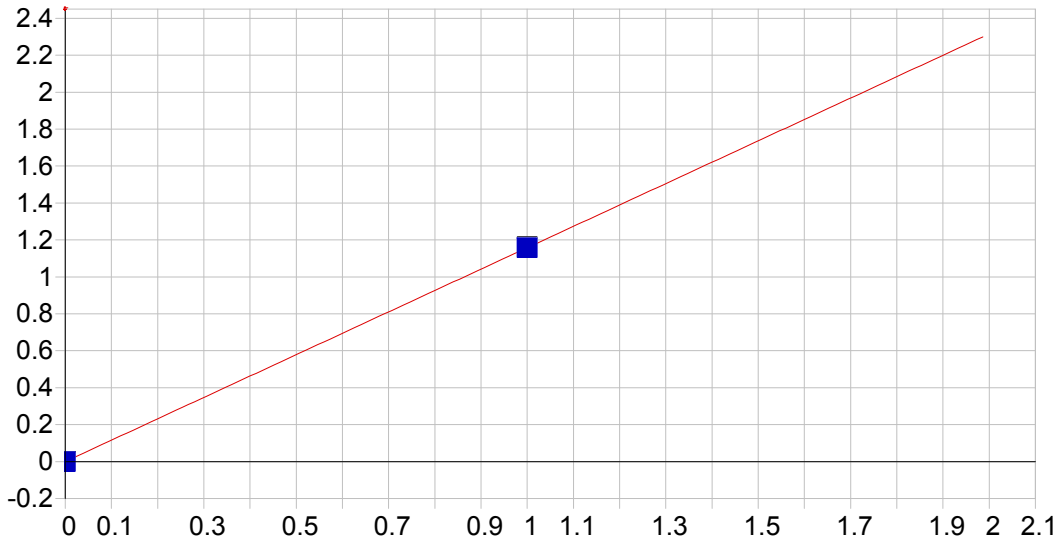


Ce 404.076 { 83}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -3.973817 Re-Slope: 1.000000
 A1 (Gain): 321.840911 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.012966
 Predicted MQL: 0.043219

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-3.9738	1.30	1
CE	10.000	10.000	.000	.000	3214.4	40.7	1



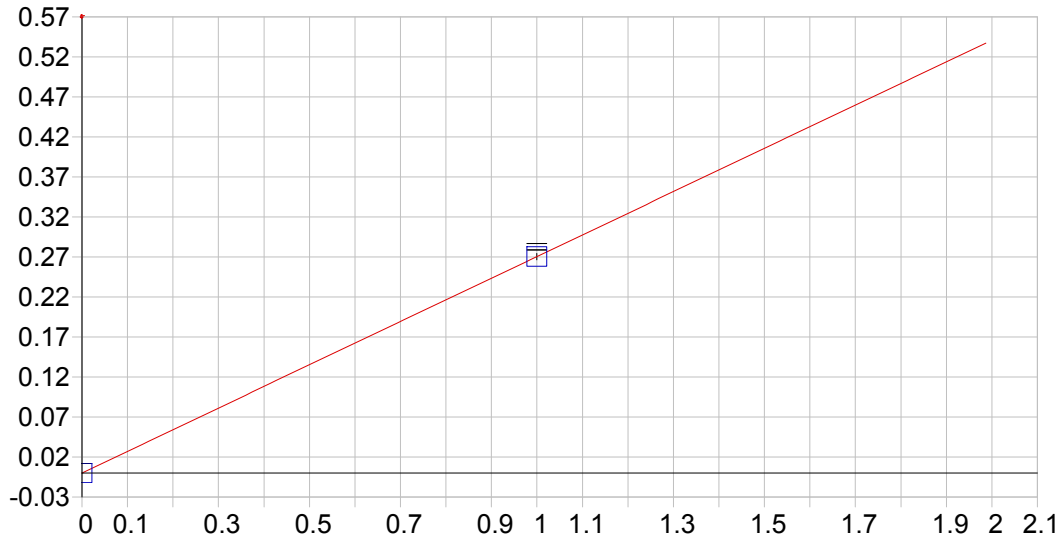
Co 228.616 {447}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000025 Re-Slope: 1.000000
 A1 (Gain): 1.157755 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000239
 Predicted MQL: 0.000798

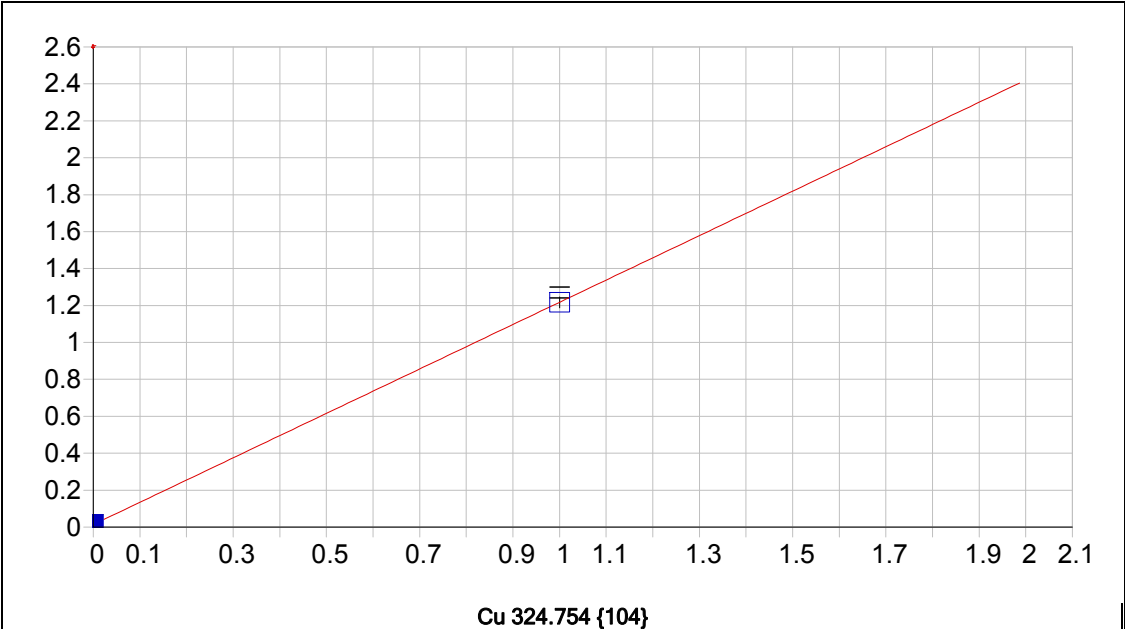
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
S1	1.0000	1.00000	.000	.000	1.1603	.003	1



Cr 267.716 (126)

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000032 Re-Slope: 1.000000
 A1 (Gain): 0.270456 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000966
 Predicted MQL: 0.003220

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
S1	1.0000	1.0000	.000	.000	.27049	.004	1

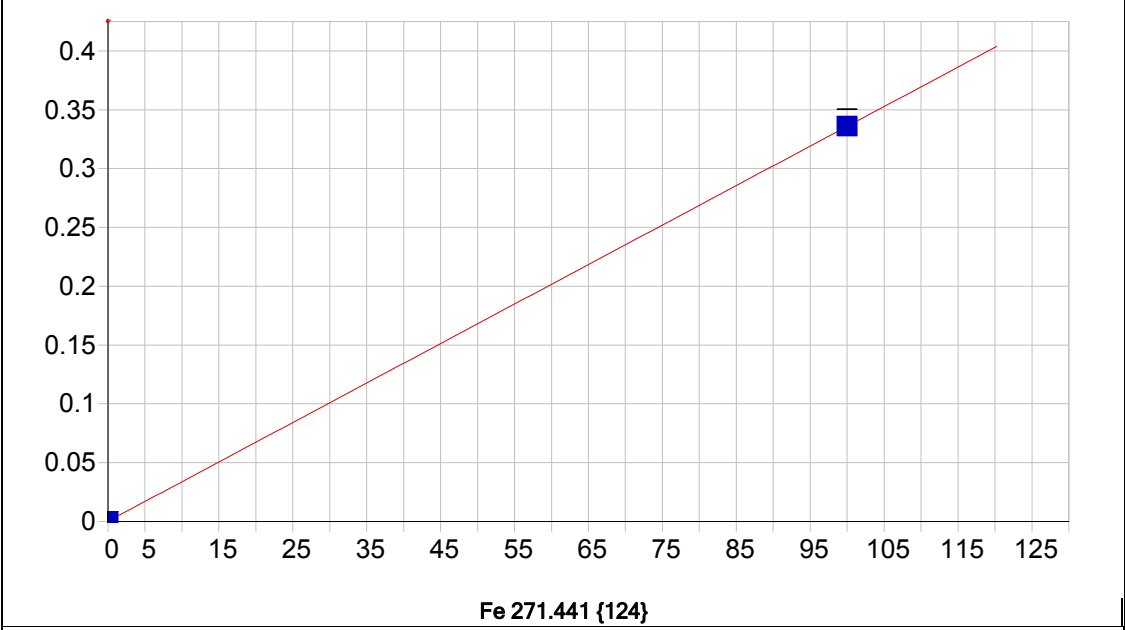


Cu 324.754 {104}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.014025 Re-Slope: 1.000000
 A1 (Gain): 1.203361 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000308
 Predicted MQL: 0.001027

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01402	.000	1
S1	1.0000	1.0000	.000	.000	1.2174	.029	1



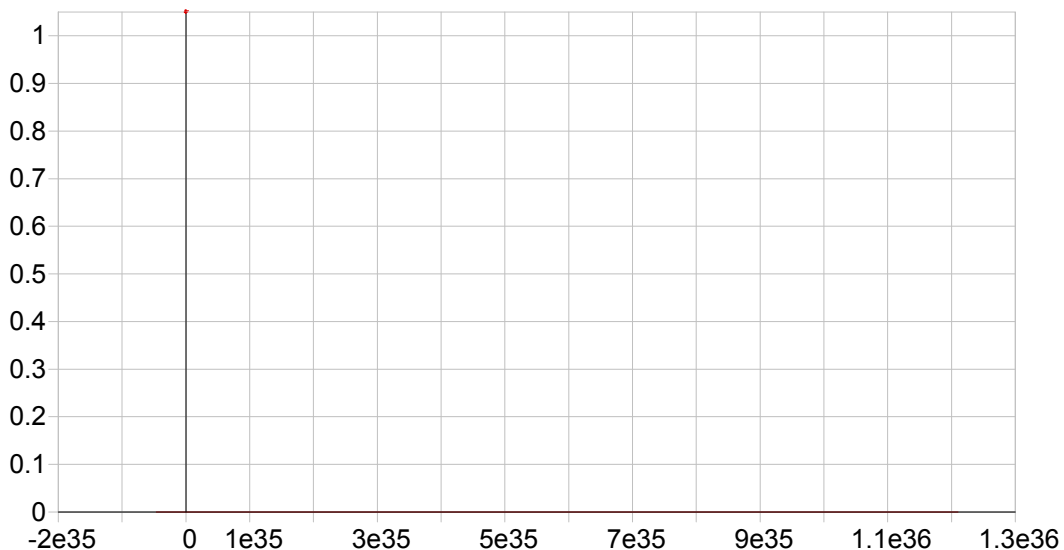
Fe 271.441 {124}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000243 Re-Slope: 1.000000
 A1 (Gain): 0.003357 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.060691
 Predicted MQL: 0.202305

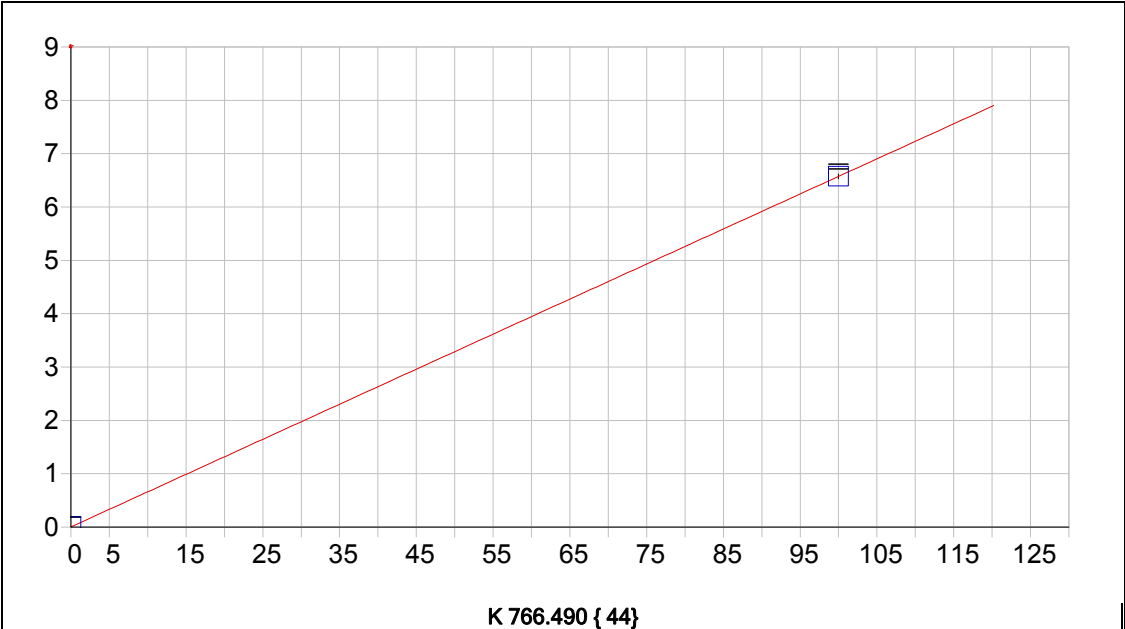
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00024	.000	1
S2	100.00	100.00	.000	.000	.33594	.006	1



In 230.606 {446}*

Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

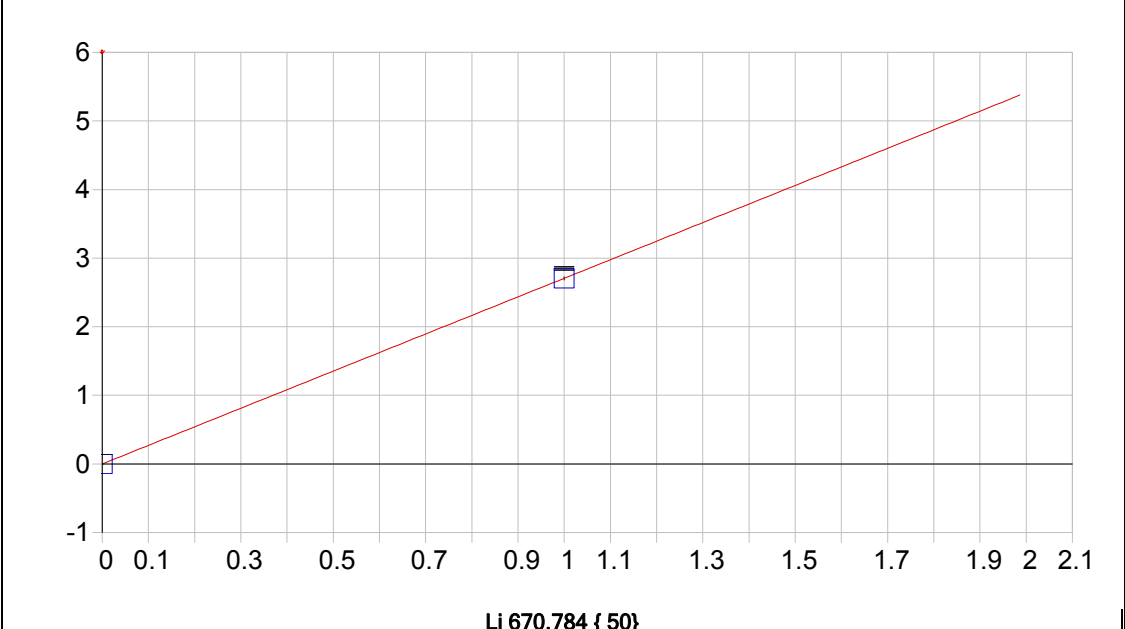
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003801 Re-Slope: 1.000000
 A1 (Gain): 0.065701 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.015566
 Predicted MQL: 0.051888

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
S2	100.00	100.00	.000	.000	6.5739	.046	1

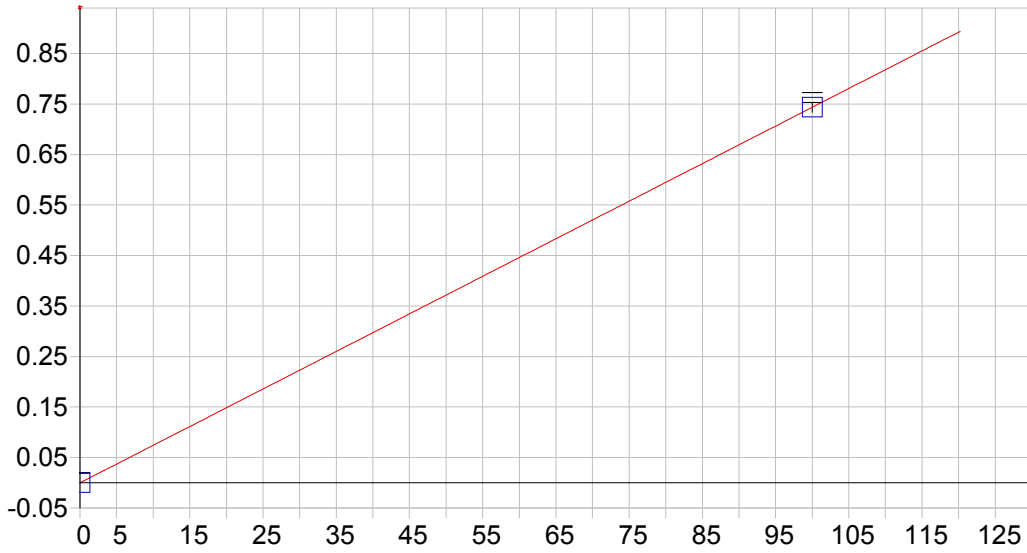


Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000383 Re-Slope: 1.000000
 A1 (Gain): 2.706743 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000363
 Predicted MQL: 0.001208

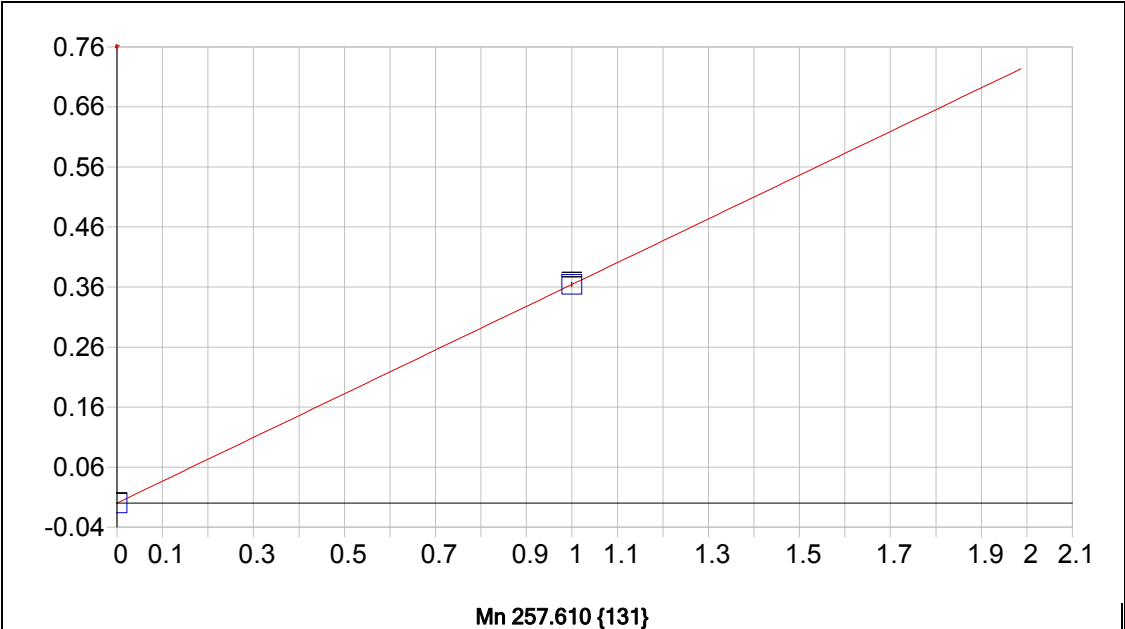
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00038	.001	1
S1	1.0000	1.0000	.000	.000	2.7064	.024	1



Mg 279.079 {121}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): -0.000152 Re-Slope: 1.000000
 A1 (Gain): 0.007437 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.021177
 Predicted MQL: 0.070591

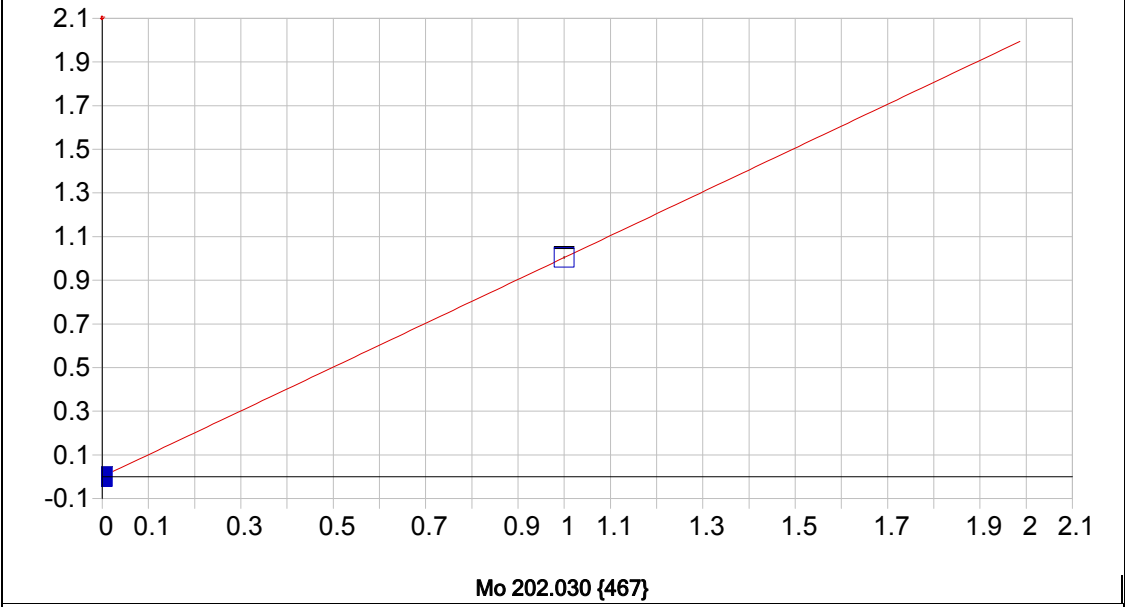
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00015	.000	1
S2	100.00	100.00	.000	.000	.74350	.010	1



Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000155 Re-Slope: 1.000000
 A1 (Gain): 0.364096 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000462
 Predicted MQL: 0.001540

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
S1	1.0000	1.0000	.000	.000	.36425	.004	1

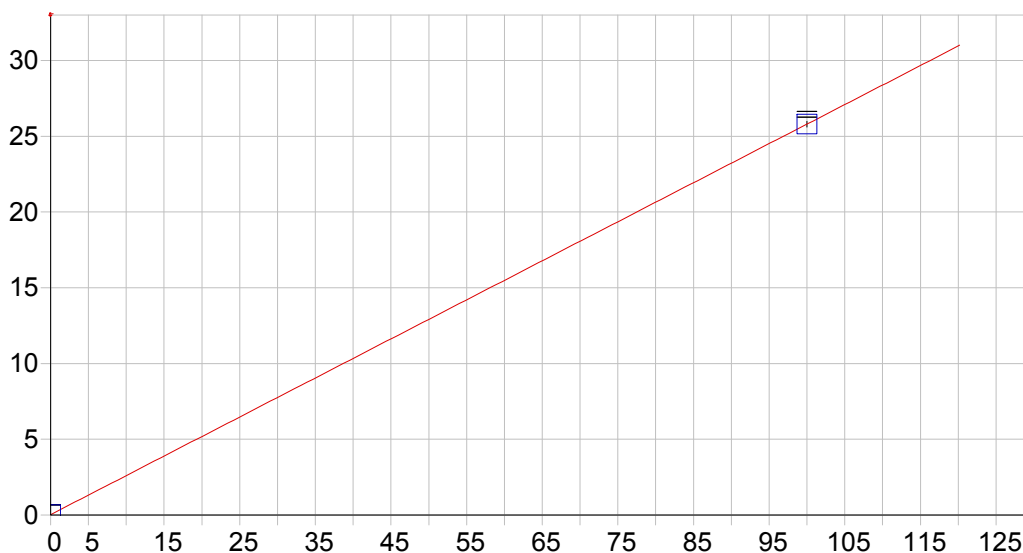


Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000254 Re-Slope: 1.000000
 A1 (Gain): 1.003673 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000352
 Predicted MQL: 0.001174

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00025	.000	1
S1	1.0000	1.0000	.000	.000	1.0039	.004	1

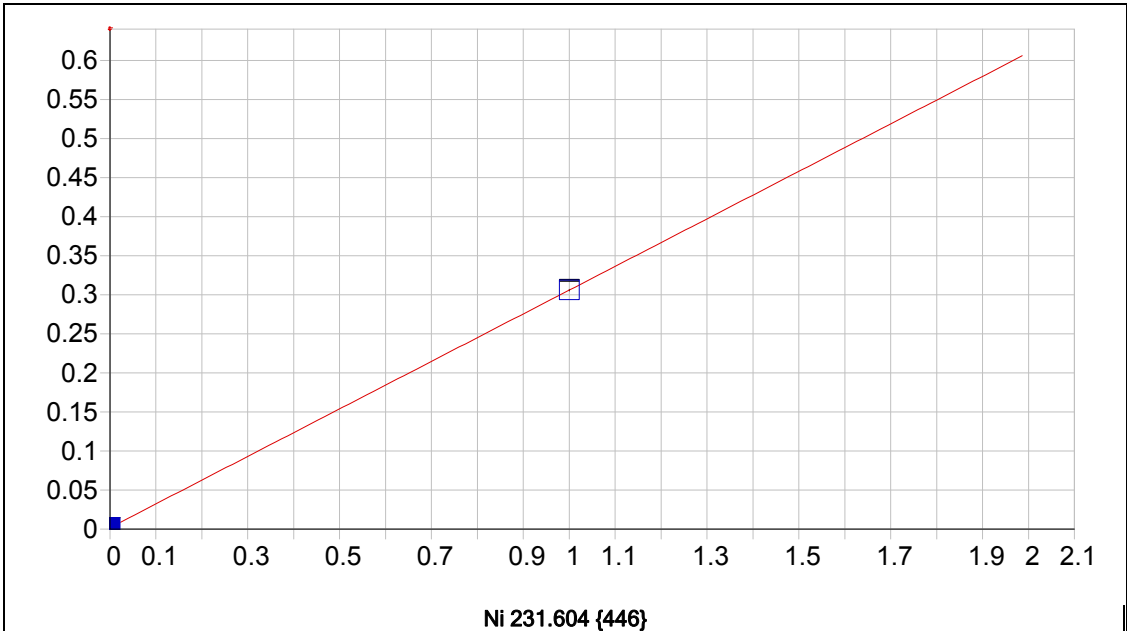


Na 589.592 { 57 }

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.025811 Re-Slope: 1.000000
 A1 (Gain): 0.257749 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.003622
 Predicted MQL: 0.012074

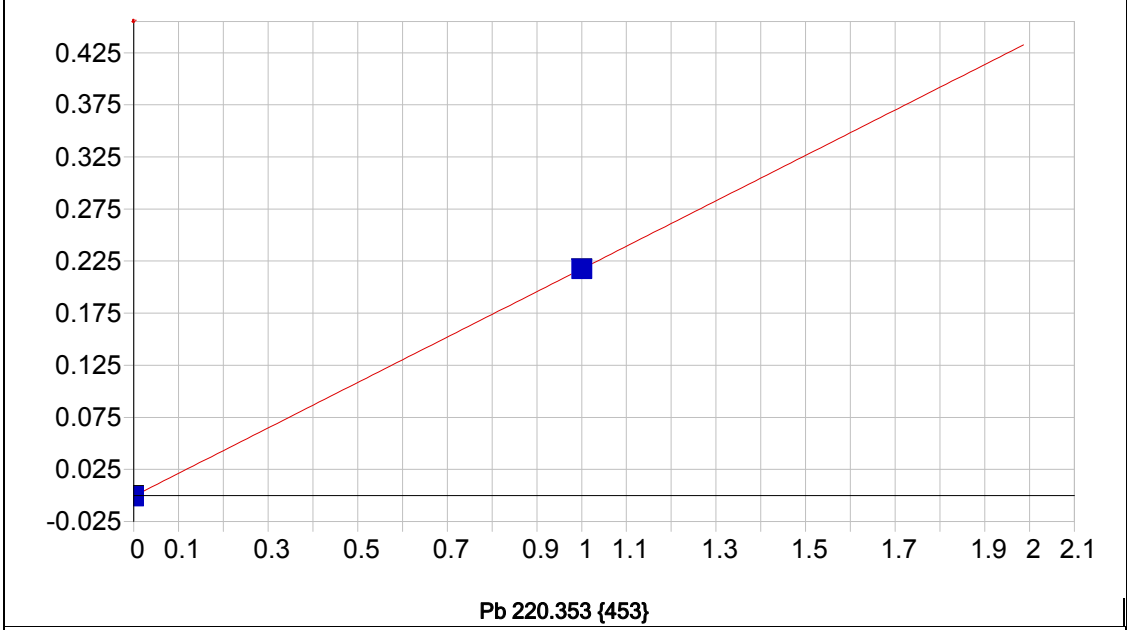
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.02581	.002	1
S2	100.00	100.00	.000	.000	25.801	.195	1



Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001880 Re-Slope: 1.000000
 A1 (Gain): 0.304022 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000682
 Predicted MQL: 0.002275

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00188	.000	1
S1	1.0000	1.0000	.000	.000	.30590	.001	1

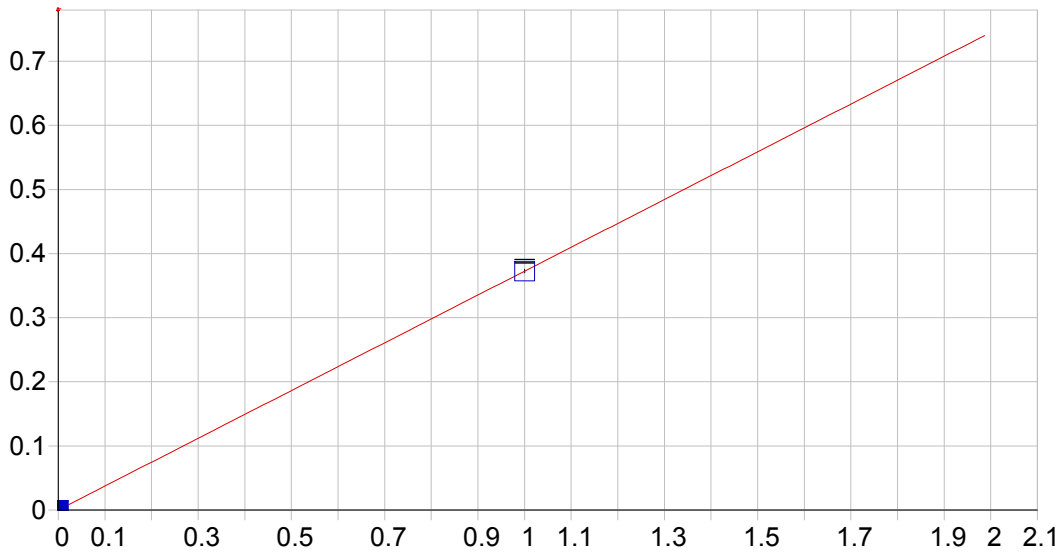


Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000588 Re-Slope: 1.000000
 A1 (Gain): 0.218047 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001278
 Predicted MQL: 0.004259

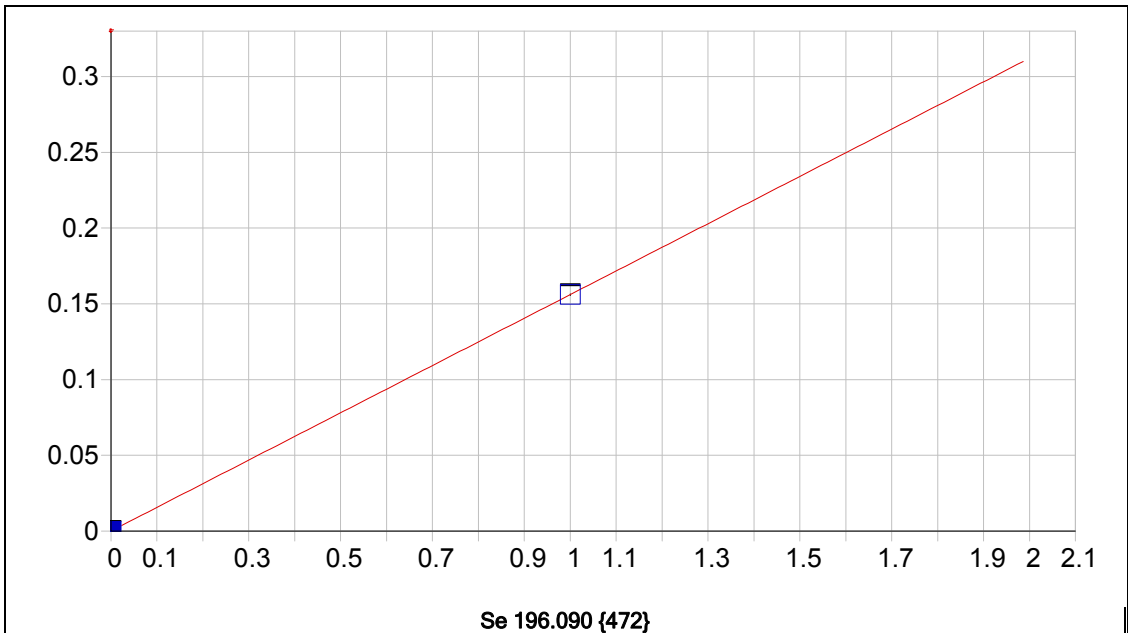
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00059	.000	1
S1	1.0000	1.00000	.000	.000	.21741	.000	1



Sb 206.833 {463}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000146 Re-Slope: 1.000000
 A1 (Gain): 0.372499 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001294
 Predicted MQL: 0.004314

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
S1	1.0000	1.0000	.000	.000	.37265	.003	1

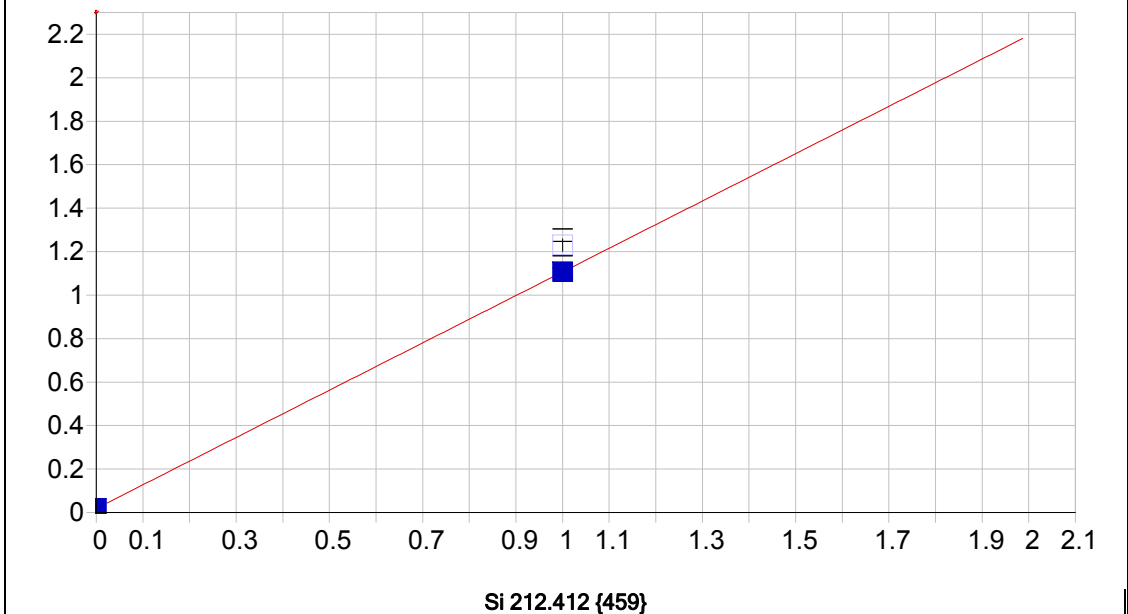


Se 196.090 {472}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000083 Re-Slope: 1.000000
 A1 (Gain): 0.156011 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.002334
 Predicted MQL: 0.007778

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
S1	1.0000	1.0000	.000	.000	.15609	.001	1



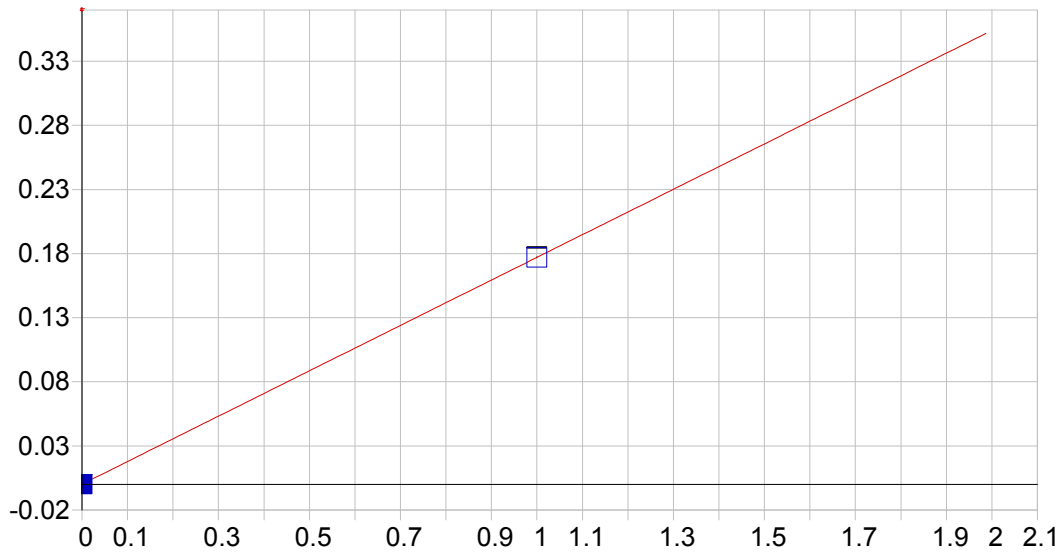
Si 212.412 {459}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.018677 Re-Slope: 1.000000
 A1 (Gain): 1.088032 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000270
 Predicted MQL: 0.000899

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01868	.001	1
S1	1.0000	1.0000	.000	.000	1.2305	.029	1

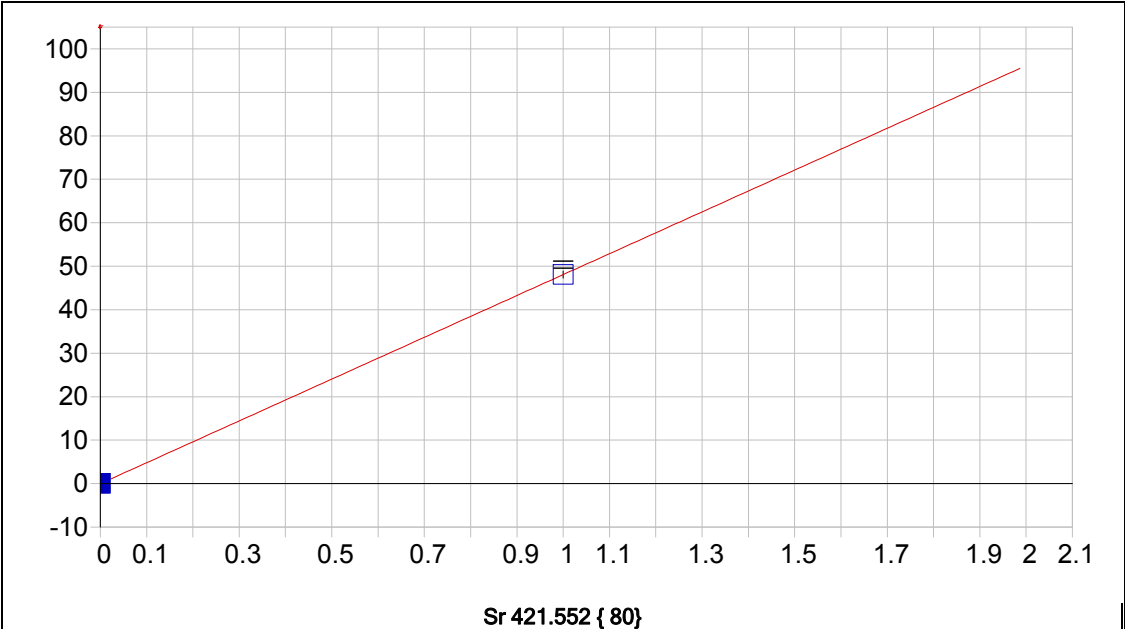


Sn 189.989 {477}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000133 Re-Slope: 1.000000
 A1 (Gain): 0.176961 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001194
 Predicted MQL: 0.003979

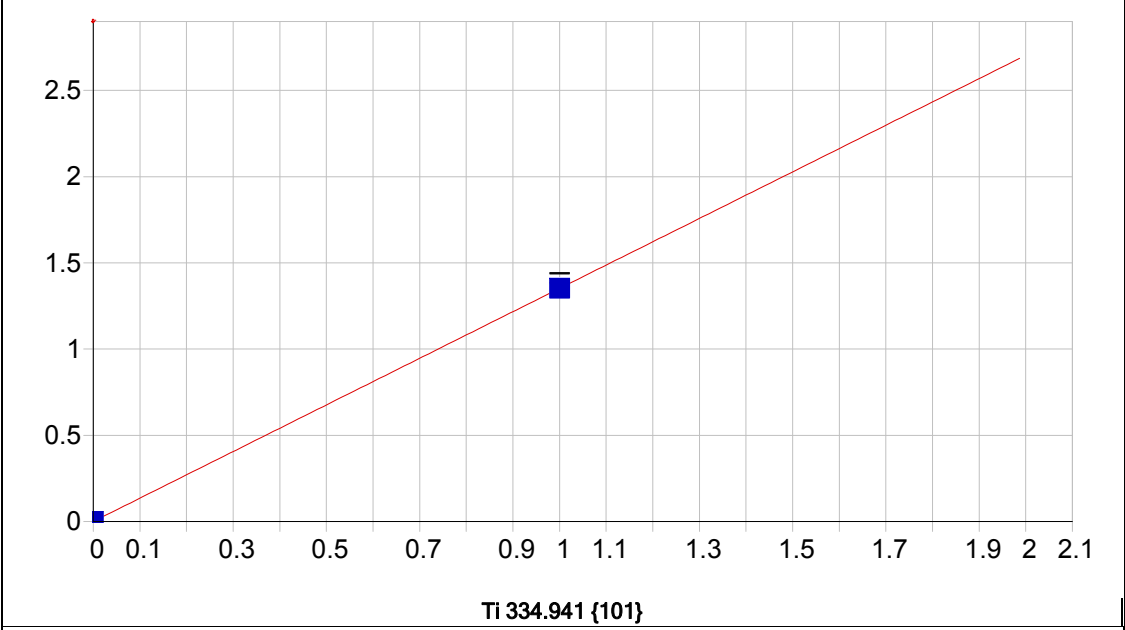
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00013	.000	1
S1	1.0000	1.0000	.000	.000	.17709	.000	1



Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000099 Re-Slope: 1.000000
 A1 (Gain): 48.075626 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000011
 Predicted MQL: 0.000036

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00010	.001	1
S1	1.0000	1.0000	.000	.000	48.076	.799	1

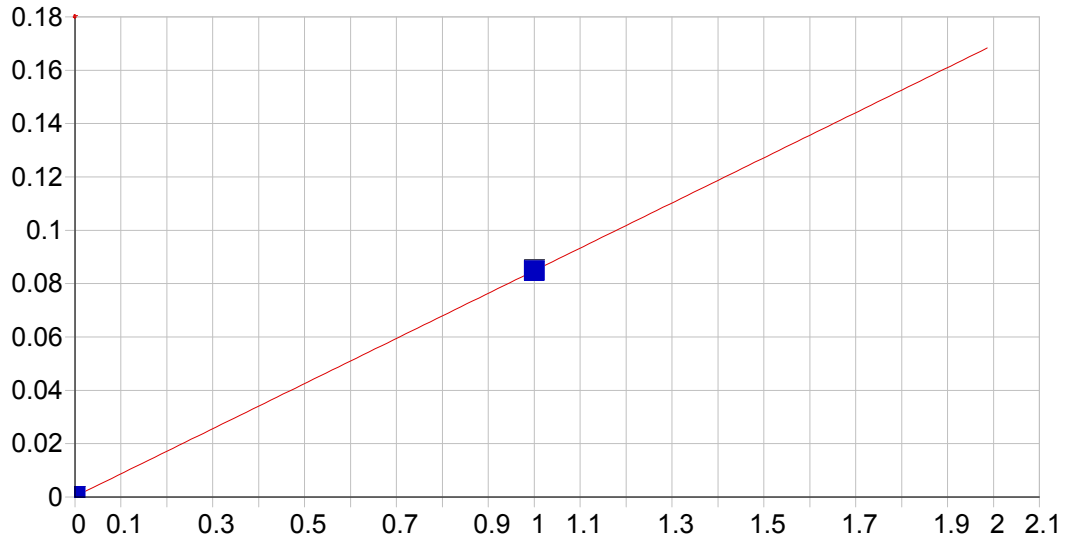


Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000380 Re-Slope: 1.000000
 A1 (Gain): 1.351758 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000186
 Predicted MQL: 0.000620

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00038	.000	1
S1	1.0000	1.0000	.000	.000	1.3568	.027	1

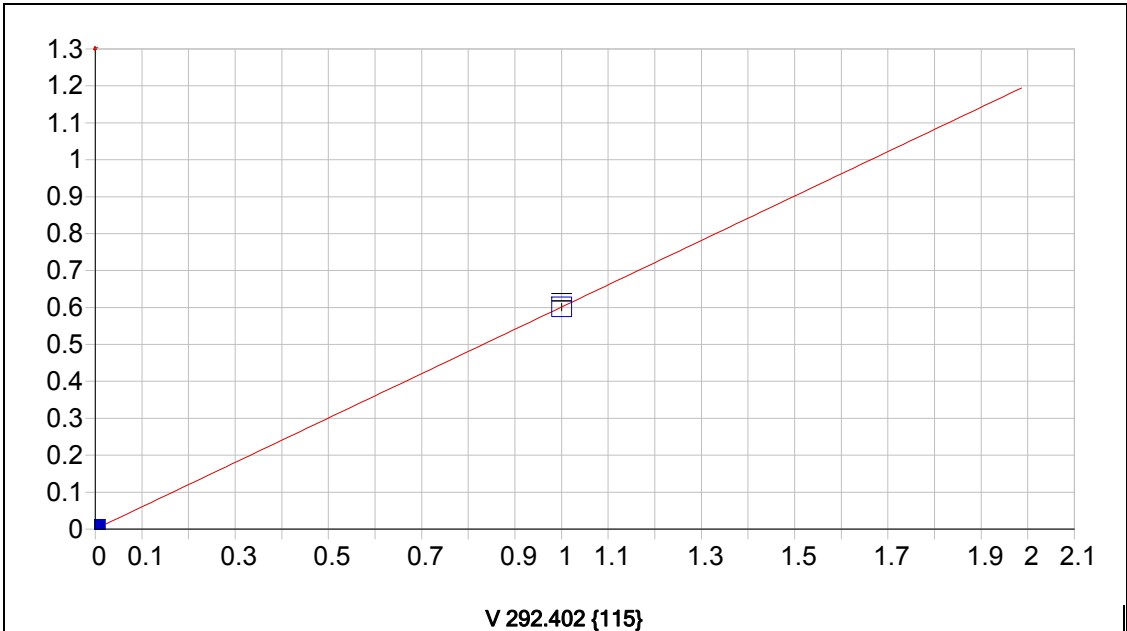


TI 190.856 {477}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000239 Re-Slope: 1.000000
 A1 (Gain): 0.084613 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.001702
 Predicted MQL: 0.005673

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00024	.000	1
S1	1.0000	1.0000	.000	.000	.08506	.000	1

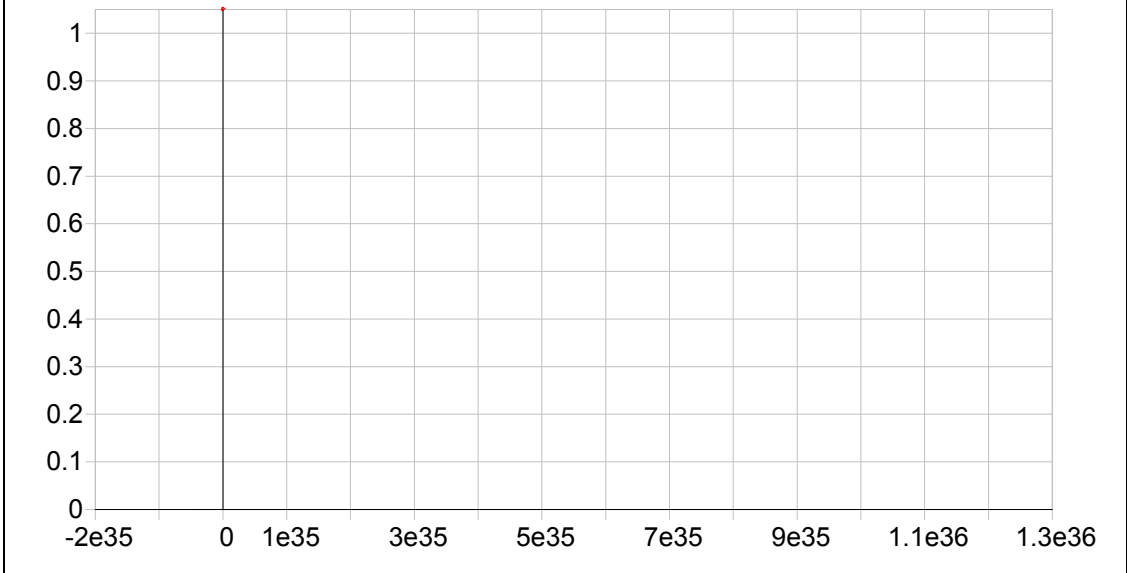


V 292.402 {115}

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000102 Re-Slope: 1.000000
 A1 (Gain): 0.601090 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000000
 Predicted MDL: 0.000578
 Predicted MQL: 0.001925

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00010	.000	1
S1	1.0000	1.0000	.000	.000	.60119	.010	1



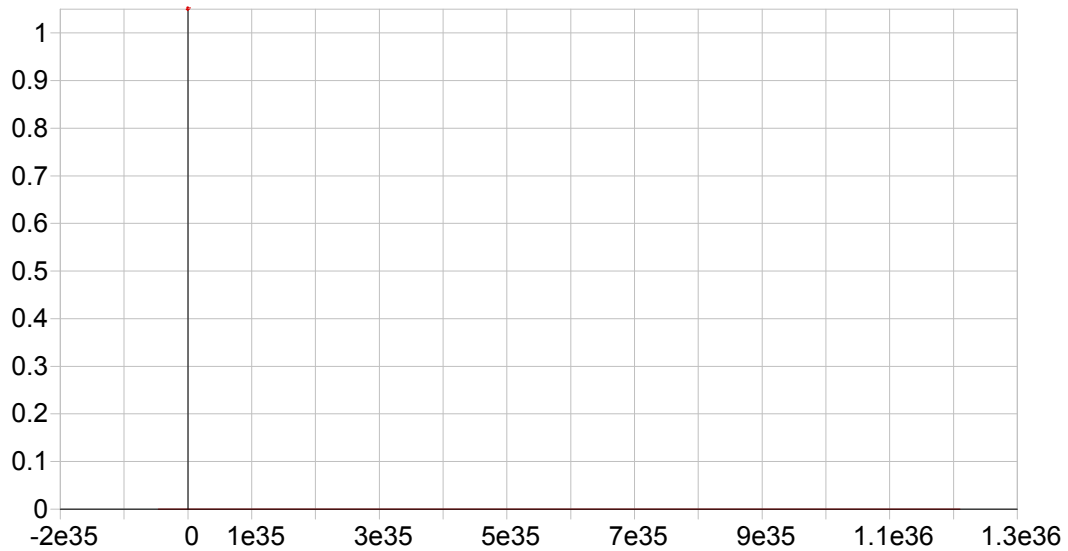
Y 224.306 {450}*

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000

Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

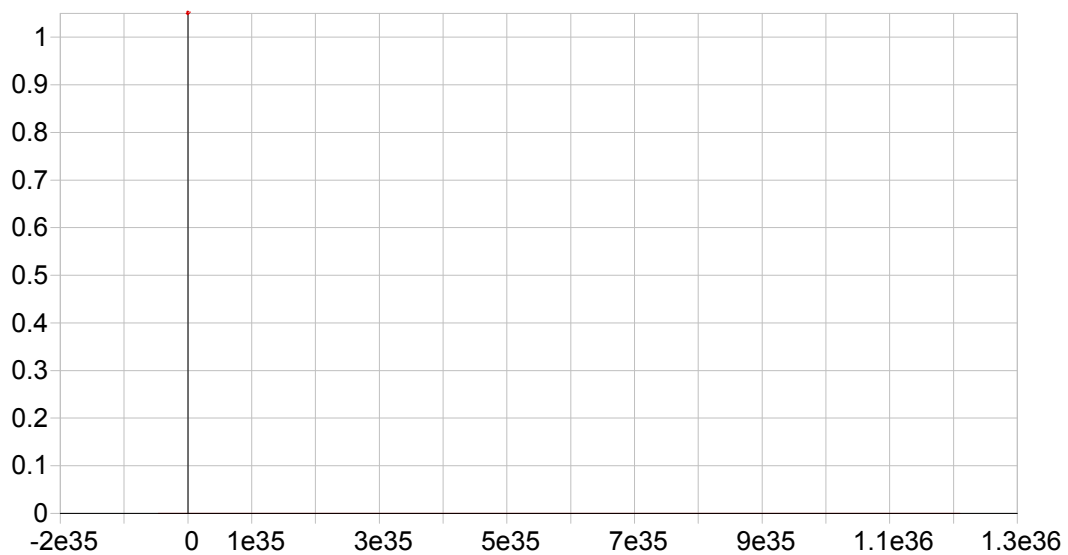
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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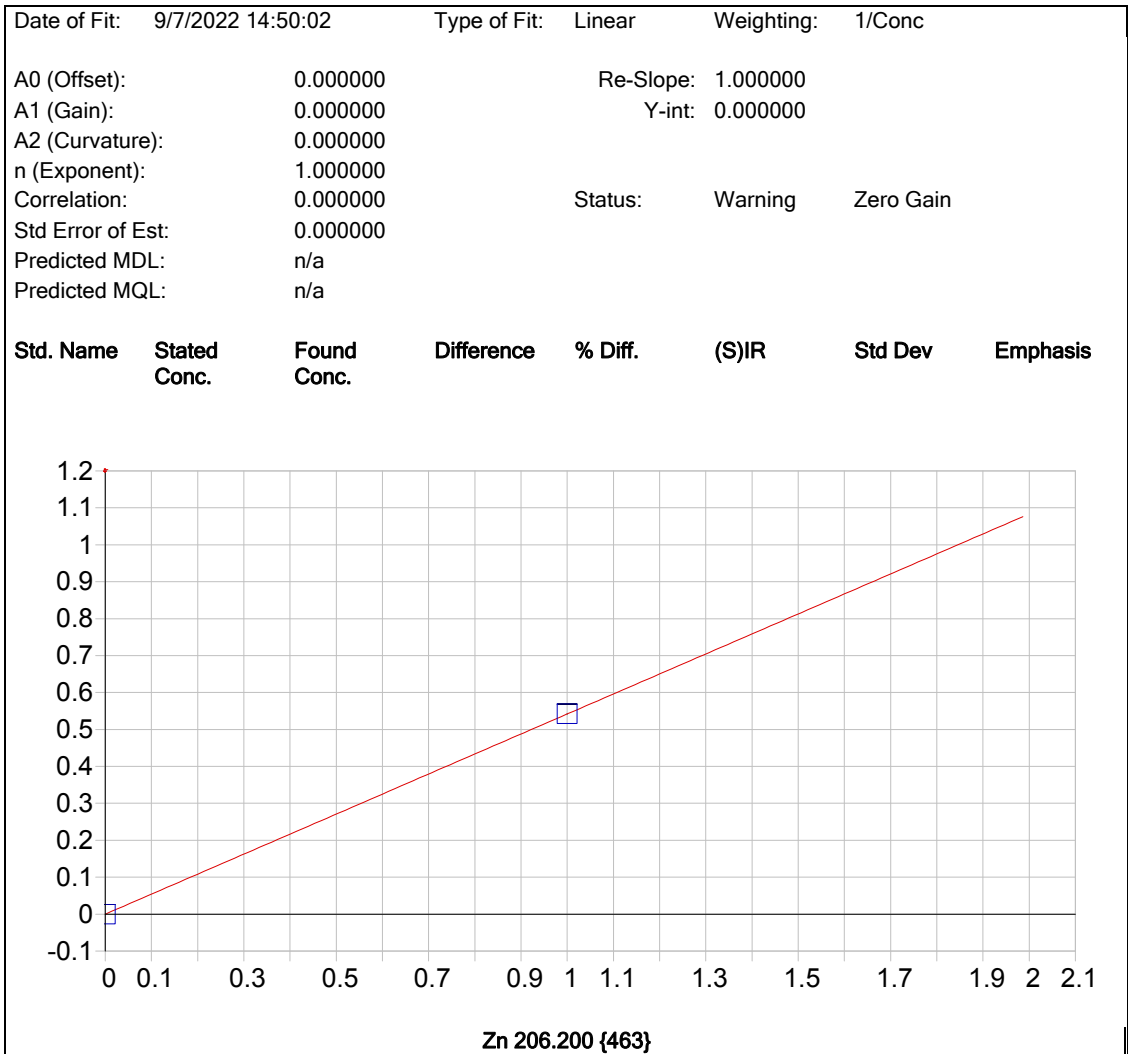
Y 360.073 { 94}*

Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc
 A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 0.000000
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 371.030 { 91}*



Date of Fit: 9/7/2022 14:50:02 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000025 Re-Slope: 1.000000
A1 (Gain): 0.541873 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 1.000000 Status: OK.
Std Error of Est: 0.000000
Predicted MDL: 0.000362
Predicted MQL: 0.001206

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00002	.000	1
S1	1.0000	1.0000	.000	.000	.54185	.000	1

Sample Name: Blank Acquired: 9/7/2022 13:50:34 Type: Cal
 Method: P6090722A(v2) Mode: IR Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00003	.00124	-.00049	.01343	.00209	-.00014	-.00032
Stddev	.00008	.00023	.00018	.00040	.00038	.00013	.00007
%RSD	289.12	18.329	37.594	3.0140	18.183	88.924	20.761

#1	.00003	.00140	-.00036	.01314	.00236	-.00005	-.00028
#2	-.00008	.00108	-.00062	.01371	.00182	-.00023	-.00037

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00205	.0009	-3.974	-.00003	.00003	.01402	.00024
Stddev	.00004	.0001	1.298	.00006	.00012	.00002	.00011
%RSD	1.9339	15.21	32.67	225.34	373.90	.14471	43.353

#1	.00208	.0008	-3.056	.00002	.00012	.01404	.00017
#2	.00202	.0010	-4.892	-.00007	-.00005	.01401	.00032

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00380	-.0004	-.00015	.00015	.00025	.02581	.00188
Stddev	.00005	.0005	.00002	.00021	.00040	.00180	.00023
%RSD	1.3226	136.8	12.187	135.32	159.20	6.9781	12.321

#1	.00377	-.0008	-.00014	.00001	-.00003	.02454	.00172
#2	.00384	-.0000	-.00016	.00030	.00054	.02708	.00204

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00059	.00015	.00008	.01868	.00013	.00010	.00038
Stddev	.00008	.00009	.00004	.00055	.00014	.00083	.00012
%RSD	12.940	58.978	44.965	2.9395	108.33	834.32	32.265

#1	-.00064	.00021	.00011	.01907	.00003	-.00049	.00029
#2	-.00053	.00009	.00006	.01829	.00024	.00068	.00047

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	.00024	.00010	-.00002
Stddev	.00004	.00000	.00029
%RSD	16.715	2.5946	1172.4

#1	.00021	.00010	.00018
#2	.00027	.00010	-.00023

Sample Name: Blank Acquired: 9/7/2022 13:50:34 Type: Cal
Method: P6090722A(v2) Mode: IR Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4095.7	2011.7	10621.	8303.4
Stddev	155.4	107.3	296.	17.2
%RSD	3.7953	5.3339	2.7849	.20751
#1	4205.6	2087.6	10831.	8315.6
#2	3985.8	1935.8	10412.	8291.3

Sample Name: S1 Acquired: 9/7/2022 13:54:06 Type: Cal
 Method: P6090722A(v2) Mode: IR Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.43442	.14664	1.1335	9.0387	.70083	.18273	4.244	1.1603
Stddev	.00559	.00094	.0038	.0357	.01049	.00072	.007	.0027
%RSD	1.2860	.64354	.33250	.39501	1.4972	.39474	.1681	.23309

#1	.43837	.14597	1.1309	9.0135	.69341	.18222	4.239	1.1584
#2	.43047	.14731	1.1362	9.0640	.70825	.18324	4.249	1.1622

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.27049	1.2174	2.706	.36425	1.0039	.30590	.21741	.37265
Stddev	.00404	.0294	.024	.00350	.0043	.00106	.00005	.00276
%RSD	1.4933	2.4141	.8938	.96151	.42666	.34515	.02483	.74113

#1	.27334	1.2382	2.689	.36177	1.0009	.30516	.21737	.37069
#2	.26763	1.1966	2.723	.36673	1.0070	.30665	.21745	.37460

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.15609	1.2305	.17709	48.076	1.3568	.08506	.60119	.54185
Stddev	.00054	.0287	.00040	.799	.0274	.00025	.00971	.00048
%RSD	.34790	2.3339	.22665	1.6614	2.0170	.29507	1.6154	.08858

#1	.15571	1.2508	.17681	48.641	1.3761	.08488	.60806	.54151
#2	.15648	1.2102	.17738	47.511	1.3374	.08524	.59432	.54219

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3617.5	1716.9	8829.4	7420.6
Stddev	13.0	5.7	146.1	3.2
%RSD	.35958	.33361	1.6543	.04360

#1	3626.7	1720.9	8726.1	7418.3
#2	3608.3	1712.8	8932.7	7422.9

Sample Name: S2 Acquired: 9/7/2022 13:57:19 Type: Cal
 Method: P6090722A(v2) Mode: IR Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.8327	8.4478	.33594	6.5739	.74350	25.801
Stddev	.0146	.1967	.00605	.0463	.00980	.195
%RSD	.79538	2.3288	1.8011	.70465	1.3183	.75464
#1	1.8224	8.3087	.33166	6.6066	.73657	25.938
#2	1.8430	8.5869	.34022	6.5411	.75043	25.663

Int. Std.	Y_3710
Units	Cts/S
Avg	6995.3
Stddev	7.9
%RSD	.11358
#1	6989.7
#2	7000.9

Sample Name: CE Acquired: 9/7/2022 14:00:31 Type: Cal
Method: P6090722A(v2) Mode: IR Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	3214.
Stddev	41.
%RSD	1.267
#1	3186.
#2	3243.

Sample Name: S1 Acquired: 9/7/2022 14:04:09 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090722A

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.002307	.0153754	1.036942	1.033446	1.003687	.9880213
Stddev	.001208	.0041585	.003908	.001851	.002171	.0130838
%RSD	.1204733	27.04642	.3768700	.1791030	.2162534	1.324246

#1	1.003161	.0124349	1.034179	1.032137	1.005222	.9787696
#2	1.001453	.0183159	1.039705	1.034754	1.002152	.9972730

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035840	-.000397	1.031185	F .1432414	1.034154	.9959454
Stddev	.000345	.001191	.004248	.0027717	.004494	.0043470
%RSD	.0333491	300.0548	.4119468	1.934981	.4345954	.4364664

#1	1.035596	-.001239	1.028181	.1412815	1.030976	.9990192
#2	1.036085	.000445	1.034189	.1452013	1.037332	.9928716

Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				1.000000		
Range				-5.00000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033607	.0715223	.0212183	1.011732	.0131066	.9870229
Stddev	.006718	.0297839	.0023722	.028657	.0092336	.0173142
%RSD	.6499506	41.64284	11.17994	2.832439	70.44970	1.754180

#1	1.028857	.0504619	.0195409	1.031996	.0065775	.9747799
#2	1.038358	.0925828	.0228957	.991469	.0196357	.9992658

Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: S1 Acquired: 9/7/2022 14:04:09 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment: P6090722A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035589	.0055521	1.035861	1.030854	1.040347	1.044650
Stddev	.000550	.0035728	.003528	.004084	.001110	.001003
%RSD	.0530975	64.35109	.3405956	.3961538	.1066848	.0960252

#1	1.035200	.0080785	1.033366	1.027966	1.039562	1.045360
#2	1.035977	.0030257	1.038356	1.033742	1.041132	1.043941

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .8465434	1.034356	1.020915	1.017973	1.037440	1.017669
Stddev	.0060036	.006154	.012578	.001986	.004519	.000787
%RSD	.7091887	.5949808	1.232036	.1950657	.4356152	.0773068

#1	.8507886	1.030004	1.012021	1.016569	1.034244	1.017112
#2	.8422982	1.038708	1.029809	1.019377	1.040635	1.018225

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.000000					
Range	-5.00000%					

Elem	Zn2062
Units	ppm
Avg	1.022294
Stddev	.006680
%RSD	.6534628

#1	1.017570
#2	1.027017

Check ?	Chk Pass
Value	
Range	

Sample Name: S1 Acquired: 9/7/2022 14:04:09 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment: P6090722A

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3489.875	1653.784	8564.263	7389.009
Stddev	4.582	3.335	31.101	43.024
%RSD	.1313005	.2016594	.3631442	.5822643
#1	3486.635	1651.425	8586.254	7358.587
#2	3493.115	1656.142	8542.272	7419.432

Sample Name: S2 Acquired: 9/7/2022 14:07:12 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0000880	99.99504	-.002779	.0013636	.0021544	.0014641	.0121593
Stddev	.0000054	.87743	.001115	.0000215	.0000761	.0001524	.0002609
%RSD	6.186177	.8774742	40.13285	1.573613	3.530467	10.40791	2.145732
#1	.0000918	99.37460	-.001990	.0013787	.0022081	.0013564	.0119748
#2	.0000841	100.6155	-.003567	.0013484	.0021006	.0015719	.0123438

Check ? Value Range None **Chk Pass** None None None None None

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	98.69232	.0005757	.0351571	.0001175	-.000361	.0012984	99.77317
Stddev	1.24295	.0000785	.0027505	.0005844	.000331	.0000469	.87170
%RSD	1.259424	13.62684	7.823381	497.5249	91.73004	3.613644	.8736850
#1	97.81342	.0006312	.0332122	.0005307	-.000127	.0013316	99.15679
#2	99.57122	.0005203	.0371020	-.000296	-.000595	.0012653	100.3896

Check ? Value Range **Chk Pass** None None None None None **Chk Pass**

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	99.52272	.0012134	99.31889	.0003048	.0011430	99.40064	-.001451
Stddev	.02281	.0002966	1.04639	.0003445	.0001139	.20347	.000374
%RSD	.0229188	24.44235	1.053565	113.0321	9.967621	.2046945	25.74140
#1	99.50659	.0014231	98.57898	.0005483	.0010625	99.25677	-.001187
#2	99.53885	.0010037	100.0588	.0000612	.0012236	99.54452	-.001715

Check ? Value Range **Chk Pass** None **Chk Pass** None None **Chk Pass** None

Sample Name: S2 Acquired: 9/7/2022 14:07:12 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021890	.0055004	.0016790	-.003208	.0037749	.0008183	.0055052
Stddev	.0010599	.0010235	.0006328	.000872	.0004287	.0000637	.0000802
%RSD	48.42058	18.60843	37.69017	27.18296	11.35700	7.785225	1.456259
#1	.0014395	.0062241	.0021265	-.002592	.0040781	.0008634	.0054485
#2	.0029384	.0047766	.0012316	-.003825	.0034718	.0007733	.0055619

Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0042533	-.001071	.0009063
Stddev	.0031560	.000014	.0017357
%RSD	74.20142	1.322473	191.5209
#1	.0064849	-.001061	.0021336
#2	.0020216	-.001081	-.000321

Check ?	None	None	None
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.050	1517.995	7739.695	6975.576
Stddev	15.104	12.891	11.230	1.812
%RSD	.5573445	.8492228	.1450919	.0259715
#1	2720.730	1527.110	7747.636	6976.857
#2	2699.369	1508.879	7731.755	6974.295

Sample Name: ICV Acquired: 9/7/2022 14:10:22 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3887138	37.66974	.4219120	.4176548	.3857951	.3806711
Stddev	.0013236	.17148	.0018653	.0021258	.0017646	.0015267
%RSD	.3405078	.4552222	.4421060	.5089922	.4573832	.4010633
#1	.3896498	37.54848	.4205930	.4161516	.3845474	.3795915
#2	.3877779	37.79100	.4232310	.4191580	.3870429	.3817506

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4163021	19.30373	.4099355	F .0786506	.4349401	.3759563
Stddev	.0023795	.10778	.0020664	.0043662	.0030136	.0036740
%RSD	.5715682	.5583419	.5040867	5.551402	.6928808	.9772361
#1	.4146196	19.22752	.4084744	.0817380	.4328091	.3785542
#2	.4179847	19.37994	.4113967	.0755633	.4370710	.3733584

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
 Value
 Range **.4000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4062081	19.57363	39.13980	3.098680	19.39180	3.738037
Stddev	.0021673	.20326	.11926	.003285	.10167	.034021
%RSD	.5335341	1.038449	.3047047	.1060087	.5242885	.9101301
#1	.4046756	19.42991	39.22413	3.101003	19.31991	3.713980
#2	.4077406	19.71736	39.05547	3.096358	19.46369	3.762093

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Sample Name: ICV Acquired: 9/7/2022 14:10:22 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4033452	19.67072	.4230376	.4169473	.4012878	.4224354
Stddev	.0011500	.05549	.0004305	.0064086	.0043543	.0018865
%RSD	.2851110	.2820946	.1017622	1.537031	1.085087	.4465649

#1	.4025320	19.70996	.4227332	.4124157	.3982089	.4211015
#2	.4041583	19.63148	.4233420	.4214788	.4043668	.4237693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0853754	.4284434	.3945266	.3949197	.4045874	3.903523
Stddev	.0004921	.0029329	.0003245	.0001734	.0005451	.012105
%RSD	.5763787	.6845504	.0822570	.0438959	.1347256	.3101043

#1	.0850275	.4263695	.3947560	.3947971	.4042020	3.912083
#2	.0857234	.4305172	.3942971	.3950422	.4049729	3.894964

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.4000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.4318624
Stddev	.0022197
%RSD	.5139831

#1	.4302929
#2	.4334320

Check ?	Chk Pass
Value	
Range	

Sample Name: ICV Acquired: 9/7/2022 14:10:22 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.570	1579.147	8335.862	7367.230
Stddev	15.938	10.124	38.615	21.390
%RSD	.5253954	.6410876	.4632358	.2903414
#1	3044.840	1586.306	8363.167	7352.105
#2	3022.300	1571.989	8308.558	7382.355

Sample Name: ICB Acquired: 9/7/2022 14:13:29 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006818	.0205344	-.001648	.0019052	.0001211	.0001895
Stddev	.0003976	.0044922	.000246	.0000513	.0000230	.0004363
%RSD	58.32216	21.87663	14.91366	2.694940	18.98169	230.1988

#1	.0009629	.0237109	-.001474	.0018689	.0001374	.0004980
#2	.0004006	.0173579	-.001822	.0019415	.0001049	-.000119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000334	.0046251	.0002023	F .0057632	.0002464	-.000054
Stddev	.000414	.0000553	.0000257	.0015319	.0001425	.000115
%RSD	123.7297	1.196178	12.68761	26.58001	57.83147	213.5095

#1	-.000627	.0045860	.0002204	.0068464	.0003472	-.000135
#2	-.000042	.0046642	.0001841	.0046800	.0001457	.000027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015788	.0353017	.0350654	.0013982	.0124636	.0009893
Stddev	.0001398	.0325949	.0099881	.0003186	.0040751	.0000402
%RSD	8.852223	92.33250	28.48416	22.78849	32.69631	4.059530

#1	.0014800	.0122536	.0421281	.0016235	.0095820	.0010177
#2	.0016777	.0583498	.0280028	.0011729	.0153452	.0009609

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 9/7/2022 14:13:29 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004061	.0005060	.0000137	-.000667	.0026638	.0017304
Stddev	.0001837	.0037567	.0002127	.000791	.0007366	.0031960
%RSD	45.23901	742.4635	1558.838	118.4867	27.65165	184.7003

#1	.0005360	.0031623	.0001641	-.000108	.0031847	.0039902
#2	.0002762	-.002150	-.000137	-.001227	.0021430	-.000530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004803	-.000467	.0000928	.0006474	.0019055	.0010158
Stddev	.000006	.001108	.0000090	.0000340	.0001494	.0002029
%RSD	.1335712	237.4240	9.698205	5.257280	7.839249	19.97223

#1	-.004808	.000317	.0000992	.0006715	.0020111	.0008723
#2	-.004799	-.001250	.0000864	.0006233	.0017999	.0011592

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000369
Stddev	.000262
%RSD	70.93007

#1	-.000554
#2	-.000184

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICB Acquired: 9/7/2022 14:13:29 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3573.366	1657.885	8525.905	7407.570
Stddev	6.971	11.403	5.066	9.690
%RSD	.1950785	.6878234	.0594154	.1308091
#1	3568.437	1649.822	8529.487	7414.422
#2	3578.295	1665.949	8522.323	7400.718

Sample Name: ICVL Acquired: 9/7/2022 14:16:43 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056692	.2059660	.0095358	.0535688	.0103355	.0042651
Stddev	.0000476	.0031720	.0004887	.0001516	.0001762	.0000188
%RSD	.8404160	1.540043	5.124474	.2829650	1.704671	.4416599
#1	.0057029	.2082089	.0098813	.0534616	.0102109	.0042518
#2	.0056356	.2037231	.0091903	.0536760	.0104601	.0042784

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0510821	.1880762	.0021421	F .0118084	.0053005	.0097221
Stddev	.0010845	.0002980	.0001036	.0013118	.0000551	.0005319
%RSD	2.122991	.1584427	4.833863	11.10919	1.039520	5.470587
#1	.0503153	.1878654	.0020689	.0108808	.0053395	.0093460
#2	.0518489	.1882869	.0022153	.0127360	.0052616	.0100982

Check ? Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
 Value
 Range .0050000
 30.00000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119415	F .2651051	.5141979	.0111613	.0869706	.0097676
Stddev	.0001296	.0209661	.0106375	.0004903	.0156661	.0000108
%RSD	1.084980	7.908610	2.068759	4.392447	18.01311	.1103810
#1	.0118499	.2502798	.5217198	.0108146	.0758930	.0097600
#2	.0120331	.2799304	.5066761	.0115080	.0980482	.0097752

Check ? Chk Pass Chk Fail Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range .2000000
 30.00000%

Sample Name: ICVL Acquired: 9/7/2022 14:16:43 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106885	1.018150	.0100974	.0061836	.0208009	.0103180
Stddev	.0004507	.007949	.0000271	.0001119	.0011214	.0023843
%RSD	4.216758	.7807146	.2680440	1.809870	5.391081	23.10820

#1	.0103698	1.012529	.0100782	.0062627	.0215938	.0086321
#2	.0110072	1.023771	.0101165	.0061044	.0200080	.0120040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0648993	.0402602	.0053330	.0050983	.0110494	.0048822
Stddev	.0000089	.0004835	.0000154	.0000261	.0001500	.0002362
%RSD	.0136413	1.200993	.2882488	.5121887	1.357205	4.838887

#1	.0648930	.0406021	.0053222	.0051168	.0111555	.0047151
#2	.0649056	.0399183	.0053439	.0050798	.0109434	.0050492

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000000					
Range	-30.0000%					

Elem	Zn2062
Units	ppm
Avg	.0200736
Stddev	.0002278
%RSD	1.134607

#1	.0199125
#2	.0202346

Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 9/7/2022 14:16:43 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.083	1634.945	8515.105	7380.226
Stddev	5.140	2.129	41.361	36.170
%RSD	.1466116	.1302482	.4857392	.4900892
#1	3509.718	1636.451	8544.352	7405.802
#2	3502.449	1633.439	8485.859	7354.650

Sample Name: CRI Acquired: 9/7/2022 14:20:16 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102916	.3930395	.0189699	.1036227	.0204725	.0077373
Stddev	.0000914	.0031981	.0001816	.0001586	.0001412	.0002027
%RSD	.8879452	.8136784	.9574856	.1530037	.6899179	2.619453

#1	.0103563	.3907781	.0190983	.1035106	.0203727	.0078806
#2	.0102270	.3953009	.0188414	.1037348	.0205724	.0075940

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1043731	.3877854	.0043268	.0113235	.0104752	.0193961
Stddev	.0000373	.0029961	.0000632	.0000419	.0000240	.0002009
%RSD	.0357023	.7726074	1.459505	.3702956	.2292203	1.035977

#1	.1043995	.3856669	.0042821	.0112938	.0104921	.0192540
#2	.1043468	.3899039	.0043714	.0113531	.0104582	.0195382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224037	.4080199	1.035323	.0216177	.1956603	.0198727
Stddev	.0003605	.0395269	.006281	.0005026	.0230591	.0006190
%RSD	1.609284	9.687490	.6066945	2.325044	11.78525	3.114877

#1	.0221487	.4359696	1.030881	.0212623	.2119656	.0194350
#2	.0226586	.3800701	1.039764	.0219731	.1793551	.0203104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRI Acquired: 9/7/2022 14:20:16 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203942	2.035244	.0214010	.0109318	.0413206	.0217057
Stddev	.0002549	.026655	.0005719	.0006935	.0021600	.0009098
%RSD	1.249718	1.309682	2.672288	6.343669	5.227390	4.191730

#1	.0202139	2.016395	.0209966	.0114222	.0397933	.0223490
#2	.0205744	2.054092	.0218054	.0104414	.0428480	.0210623

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1399153	.0815638	.0105129	.0103533	.0209019	.0104021
Stddev	.0002522	.0003709	.0000609	.0001376	.0004276	.0004042
%RSD	.1802465	.4547732	.5795373	1.329132	2.045647	3.885506

#1	.1400937	.0813015	.0104698	.0104506	.0212042	.0101163
#2	.1397370	.0818260	.0105560	.0102560	.0205995	.0106879

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.4000000					
Range	-50.0000%					

Elem	Zn2062
Units	ppm
Avg	.0412495
Stddev	.0004858
%RSD	1.177616

#1	.0409060
#2	.0415929

Check ?	Chk Pass
Value	
Range	

Sample Name: CRI Acquired: 9/7/2022 14:20:16 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3495.409	1637.906	8584.499	7401.825
Stddev	.138	3.799	45.615	21.917
%RSD	.0039517	.2319255	.5313698	.2960965
#1	3495.311	1635.220	8616.754	7417.322
#2	3495.506	1640.592	8552.244	7386.328

Sample Name: ICSA Acquired: 9/7/2022 14:23:31 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005430	522.6106	-.001138	-.002785	.0018233	.0023434
Stddev	.0001063	5.4168	.000991	.000831	.0000948	.0001437
%RSD	19.57222	1.036495	87.11232	29.83151	5.199190	6.133192

#1	.0004678	518.7804	-.001839	-.003372	.0018904	.0022417
#2	.0006181	526.4409	-.000437	-.002197	.0017563	.0024450

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193886	498.5232	.0008318	F .1103924	.0001744	.0008079
Stddev	.0003379	8.2784	.0000853	.0071905	.0000974	.0000825
%RSD	1.742759	1.660578	10.25299	6.513557	55.84466	10.21631

#1	.0191497	504.3769	.0008921	.1053080	.0001055	.0008663
#2	.0196275	492.6695	.0007715	.1154768	.0002433	.0007496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.0050000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003937	192.7054	.0425874	.0015957	500.2947	.0020000
Stddev	.0000369	1.9032	.0023891	.0000627	5.3674	.0001300
%RSD	9.361844	.9876068	5.609887	3.928584	1.072846	6.501835

#1	.0003677	191.3597	.0408981	.0016400	496.4994	.0019081
#2	.0004198	194.0512	.0442768	.0015513	504.0901	.0020920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 9/7/2022 14:23:31 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007029	.0607448	-.002599	.0034797	-.008023	.0076545
Stddev	.0012431	.0018131	.000386	.0003677	.000002	.0004046
%RSD	176.8542	2.984735	14.86869	10.56586	.0272015	5.286114

#1	-.000176	.0594628	-.002873	.0037397	-.008024	.0073683
#2	.001582	.0620268	-.002326	.0032197	-.008021	.0079406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010699	.0124283	.0021770	.0034758	.0045258	-.002231
Stddev	.000347	.0007432	.0000507	.0002291	.0019627	.000182
%RSD	3.243316	5.979543	2.327708	6.589672	43.36641	8.166064

#1	-.010453	.0129538	.0021412	.0033139	.0031380	-.002102
#2	-.010944	.0119028	.0022128	.0036378	.0059136	-.002360

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0018859
Stddev	.0009543
%RSD	50.60059

#1	.0012111
#2	.0025606

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICSA Acquired: 9/7/2022 14:23:31 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2376.800	1399.744	7194.386	6531.023
Stddev	2.910	1.240	7.998	17.236
%RSD	.1224407	.0886220	.1111759	.2639086
#1	2374.742	1400.621	7200.042	6543.210
#2	2378.857	1398.867	7188.730	6518.835

Sample Name: ICSAB Acquired: 9/7/2022 14:26:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2117973	510.2118	.0977127	-.002680	.4943482	.5098771
Stddev	.0007985	7.3623	.0008164	.000710	.0058020	.0022662
%RSD	.3770340	1.442987	.8355281	26.51033	1.173658	.4444660

#1	.2123620	505.0058	.0971354	-.002177	.4902456	.5082746
#2	.2112327	515.4177	.0982900	-.003182	.4984508	.5114795

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0172228	470.4649	1.029645	F .1220442	.5151700	.4254215
Stddev	.0010717	24.5605	.004999	.0044352	.0009448	.0018516
%RSD	6.222454	5.220464	.4855508	3.634091	.1833891	.4352353

#1	.0179806	453.0980	1.026110	.1189080	.5145019	.4241123
#2	.0164650	487.8317	1.033180	.1251803	.5158380	.4267308

Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.2000000		
Range				-20.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5589225	187.3399	.0778224	.0014868	486.0756	.4565735
Stddev	.0013905	1.1766	.0125935	.0000415	3.9573	.0027640
%RSD	.2487909	.6280455	16.18241	2.789157	.8141359	.6053810

#1	.5599058	186.5079	.0689174	.0015161	483.2773	.4546190
#2	.5579392	188.1718	.0867274	.0014575	488.8738	.4585279

Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICSAB Acquired: 9/7/2022 14:26:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006861	.0525824	.9764893	.0490888	.5451762	.0496693
Stddev	.0000777	.0018226	.0006749	.0029729	.0052199	.0006177
%RSD	11.32211	3.466092	.0691121	6.056254	.9574782	1.243644
#1	.0006311	.0512937	.9760121	.0469866	.5414851	.0492325
#2	.0007410	.0538711	.9769665	.0511910	.5488672	.0501061

Check ? None None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009820	.0102990	.0023331	.0041422	.0853790	.4565669
Stddev	.000970	.0041885	.0003042	.0000406	.0037257	.0014433
%RSD	9.873241	40.66903	13.03895	.9807583	4.363703	.3161124
#1	-.010506	.0132607	.0025482	.0041135	.0880135	.4575874
#2	-.009135	.0073373	.0021180	.0041709	.0827446	.4555463

Check ? None None None None **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Zn2062
Units	ppm
Avg	1.005581
Stddev	.000377
%RSD	.0375036

#1 **1.005315**
 #2 **1.005848**

Check ? **Chk Pass**
 Value
 Range

Sample Name: ICSAB Acquired: 9/7/2022 14:26:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.515	1407.773	7286.559	6674.166
Stddev	1.273	1.974	30.098	33.467
%RSD	.0528675	.1402132	.4130641	.5014433
#1	2406.615	1409.169	7265.277	6697.831
#2	2408.415	1406.377	7307.842	6650.501

Sample Name: CCV Acquired: 9/7/2022 14:30:00 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5009787	49.46936	.5305082	.5226549	.4971154	.4908600
Stddev	.0022608	.39963	.0012635	.0015708	.0021872	.0015773
%RSD	.4512696	.8078411	.2381711	.3005515	.4399779	.3213452

#1	.5025773	49.18678	.5314016	.5215442	.4955689	.4897447
#2	.4993801	49.75195	.5296148	.5237657	.4986620	.4919754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5426682	24.52554	.5135871	F .1029743	.5367554	.4767459
Stddev	.0002274	.15484	.0018090	.0042143	.0024556	.0009275
%RSD	.0419102	.6313477	.3522358	4.092523	.4574875	.1945553

#1	.5425073	24.41605	.5123079	.0999944	.5350191	.4760900
#2	.5428290	24.63503	.5148662	.1059542	.5384918	.4774018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5200721	25.08767	50.97544	4.077033	24.91568	4.757104
Stddev	.0021565	.03115	.00072	.004928	.04604	.020392
%RSD	.4146482	.1241709	.0014093	.1208608	.1847673	.4286666

#1	.5215970	25.06565	50.97493	4.080518	24.88312	4.742685
#2	.5185473	25.10970	50.97594	4.073549	24.94823	4.771524

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 14:30:00 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5083396	25.99991	.5327215	.5223786	.5218689	.5213689
Stddev	.0013003	.02259	.0012253	.0000633	.0012650	.0018793
%RSD	.2557919	.0868854	.2300065	.0121231	.2424012	.3604584

#1	.5074201	25.98394	.5318551	.5223338	.5209744	.5200400
#2	.5092590	26.01589	.5335880	.5224234	.5227634	.5226978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1112637	.5392429	.4922842	.5030360	.5029030	4.973899
Stddev	.0002974	.0003377	.0035025	.0003575	.0007117	.003113
%RSD	.2673365	.0626205	.7114727	.0710788	.1415107	.0625784

#1	.1114740	.5394817	.4898076	.5027832	.5023998	4.976100
#2	.1110534	.5390041	.4947608	.5032888	.5034062	4.971698

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5404126
Stddev	.0034376
%RSD	.6361042

#1	.5379818
#2	.5428433

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 14:30:00 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.484	1540.099	8037.747	7176.637
Stddev	.508	2.623	16.985	32.089
%RSD	.0172134	.1703345	.2113137	.4471340
#1	2951.124	1538.244	8025.736	7153.947
#2	2951.843	1541.954	8049.757	7199.328

Sample Name: CCB Acquired: 9/7/2022 14:33:07 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0002945	.0294958	-.001363	.0015324	.0001590	.0004358	-.001015
Stddev	.0001052	.0011695	.001717	.0000986	.0000301	.0000654	.000401
%RSD	35.71695	3.964832	125.9672	6.431682	18.95434	15.00023	39.45134

#1	.0002202	.0286689	-.002577	.0014627	.0001803	.0003896	-.001299
#2	.0003689	.0303227	-.000149	.0016021	.0001377	.0004821	-.000732

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0147502	.0002016	.0021734	.0000103	-.000568	.0010579	-.004543
Stddev	.0048212	.0001612	.0005745	.0000153	.000115	.0001302	.030000
%RSD	32.68560	79.96819	26.43203	147.6593	20.30790	12.30355	660.3764

#1	.0181592	.0000876	.0025796	-.000000	-.000486	.0011500	-.025756
#2	.0113411	.0003155	.0017672	.000021	-.000649	.0009659	.016670

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.0143490	.0012383	.0283514	.0014541	.0003121	-.013573	-.000101
Stddev	.0078803	.0002051	.0093052	.0003484	.0004069	.000430	.000552
%RSD	54.91882	16.56388	32.82093	23.95963	130.3810	3.171581	546.0773

#1	.0199212	.0013833	.0349312	.0017004	.0000244	-.013877	-.000491
#2	.0087768	.0010932	.0217717	.0012077	.0005998	-.013268	.000289

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/7/2022 14:33:07 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000330	.0052703	.0023697	-.005073	-.000251	.0001018	.0005268
Stddev	.000068	.0002457	.0010575	.000554	.000505	.0000094	.0001958
%RSD	20.64332	4.661347	44.62539	10.92917	201.0404	9.207856	37.17614
#1	-.000282	.0054440	.0016220	-.005465	.000106	.0001084	.0006653
#2	-.000378	.0050966	.0031175	-.004681	-.000608	.0000951	.0003883

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0008972	.0012528	-.000305
Stddev	.0004356	.0001125	.000315
%RSD	48.55541	8.982304	103.4016
#1	.0012052	.0011732	-.000082
#2	.0005891	.0013324	-.000527

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3526.852	1616.968	8529.172	7424.139
Stddev	34.926	28.984	4.923	11.671
%RSD	.9902996	1.792499	.0577241	.1571981
#1	3551.548	1637.462	8532.654	7432.392
#2	3502.155	1596.473	8525.691	7415.887

Sample Name: Al Acquired: 9/7/2022 14:37:03 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014942	F 646.7857	.0000029	-.000716	.0015279	.0002778
Stddev	.0002659	3.3685	.0044642	.000436	.0000405	.0001071
%RSD	17.79438	.5208058	153454.9	60.88850	2.652504	38.54366

#1	.0013062	649.1676	-.003154	-.000408	.0015565	.0002021
#2	.0016823	644.4038	.003160	-.001025	.0014992	.0003535

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.1000000				
Low Limit		-.1000000				

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003758	.0161902	.0001990	F .1182553	-.000231	.0003909
Stddev	.002263	.0004690	.0000276	.0087307	.000072	.0001512
%RSD	60.21632	2.896599	13.85731	7.382953	31.18693	38.69304

#1	-.005358	.0165218	.0002185	.1244289	-.000180	.0002839
#2	-.002158	.0158586	.0001795	.1120817	-.000282	.0004978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.0025000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024082	-.004117	.0077402	.0002336	.0103583	.0010432
Stddev	.0001672	.002494	.0126562	.0002524	.0290288	.0001924
%RSD	6.944334	60.58286	163.5117	108.0578	280.2467	18.44512

#1	.0022899	-.005881	.0166895	.0004120	-.010168	.0011793
#2	.0025264	-.002353	-.001209	.0000551	.030885	.0009072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Al Acquired: 9/7/2022 14:37:03 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007398	.0262245	-.003842	F .0062305	F -.016903	-.000001
Stddev	.0009060	.0006781	.000397	.0006515	.001518	.005264
%RSD	122.4606	2.585844	10.33092	10.45722	8.978903	890160.4

#1	.0000992	.0267040	-.004122	.0066912	-.017977	-.003723
#2	.0013805	.0257450	-.003561	.0057698	-.015830	.003721

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				.0025000	.0100000	
Low Limit				-.002500	-.010000	

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012246	.0095457	F -.005296	.0002304	-.000002	-.000065
Stddev	.000689	.0010694	.000036	.0001651	.003792	.000985
%RSD	5.630122	11.20298	.6826409	71.66623	194102.3	1510.494

#1	-.011759	.0087895	-.005322	.0001136	-.002683	.000631
#2	-.012734	.0103019	-.005271	.0003471	.002679	-.000762

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.0025000			
Low Limit			-.002500			

Elem	Zn2062
Units	ppm
Avg	.0019896
Stddev	.0007016
%RSD	35.26255

#1	.0014935
#2	.0024857

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: Al Acquired: 9/7/2022 14:37:03 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2858.729	1594.039	7876.276	6594.904
Stddev	1.482	1.099	15.484	90.595
%RSD	.0518365	.0689494	.1965911	1.373719
#1	2857.681	1593.262	7865.328	6530.843
#2	2859.777	1594.816	7887.225	6658.964

Sample Name: Fe Acquired: 9/7/2022 14:40:39 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00207	F .1818761	-0.001114	-0.006528	.0004525	F .0048544
Stddev	.000569	.0077985	.000127	.000385	.0000222	.0000405
%RSD	274.4387	4.287828	11.40798	5.897501	4.903433	.8331894

#1	-0.00609	.1873904	-0.001024	-0.006800	.0004368	.0048258
#2	.000195	.1763617	-0.001204	-0.006256	.0004682	.0048830

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit		.1000000				.0020000
Low Limit		-.1000000				-.0020000

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0632835	.0361337	.0005517	F -.005709	.0013737	.0021368
Stddev	.0006751	.0011499	.0001202	.003972	.0003182	.0002517
%RSD	1.066734	3.182304	21.77969	69.58828	23.16534	11.77717

#1	.0628061	.0369468	.0004667	-.002900	.0011487	.0023147
#2	.0637608	.0353207	.0006366	-.008517	.0015988	.0019588

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	.0250000			.0025000		
Low Limit	-.0250000			-.0025000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.007047	F 502.0908	-.090423	-0.000183	F -.061589	.0012655
Stddev	.000146	3.4458	.001875	.000163	.001519	.0001655
%RSD	2.064808	.6862844	2.073451	89.15085	2.466874	13.07760

#1	-0.006945	499.6542	-.091749	-0.000299	-.062664	.0013825
#2	-0.007150	504.5273	-.089097	-0.000068	-.060515	.0011485

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	.0050000	.1000000			.0500000	
Low Limit	-.0050000	-.1000000			-.0500000	

Sample Name: Fe Acquired: 9/7/2022 14:40:39 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002906	.0399668	-.004540	.0008100	F .0124653	F .0072692
Stddev	.000380	.0007055	.000661	.0004941	.0012553	.0011037
%RSD	13.07095	1.765167	14.56020	61.00132	10.06999	15.18309

#1	-.003174	.0394680	-.004072	.0004606	.0133529	.0064888
#2	-.002637	.0404657	-.005007	.0011594	.0115777	.0080496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					.0100000	.0050000
Low Limit					-.0100000	-.0050000

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005969	.0023554	.0006208	-.000501	F .0058741	F -.004775
Stddev	.000056	.0005112	.0000090	.000025	.0007339	.000808
%RSD	.9455897	21.70105	1.444776	5.029170	12.49361	16.92101

#1	-.006009	.0027169	.0006271	-.000484	.0053552	-.005347
#2	-.005929	.0019940	.0006145	-.000519	.0063930	-.004204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					.0050000	.0025000
Low Limit					-.0050000	-.0025000

Elem	Zn2062
Units	ppm
Avg	.0086868
Stddev	.0002491
%RSD	2.867071

#1	.0088629
#2	.0085107

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: Fe Acquired: 9/7/2022 14:40:39 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3128.016	1525.054	8082.963	7208.520
Stddev	7.805	2.021	35.322	.125
%RSD	.2495307	.1325241	.4369962	.0017357
#1	3133.535	1526.483	8057.986	7208.609
#2	3122.497	1523.625	8107.939	7208.432

Sample Name: ICVL Acquired: 9/7/2022 14:51:06 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048550	.2024048	.0077524	.0521575	.0101083	.0038734
Stddev	.0000046	.0003958	.0013811	.0000981	.0000051	.0001502
%RSD	.0954391	.1955694	17.81451	.1880193	.0504674	3.878725

#1	.0048582	.2021249	.0067759	.0520881	.0101047	.0037672
#2	.0048517	.2026847	.0087290	.0522268	.0101119	.0039797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508494	.1902270	.0021969	F .0027466	.0050775	.0091368
Stddev	.0000437	.0066885	.0001257	.0024940	.0000210	.0005374
%RSD	.0859099	3.516078	5.721944	90.80624	.4137039	5.882104

#1	.0508803	.1854975	.0021080	.0009830	.0050627	.0087568
#2	.0508185	.1949565	.0022858	.0045101	.0050924	.0095168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114044	.2221806	.4946841	.0105868	.1150513	.0096701
Stddev	.0003969	.0348030	.0079048	.0003217	.0064189	.0002235
%RSD	3.480247	15.66430	1.597956	3.038584	5.579180	2.311410

#1	.0111238	.1975711	.5002736	.0108142	.1195902	.0095121
#2	.0116851	.2467900	.4890945	.0103593	.1105124	.0098282

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 9/7/2022 14:51:06 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099611	1.004130	.0096598	.0045645	.0182089	.0098772
Stddev	.0000992	.022688	.0001391	.0001599	.0006508	.0018728
%RSD	.9956719	2.259503	1.440528	3.502371	3.574051	18.96069

#1	.0098910	1.020173	.0095614	.0044515	.0186691	.0112015
#2	.0100312	.988087	.0097582	.0046775	.0177487	.0085529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0621343	.0385597	.0052516	.0050816	.0094925	.0049228
Stddev	.0002128	.0015880	.0000078	.0000698	.0009140	.0002134
%RSD	.3425483	4.118365	.1480219	1.372503	9.628947	4.334499

#1	.0619838	.0374368	.0052571	.0050323	.0088462	.0050737
#2	.0622848	.0396826	.0052461	.0051309	.0101388	.0047719

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000000					
Range	-30.0000%					

Elem	Zn2062
Units	ppm
Avg	.0192169
Stddev	.0001839
%RSD	.9570924

#1	.0193470
#2	.0190868

Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 9/7/2022 14:51:06 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3612.832	1659.480	8618.782	7581.251
Stddev	17.627	8.151	1.866	24.787
%RSD	.4879031	.4911560	.0216464	.3269455
#1	3625.296	1665.243	8620.101	7563.724
#2	3600.367	1653.717	8617.462	7598.778

Sample Name: MRL Acquired: 9/7/2022 14:54:22 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052725	.1951982	.0082536	.0536176	.0102244	.0039511
Stddev	.0000518	.0043184	.0006033	.0001612	.0000370	.0003081
%RSD	.9827647	2.212331	7.309802	.3007194	.3623447	7.798371

#1	.0052359	.1982518	.0078270	.0535036	.0101982	.0037332
#2	.0053091	.1921446	.0086802	.0537316	.0102506	.0041690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507423	.1940381	.0021948	.0058315	.0052724	.0086533
Stddev	.0002530	.0036600	.0000493	.0024048	.0000153	.0000663
%RSD	.4986513	1.886235	2.244937	41.23769	.2905261	.7656666

#1	.0509212	.1914501	.0022296	.0041311	.0052616	.0086064
#2	.0505633	.1966261	.0021599	.0075320	.0052833	.0087001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121492	.1920206	.4914084	.0108551	.1058141	.0094321
Stddev	.0000715	.0051533	.0009789	.0001118	.0327624	.0004396
%RSD	.5888749	2.683704	.1992008	1.030267	30.96220	4.661192

#1	.0121998	.1956645	.4907163	.0107761	.1289806	.0091212
#2	.0120986	.1883767	.4921006	.0109342	.0826476	.0097430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 9/7/2022 14:54:22 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101623	1.018598	.0101007	.0039349	.0198764	.0124029
Stddev	.0001203	.001890	.0004017	.0013348	.0002332	.0011867
%RSD	1.183676	.1855970	3.976723	33.92260	1.173456	9.568240

#1	.0102474	1.017261	.0098167	.0048788	.0197115	.0115637
#2	.0100773	1.019935	.0103847	.0029910	.0200414	.0132420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0647372	.0392850	.0052858	.0047846	.0091392	.0047854
Stddev	.0003235	.0000123	.0000203	.0001060	.0001060	.0008816
%RSD	.4996525	.0311920	.3839538	2.214910	1.159473	18.42377

#1	.0649659	.0392763	.0053001	.0047096	.0090642	.0041620
#2	.0645085	.0392937	.0052714	.0048595	.0092141	.0054088

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000000					
Range	-30.0000%					

Elem	Zn2062
Units	ppm
Avg	.0199487
Stddev	.0002183
%RSD	1.094416

#1	.0201031
#2	.0197944

Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 9/7/2022 14:54:22 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3512.625	1606.153	8552.973	7525.703
Stddev	4.498	6.384	21.902	2.929
%RSD	.1280382	.3974569	.2560695	.0389163
#1	3509.445	1601.639	8537.486	7523.633
#2	3515.805	1610.667	8568.460	7527.774

Sample Name: LRC Acquired: 9/7/2022 14:57:37 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018173	.0680388	-.003839	5.116514	4.921668	4.608081
Stddev	.0010857	.0005277	.000859	.032662	.064017	.049388
%RSD	59.74225	.7756237	22.36354	.6383741	1.300715	1.071770

#1	.0010496	.0684120	-.004446	5.093418	4.876401	4.573158
#2	.0025849	.0676657	-.003232	5.139610	4.966935	4.643004

Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.960792	.0536260	4.916474	.1319269	2.009230	1.844588
Stddev	.006323	.0001144	.006668	.0115958	.008628	.011338
%RSD	.1274651	.2132795	.1356271	8.789524	.4294103	.6146884

#1	4.956321	.0535451	4.911759	.1237275	2.015330	1.836571
#2	4.965263	.0537068	4.921189	.1401263	2.003129	1.852606

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050515	.0927221	-.016327	4.913199	-.024238	4.716362
Stddev	.010152	.0015012	.007778	.099012	.009831	.035225
%RSD	.4950843	1.619036	47.63639	2.015235	40.56152	.7468711

#1	2.057694	.0916606	-.010827	4.843186	-.031189	4.691454
#2	2.043337	.0937836	-.021827	4.983211	-.017286	4.741270

Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: LRC Acquired: 9/7/2022 14:57:37 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.519978	.1528271	5.067993	5.026643	5.028867	5.143337
Stddev	.003563	.0047631	.016640	.014385	.030040	.026235
%RSD	.2344044	3.116669	.3283299	.2861812	.5973456	.5100806

#1	1.517459	.1494591	5.079759	5.036816	5.007625	5.124786
#2	1.522498	.1561952	5.056227	5.016472	5.050108	5.161888

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.454723	5.048148	1.877895	1.913292	5.052816	4.829785
Stddev	.008093	.014903	.003459	.000792	.006606	.014002
%RSD	.3296777	.2952173	.1842003	.0413937	.1307430	.2899057

#1	2.449001	5.058686	1.875449	1.913852	5.057487	4.819884
#2	2.460446	5.037610	1.880341	1.912732	5.048144	4.839686

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	5.000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	5.159786
Stddev	.042519
%RSD	.8240497

#1	5.189852
#2	5.129721

Check ?	Chk Pass
Value	
Range	

Sample Name: LRC Acquired: 9/7/2022 14:57:37 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3360.527	1612.676	8460.776	7592.986
Stddev	20.526	19.058	58.584	22.525
%RSD	.6107856	1.181738	.6924214	.2966558
#1	3375.041	1626.152	8419.351	7608.914
#2	3346.013	1599.200	8502.201	7577.058

Sample Name: lcs 500-672812/2-a Acquired: 9/7/2022 15:01:09 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0203880	.9179244	.0458275	.4707701	.9655602	.0228414	.2236458
Stddev	.0000084	.0059912	.0001025	.0019786	.0027077	.0001866	.0007097
%RSD	.0413541	.6526947	.2235552	.4202839	.2804285	.8168668	.3173428
#1	.0203939	.9136879	.0457551	.4693710	.9636455	.0227095	.2231440
#2	.0203820	.9221608	.0458999	.4721691	.9674748	.0229734	.2241477

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	4.502728	.0237986	.0279696	.2409294	.0897616	.1231789	.4798751
Stddev	.136377	.0000386	.0044628	.0001407	.0013730	.0000878	.0403693
%RSD	3.028755	.1622225	15.95592	.0584153	1.529601	.0712881	8.412450
#1	4.406295	.0238259	.0248139	.2410289	.0887907	.1231168	.4513297
#2	4.599161	.0237713	.0311252	.2408299	.0907324	.1232410	.5084205

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.855095	.2373127	4.590536	.2233552	.4929708	4.955323	.2368761
Stddev	.029621	.0025226	.024070	.0040844	.0003540	.036291	.0009531
%RSD	.6101066	1.062969	.5243484	1.828643	.0718027	.7323661	.4023601
#1	4.876040	.2390964	4.573516	.2204671	.4927205	4.980984	.2375501
#2	4.834150	.2355290	4.607556	.2262433	.4932211	4.929661	.2362022

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: lcs 500-672812/2-a Acquired: 9/7/2022 15:01:09 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0454936	.2408795	.0446884	.5799564	.4776165	.4793698	.4792079
Stddev	.0007420	.0009107	.0006948	.0006348	.0021677	.0008455	.0021176
%RSD	1.631031	.3780878	1.554775	.1094582	.4538514	.1763761	.4418988

#1	.0460183	.2415235	.0451797	.5795075	.4791493	.4787720	.4777105
#2	.0449689	.2402355	.0441971	.5804052	.4760838	.4799677	.4807053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0467818	.2334315	.2304409
Stddev	.0017702	.0009868	.0007308
%RSD	3.783920	.4227215	.3171419

#1	.0455301	.2327337	.2309577
#2	.0480335	.2341292	.2299241

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.457	1596.664	8429.487	7455.797
Stddev	3.194	4.469	8.441	39.181
%RSD	.0948565	.2799111	.1001395	.5255042

#1	3369.716	1599.824	8435.456	7428.092
#2	3365.198	1593.504	8423.518	7483.502

Sample Name: Ics 500-672817/2-a Acquired: 9/7/2022 15:04:42 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0190522	.9349180	.0430862	.4400674	.9341111	.0210332	.2154045
Stddev	.0008998	.0095471	.0001666	.0032115	.0001355	.0002991	.0001167
%RSD	4.722722	1.021166	.3865650	.7297649	.0145038	1.421917	.0541665
#1	.0184160	.9416688	.0429684	.4377965	.9342069	.0208217	.2153220
#2	.0196885	.9281673	.0432040	.4423382	.9340153	.0212447	.2154870

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	4.365514	.0225464	.0229723	.2331849	.0842994	.1185091	.4973545
Stddev	.056599	.0000822	.0015846	.0002348	.0011723	.0015177	.0293367
%RSD	1.296494	.3647298	6.897786	.1006828	1.390593	1.280635	5.898554
#1	4.325493	.0224883	.0218518	.2333509	.0834704	.1195822	.4766103
#2	4.405535	.0226046	.0240928	.2330188	.0851283	.1174359	.5180987

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.765442	.2286717	4.479997	.2133938	.4699353	4.850855	.2276155
Stddev	.091985	.0037233	.016768	.0001654	.0015588	.095735	.0000907
%RSD	1.930254	1.628249	.3742937	.0775073	.3317138	1.973559	.0398363
#1	4.830485	.2313045	4.468140	.2132769	.4688330	4.918550	.2275513
#2	4.700398	.2260389	4.491854	.2135108	.4710375	4.783161	.2276796

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: lcs 500-672817/2-a Acquired: 9/7/2022 15:04:42 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442092	.2296745	.0435145	.3633424	.4589624	.4599561	.4617219
Stddev	.0013402	.0024159	.0017713	.0028447	.0012961	.0045030	.0016433
%RSD	3.031429	1.051857	4.070536	.7829255	.2823887	.9790028	.3559140

#1	.0432616	.2279662	.0447670	.3613308	.4598789	.4631402	.4628839
#2	.0451569	.2313827	.0422620	.3653539	.4580460	.4567720	.4605599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0445184	.2243478	.2229967
Stddev	.0007995	.0020002	.0007483
%RSD	1.795809	.8915472	.3355620

#1	.0450837	.2229335	.2235259
#2	.0439531	.2257621	.2224676

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3407.206	1624.427	8535.010	7559.561
Stddev	21.907	17.324	79.775	90.493
%RSD	.6429490	1.066470	.9346771	1.197067

#1	3422.697	1636.677	8478.600	7495.572
#2	3391.716	1612.177	8591.419	7623.549

Sample Name: CCV Acquired: 9/7/2022 15:07:53 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4694901	47.90955	.5160570	.5194639	.4811468	.4708824
Stddev	.0002296	.65107	.0016612	.0029134	.0066113	.0029270
%RSD	.0489080	1.358959	.3218991	.5608452	1.374079	.6215943

#1	.4696524	47.44917	.5148824	.5174038	.4764719	.4688127
#2	.4693277	48.36993	.5172316	.5215240	.4858218	.4729521

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5256087	23.88431	.5041102	F .1016046	.5236445	F .4459163
Stddev	.0039441	.10144	.0015724	.0022117	.0007437	.0029474
%RSD	.7503943	.4247285	.3119239	2.176781	.1420159	.6609767

#1	.5228198	23.81258	.5029984	.1000407	.5231187	.4438321
#2	.5283977	23.95605	.5052221	.1031685	.5241704	.4480004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value				.5000000		.5000000
Range				-10.0000%		-10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5075892	24.24155	49.29256	3.780263	24.10558	4.580499
Stddev	.0023720	.20863	.93493	.086429	.39046	.026159
%RSD	.4673051	.8606381	1.896706	2.286316	1.619770	.5710932

#1	.5092665	24.09402	48.63146	3.719149	23.82949	4.562002
#2	.5059120	24.38907	49.95365	3.841378	24.38168	4.598996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 15:07:53 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4984849	25.15029	.5201211	.5083536	.5057466	.5103297
Stddev	.0028684	.56856	.0004385	.0036786	.0050092	.0046730
%RSD	.5754265	2.260635	.0843119	.7236269	.9904636	.9156771

#1	.4964566	24.74826	.5198110	.5057524	.5022045	.5070254
#2	.5005132	25.55232	.5204312	.5109547	.5092886	.5136340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1068621	.5233129	.4829296	.4883965	.4920051	4.780426
Stddev	.0011787	.0012332	.0027482	.0008954	.0007519	.018539
%RSD	1.102961	.2356590	.5690737	.1833288	.1528281	.3878175

#1	.1060286	.5224408	.4848729	.4877634	.4925368	4.767317
#2	.1076955	.5241849	.4809863	.4890297	.4914734	4.793535

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5336141
Stddev	.0018195
%RSD	.3409717

#1	.5349007
#2	.5323275

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 15:07:53 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.874	1560.547	8140.381	7454.305
Stddev	20.081	14.135	22.597	32.246
%RSD	.6658296	.9058015	.2775914	.4325783
#1	3030.074	1570.542	8124.402	7477.106
#2	3001.675	1550.552	8156.359	7431.504

Sample Name: CCB Acquired: 9/7/2022 15:11:00 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003736	.0162674	-.003332	.0035015	.0001483	.0003391
Stddev	.0000097	.0016813	.001077	.0005377	.0000511	.0000323
%RSD	2.610838	10.33519	32.31618	15.35598	34.47399	9.522651

#1	.0003805	.0174563	-.002570	.0038817	.0001844	.0003163
#2	.0003667	.0150786	-.004093	.0031213	.0001121	.0003620

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000436	.0061846	.0001374	F .0076603	.0003730	-.000645
Stddev	.000275	.0029233	.0001085	.0060639	.0000095	.000656
%RSD	62.95170	47.26663	78.96270	79.15944	2.536178	101.8012

#1	-.000630	.0082516	.0000607	.0119481	.0003796	-.001109
#2	-.000242	.0041176	.0002141	.0033725	.0003663	-.000181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011725	.0171146	.0013632	.0013270	.0152803	.0011948
Stddev	.0000385	.0000896	.0033334	.0000010	.0114255	.0004764
%RSD	3.280460	.5236675	244.5184	.0721283	74.77276	39.87449

#1	.0011453	.0170513	-.000994	.0013263	.0233594	.0015317
#2	.0011997	.0171780	.003720	.0013277	.0072013	.0008579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/7/2022 15:11:00 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004335	-.024883	-.000023	-.000506	.0046893	-.000439
Stddev	.0000121	.000797	.000330	.000684	.0001005	.002569
%RSD	2.780230	3.204837	1463.300	135.0807	2.142346	584.7784

#1	.0004420	-.024319	.000211	-.000023	.0046183	.001377
#2	.0004250	-.025447	-.000256	-.000990	.0047604	-.002256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005284	-.000147	.0001008	.0008708	.0012627	.0012807
Stddev	.000012	.000756	.0000090	.0000715	.0001491	.0001378
%RSD	.2262452	515.3465	8.953862	8.206410	11.80962	10.76390

#1	-.005293	.000388	.0001072	.0008203	.0011573	.0013782
#2	-.005276	-.000681	.0000944	.0009213	.0013682	.0011832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000510
Stddev	.000052
%RSD	10.24297

#1	-.000473
#2	-.000547

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/7/2022 15:11:00 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3498.032	1579.825	8443.322	7479.573
Stddev	5.339	8.945	16.903	69.647
%RSD	.1526404	.5662192	.2001988	.9311632
#1	3494.256	1573.500	8455.275	7528.821
#2	3501.807	1586.151	8431.370	7430.325

Sample Name: CCV Acquired: 9/7/2022 15:14:16 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4832851	49.06018	.5277022	.5278638	.4937962	.4834932
Stddev	.0009832	.30560	.0013785	.0013446	.0017568	.0063788
%RSD	.2034350	.6229094	.2612317	.2547230	.3557817	1.319310

#1	.4825899	48.84408	.5286770	.5288146	.4925540	.4789828
#2	.4839803	49.27627	.5267274	.5269130	.4950385	.4880037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5314534	24.41907	.5122322	F .0937308	.5297947	.4579498
Stddev	.0001392	.39165	.0011394	.0097333	.0001058	.0000740
%RSD	.0261995	1.603884	.2224345	10.38431	.0199609	.0161615

#1	.5315518	24.14213	.5130378	.1006132	.5297199	.4580021
#2	.5313549	24.69601	.5114265	.0868483	.5298695	.4578975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5103120	24.66888	50.69820	3.965437	24.74329	4.684022
Stddev	.0027841	.23104	.03580	.000593	.19584	.065009
%RSD	.5455747	.9365567	.0706186	.0149599	.7914900	1.387888

#1	.5083433	24.50551	50.72351	3.965018	24.60481	4.638053
#2	.5122807	24.83225	50.67288	3.965857	24.88177	4.729990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 15:14:16 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5093942	26.04261	.5262364	.5126532	.5135052	.5142123
Stddev	.0006130	.01580	.0006893	.0035774	.0012839	.0013429
%RSD	.1203392	.0606767	.1309791	.6978260	.2500214	.2611589

#1	.5098277	26.05378	.5257490	.5151828	.5144131	.5132628
#2	.5089608	26.03143	.5267238	.5101236	.5125974	.5151619

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1079369	.5316977	.4950698	.4963150	.4971136	4.856086
Stddev	.0001507	.0008687	.0000583	.0023707	.0017114	.021168
%RSD	.1396589	.1633761	.0117691	.4776641	.3442615	.4359135

#1	.1080435	.5310835	.4950286	.4946387	.4959035	4.841118
#2	.1078303	.5323120	.4951110	.4979914	.4983237	4.871054

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5390740
Stddev	.0029933
%RSD	.5552652

#1	.5369575
#2	.5411906

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 15:14:16 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2987.685	1537.660	8084.707	7279.269
Stddev	17.530	11.753	28.954	42.570
%RSD	.5867429	.7643323	.3581305	.5848118
#1	2975.290	1529.350	8105.181	7249.168
#2	3000.081	1545.971	8064.234	7309.371

Sample Name: Ib 500-672841/1-b Acquired: 9/7/2022 15:23:00 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002858	.0308113	-.007504	.0082594	.0001313	.0003330	-.005668
Stddev	.0003489	.0078267	.001831	.0000299	.0000177	.0000790	.000539
%RSD	122.0975	25.40193	24.40272	.3615357	13.48155	23.73522	9.509514

#1	.0005325	.0363456	-.006209	.0082383	.0001188	.0003888	-.005287
#2	.0000391	.0252770	-.008799	.0082805	.0001438	.0002771	-.006049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0782140	.0003095	.0010527	-.000501	-.000938	.0021242	.0135945
Stddev	.0004959	.0000768	.0024917	.000046	.000350	.0001711	.0026775
%RSD	.6340188	24.80430	236.7039	9.194653	37.31532	8.053566	19.69535

#1	.0778633	.0003638	.0028146	-.000533	-.001186	.0022451	.0117012
#2	.0785646	.0002552	-.000709	-.000468	-.000691	.0020032	.0154878

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174730	.0000708	.0192125	-.000236	.0008743	.6690323	-.003324
Stddev	.0035271	.0000774	.0021938	.000202	.0000125	.0059803	.000607
%RSD	20.18618	109.3665	11.41879	85.57833	1.426840	.8938664	18.25692

#1	.0199670	.0000160	.0207638	-.000093	.0008831	.6648036	-.003753
#2	.0149789	.0001255	.0176612	-.000379	.0008655	.6732610	-.002895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: Ib 500-672841/1-b Acquired: 9/7/2022 15:23:00 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001170	.0017561	-.002998	.0268616	-.000413	.0001954	.0005514
Stddev	.000773	.0001227	.000112	.0005067	.000495	.0000050	.0000152
%RSD	66.12437	6.985729	3.739555	1.886320	119.9489	2.549126	2.760182

#1	-.000623	.0018428	-.003077	.0265033	-.000762	.0001919	.0005622
#2	-.001717	.0016693	-.002919	.0272199	-.000063	.0001989	.0005407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002404	.0000553	.0008033
Stddev	.001269	.0000389	.0002049
%RSD	52.77270	70.27245	25.50839

#1	-.003302	.0000828	.0009482
#2	-.001507	.0000278	.0006584

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3485.252	1574.522	8598.419	7496.552
Stddev	29.086	20.971	41.812	41.829
%RSD	.8345472	1.331889	.4862781	.5579756

#1	3505.819	1589.351	8627.984	7466.975
#2	3464.686	1559.694	8568.853	7526.129

Sample Name: Ics 500-673058/2-a Acquired: 9/7/2022 15:26:13 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0441141	1.922355	.0964452	.9307030	.4928555	.0449329	-.009465
Stddev	.0002450	.031332	.0013241	.0018433	.0021940	.0008368	.000172
%RSD	.5553982	1.629863	1.372886	.1980546	.4451711	1.862221	1.820015

#1	.0442874	1.900200	.0973815	.9293996	.4913041	.0443412	-.009586
#2	.0439409	1.944509	.0955089	.9320064	.4944069	.0455246	-.009343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.276445	.0493380	.0522005	.4865496	.1799369	.2502065	.9611998
Stddev	.121290	.0000968	.0030564	.0003835	.0000389	.0002016	.0671004
%RSD	1.307508	.1961188	5.855084	.0788208	.0215983	.0805679	6.980905

#1	9.190680	.0492696	.0500393	.4862784	.1799644	.2500639	.9137526
#2	9.362210	.0494064	.0543616	.4868208	.1799094	.2503490	1.008647

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.37231	.1033917	9.484135	.4596079	1.025208	11.27080	.4807126
Stddev	.09269	.0010219	.021376	.0059680	.000983	.10023	.0006798
%RSD	.8936382	.9884051	.2253855	1.298500	.0958349	.8892857	.1414055

#1	10.43785	.1041143	9.469020	.4553879	1.024513	11.34167	.4802319
#2	10.30677	.1026690	9.499250	.4638279	1.025902	11.19992	.4811932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-673058/2-a Acquired: 9/7/2022 15:26:13 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0943538	.4908734	.0931147	1.532623	.9377109	.9721391	.9650465
Stddev	.0011439	.0021251	.0009061	.011251	.0045857	.0253814	.0006933
%RSD	1.212358	.4329132	.9731097	.7341074	.4890332	2.610878	.0718373

#1	.0951626	.4893708	.0924740	1.524667	.9344683	.9900864	.9645562
#2	.0935449	.4923761	.0937554	1.540578	.9409535	.9541918	.9655367

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0926433	.4815296	.4697943
Stddev	.0003299	.0011576	.0011389
%RSD	.3561318	.2403914	.2424277

#1	.0924100	.4807111	.4689890
#2	.0928766	.4823481	.4705996

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3247.714	1527.921	8288.601	7345.385
Stddev	3.445	1.241	85.210	45.811
%RSD	.1060657	.0812316	1.028037	.6236734

#1	3245.279	1527.044	8228.348	7312.992
#2	3250.150	1528.799	8348.853	7377.778

Sample Name: 500-221414-f-1-e Acquired: 9/7/2022 15:29:21 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0027335	181.3651	.1020574	.0896236	1.052303	.0107726	.0280944
Stddev	.0002742	2.0626	.0009244	.0004945	.009502	.0001346	.0000857
%RSD	10.03245	1.137277	.9057529	.5517933	.9029332	1.249732	.3051168
#1	.0029274	179.9066	.1014038	.0892739	1.045584	.0106774	.0280338
#2	.0025396	182.8236	.1027111	.0899733	1.059022	.0108678	.0281550

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	43.19485	.0030252	.5050855	.0689603	.2249599	.2198834	251.0725
Stddev	.08177	.0000535	.0069210	.0002304	.0008134	.0008684	1.1769
%RSD	.1893080	1.768368	1.370270	.3340672	.3615563	.3949203	.4687304
#1	43.13702	.0029874	.5001916	.0691232	.2243847	.2204974	250.2403
#2	43.25267	.0030630	.5099795	.0687974	.2255350	.2192693	251.9046

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	14.28356	.1106766	23.63846	1.648541	.0137444	57.97196	.2339055
Stddev	.26830	.0020221	.19257	.009748	.0000467	1.13028	.0006438
%RSD	1.878375	1.827040	.8146546	.5912944	.3396896	1.949703	.2752550
#1	14.09385	.1092468	23.50229	1.641649	.0137774	57.17273	.2334503
#2	14.47328	.1121065	23.77462	1.655434	.0137113	58.77119	.2343608

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221414-f-1-e Acquired: 9/7/2022 15:29:21 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3209764	.0060192	.0038125	7.244528	.0148736	.1553852	.6936505
Stddev	.0018301	.0017464	.0023731	.015428	.0031455	.0001519	.0025510
%RSD	.5701713	29.01326	62.24724	.2129583	21.14801	.0977365	.3677618
#1	.3196823	.0072540	.0054905	7.233619	.0170977	.1554926	.6918467
#2	.3222705	.0047843	.0021344	7.255437	.0126494	.1552778	.6954543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0025032	.3862445	.8058866
Stddev	.0007464	.0014393	.0008664
%RSD	29.81546	.3726501	.1075135
#1	.0019755	.3852267	.8052740
#2	.0030310	.3872623	.8064993
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2749.252	1690.813	9099.215	8285.201
Stddev	3.437	.940	17.629	33.054
%RSD	.1250117	.0555881	.1937399	.3989475
#1	2751.682	1691.478	9086.750	8308.574
#2	2746.822	1690.149	9111.681	8261.829

Sample Name: 500-221414-f-2-e Acquired: 9/7/2022 15:32:27 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0023226	124.7491	.0864832	.1377733	.8328895	.0081845	.0216661
Stddev	.0004844	.8459	.0022067	.0000491	.0043389	.0002364	.0013175
%RSD	20.85602	.6780694	2.551636	.0356356	.5209424	2.887947	6.081016
#1	.0019801	124.1510	.0880436	.1378081	.8298214	.0080174	.0207345
#2	.0026652	125.3472	.0849228	.1377386	.8359575	.0083517	.0225977

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	36.88218	.0026881	.3678035	.0493825	.1728604	.1871973	204.0391
Stddev	.16427	.0002309	.0007341	.0004668	.0006073	.0010188	1.2880
%RSD	.4453975	8.589384	.1995868	.9453498	.3513022	.5442250	.6312403
#1	36.76602	.0028513	.3672844	.0490524	.1724310	.1864769	203.1283
#2	36.99833	.0025248	.3683225	.0497126	.1732898	.1879177	204.9498

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	12.15311	.0749946	20.64466	1.411277	.0122307	52.76813	.1769643
Stddev	.04329	.0003388	.12164	.005600	.0007003	.27912	.0009839
%RSD	.3561839	.4517420	.5892175	.3968326	5.725908	.5289483	.5559918
#1	12.18372	.0747551	20.55865	1.407317	.0127259	52.96550	.1762685
#2	12.12250	.0752342	20.73068	1.415237	.0117355	52.57077	.1776600

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221414-f-2-e Acquired: 9/7/2022 15:32:27 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2825778	.0037569	-.000518	7.933391	.0102548	.1458043	.8189447
Stddev	.0002086	.0002157	.000842	.016028	.0000567	.0004193	.0013507
%RSD	.0738342	5.741923	162.5299	.2020285	.5534276	.2875845	.1649284
#1	.2824303	.0039094	-.001113	7.944725	.0102146	.1455078	.8179896
#2	.2827253	.0036044	.000077	7.922058	.0102949	.1461008	.8198997

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0022097	.3250674	.7065702
Stddev	.0000905	.0003537	.0063093
%RSD	4.093497	.1088052	.8929499
#1	.0021458	.3248173	.7021088
#2	.0022737	.3253175	.7110315

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2831.526	1666.823	8929.533	8031.998
Stddev	13.227	13.257	53.524	37.812
%RSD	.4671170	.7953247	.5994008	.4707696
#1	2822.174	1657.449	8967.380	8005.261
#2	2840.879	1676.197	8891.686	8058.736

Sample Name: 500-221417-f-1-f Acquired: 9/7/2022 15:35:32 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0026265	211.1248	.0352420	.2213535	.9892704	.0079628	.0138383
Stddev	.0003414	2.4640	.0002968	.0002303	.0095681	.0001647	.0008820
%RSD	12.99683	1.167079	.8421870	.1040622	.9671912	2.068747	6.373394
#1	.0023851	209.3825	.0354519	.2211906	.9825047	.0080793	.0144620
#2	.0028678	212.8671	.0350321	.2215164	.9960361	.0078463	.0132147

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	22.67552	.0011054	.3947629	.0327301	.1939883	.1388673	172.1852
Stddev	.13275	.0002379	.0047640	.0000072	.0014227	.0003712	1.3054
%RSD	.5854391	21.51872	1.206801	.0218338	.7333949	.2672681	.7581657
#1	22.58165	.0009372	.3913943	.0327352	.1949943	.1386049	171.2621
#2	22.76939	.0012736	.3981316	.0327251	.1929822	.1391298	173.1083

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	16.55649	.0948577	25.41983	.7762684	.0049696	52.60396	.1310949
Stddev	.17182	.0012654	.23641	.0037891	.0005403	.55738	.0009701
%RSD	1.037805	1.333965	.9300378	.4881152	10.87196	1.059578	.7399773
#1	16.43499	.0939630	25.25266	.7735891	.0045876	52.20984	.1304089
#2	16.67798	.0957525	25.58700	.7789477	.0053516	52.99809	.1317808

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 500-221417-f-1-f Acquired: 9/7/2022 15:35:32 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0682174	-.001111	.0005920	7.899888	.0128039	.1287317	1.000650
Stddev	.0009287	.000305	.0011386	.006103	.0001276	.0000289	.003683
%RSD	1.361344	27.49648	192.3280	.0772513	.9964840	.0224528	.3680270
#1	.0688741	-.001326	.0013971	7.895572	.0127136	.1287521	1.003254
#2	.0675607	-.000895	-.000213	7.904203	.0128941	.1287112	.998046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0019318	.2944550	.3912664
Stddev	.0003249	.0028806	.0004037
%RSD	16.81933	.9782850	.1031728
#1	.0017020	.2964919	.3909810
#2	.0021615	.2924181	.3915519
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2790.846	1673.205	8922.866	8026.342
Stddev	.723	2.124	11.682	21.834
%RSD	.0258905	.1269634	.1309171	.2720309
#1	2791.357	1671.702	8931.126	8041.781
#2	2790.335	1674.707	8914.605	8010.903

Sample Name: 500-221417-f-2-f Acquired: 9/7/2022 15:38:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0007217	42.74336	.0019367	.0510876	.2048203	.0027551	-.007079
Stddev	.0009478	.20791	.0048744	.0000345	.0014320	.0000378	.000492
%RSD	131.3277	.4864100	251.6896	.0675589	.6991612	1.371198	6.943870
#1	.0000515	42.59634	-.001510	.0511120	.2038077	.0027284	-.007426
#2	.0013918	42.89037	.005383	.0510632	.2058329	.0027818	-.006731

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	5.245592	.0008309	.0913828	.0091276	.0521311	.0420204	49.97169
Stddev	.060391	.0000982	.0055740	.0000593	.0004324	.0001551	.58582
%RSD	1.151262	11.81683	6.099558	.6496159	.8293673	.3689910	1.172311
#1	5.202890	.0009003	.0874415	.0091695	.0518254	.0421300	49.55745
#2	5.288295	.0007614	.0953242	.0090857	.0524369	.0419107	50.38593

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	9.234754	.0486707	9.770669	.2118890	.0014209	3.209650	.0475838
Stddev	.072592	.0006329	.076757	.0019025	.0001404	.026864	.0011501
%RSD	.7860792	1.300416	.7855887	.8978785	9.877798	.8369895	2.416932
#1	9.286085	.0491182	9.716394	.2105438	.0015201	3.228646	.0467705
#2	9.183424	.0482231	9.824945	.2132343	.0013217	3.190654	.0483970

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221417-f-2-f Acquired: 9/7/2022 15:38:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232031	.0012361	-.000610	17.61620	.0019960	.0293617	.4520833
Stddev	.0001137	.0006851	.001639	.10224	.0003914	.0000380	.0020008
%RSD	.4900544	55.42680	268.7677	.5803911	19.60709	.1293273	.4425785
#1	.0231227	.0017205	.000549	17.54391	.0022727	.0293885	.4506685
#2	.0232835	.0007516	-.001768	17.68850	.0017193	.0293348	.4534981

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0014768	.0731865	.0893357
Stddev	.0008028	.0009042	.0000628
%RSD	54.36305	1.235478	.0703249
#1	.0009091	.0738259	.0892913
#2	.0020445	.0725472	.0893801

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3126.691	1571.709	8522.117	7635.202
Stddev	8.070	4.066	23.355	34.512
%RSD	.2581117	.2587031	.2740563	.4520127
#1	3132.397	1574.584	8505.602	7610.799
#2	3120.984	1568.834	8538.631	7659.606

Sample Name: 500-221417-f-3-f Acquired: 9/7/2022 15:41:48 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0021551	215.0572	.0477191	.1126845	.9805971	.0077174	.0209964
Stddev	.0001656	2.2742	.0011857	.0008797	.0089490	.0003619	.0007769
%RSD	7.682846	1.057493	2.484680	.7806781	.9126025	4.689881	3.700401
#1	.0020381	213.4491	.0468807	.1120624	.9742692	.0074614	.0215458
#2	.0022722	216.6653	.0485575	.1133065	.9869249	.0079733	.0204470

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	15.52290	.0013419	.4303122	.0332060	.1819843	.1519118	207.9079
Stddev	.08289	.0002248	.0079838	.0001157	.0010302	.0006432	.4113
%RSD	.5339938	16.75100	1.855344	.3483822	.5660848	.4233867	.1978454
#1	15.58151	.0015009	.4246668	.0332878	.1827127	.1514570	207.6170
#2	15.46429	.0011830	.4359576	.0331242	.1812558	.1523666	208.1987

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	24.78212	.0742366	24.91080	1.301706	.0047774	95.47011	.1530624
Stddev	.36868	.0009807	.08997	.003202	.0003409	1.79544	.0008264
%RSD	1.487689	1.321084	.3611699	.2459921	7.135793	1.880630	.5399267
#1	24.52143	.0735431	24.84718	1.303970	.0045364	94.20055	.1536468
#2	25.04282	.0749300	24.97441	1.299442	.0050185	96.73968	.1524780

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 500-221417-f-3-f Acquired: 9/7/2022 15:41:48 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0573788	.0001146	.0023464	5.706959	.0114042	.0941036	1.046633
Stddev	.0008266	.0004826	.0016833	.020988	.0026713	.0000647	.001942
%RSD	1.440649	421.1321	71.73875	.3677645	23.42336	.0687414	.1855343
#1	.0567943	-.000227	.0011562	5.692118	.0132931	.0940579	1.045260
#2	.0579633	.000456	.0035367	5.721800	.0095153	.0941494	1.048007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0016324	.3259613	.5473458
Stddev	.0030702	.0020135	.0015644
%RSD	188.0827	.6177156	.2858218
#1	.0038033	.3273851	.5484520
#2	-.000539	.3245376	.5462396
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2777.736	1643.001	8666.814	7792.093
Stddev	18.015	16.659	6.460	9.351
%RSD	.6485339	1.013922	.0745372	.1200098
#1	2790.474	1654.780	8671.382	7798.706
#2	2764.997	1631.221	8662.246	7785.481

Sample Name: 500-221417-f-4-f Acquired: 9/7/2022 15:45:00 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029800	178.5221	.0540390	.1116681	1.315542	.0081829	.0221820
Stddev	.0000497	.1222	.0014228	.0000836	.001847	.0002351	.0010817
%RSD	1.667211	.0684786	2.632920	.0748853	.1404016	2.873334	4.876426
#1	.0030151	178.6086	.0550451	.1117272	1.316848	.0080167	.0229469
#2	.0029448	178.4357	.0530330	.1116090	1.314236	.0083492	.0214171

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.07336	.0012190	.4430604	.0274772	.1780555	.1525632	194.1011
Stddev	.55055	.0000578	.0028419	.0002947	.0023475	.0004582	2.5185
%RSD	1.893645	4.744425	.6414166	1.072612	1.318391	.3003151	1.297498
#1	28.68407	.0011781	.4410509	.0276856	.1797154	.1522392	192.3203
#2	29.46266	.0012599	.4450699	.0272688	.1763956	.1528872	195.8820

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.32820	.0744197	27.42012	.7884875	.0032171	33.55146	.1711615
Stddev	.27352	.0014197	.13195	.0094597	.0000631	.71281	.0021867
%RSD	2.052168	1.907655	.4812024	1.199728	1.960088	2.124522	1.277558
#1	13.52161	.0754236	27.32682	.7817985	.0031726	34.05549	.1696153
#2	13.13480	.0734159	27.51342	.7951766	.0032617	33.04742	.1727078

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221417-f-4-f Acquired: 9/7/2022 15:45:00 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514361	.0004054	.0022580	5.332901	.0108517	.1553677	.8039677
Stddev	.0013234	.0008641	.0033972	.009419	.0011080	.0001214	.0009446
%RSD	2.572985	213.1190	150.4518	.1766130	10.21006	.0781209	.1174898
#1	.0523720	-.000206	-.000144	5.326241	.0116351	.1552819	.8046356
#2	.0505003	.001016	.004660	5.339561	.0100682	.1554536	.8032998

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0022274	.3253281	.5448932
Stddev	.0029531	.0008821	.0008413
%RSD	132.5820	.2711560	.1543920
#1	.0043155	.3259519	.5442984
#2	.0001392	.3247044	.5454881

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2817.669	1722.780	9229.620	8311.299
Stddev	10.235	7.118	44.748	89.675
%RSD	.3632361	.4131677	.4848254	1.078948
#1	2824.906	1727.813	9261.261	8247.890
#2	2810.431	1717.747	9197.978	8374.709

Sample Name: CCV Acquired: 9/7/2022 15:48:08 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4877200	49.61948	.5374379	.5387326	.4997612	.4857274
Stddev	.0005766	.54272	.0064053	.0052213	.0043779	.0037352
%RSD	.1182150	1.093764	1.191830	.9691814	.8760044	.7689860

#1	.4881277	49.23572	.5329087	.5350406	.4966655	.4830862
#2	.4873123	50.00324	.5419672	.5424246	.5028569	.4883686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5361675	25.00831	.5213490	F .1028582	.5307601	.4631508
Stddev	.0031017	.11202	.0016654	.0119511	.0013112	.0007166
%RSD	.5784950	.4479460	.3194421	11.61898	.2470352	.1547203

#1	.5339742	24.92910	.5201714	.0944075	.5298329	.4636575
#2	.5383607	25.08752	.5225266	.1113089	.5316872	.4626441

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5146722	24.76958	51.34022	4.003477	25.08346	4.724582
Stddev	.0003955	.12020	.28186	.043426	.21613	.035128
%RSD	.0768396	.4852928	.5490109	1.084705	.8616621	.7435065

#1	.5149519	24.68458	51.14092	3.972771	24.93063	4.699743
#2	.5143926	24.85457	51.53953	4.034184	25.23629	4.749421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 15:48:08 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5208542	26.46129	.5278462	.5175067	.5180893	.5148169
Stddev	.0032467	.21374	.0025615	.0027995	.0070333	.0012601
%RSD	.6233439	.8077472	.4852756	.5409599	1.357552	.2447708

#1	.5185585	26.31015	.5260349	.5155272	.5131160	.5157079
#2	.5231500	26.61243	.5296574	.5194862	.5230626	.5139258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1788422	.5370368	.5025108	.5038836	.5000538	4.873271
Stddev	.0045293	.0010240	.0040941	.0015799	.0004577	.002970
%RSD	2.532573	.1906825	.8147345	.3135338	.0915251	.0609439

#1	.1820449	.5377609	.5054058	.5027664	.4997302	4.871171
#2	.1756395	.5363127	.4996158	.5050007	.5003774	4.875371

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5421298
Stddev	.0011544
%RSD	.2129306

#1	.5429460
#2	.5413135

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 15:48:08 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2960.035	1504.497	8003.802	7266.164
Stddev	25.276	16.243	14.379	9.422
%RSD	.8539125	1.079624	.1796479	.1296663
#1	2977.908	1515.982	7993.635	7272.827
#2	2942.162	1493.011	8013.969	7259.502

Sample Name: CCB Acquired: 9/7/2022 15:51:14 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	-.000007	.0179616	-.001628	.0022550	.0001552	.0002820	.0006171
Stddev	.000077	.0065261	.000317	.0001861	.0000281	.0002761	.0002420
%RSD	1086.428	36.33359	19.50143	8.253941	18.10779	97.90570	39.21946

#1	.000047	.0133470	-.001403	.0023866	.0001751	.0004772	.0007882
#2	-.000061	.0225763	-.001852	.0021234	.0001353	.0000868	.0004459

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0047739	.0001014	.0029310	.0000791	-.000233	.0015337	.0276548
Stddev	.0052311	.0000228	.0010040	.0002733	.001097	.0001223	.0010008
%RSD	109.5758	22.50824	34.25431	345.3225	471.1163	7.977578	3.619030

#1	.0084728	.0001176	.0022211	.0002723	.000543	.0016202	.0269471
#2	.0010750	.0000853	.0036410	-.000114	-.001009	.0014472	.0283625

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.004459	.0011390	-.001871	.0011144	.0003595	-.035619	-.000724
Stddev	.004869	.0001829	.010395	.0008054	.0001420	.000388	.000195
%RSD	109.2115	16.05405	555.5039	72.26956	39.48221	1.088667	26.94793

#1	-.007902	.0012683	.005479	.0016840	.0002592	-.035344	-.000862
#2	-.001015	.0010097	-.009221	.0005449	.0004599	-.035893	-.000586

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: CCB Acquired: 9/7/2022 15:51:14 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003462	.0026705	.0015678	.0267764	-.000183	.0000861	.0009952
Stddev	.0011797	.0007304	.0003529	.0000711	.000063	.0000012	.0003041
%RSD	340.7568	27.35077	22.50760	.2654334	34.46590	1.337657	30.55732
#1	.0011804	.0031870	.0013183	.0267262	-.000228	.0000869	.0007801
#2	-.000488	.0021540	.0018173	.0268267	-.000138	.0000853	.0012102

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0011644	.0010817	-.000240
Stddev	.0016132	.0002880	.000014
%RSD	138.5362	26.62402	5.934199
#1	.0023051	.0012854	-.000250
#2	.0000238	.0008781	-.000230

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3493.707	1556.958	8414.584	7452.438
Stddev	33.771	26.580	38.780	11.065
%RSD	.9666109	1.707193	.4608623	.1484687
#1	3517.586	1575.753	8387.163	7444.614
#2	3469.828	1538.163	8442.005	7460.262

Sample Name: 500-221417-f-5-f Acquired: 9/7/2022 15:54:31 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0017540	94.37425	.0387711	.1177587	.5973800	.0058110	.0057267
Stddev	.0001855	1.26795	.0032808	.0014614	.0082283	.0000799	.0004931
%RSD	10.57652	1.343537	8.462032	1.241038	1.377392	1.375384	8.610629
#1	.0016228	93.47768	.0364512	.1167253	.5915617	.0057545	.0053780
#2	.0018851	95.27083	.0410910	.1187921	.6031982	.0058675	.0060753

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	23.05787	.0012805	.2094936	.0210135	.1215386	.1195416	132.7536
Stddev	.27859	.0000678	.0028512	.0000874	.0012440	.0002129	.7597
%RSD	1.208231	5.293554	1.360980	.4160784	1.023532	.1781026	.5722536
#1	23.25486	.0013285	.2115097	.0209516	.1224182	.1196921	133.2908
#2	22.86088	.0012326	.2074776	.0210753	.1206590	.1193910	132.2164

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	16.12254	.1009984	23.69746	.4874798	.0041566	22.37165	.0761604
Stddev	.36642	.0026231	.10157	.0017474	.0001487	.57110	.0004771
%RSD	2.272736	2.597147	.4285941	.3584616	3.577457	2.552775	.6263768
#1	15.86344	.0991436	23.62564	.4887154	.0040515	21.96782	.0758231
#2	16.38164	.1028532	23.76928	.4862442	.0042618	22.77548	.0764978

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221417-f-5-f Acquired: 9/7/2022 15:54:31 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0516234	.0050521	.0001370	10.76735	.0058994	.0674324	.8195416
Stddev	.0004189	.0003759	.0037118	.06707	.0015301	.0001765	.0016814
%RSD	.8115269	7.440903	2710.152	.6228629	25.93666	.2617101	.2051585
#1	.0513272	.0047862	-.002488	10.71993	.0048174	.0675572	.8207305
#2	.0519196	.0053179	.002762	10.81478	.0069813	.0673077	.8183527

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0036420	.1803096	.2777757
Stddev	.0003162	.0000353	.0002844
%RSD	8.680832	.0195723	.1023816
#1	.0038656	.1803346	.2775746
#2	.0034184	.1802847	.2779767

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2913.259	1566.935	8427.028	7619.466
Stddev	21.262	17.781	43.420	2.649
%RSD	.7298447	1.134762	.5152474	.0347623
#1	2928.294	1579.508	8396.326	7621.339
#2	2898.225	1554.362	8457.731	7617.593

Sample Name: 500-221417-f-6-f Acquired: 9/7/2022 15:57:39 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0007935	92.27395	.0127608	.1375896	.5353503	.0052226	.0027835
Stddev	.0002524	.92443	.0011987	.0005734	.0028743	.0000116	.0012224
%RSD	31.80598	1.001833	9.393918	.4167790	.5369103	.2215430	43.91662
#1	.0006150	91.62028	.0136084	.1371841	.5333178	.0052144	.0036478
#2	.0009719	92.92762	.0119131	.1379951	.5373827	.0052308	.0019191

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	26.65560	.0010470	.1980031	.0208988	.1035464	.1054294	106.6265
Stddev	.20496	.0000251	.0021946	.0000923	.0000715	.0001685	1.0243
%RSD	.7689229	2.401191	1.108369	.4417570	.0690740	.1598276	.9606845
#1	26.51067	.0010648	.1964513	.0208335	.1034958	.1055486	105.9022
#2	26.80053	.0010292	.1995550	.0209641	.1035969	.1053102	107.3508

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	19.16876	.0960175	24.26174	.4075747	.0024020	20.48516	.0729200
Stddev	.10765	.0012666	.24969	.0043417	.0000154	.11311	.0009101
%RSD	.5615871	1.319110	1.029157	1.065250	.6430672	.5521780	1.248081
#1	19.09264	.0951219	24.08518	.4045047	.0023911	20.40518	.0722764
#2	19.24488	.0969131	24.43830	.4106448	.0024129	20.56514	.0735635

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221417-f-6-f Acquired: 9/7/2022 15:57:39 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527711	-.001057	.0007235	11.53028	.0053833	.0679804	.6155107
Stddev	.0000804	.000706	.0007569	.03644	.0009943	.0000114	.0003007
%RSD	.1523618	66.77950	104.6142	.3160520	18.47071	.0167753	.0488526
#1	.0527142	-.000558	.0001883	11.50452	.0046802	.0679885	.6157233
#2	.0528279	-.001555	.0012587	11.55605	.0060864	.0679724	.6152980

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0017486	.1487340	.2469255
Stddev	.0003804	.0003939	.0004420
%RSD	21.75263	.2648068	.1790140
#1	.0014796	.1490125	.2472380
#2	.0020175	.1484555	.2466129

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2936.784	1561.710	8400.698	7631.033
Stddev	14.154	9.096	17.787	2.215
%RSD	.4819454	.5824615	.2117277	.0290238
#1	2946.792	1568.142	8413.275	7632.599
#2	2926.776	1555.278	8388.121	7629.467

Sample Name: mb 500-673049/1-a Acquired: 9/7/2022 16:01:04 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008899	.0292474	-.006160	.0000188	.0002179	.0002637	-.004735
Stddev	.0005011	.0030746	.001817	.0002386	.0000403	.0000480	.000618
%RSD	56.30913	10.51228	29.50066	1268.622	18.51931	18.21371	13.05045

#1	.0005356	.0270733	-.007445	.0001876	.0001893	.0002977	-.005172
#2	.0012442	.0314214	-.004875	-.000150	.0002464	.0002298	-.004298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107297	.0003483	.0076194	-.000382	.0005047	.0012222	.0083164
Stddev	.0029467	.0000928	.0042495	.000026	.0001734	.0000284	.0058770
%RSD	27.46321	26.62663	55.77155	6.827263	34.36641	2.319735	70.66755

#1	.0128133	.0004139	.0046146	-.000364	.0003820	.0012021	.0124721
#2	.0086460	.0002827	.0106243	-.000401	.0006273	.0012422	.0041607

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013211	.0002102	.0017878	.0003609	.0007736	-.033806	-.002968
Stddev	.001375	.0003454	.0328025	.0003376	.0000415	.000620	.000366
%RSD	10.40783	164.3128	1834.776	93.53841	5.363279	1.833412	12.31766

#1	-.014183	-.000034	-.021407	.0001222	.0008029	-.033368	-.002709
#2	-.012238	.000454	.024983	.0005996	.0007443	-.034245	-.003226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-673049/1-a Acquired: 9/7/2022 16:01:04 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001159	.0022233	-.003852	.0699459	.0095200	.0000112	.0013721
Stddev	.000972	.0008936	.001824	.0069231	.0002698	.0000028	.0002462
%RSD	83.80178	40.19344	47.33441	9.897768	2.834018	25.50710	17.94649

#1	-.000472	.0015914	-.002563	.0748413	.0097108	.0000132	.0015462
#2	-.001846	.0028552	-.005142	.0650506	.0093292	.0000092	.0011979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002153	-.000164	.0001629
Stddev	.001595	.000382	.0000150
%RSD	74.09089	232.2515	9.194160

#1	-.001025	-.000434	.0001523
#2	-.003281	.000106	.0001735

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.132	1593.007	8650.388	7476.294
Stddev	21.413	24.425	31.865	43.376
%RSD	.6076239	1.533268	.3683689	.5801801

#1	3508.990	1575.736	8627.855	7445.622
#2	3539.274	1610.278	8672.920	7506.965

Sample Name: lcs 500-673049/2-a Acquired: 9/7/2022 16:04:36 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0393871	1.839822	.0917679	.9132653	1.948946	.0426275	.4440124
Stddev	.0009566	.018745	.0007412	.0001006	.008594	.0005523	.0000520
%RSD	2.428753	1.018850	.8077258	.0110108	.4409668	1.295692	.0116997

#1	.0400635	1.826567	.0912438	.9133364	1.942869	.0422370	.4439757
#2	.0387106	1.853076	.0922921	.9131942	1.955023	.0430181	.4440491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.056357	.0469614	.0466286	.4823997	.1769677	.2420924	.9240671
Stddev	.130003	.0000865	.0004146	.0021510	.0015040	.0016114	.0667764
%RSD	1.435492	.1842261	.8891024	.4459047	.8498467	.6655998	7.226355

#1	8.964431	.0470225	.0469217	.4808787	.1759042	.2432318	.8768491
#2	9.148283	.0469002	.0463355	.4839207	.1780311	.2409530	.9712851

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.866624	.4785894	9.153397	.4414295	1.013752	10.19709	.4731673
Stddev	.073068	.0039758	.077230	.0050019	.000338	.09191	.0007150
%RSD	.7405609	.8307370	.8437353	1.133117	.0333118	.9013774	.1511160

#1	9.918291	.4814007	9.098787	.4378926	1.013991	10.26208	.4726617
#2	9.814957	.4757781	9.208007	.4449664	1.013514	10.13210	.4736729

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-673049/2-a Acquired: 9/7/2022 16:04:36 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0901659	.4802641	.0876758	1.348960	.9536262	.9397062	.9554217
Stddev	.0013954	.0010292	.0002643	.003028	.0042978	.0102522	.0003124
%RSD	1.547562	.2143024	.3014135	.2244547	.4506815	1.090998	.0326943

#1	.0891792	.4795364	.0878626	1.351101	.9505872	.9469556	.9552008
#2	.0911525	.4809919	.0874889	1.346819	.9566653	.9324569	.9556425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0913159	.4639855	.4657715
Stddev	.0001902	.0018612	.0022420
%RSD	.2082981	.4011367	.4813507

#1	.0911814	.4626694	.4641861
#2	.0914504	.4653016	.4673568

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3275.018	1555.316	8303.126	7303.548
Stddev	2.979	6.408	47.959	36.518
%RSD	.0909530	.4120109	.5776048	.4999990

#1	3272.912	1550.784	8269.213	7277.726
#2	3277.124	1559.847	8337.038	7329.370

Sample Name: 500-221520-f-1-a Acquired: 9/7/2022 16:07:45 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0030395	91.91060	.0533956	.1065696	.5343692	.0066292	.0150079
Stddev	.0002190	.70566	.0056477	.0004447	.0032846	.0001744	.0000520
%RSD	7.203629	.7677717	10.57712	.4172541	.6146670	2.629982	.3466345
#1	.0028847	91.41162	.0494021	.1062551	.5320466	.0065059	.0150447
#2	.0031943	92.40958	.0573891	.1068840	.5366918	.0067525	.0149711

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	484.6497	.0034154	.4425237	.0905184	.1755270	.2086250	163.2019
Stddev	13.2244	.0000659	.0095516	.0008237	.0021421	.0006251	1.2253
%RSD	2.728655	1.929171	2.158446	.9099453	1.220402	.2996063	.7507702
#1	475.2986	.0033689	.4357697	.0899360	.1770418	.2081830	162.3355
#2	494.0008	.0034620	.4492778	.0911008	.1740123	.2090670	164.0683

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	22.14309	.1796677	272.0815	3.607591	.0183022	5.413987	.2690894
Stddev	.20294	.0019770	1.2600	.016240	.0003039	.052934	.0005214
%RSD	.9164896	1.100383	.4631090	.4501615	1.660219	.9777202	.1937624
#1	21.99959	.1782698	271.1905	3.596108	.0185170	5.376557	.2687207
#2	22.28659	.1810657	272.9724	3.619074	.0180873	5.451417	.2694581

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221520-f-1-a Acquired: 9/7/2022 16:07:45 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1000546	.0009017	.0062049	3.608156	.0162472	.2663067	1.470531
Stddev	.0028500	.0021767	.0036590	.002913	.0008339	.0001251	.002654
%RSD	2.848483	241.4054	58.96961	.0807239	5.132574	.0469683	.1805067
#1	.0980393	-.000637	.0087922	3.606096	.0168368	.2663952	1.472408
#2	.1020698	.002441	.0036176	3.610215	.0156575	.2662183	1.468654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0054858	.1885075	.5129773
Stddev	.0018862	.0008130	.0034609
%RSD	34.38240	.4312682	.6746773
#1	.0041521	.1879327	.5105300
#2	.0068196	.1890824	.5154245
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2468.996	1510.491	8086.437	7432.589
Stddev	5.728	.552	.890	4.126
%RSD	.2319794	.0365714	.0110066	.0555099
#1	2473.046	1510.101	8087.066	7429.672
#2	2464.946	1510.882	8085.807	7435.507

Sample Name: 500-221520-f-1-aSD@5 Acquired: 9/7/2022 16:10:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0002297	19.19685	.0089743	.0274102	.1161696	.0015293	.0021619
Stddev	.0002074	.14783	.0017966	.0006658	.0008958	.0000819	.0003921
%RSD	90.32107	.7700968	20.01948	2.429217	.7711023	5.353697	18.13883

#1	.0003764	19.09231	.0102447	.0269394	.1155361	.0015872	.0024392
#2	.0000830	19.30138	.0077039	.0278810	.1168030	.0014714	.0018846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	109.9054	.0010064	.1000885	.0179065	.0317630	.0445340	36.33932
Stddev	.8467	.0002829	.0003621	.0001191	.0013731	.0002770	.22286
%RSD	.7704019	28.10521	.3617817	.6650013	4.323074	.6220570	.6132828

#1	109.3067	.0008064	.0998324	.0179907	.0327340	.0443381	36.18174
#2	110.5041	.0012064	.1003445	.0178223	.0307921	.0447299	36.49691

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.713074	.0376918	59.44700	.8059451	.0038640	1.115860	.0495107
Stddev	.004264	.0001633	.37471	.0069735	.0000145	.001363	.0014290
%RSD	.0904794	.4333265	.6303288	.8652616	.3753277	.1221919	2.886267

#1	4.716090	.0375764	59.18204	.8010141	.0038742	1.116824	.0505211
#2	4.710059	.0378073	59.71197	.8108762	.0038537	1.114896	.0485002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221520-f-1-aSD@5 Acquired: 9/7/2022 16:10:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214711	-.000631	.0021513	.8218814	.0039855	.0599539	.3378573
Stddev	.0012157	.000706	.0003226	.0072553	.0012257	.0001038	.0004933
%RSD	5.662023	111.8468	14.99319	.8827611	30.75453	.1731408	.1459951
#1	.0223308	-.001130	.0023794	.8167512	.0048523	.0598805	.3375085
#2	.0206115	-.000132	.0019233	.8270117	.0031188	.0600274	.3382061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0015280	.0425930	.1027875
Stddev	.0001907	.0007232	.0013150
%RSD	12.47871	1.697889	1.279373
#1	.0013931	.0431044	.1037174
#2	.0016628	.0420817	.1018576
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2959.112	1514.319	8180.067	7356.375
Stddev	25.352	24.696	28.772	10.478
%RSD	.8567569	1.630837	.3517282	.1424303
#1	2977.039	1531.782	8200.412	7348.966
#2	2941.185	1496.857	8159.723	7363.784

Sample Name: 500-221520-f-1-b du Acquired: 9/7/2022 16:14:05 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032276	103.8107	.0649837	.1123092	.6212653	.0077287	.0178154
Stddev	.0006429	.2262	.0011642	.0011833	.0023336	.0000785	.0005522
%RSD	19.91844	.2178698	1.791459	1.053591	.3756173	1.015165	3.099648

#1	.0027730	103.9706	.0658069	.1114725	.6229154	.0077842	.0174250
#2	.0036822	103.6507	.0641605	.1131459	.6196152	.0076733	.0182059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	393.4241	.0032073	.5011133	.1191887	.1540732	.2453143	186.8490
Stddev	2.2708	.0001159	.0007483	.0003806	.0005581	.0018921	2.4617
%RSD	.5771875	3.614165	.1493233	.3193047	.3622493	.7712995	1.317473

#1	391.8184	.0032892	.5016424	.1189196	.1536785	.2466522	185.1083
#2	395.0298	.0031253	.5005842	.1194578	.1544678	.2439764	188.5896

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.11434	.1871256	227.7808	5.134874	.0208538	5.211298	.3008423
Stddev	.50801	.0045106	.7475	.063239	.0005204	.114648	.0001569
%RSD	2.106679	2.410438	.3281841	1.231554	2.495660	2.199995	.0521594

#1	24.47356	.1903150	227.2522	5.090158	.0204858	5.292367	.3007314
#2	23.75513	.1839361	228.3094	5.179591	.0212218	5.130230	.3009533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221520-f-1-b du Acquired: 9/7/2022 16:14:05 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1218055	-.000769	.0027849	3.940285	.0208496	.2438990	1.629182
Stddev	.0022536	.000009	.0035612	.006754	.0016442	.0008011	.002158
%RSD	1.850133	1.181630	127.8788	.1714083	7.885988	.3284653	.1324325

#1	.1202120	-.000775	.0053030	3.935510	.0196869	.2444655	1.627656
#2	.1233990	-.000762	.0002667	3.945061	.0220122	.2433325	1.630708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000625	.2199137	.5598615
Stddev	.000915	.0010894	.0030215
%RSD	146.3241	.4953749	.5396944

#1	-.001273	.2191434	.5577249
#2	.000022	.2206840	.5619980

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.114	1533.582	8284.540	7557.739
Stddev	7.955	6.778	36.046	80.478
%RSD	.3172836	.4419401	.4351030	1.064842

#1	2501.489	1528.790	8259.051	7500.833
#2	2512.739	1538.374	8310.029	7614.646

Sample Name: 500-221520-f-1-c.ms Acquired: 9/7/2022 16:17:14 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0393477	160.4740	.1667692	.8909009	2.486217	.0484793	.5122889
Stddev	.0015129	1.4623	.0005489	.0016154	.045213	.0001494	.0004259
%RSD	3.845021	.9112170	.3291646	.1813176	1.818529	.3081333	.0831359

#1	.0382779	159.4400	.1663811	.8897587	2.454247	.0483737	.5125900
#2	.0404175	161.5080	.1671574	.8920431	2.518187	.0485850	.5119877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.93163	.0446031	.6872145	.6433220	.3749704	.4605288	235.4892
Stddev	.45229	.0001301	.0008346	.0021166	.0005803	.0002720	.8774
%RSD	.9637151	.2916948	.1214471	.3290139	.1547541	.0590560	.3725902

#1	47.25145	.0446951	.6866243	.6418254	.3753807	.4607212	236.1096
#2	46.61182	.0445111	.6878046	.6448187	.3745600	.4603365	234.8688

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.34429	.6310157	72.46295	7.650257	.7959277	13.16721	.8650607
Stddev	.42336	.0079260	.06134	.034674	.0013059	.15898	.0046488
%RSD	.9767473	1.256072	.0846514	.4532454	.1640722	1.207384	.5373994

#1	43.04493	.6254112	72.50632	7.674776	.7950043	13.05479	.8617735
#2	43.64366	.6366203	72.41957	7.625739	.7968511	13.27962	.8683479

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221520-f-1-c.ms Acquired: 9/7/2022 16:17:14 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2358022	.1557001	.0725202	2.781214	.9291336	.9236586	2.829192
Stddev	.0024922	.0031471	.0016482	.003759	.0042971	.0123925	.001015
%RSD	1.056897	2.021227	2.272781	.1351557	.4624902	1.341680	.0358699

#1	.2340400	.1534748	.0713547	2.778556	.9260950	.9148958	2.829910
#2	.2375645	.1579254	.0736856	2.783872	.9321721	.9324214	2.828475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0815979	.7038509	1.203396
Stddev	.0007410	.0021629	.004630
%RSD	.9081022	.3072993	.3847495

#1	.0821218	.7053803	1.200122
#2	.0810739	.7023214	1.206670

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2798.428	1708.411	9045.681	8063.169
Stddev	2.368	4.713	16.028	11.032
%RSD	.0846191	.2758856	.1771862	.1368138

#1	2796.753	1705.078	9034.347	8070.969
#2	2800.102	1711.743	9057.014	8055.368

Sample Name: 500-221520-f-1-d msd Acquired: 9/7/2022 16:20:26 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0406773	168.0873	.1697837	.8766380	3.015650	.0484461	.5106143
Stddev	.0004821	1.1807	.0006733	.0031134	.035746	.0001758	.0035841
%RSD	1.185150	.7024246	.3965450	.3551539	1.185358	.3628547	.7019185
#1	.0410182	167.2524	.1702598	.8744365	2.990374	.0483218	.5080800
#2	.0403364	168.9222	.1693076	.8788395	3.040927	.0485704	.5131487

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	43.43271	.0464777	.7924182	.7059724	.3788072	.4492970	240.3974
Stddev	.21886	.0002183	.0008209	.0002963	.0003198	.0009191	1.2708
%RSD	.5039130	.4696508	.1035950	.0419656	.0844221	.2045560	.5286254
#1	43.27795	.0463233	.7929987	.7057629	.3790334	.4499468	239.4988
#2	43.58747	.0466320	.7918378	.7061818	.3785811	.4486471	241.2960

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	42.80613	.6134261	67.80657	16.45613	.8051134	13.11739	.9809151
Stddev	.20332	.0041465	.42243	.08237	.0039358	.05261	.0020463
%RSD	.4749877	.6759639	.6229899	.5005547	.4888550	.4010625	.2086108
#1	42.66236	.6104940	67.50787	16.39789	.8023303	13.08019	.9794682
#2	42.94990	.6163581	68.10527	16.51438	.8078964	13.15459	.9823621

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 500-221520-f-1-d msd Acquired: 9/7/2022 16:20:26 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2465173	.1654389	.0764486	1.793415	.9217462	.9130711	2.651511
Stddev	.0009137	.0014758	.0045016	.008253	.0024469	.0078324	.001931
%RSD	.3706330	.8920396	5.888384	.4602075	.2654680	.8578045	.0728239
#1	.2458712	.1643954	.0796318	1.787578	.9200159	.9186094	2.650146
#2	.2471634	.1664824	.0732655	1.799251	.9234764	.9075328	2.652877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0726083	.7350295	1.171778
Stddev	.0008600	.0008153	.002220
%RSD	1.184458	.1109217	.1894909
#1	.0732165	.7344530	1.173349
#2	.0720002	.7356061	1.170208
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2773.924	1697.310	9140.359	8148.383
Stddev	15.443	11.533	48.055	2.999
%RSD	.5567269	.6794636	.5257477	.0368008
#1	2784.844	1705.465	9106.379	8146.263
#2	2763.004	1689.155	9174.339	8150.504

Sample Name: 500-221520-f-2-a Acquired: 9/7/2022 16:23:39 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0035401	117.3314	.0681832	.0836961	.6688507	.0080150	.0253644
Stddev	.0004014	1.0599	.0004539	.0001999	.0035662	.0002193	.0020114
%RSD	11.33877	.9033596	.6656374	.2388431	.5331768	2.736563	7.930161
#1	.0038239	116.5819	.0678623	.0835548	.6663290	.0078599	.0267867
#2	.0032563	118.0809	.0685042	.0838375	.6713723	.0081701	.0239421

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	28.63921	.0025922	.5508672	.1096293	.1823234	.2259921	209.6279
Stddev	.20540	.0001160	.0072039	.0001008	.0015564	.0021571	1.8948
%RSD	.7172158	4.475613	1.307737	.0919806	.8536523	.9544855	.9038882
#1	28.49397	.0026742	.5559612	.1095580	.1834240	.2244668	208.2881
#2	28.78446	.0025102	.5457733	.1097006	.1812229	.2275173	210.9677

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	21.36104	.1898314	51.32053	4.602912	.0127227	4.095018	.3171428
Stddev	.09388	.0011350	.42016	.041237	.0002760	.020002	.0003242
%RSD	.4394989	.5978746	.8186979	.8958995	2.169459	.4884369	.1022374
#1	21.29465	.1890289	51.02343	4.573752	.0125276	4.080875	.3173721
#2	21.42742	.1906340	51.61763	4.632071	.0129179	4.109161	.3169135

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221520-f-2-a Acquired: 9/7/2022 16:23:39 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1186582	.0013200	.0011738	2.027435	.0196532	.0979490	1.544959
Stddev	.0002384	.0006657	.0029003	.008437	.0002314	.0003962	.000036
%RSD	.2009425	50.43304	247.0852	.4161365	1.177615	.4044579	.0023351
#1	.1188267	.0017908	.0032246	2.021469	.0194895	.0976689	1.544985
#2	.1184896	.0008493	-.000877	2.033401	.0198168	.0982292	1.544934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0019164	.2349243	.6460749
Stddev	.0012654	.0020532	.0029071
%RSD	66.02990	.8739632	.4499699
#1	.0010216	.2363761	.6440193
#2	.0028112	.2334725	.6481306
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2893.807	1693.484	9074.976	8069.101
Stddev	13.726	9.075	86.416	28.152
%RSD	.4743232	.5359036	.9522406	.3488845
#1	2903.513	1699.902	9136.081	8049.194
#2	2884.102	1687.067	9013.870	8089.007

Sample Name: CCV Acquired: 9/7/2022 16:26:45 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4932967	49.21177	.5373512	.5391047	.4964938	.4912056
Stddev	.0029379	.52226	.0003451	.0019481	.0062357	.0008713
%RSD	.5955726	1.061251	.0642251	.3613644	1.255947	.1773850
#1	.4912193	48.84248	.5371071	.5377272	.4920845	.4905895
#2	.4953741	49.58107	.5375952	.5404823	.5009031	.4918217

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5343642	25.57008	.5186305	F .1034022	.5271042	.4672820
Stddev	.0006702	.05584	.0015929	.0001726	.0029592	.0013698
%RSD	.1254120	.2183725	.3071393	.1668906	.5614047	.2931340
#1	.5338904	25.60957	.5175042	.1035242	.5250118	.4682505
#2	.5348381	25.53060	.5197569	.1032802	.5291967	.4663134

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
 Value
 Range **.5000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5125014	24.99736	50.37395	3.922137	25.06575	4.783779
Stddev	.0041637	.04524	.60963	.071169	.27104	.012862
%RSD	.8124304	.1809753	1.210215	1.814546	1.081302	.2688582
#1	.5154456	24.96537	49.94287	3.871813	24.87410	4.774685
#2	.5095572	25.02935	50.80502	3.972461	25.25740	4.792873

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Sample Name: CCV Acquired: 9/7/2022 16:26:45 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5207308	25.88850	.5252791	.5127643	.5189096	.5197329
Stddev	.0017729	.38783	.0022831	.0004832	.0026446	.0066810
%RSD	.3404654	1.498060	.4346377	.0942383	.5096388	1.285464

#1	.5194772	25.61427	.5236648	.5131060	.5170396	.5150087
#2	.5219844	26.16274	.5268935	.5124226	.5207796	.5244570

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1388394	.5347224	.4978901	.5058026	.4989512	4.886219
Stddev	.0013320	.0022206	.0084627	.0011214	.0022406	.005061
%RSD	.9593936	.4152814	1.699703	.2217001	.4490702	.1035809

#1	.1397813	.5331522	.5038741	.5065955	.4973668	4.882640
#2	.1378976	.5362926	.4919061	.5050097	.5005355	4.889798

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5412063
Stddev	.0026809
%RSD	.4953630

#1	.5393106
#2	.5431020

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 16:26:45 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.215	1509.947	8068.324	7245.534
Stddev	15.863	8.219	57.808	35.092
%RSD	.5328164	.5443545	.7164841	.4843209
#1	2988.432	1515.759	8027.448	7270.347
#2	2965.999	1504.135	8109.201	7220.720

Sample Name: CCB Acquired: 9/7/2022 16:29:52 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009045	.0177493	-.002748	.0022187	.0001938	.0002756
Stddev	.0001705	.0052184	.000527	.0000098	.0000774	.0001721
%RSD	18.85036	29.40088	19.17891	.4417922	39.96777	62.47021

#1	.0007839	.0140593	-.002375	.0022118	.0002486	.0003973
#2	.0010250	.0214393	-.003121	.0022256	.0001390	.0001538

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000437	.0082769	.0002089	F .0081988	.0002042	.0003401
Stddev	.000149	.0005383	.0000587	.0005262	.0000236	.0012907
%RSD	34.08902	6.503597	28.10175	6.418430	11.55259	379.4724

#1	-.000543	.0086575	.0001674	.0078267	.0002209	.0012528
#2	-.000332	.0078963	.0002503	.0085709	.0001875	-.000573

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017338	.0187134	-.003879	.0011377	.0129565	.0012498
Stddev	.0001847	.0084423	.009139	.0003328	.0039624	.0000251
%RSD	10.65620	45.11335	235.6255	29.25513	30.58245	2.007162

#1	.0018644	.0246830	.002584	.0013730	.0157584	.0012675
#2	.0016031	.0127439	-.010341	.0009023	.0101547	.0012320

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/7/2022 16:29:52 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001586	-.044372	-.000792	.0001663	.0026638	.0006560
Stddev	.0000295	.000952	.000721	.0001059	.0014404	.0007115
%RSD	18.57605	2.145743	91.05383	63.66830	54.07254	108.4664

#1	.0001378	-.043699	-.001301	.0002411	.0036823	.0011591
#2	.0001795	-.045045	-.000282	.0000914	.0016453	.0001529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063026	.0001921	.0000788	.0014200	.0014991	.0011653
Stddev	.0000800	.0001633	.0000208	.0001051	.0025341	.0003340
%RSD	1.269299	85.01986	26.45257	7.399464	169.0374	28.66104

#1	.0063592	.0000766	.0000935	.0014943	-.000293	.0014015
#2	.0062461	.0003076	.0000640	.0013457	.003291	.0009291

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000001
Stddev	.000037
%RSD	2957.922

#1	.000025
#2	-.000028

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/7/2022 16:29:52 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.587	1582.547	8407.335	7416.587
Stddev	12.541	6.195	49.050	39.299
%RSD	.3558028	.3914492	.5834202	.5298736
#1	3533.455	1586.927	8372.651	7444.375
#2	3515.720	1578.166	8442.018	7388.799

Sample Name: 500-221576-b-1-a Acquired: 9/7/2022 16:33:09 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0015043	30.78916	.1135711	.0921687	.6970020	.0022132	-.004475
Stddev	.0007328	.12323	.0020011	.0003194	.0014243	.0000873	.000785
%RSD	48.71181	.4002537	1.761950	.3465731	.2043453	3.944486	17.54523
#1	.0020225	30.87630	.1121561	.0919429	.6980091	.0022749	-.005030
#2	.0009862	30.70202	.1149860	.0923946	.6959949	.0021515	-.003920

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	363.0840	.0279670	.2387744	.0398156	.3682295	.3790502	84.31766
Stddev	19.0182	.0003260	.0026455	.0001083	.0025422	.0006417	.82926
%RSD	5.237965	1.165770	1.107942	.2720337	.6903837	.1693019	.9834912
#1	349.6361	.0277364	.2406450	.0397390	.3700271	.3795040	83.73128
#2	376.5319	.0281975	.2369038	.0398922	.3664319	.3785964	84.90403

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	2.091928	.0173714	199.7866	1.141694	.5898784	5.465803	.7108452
Stddev	.028122	.0003026	.7330	.009811	.0030468	.106456	.0028462
%RSD	1.344329	1.741760	.3669139	.8593754	.5165123	1.947672	.4003967
#1	2.111813	.0175853	199.2682	1.134756	.5877240	5.541078	.7088326
#2	2.072042	.0171574	200.3049	1.148632	.5920328	5.390527	.7128577

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221576-b-1-a Acquired: 9/7/2022 16:33:09 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2678338	.0182287	.0162376	2.598402	.0293667	.2796196	.7942769
Stddev	.0035584	.0000920	.0002138	.018313	.0017548	.0002517	.0013313
%RSD	1.328582	.5048985	1.316441	.7047726	5.975497	.0900082	.1676096
#1	.2703500	.0181637	.0160864	2.585453	.0306075	.2794416	.7933355
#2	.2653177	.0182938	.0163887	2.611351	.0281259	.2797976	.7952183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0003138	.2763417	18.48024
Stddev	.0021012	.0007756	.04163
%RSD	669.6832	.2806793	.2252469
#1	-.001172	.2768901	18.45080
#2	.001800	.2757932	18.50967
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2609.937	1484.954	7951.963	7303.042
Stddev	20.171	14.913	.234	70.433
%RSD	.7728579	1.004305	.0029431	.9644303
#1	2624.200	1495.499	7951.797	7253.239
#2	2595.674	1474.409	7952.128	7352.846

Sample Name: 500-221576-b-2-a Acquired: 9/7/2022 16:36:21 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010704	28.02496	.0275230	.1249272	.2228122	.0036917
Stddev	.0010887	.21697	.0011088	.0001853	.0020009	.0000328
%RSD	101.7038	.7742048	4.028678	.1482958	.8980017	.8882471

#1	.0018402	27.87153	.0283071	.1247961	.2213973	.0036685
#2	.0003006	28.17838	.0267390	.1250582	.2242270	.0037149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000853	F 909.4819	.0018960	.2704106	.0342049	.0505979
Stddev	.000770	.6288	.0001232	.0091443	.0000125	.0005902
%RSD	90.27182	.0691354	6.496721	3.381634	.0365652	1.166389

#1	-.000308	909.0373	.0019831	.2768766	.0342137	.0501805
#2	-.001397	909.9265	.0018089	.2639446	.0341960	.0510152

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0651425	71.66136	11.89060	.0499402	569.2381	1.945504
Stddev	.0001834	.05510	.09083	.0003861	1.6474	.006308
%RSD	.2815023	.0768872	.7639017	.7730998	.2893996	.3242312

#1	.0650128	71.62240	11.82637	.0496672	568.0732	1.941043
#2	.0652722	71.70032	11.95483	.0502132	570.4029	1.949964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221576-b-2-a Acquired: 9/7/2022 16:36:21 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103747	1.366121	.0995700	.0793260	-.000186	.0028012
Stddev	.0001334	.008332	.0004623	.0013781	.000353	.0006647
%RSD	1.285807	.6099302	.4643487	1.737305	189.8011	23.72917

#1	.0104690	1.360229	.0998969	.0783515	.000064	.0023312
#2	.0102804	1.372013	.0992431	.0803005	-.000436	.0032712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.870337	.0129253	.3503374	.4284568	-.000820	.1079688
Stddev	.009828	.0025281	.0004627	.0002049	.000300	.0010872
%RSD	.3423850	19.55933	.1320670	.0478348	36.64127	1.007008

#1	2.877286	.0111376	.3506646	.4283118	-.001032	.1087376
#2	2.863387	.0147129	.3500103	.4286017	-.000607	.1072000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.6140582
Stddev	.0080988
%RSD	1.318906

#1	.6083314
#2	.6197850

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221576-b-2-a Acquired: 9/7/2022 16:36:21 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2270.218	1369.982	7356.903	6976.754
Stddev	29.394	21.667	4.176	6.448
%RSD	1.294752	1.581522	.0567599	.0924167
#1	2249.433	1354.662	7353.950	6972.194
#2	2291.002	1385.303	7359.856	6981.313

Sample Name: 500-221576-b-3-a Acquired: 9/7/2022 16:39:53 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050453	17.80732	.2483689	.3721304	.5456911	.0042814
Stddev	.0001877	.15144	.0022088	.0000403	.0058627	.0001394
%RSD	3.720000	.8504452	.8893125	.0108174	1.074372	3.255668

#1	.0051780	17.70023	.2468071	.3721020	.5415455	.0041829
#2	.0049126	17.91440	.2499308	.3721589	.5498367	.0043800

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0542439	162.7414	.0147047	.2411285	.1572121	F 3.243425
Stddev	.0013532	1.9388	.0000035	.0020560	.0007130	.027002
%RSD	2.494690	1.191335	.0239554	.8526624	.4535147	.8325132

#1	.0532870	161.3704	.0147022	.2425823	.1567080	3.224332
#2	.0552008	164.1123	.0147071	.2396747	.1577163	3.262518

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
High Limit						2.000000
Low Limit						-.010000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.806747	358.1225	1.679745	.0213860	30.82500	4.059030
Stddev	.004994	4.7861	.006282	.0002235	.22396	.052259
%RSD	.2763902	1.336445	.3740092	1.044996	.7265426	1.287480

#1	1.810278	354.7383	1.684188	.0212280	30.66664	4.022077
#2	1.803216	361.5068	1.675303	.0215441	30.98336	4.095982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221576-b-3-a Acquired: 9/7/2022 16:39:53 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 10.24026	5.311337	5.487497	.1828575	.0613042	.1611117
Stddev	.01095	.025174	.032708	.0015839	.0010187	.0012910
%RSD	.1068963	.4739687	.5960378	.8661871	1.661651	.8013044

#1	10.24801	5.293536	5.464369	.1817375	.0605839	.1620246
#2	10.23252	5.329137	5.510624	.1839774	.0620245	.1601988

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.500000					
Low Limit	-.010000					

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3455167	.0565115	.2806864	.6997476	.0058156	1.513457
Stddev	.0033137	.0001210	.0005519	.0018112	.0012112	.009739
%RSD	.9590692	.2141650	.1966175	.2588340	20.82733	.6434613

#1	.3478599	.0564259	.2810766	.6984669	.0049591	1.506571
#2	.3431736	.0565971	.2802961	.7010283	.0066721	1.520343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 22.89324
Stddev	.27507
%RSD	1.201543

#1	22.69873
#2	23.08774

Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-221576-b-3-a Acquired: 9/7/2022 16:39:53 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2857.934	1430.725	7749.271	6953.978
Stddev	9.998	13.512	62.072	12.242
%RSD	.3498176	.9444065	.8009996	.1760458
#1	2850.865	1421.171	7705.380	6945.321
#2	2865.003	1440.279	7793.163	6962.634

Sample Name: 500-221576-b-4-a Acquired: 9/7/2022 16:42:55 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032433	18.79017	.1204364	.2707839	.6721983	.0039907
Stddev	.0004873	.15431	.0039062	.0015231	.0022211	.0004574
%RSD	15.02384	.8212007	3.243391	.5624736	.3304159	11.46201

#1	.0035878	18.68106	.1176743	.2697069	.6706277	.0043141
#2	.0028987	18.89928	.1231986	.2718609	.6737688	.0036672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0522433	144.1624	.0157356	.1626210	.1039124	F 2.147318
Stddev	.0003060	2.4240	.0000461	.0057666	.0003328	.005662
%RSD	.5858087	1.681428	.2926870	3.546037	.3203075	.2636613

#1	.0520269	142.4484	.0157681	.1666986	.1036770	2.143315
#2	.0524597	145.8764	.0157030	.1585434	.1041477	2.151322

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
High Limit						2.000000
Low Limit						-.010000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.568293	349.9008	2.505845	.0306100	29.95447	2.660140
Stddev	.005860	5.9769	.028060	.0001407	.18423	.036788
%RSD	.2281836	1.708157	1.119800	.4597876	.6150489	1.382924

#1	2.572437	345.6745	2.525687	.0307095	29.82420	2.634128
#2	2.564149	354.1270	2.486003	.0305105	30.08474	2.686153

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000					
Low Limit	-.010000					

Sample Name: 500-221576-b-4-a Acquired: 9/7/2022 16:42:55 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.496210	6.948988	3.214280	.2143435	.0525195	.1297243
Stddev	.023126	.070878	.019988	.0003716	.0004572	.0012809
%RSD	.5143421	1.019977	.6218392	.1733470	.8706373	.9874009

#1	4.479858	6.999106	3.200146	.2140807	.0521962	.1306300
#2	4.512563	6.898870	3.228413	.2146062	.0528428	.1288185

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.500000					
Low Limit	-.010000					

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.402753	.0439578	.2715136	.7793531	.0067803	1.148383
Stddev	.003789	.0006981	.0006082	.0001156	.0014289	.001415
%RSD	.2701346	1.588032	.2239994	.0148294	21.07374	.1232393

#1	1.400074	.0444514	.2719437	.7794348	.0057699	1.147382
#2	1.405432	.0434642	.2710836	.7792714	.0077907	1.149384

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 31.30815
Stddev	.31061
%RSD	.9921079

#1	31.08851
#2	31.52778

Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-221576-b-4-a Acquired: 9/7/2022 16:42:55 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2890.022	1462.033	7891.845	7072.596
Stddev	.461	.804	37.240	27.896
%RSD	.0159432	.0550034	.4718759	.3944264
#1	2890.348	1461.465	7865.513	7052.871
#2	2889.697	1462.602	7918.178	7092.322

Sample Name: 500-221576-b-5-b@5 Acquired: 9/7/2022 16:45:56 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006469	1.272110	.1124450	.0128332	.0092183	.0109834
Stddev	.0006120	.015038	.0003209	.0007150	.0001673	.0000415
%RSD	94.60738	1.182137	.2854167	5.571298	1.814759	.3780044

#1	.0010796	1.261477	.1126720	.0123277	.0091000	.0109541
#2	.0002141	1.282744	.1122181	.0133388	.0093366	.0110128

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1627398	1.951509	.0014980	.0053278	.1560425	F 2.552190
Stddev	.0021694	.010160	.0000462	.0080740	.0001460	.001442
%RSD	1.333042	.5206123	3.085205	151.5460	.0935652	.0565187

#1	.1642738	1.958693	.0015307	.0110369	.1559392	2.551170
#2	.1612059	1.944325	.0014653	-.000381	.1561457	2.553210

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
High Limit						2.000000
Low Limit						-.010000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.623671	F 1279.184	-.114985	.0057773	2.668962	11.04422
Stddev	.041519	16.215	.000342	.0000820	.066622	.13582
%RSD	1.582477	1.267579	.2976247	1.418854	2.496165	1.229828

#1	2.653029	1267.719	-.114743	.0057194	2.621853	10.94818
#2	2.594313	1290.650	-.115227	.0058353	2.716071	11.14026

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000	500.0000				
Low Limit	-.010000	-.200000				

Sample Name: 500-221576-b-5-b@5 Acquired: 9/7/2022 16:45:56 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5812183	11.91119	1.057244	.0161707	.0527607	.0096098
Stddev	.0026512	.29912	.002553	.0002306	.0007971	.0064610
%RSD	.4561455	2.511245	.2415133	1.425975	1.510859	67.23372

#1	.5793436	11.69969	1.055439	.0163338	.0521970	.0141784
#2	.5830930	12.12270	1.059050	.0160076	.0533243	.0050411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4370543	.0995297	.0059162	.1157880	.0113192	.1179077
Stddev	.0006263	.0024412	.0000841	.0010337	.0043412	.0018163
%RSD	.1432962	2.452788	1.421557	.8927987	38.35212	1.540432

#1	.4366115	.1012560	.0059756	.1165190	.0082495	.1191920
#2	.4374972	.0978035	.0058567	.1150570	.0143889	.1166234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.3987227
Stddev	.0035071
%RSD	.8795807

#1	.3962428
#2	.4012026

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221576-b-5-b@5 Acquired: 9/7/2022 16:45:56 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3009.660	1437.853	7783.302	7072.523
Stddev	5.339	3.619	100.914	112.706
%RSD	.1774062	.2516879	1.296539	1.593573
#1	3013.435	1440.412	7711.945	7152.218
#2	3005.884	1435.294	7854.658	6992.828

Sample Name: 500-221576-b-7-c Acquired: 9/7/2022 16:48:59 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	14.36984	.0018855	.1366425	.0569452	.0024790
Stddev	.001049	.11573	.0053117	.0002237	.0001203	.0001937
%RSD	3884.915	.8053855	281.7088	.1636924	.2111946	7.812187

#1	.000715	14.28800	.0056414	.1364844	.0568602	.0023421
#2	-.000769	14.45167	-.001870	.1368007	.0570303	.0026159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.004985	F 1409.043	.0016582	.1730499	.0179311	.0347810
Stddev	.000086	79.852	.0000354	.0033208	.0005321	.0022841
%RSD	1.715818	5.667096	2.134850	1.918971	2.967373	6.567118

#1	-.005046	1352.579	.0016833	.1753980	.0183073	.0331659
#2	-.004925	1465.507	.0016332	.1707017	.0175548	.0363961

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0585473	35.78421	8.635568	.0452559	F 846.7673	1.986187
Stddev	.0009114	.11948	.040358	.0001072	3.8062	.011148
%RSD	1.556612	.3338909	.4673495	.2367914	.4494991	.5612728

#1	.0591918	35.86869	8.607031	.0451801	844.0759	1.978304
#2	.0579029	35.69972	8.664106	.0453317	849.4587	1.994070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					600.0000	
Low Limit					-.100000	

Sample Name: 500-221576-b-7-c Acquired: 9/7/2022 16:48:59 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068864	1.552041	.0611222	.0279229	.0012257	.0004594
Stddev	.0011409	.007308	.0008478	.0009057	.0008553	.0042727
%RSD	16.56701	.4708716	1.386990	3.243610	69.78175	930.1160

#1	.0060796	1.546873	.0605228	.0272824	.0018305	.0034807
#2	.0076931	1.557208	.0617217	.0285633	.0006209	-.002562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.800626	.0126545	.5844225	.1519087	.0012251	.1121315
Stddev	.015243	.0005525	.0015986	.0005281	.0004108	.0002408
%RSD	.8465500	4.365886	.2735276	.3476176	33.53162	.2147824

#1	1.789848	.0130452	.5832922	.1515353	.0015156	.1119612
#2	1.811405	.0122638	.5855529	.1522821	.0009346	.1123018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.085420
Stddev	.007914
%RSD	.7291596

#1	1.091017
#2	1.079824

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221576-b-7-c Acquired: 9/7/2022 16:48:59 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2120.820	1283.424	6937.951	6789.469
Stddev	16.927	13.862	5.134	3.196
%RSD	.7981545	1.080050	.0740039	.0470725
#1	2132.789	1293.226	6934.320	6791.729
#2	2108.850	1273.622	6941.581	6787.209

Sample Name: 500-221576-d-8-c Acquired: 9/7/2022 16:52:17 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655020	246.7445	.5136493	.0233591	.4262660	.0023712
Stddev	.0012050	.3593	.0022871	.0000292	.0004110	.0001851
%RSD	1.839693	.1456127	.4452544	.1248622	.0964259	7.804277

#1	.0646499	246.4904	.5120322	.0233797	.4265567	.0022403
#2	.0663541	246.9985	.5152665	.0233385	.4259754	.0025020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.339915	7.836545	-.000626	10.34377	.0529825	.0929045
Stddev	.000343	.026107	.000046	.10071	.0000770	.0000315
%RSD	.1008544	.3331487	7.301201	.9736635	.1452304	.0339007

#1	-.340157	7.818085	-.000594	10.27256	.0529281	.0928822
#2	-.339672	7.855006	-.000659	10.41499	.0530369	.0929268

Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit	5.000000					
Low Limit	-.050000					

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0598281	9.115242	2.114742	.0341581	14.73258	.1082912
Stddev	.0001333	.046150	.006726	.0003194	.01449	.0003928
%RSD	.2228647	.5062944	.3180587	.9352184	.0983752	.3627562

#1	.0597338	9.082609	2.119498	.0343840	14.72233	.1080134
#2	.0599223	9.147875	2.109986	.0339322	14.74283	.1085690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221576-d-8-c Acquired: 9/7/2022 16:52:17 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0453656	28.28954	1.437800	.1047883	.0241156	-.005455
Stddev	.0000016	.14164	.003363	.0022263	.0011230	.000761
%RSD	.0034883	.5006870	.2339285	2.124571	4.656706	13.94469

#1	.0453667	28.38970	1.435421	.1032140	.0233216	-.005993
#2	.0453645	28.18939	1.440178	.1063625	.0249097	-.004917

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7248111	.0310025	.1119878	.9676392	.0117491	1.659475
Stddev	.0008325	.0006880	.0002010	.0001728	.0053878	.000465
%RSD	.1148584	2.219191	.1794927	.0178607	45.85681	.0280062

#1	.7242225	.0305160	.1121300	.9675170	.0079394	1.659146
#2	.7253998	.0314889	.1118457	.9677614	.0155589	1.659803

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4900560
Stddev	.0021876
%RSD	.4463967

#1	.4885091
#2	.4916028

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221576-d-8-c Acquired: 9/7/2022 16:52:17 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2830.027	3573.322	17369.04	14429.23
Stddev	4.315	4.505	52.35	95.88
%RSD	.1524734	.1260734	.3013844	.6644677
#1	2833.078	3570.137	17332.03	14361.43
#2	2826.976	3576.508	17406.06	14497.02

Sample Name: mb 500-673245/1-a Acquired: 9/7/2022 16:55:40 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002411	.0851805	-.006715	-.000540	.0002915	.0001808	-.005878
Stddev	.0010722	.0115183	.000430	.000113	.0000551	.0002070	.000195
%RSD	444.6413	13.52225	6.396632	20.88955	18.91111	114.4956	3.309086

#1	.0009993	.0933252	-.006412	-.000460	.0003304	.0003272	-.006016
#2	-.000517	.0770358	-.007019	-.000620	.0002525	.0000344	-.005741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0394450	.0004852	.0070339	-.000435	.0003071	.0016197	.0689153
Stddev	.0004228	.0000041	.0105601	.000087	.0000844	.0000499	.0280582
%RSD	1.071932	.8505386	150.1308	19.93060	27.47051	3.079122	40.71402

#1	.0397440	.0004823	.0145011	-.000496	.0003668	.0015844	.0490752
#2	.0391460	.0004881	-.000433	-.000374	.0002475	.0016549	.0887554

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033526	-.000019	.0284578	.0006959	.0010397	-.032616	-.003479
Stddev	.004906	.000104	.0004745	.0000703	.0000865	.002335	.000231
%RSD	14.63225	558.2490	1.667401	10.10565	8.323099	7.159897	6.639726

#1	-.030057	.000055	.0281223	.0007456	.0011009	-.030965	-.003316
#2	-.036995	-.000092	.0287933	.0006461	.0009785	-.034267	-.003642

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-673245/1-a Acquired: 9/7/2022 16:55:40 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000947	.0015192	-.002521	.0177742	.0101774	.0001037	.0036059
Stddev	.000378	.0002675	.001479	.0004518	.0008488	.0000019	.0001401
%RSD	39.86846	17.60652	58.66173	2.541755	8.339511	1.866332	3.886824

#1	-.000680	.0017083	-.001475	.0180937	.0095773	.0001023	.0037050
#2	-.001214	.0013300	-.003567	.0174548	.0107776	.0001051	.0035068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002057	.0004104	.0009419
Stddev	.000833	.0003971	.0000903
%RSD	40.50212	96.74278	9.585885

#1	-.002646	.0001297	.0008780
#2	-.001468	.0006912	.0010057

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.727	1596.614	8704.715	7389.880
Stddev	2.509	7.624	66.715	56.701
%RSD	.0712264	.4775282	.7664252	.7672807

#1	3524.501	1602.005	8751.890	7349.786
#2	3520.953	1591.222	8657.541	7429.973

Sample Name: Ics 500-673245/2-a Acquired: 9/7/2022 16:58:55 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0423198	1.908826	.0928070	.9160161	2.023187	.0445134	.4582390
Stddev	.0005068	.032458	.0006516	.0005901	.023514	.0003191	.0012617
%RSD	1.197665	1.700429	.7020738	.0644231	1.162203	.7169725	.2753270

#1	.0426782	1.885875	.0932678	.9155988	2.006560	.0442878	.4591311
#2	.0419614	1.931778	.0923463	.9164334	2.039814	.0447391	.4573469

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	9.630997	.0488636	.0460379	.5037536	.1863107	.2515678	.9870446
Stddev	.006303	.0001916	.0058114	.0014269	.0010935	.0014344	.0312920
%RSD	.0654483	.3921292	12.62308	.2832553	.5869336	.5701677	3.170270

#1	9.635454	.0487281	.0419286	.5027446	.1855375	.2505536	.9649179
#2	9.626540	.0489991	.0501472	.5047626	.1870839	.2525821	1.009171

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	10.03864	.4863162	9.509935	.4627111	1.060149	10.37406	.4903008
Stddev	.04410	.0050954	.086547	.0011711	.003236	.07108	.0008850
%RSD	.4393476	1.047761	.9100653	.2530975	.3052801	.6851552	.1805120

#1	10.00746	.4827132	9.448737	.4618830	1.057861	10.32380	.4896750
#2	10.06983	.4899192	9.571133	.4635392	1.062438	10.42432	.4909266

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-673245/2-a Acquired: 9/7/2022 16:58:55 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0924577	.4848764	.0876911	.9222712	.9855386	.9800382	.9999373
Stddev	.0012031	.0013555	.0045588	.0024427	.0033017	.0077286	.0002620
%RSD	1.301201	.2795635	5.198661	.2648579	.3350133	.7886006	.0262056

#1	.0933083	.4839179	.0844676	.9205440	.9832040	.9745732	1.000123
#2	.0916070	.4858349	.0909147	.9239985	.9878733	.9855031	.999752

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0933029	.4868722	.4878742
Stddev	.0000378	.0002234	.0023523
%RSD	.0404788	.0458774	.4821527

#1	.0932762	.4870302	.4862109
#2	.0933296	.4867143	.4895375

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3297.728	1575.992	8345.451	7283.508
Stddev	3.369	.003	57.698	28.539
%RSD	.1021610	.0001686	.6913719	.3918248

#1	3300.110	1575.990	8386.250	7263.328
#2	3295.346	1575.994	8304.653	7303.688

Sample Name: 500-221506-d-1-a Acquired: 9/7/2022 17:02:07 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0026294	102.4046	.0533761	.0161077	.8640100	.0059031	.0105260
Stddev	.0001337	.6520	.0008835	.0005489	.0025471	.0000067	.0001568
%RSD	5.086410	.6366795	1.655334	3.407621	.2947964	.1144276	1.489504
#1	.0025349	101.9436	.0540009	.0157195	.8622089	.0059079	.0104151
#2	.0027240	102.8657	.0527513	.0164958	.8658111	.0058984	.0106369

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	11.32916	.0014528	.5678747	.1280855	.1199187	.0863091	138.5777
Stddev	.25111	.0001044	.0019586	.0005305	.0012135	.0006324	2.5265
%RSD	2.216469	7.183372	.3448995	.4141586	1.011896	.7326935	1.823138
#1	11.15160	.0013790	.5664898	.1277104	.1207768	.0858619	136.7912
#2	11.50672	.0015266	.5692596	.1284606	.1190607	.0867562	140.3642

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	7.378637	.0772886	13.02030	6.864886	.0071435	.1599032	.1006590
Stddev	.031849	.0006810	.10063	.115168	.0000367	.0008295	.0008581
%RSD	.4316428	.8810895	.7728704	1.677639	.5140807	.5187724	.8524515
#1	7.401158	.0777701	12.94914	6.783450	.0071694	.1604898	.1012658
#2	7.356116	.0768070	13.09146	6.946322	.0071175	.1593167	.1000523

Check ?
 High Limit
 Low Limit

Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Sample Name: 500-221506-d-1-a Acquired: 9/7/2022 17:02:07 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1335554	.0026664	.0031461	2.124897	.0166507	.0652046	1.484302
Stddev	.0006964	.0000572	.0007849	.007044	.0014474	.0000916	.003417
%RSD	.5214575	2.146886	24.94694	.3314779	8.692983	.1404102	.2301836

#1	.1330629	.0026259	.0037011	2.129878	.0176742	.0652693	1.481886
#2	.1340478	.0027068	.0025911	2.119917	.0156272	.0651398	1.486718

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001954	.2344953	.3830043
Stddev	.001299	.0005181	.0026466
%RSD	66.46556	.2209562	.6910175

#1	-.001036	.2348617	.3811328
#2	-.002873	.2341289	.3848757

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3104.279	1739.963	9064.874	7926.613
Stddev	1.202	4.539	3.690	56.017
%RSD	.0387200	.2608847	.0407029	.7066902

#1	3105.129	1736.753	9062.265	7887.004
#2	3103.429	1743.173	9067.483	7966.223

Sample Name: CCV Acquired: 9/7/2022 17:05:15 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4942644	48.83742	.5291240	.5289758	.4930374	.4957134
Stddev	.0005259	.66425	.0003034	.0025112	.0055195	.0029998
%RSD	.1064033	1.360123	.0573385	.4747258	1.119490	.6051465

#1	.4938925	48.36772	.5289095	.5272001	.4891345	.4935923
#2	.4946363	49.30711	.5293385	.5307515	.4969402	.4978346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5323640	26.07959	.5197117	F .0973237	.5371208	.4724512
Stddev	.0023644	.07263	.0009593	.0022879	.0013936	.0045935
%RSD	.4441384	.2785022	.1845759	2.350815	.2594516	.9722780

#1	.5306921	26.13095	.5190334	.0989415	.5361354	.4692031
#2	.5340359	26.02823	.5203900	.0957059	.5381062	.4756994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5062351	25.43118	49.14061	3.801948	24.98038	4.835577
Stddev	.0017056	.07174	.68037	.085204	.16215	.019449
%RSD	.3369123	.2821016	1.384538	2.241064	.6491226	.4022062

#1	.5050291	25.38045	48.65951	3.741700	24.86572	4.821824
#2	.5074412	25.48191	49.62170	3.862197	25.09504	4.849329

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 17:05:15 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5173496	25.17264	.5341040	.5206356	.5109785	.5073647
Stddev	.0026043	.48492	.0024932	.0026620	.0011767	.0001296
%RSD	.5033844	1.926388	.4668038	.5113040	.2302881	.0255440

#1	.5155081	24.82974	.5323410	.5187533	.5101464	.5074563
#2	.5191911	25.51553	.5358669	.5225180	.5118105	.5072731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1235938	.5450423	.4931629	.5042690	.5009617	4.920117
Stddev	.0015469	.0024301	.0031665	.0010039	.0025536	.021053
%RSD	1.251596	.4458511	.6420880	.1990726	.5097379	.4278951

#1	.1246876	.5433239	.4909239	.5035591	.4991561	4.905231
#2	.1224999	.5467606	.4954020	.5049788	.5027674	4.935004

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	F .5612166
Stddev	.0038125
%RSD	.6793279

#1	.5585207
#2	.5639124

Check ?	Chk Fail
Value	.5000000
Range	10.0000%

Sample Name: CCV Acquired: 9/7/2022 17:05:15 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3039.960	1574.197	8167.994	7257.840
Stddev	2.475	3.368	29.804	7.365
%RSD	.0814033	.2139483	.3648854	.1014734
#1	3038.210	1571.816	8189.068	7252.633
#2	3041.710	1576.579	8146.920	7263.048

Sample Name: CCB Acquired: 9/7/2022 17:08:21 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006724	.0162339	-.002504	.0015870	.0001457	.0003444
Stddev	.0002582	.0087126	.000528	.0000156	.0000009	.0000712
%RSD	38.39719	53.66886	21.07800	.9825998	.5951037	20.67671

#1	.0008549	.0100732	-.002877	.0015759	.0001463	.0003948
#2	.0004898	.0223947	-.002131	.0015980	.0001451	.0002941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000055	.0035049	.0000399	F .0079100	.0003303	-.000324
Stddev	.000346	.0027006	.0000336	.0104071	.0000246	.000510
%RSD	630.6574	77.05309	84.31094	131.5696	7.431241	157.5139

#1	.000190	.0054145	.0000636	.0152690	.0003477	.000037
#2	-.000300	.0015953	.0000161	.0005510	.0003129	-.000684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012484	-.009322	-.016301	.0010962	.0126559	.0009977
Stddev	.0001987	.004229	.001028	.0003810	.0073687	.0003129
%RSD	15.91964	45.36517	6.309310	34.75911	58.22297	31.36490

#1	.0011079	-.006332	-.015573	.0013656	.0178664	.0012190
#2	.0013889	-.012313	-.017028	.0008267	.0074455	.0007765

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/7/2022 17:08:21 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005089	-.054240	-.000178	-.000588	.0031785	-.000584
Stddev	.0001203	.000192	.000329	.000758	.0007924	.000279
%RSD	23.62914	.3548551	185.1954	128.7764	24.92949	47.71881

#1	.0004239	-.054104	.000055	-.001124	.0037388	-.000387
#2	.0005939	-.054376	-.000410	-.000053	.0026182	-.000781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004960	.0001964	.0000722	.0011650	.0010420	.0004473
Stddev	.0000071	.0002165	.0000194	.0001576	.0022555	.0005323
%RSD	1.429701	110.2415	26.84240	13.52991	216.4627	119.0097

#1	.0005010	.0003495	.0000859	.0010535	.0026368	.0000709
#2	.0004910	.0000433	.0000585	.0012764	-.000553	.0008237

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000343
Stddev	.000032
%RSD	9.443375

#1	-.000366
#2	-.000320

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/7/2022 17:08:21 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3584.510	1625.824	8528.423	7411.811
Stddev	5.840	7.278	21.872	23.154
%RSD	.1629270	.4476421	.2564584	.3123989
#1	3588.639	1630.970	8512.957	7395.438
#2	3580.380	1620.677	8543.889	7428.183

Sample Name: 500-221506-d-2-a Acquired: 9/7/2022 17:11:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0031617	137.2234	.0423064	.0057134	.4664120	.0046177	.0138639
Stddev	.0004194	2.4428	.0031747	.0002328	.0075557	.0002706	.0002017
%RSD	13.26543	1.780161	7.504071	4.074590	1.619958	5.859265	1.454721
#1	.0028651	135.4961	.0445512	.0055488	.4610693	.0044264	.0140065
#2	.0034583	138.9507	.0400615	.0058780	.4717547	.0048090	.0137213

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	5.539878	.0008385	.4496061	.0290167	.1964048	.0918280	167.3238
Stddev	.004223	.0000439	.0023541	.0000274	.0006639	.0002299	1.2912
%RSD	.0762338	5.236115	.5235825	.0943213	.3380330	.2503703	.7716485
#1	5.536891	.0008074	.4479416	.0290361	.1959354	.0919906	166.4108
#2	5.542864	.0008695	.4512707	.0289974	.1968743	.0916655	168.2368

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.971597	.0953421	11.07354	.6185270	.0069548	.3082859	.0709708
Stddev	.124222	.0028998	.15651	.0028804	.0000963	.0071326	.0016100
%RSD	2.498639	3.041484	1.413392	.4656882	1.384229	2.313642	2.268560
#1	4.883759	.0932916	10.96286	.6164902	.0070228	.3032424	.0698324
#2	5.059436	.0973926	11.18421	.6205637	.0068867	.3133294	.0721093

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221506-d-2-a Acquired: 9/7/2022 17:11:38 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865567	.0003723	.0009631	2.238442	.0196937	.0654067	1.412157
Stddev	.0014966	.0020714	.0020263	.005915	.0000952	.0003550	.002144
%RSD	1.729059	556.4503	210.4028	.2642268	.4833222	.5427271	.1518295

#1	.0854984	-.001092	-.000470	2.234260	.0196264	.0656578	1.410641
#2	.0876149	.001837	.002396	2.242624	.0197610	.0651557	1.413673

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0047728	.3023117	.2217642
Stddev	.0004091	.0003865	.0008266
%RSD	8.572300	.1278411	.3727475

#1	.0044834	.3025850	.2211797
#2	.0050621	.3020384	.2223487

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3066.091	1709.444	8894.156	7745.915
Stddev	1.317	4.401	51.130	46.326
%RSD	.0429464	.2574721	.5748763	.5980757

#1	3065.160	1706.332	8858.002	7778.672
#2	3067.022	1712.556	8930.311	7713.157

Sample Name: 500-221506-d-3-a Acquired: 9/7/2022 17:14:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137250	27.92795	.0262612	.0145694	.5291889	.0063566
Stddev	.0006091	.08264	.0015658	.0000940	.0005047	.0004452
%RSD	4.437587	.2958932	5.962528	.6452875	.0953784	7.002923

#1	.0141556	27.86952	.0251540	.0146359	.5288320	.0060419
#2	.0132943	27.98638	.0273684	.0145029	.5295458	.0066714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0701972	536.3242	.0284870	.9244653	.4337511	.0651182
Stddev	.0016393	2.6061	.0000586	.0019817	.0013623	.0010093
%RSD	2.335310	.4859232	.2057971	.2143628	.3140701	1.549920

#1	.0690381	538.1670	.0285284	.9230640	.4327878	.0644045
#2	.0713564	534.4814	.0284455	.9258666	.4347144	.0658318

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0555061	215.3139	6.739384	.0408042	167.1213	F 57.60938
Stddev	.0005453	1.6126	.013525	.0004328	1.0971	2.65024
%RSD	.9824640	.7489516	.2006880	1.060809	.6564907	4.600365

#1	.0558917	214.1736	6.748947	.0404981	166.3455	55.73537
#2	.0551205	216.4542	6.729820	.0411103	167.8970	59.48338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						20.00000
Low Limit						-.010000

Sample Name: 500-221506-d-3-a Acquired: 9/7/2022 17:14:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078099	.5054626	.2404765	.1480767	.0041993	.0228502
Stddev	.0002282	.0012900	.0015148	.0013424	.0001109	.0018994
%RSD	2.922440	.2552156	.6298997	.9065531	2.640039	8.312310

#1	.0076485	.5063748	.2394054	.1490259	.0042777	.0215071
#2	.0079713	.5045505	.2415476	.1471274	.0041209	.0241932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8978223	.0265331	.3433851	.1242517	F -.112671	.0691352
Stddev	.0066984	.0013471	.0032024	.0002223	.000608	.0007869
%RSD	.7460692	5.076937	.9326053	.1788833	.5399428	1.138201

#1	.9025588	.0274857	.3456496	.1244088	-.112241	.0685788
#2	.8930858	.0255806	.3411207	.1240945	-.113101	.0696916

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					10.00000	
Low Limit					-.010000	

Elem	Zn2062
Units	ppm
Avg	.8055575
Stddev	.0029997
%RSD	.3723727

#1	.8034364
#2	.8076785

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221506-d-3-a Acquired: 9/7/2022 17:14:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.434	2760.692	14735.19	13732.62
Stddev	15.200	32.715	202.35	36.16
%RSD	.6581682	1.185023	1.373242	.2633234
#1	2298.686	2737.559	14592.11	13707.05
#2	2320.182	2783.825	14878.28	13758.19

Sample Name: 500-221506-d-4-a Acquired: 9/7/2022 17:18:07 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031006	67.26309	.0325952	.1990431	.3985151	.0056107
Stddev	.0002420	.13157	.0002411	.0011191	.0000177	.0001021
%RSD	7.804216	.1956042	.7396734	.5622385	.0044472	1.819831

#1	.0029295	67.17006	.0324247	.1982517	.3985026	.0055385
#2	.0032717	67.35613	.0327657	.1998344	.3985277	.0056829

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059181	F 872.6540	.0259053	.3960151	.0661697	.0979932
Stddev	.0018538	25.3641	.0000960	.0013068	.0001135	.0000088
%RSD	31.32459	2.906552	.3704635	.3299750	.1715412	.0089749

#1	.0072289	854.7188	.0259732	.3969391	.0660894	.0979870
#2	.0046072	890.5892	.0258375	.3950911	.0662500	.0979995

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1390572	112.6242	31.16664	.1935525	492.9742	9.550316
Stddev	.0004081	1.6679	.45622	.0040257	4.1864	.113940
%RSD	.2935151	1.480962	1.463818	2.079906	.8492135	1.193046

#1	.1393459	111.4449	31.48924	.1963991	490.0139	9.469749
#2	.1387686	113.8037	30.84404	.1907059	495.9344	9.630884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221506-d-4-a Acquired: 9/7/2022 17:18:07 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162177	3.393398	.1500518	.1554900	.0000824	.0019666
Stddev	.0000207	.058018	.0009380	.0015952	.0005844	.0003586
%RSD	.1274324	1.709729	.6251389	1.025889	709.0555	18.23637

#1	.0162031	3.434423	.1493885	.1543620	.0004957	.0022202
#2	.0162323	3.352373	.1507151	.1566179	-.000331	.0017130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.361611	.0187195	.8185797	.1994576	-.009144	.1324230
Stddev	.022276	.0039007	.0074226	.0016214	.003085	.0000850
%RSD	.6626694	20.83746	.9067682	.8128829	33.73907	.0642252

#1	3.345859	.0214777	.8238283	.1983111	-.011325	.1324831
#2	3.377363	.0159613	.8133311	.2006041	-.006962	.1323629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.3598884
Stddev	.0004047
%RSD	.1124495

#1	.3601745
#2	.3596022

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221506-d-4-a Acquired: 9/7/2022 17:18:07 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.501	1489.300	7768.524	7153.650
Stddev	12.330	7.668	42.996	55.933
%RSD	.5259293	.5148512	.5534698	.7818791
#1	2353.220	1494.721	7738.121	7114.099
#2	2335.782	1483.878	7798.927	7193.200

Sample Name: 500-221506-d-5-a Acquired: 9/7/2022 17:21:25 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0031445	249.5998	.0564255	-.000412	.3623209	.0096208	.0355847
Stddev	.0007652	2.9833	.0033759	.000216	.0038232	.0002719	.0005372
%RSD	24.33271	1.195239	5.982940	52.30401	1.055209	2.826609	1.509743

#1	.0026035	247.4903	.0588126	-.000565	.3596175	.0098131	.0359646
#2	.0036856	251.7094	.0540383	-.000260	.3650243	.0094285	.0352048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	21.43899	.0015100	.3816619	.0266703	.6313976	.0998937	284.7261
Stddev	.03827	.0001756	.0127511	.0000351	.0062980	.0003500	2.1414
%RSD	.1785256	11.62796	3.340948	.1315983	.9974644	.3504065	.7520886

#1	21.41193	.0016342	.3726455	.0266455	.6269443	.1001412	283.2119
#2	21.46606	.0013859	.3906783	.0266951	.6358510	.0996462	286.2403

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	8.713189	.1072837	15.03271	.4177251	.0070876	1.216502	.3059417
Stddev	.096698	.0011914	.15834	.0003739	.0001491	.016158	.0007633
%RSD	1.109792	1.110559	1.053329	.0895193	2.103995	1.328269	.2495061

#1	8.644813	.1064412	14.92075	.4174607	.0071931	1.205076	.3054019
#2	8.781565	.1081262	15.14468	.4179895	.0069822	1.227928	.3064814

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221506-d-5-a Acquired: 9/7/2022 17:21:25 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1378732	.0038373	.0046675	1.099799	.0284526	.3000264	.6827507
Stddev	.0003905	.0016137	.0023189	.001526	.0006609	.0015304	.0004782
%RSD	.2832289	42.05300	49.68154	.1387896	2.322983	.5100733	.0700398
#1	.1381494	.0049784	.0030278	1.100878	.0289199	.3011085	.6824125
#2	.1375971	.0026962	.0063072	1.098720	.0279852	.2989442	.6830888

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0033201	.5621216	.7829920
Stddev	.0022698	.0000236	.0031943
%RSD	68.36569	.0041975	.4079537
#1	.0049251	.5621383	.7807333
#2	.0017151	.5621050	.7852507

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3005.218	1848.397	9415.287	8222.069
Stddev	4.374	1.387	74.843	5.131
%RSD	.1455385	.0750414	.7949087	.0624026
#1	3008.311	1847.417	9362.365	8218.441
#2	3002.126	1849.378	9468.209	8225.698

Sample Name: 500-221506-d-5-aSD@5 Acquired: 9/7/2022 17:24:30 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0004821	56.38012	.0117134	-.000251	.0826039	.0023020	.0071155
Stddev	.0001727	.76776	.0004039	.000090	.0006892	.0000347	.0018855
%RSD	35.81289	1.361752	3.448581	35.72875	.8343330	1.505951	26.49912

#1	.0003600	55.83724	.0114278	-.000188	.0821166	.0023265	.0084488
#2	.0006042	56.92301	.0119991	-.000314	.0830913	.0022775	.0057822

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	4.842482	.0003855	.0901482	.0055842	.1487096	.0228655	65.22932
Stddev	.078234	.0002021	.0086370	.0001528	.0012384	.0002436	.95597
%RSD	1.615581	52.42820	9.580908	2.737072	.8327501	1.065378	1.465548

#1	4.787162	.0002426	.0962555	.0054761	.1478339	.0226932	64.55335
#2	4.897802	.0005284	.0840409	.0056922	.1495852	.0230377	65.90529

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	1.983876	.0244772	3.524955	.0947882	.0015048	.2371473	.0645152
Stddev	.021815	.0002332	.045579	.0016968	.0001765	.0053931	.0013351
%RSD	1.099628	.9528723	1.293050	1.790097	11.72977	2.274141	2.069372

#1	1.968451	.0243123	3.492726	.0935884	.0016296	.2333338	.0635712
#2	1.999302	.0246422	3.557185	.0959880	.0013800	.2409608	.0654592

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221506-d-5-aSD@5 Acquired: 9/7/2022 17:24:30 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315714	.0013123	.0025560	.2727576	.0069896	.0698171	.1612372
Stddev	.0008272	.0004132	.0009134	.0001680	.0000574	.0001003	.0007480
%RSD	2.620255	31.49160	35.73515	.0615986	.8216573	.1436057	.4639355
#1	.0321564	.0016045	.0032018	.2726388	.0069490	.0697462	.1607082
#2	.0309865	.0010200	.0019101	.2728764	.0070302	.0698880	.1617661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000366	.1300044	.1627204
Stddev	.000936	.0005835	.0003929
%RSD	255.7701	.4488253	.2414534
#1	.000296	.1295918	.1624426
#2	-.001028	.1304170	.1629982
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3279.713	1690.380	8784.255	7658.060
Stddev	10.214	2.462	30.347	11.422
%RSD	.3114293	.1456707	.3454727	.1491492
#1	3286.936	1692.121	8805.714	7666.136
#2	3272.491	1688.638	8762.797	7649.983

Sample Name: 500-221506-d-5-b du Acquired: 9/7/2022 17:27:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0025425	251.2912	.0673599	-.001992	.2919388	.0103545	.0416048
Stddev	.0001377	3.7726	.0012284	.000134	.0036772	.0000869	.0011094
%RSD	5.416314	1.501285	1.823667	6.734122	1.259594	.8391938	2.666607
#1	.0024451	248.6236	.0664912	-.001897	.2893386	.0102931	.0408203
#2	.0026399	253.9589	.0682285	-.002087	.2945390	.0104160	.0423893

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	21.15754	.0017460	.3520708	.0254351	.7435141	.1072866	343.9936
Stddev	.10703	.0002235	.0101775	.0004256	.0057488	.0001877	3.3219
%RSD	.5058632	12.80151	2.890757	1.673141	.7731900	.1749505	.9656772
#1	21.08186	.0015880	.3448742	.0251342	.7394491	.1071539	341.6447
#2	21.23322	.0019041	.3592673	.0257360	.7475791	.1074194	346.3425

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	8.809200	.1119012	14.52965	.5390517	.0076296	1.299479	.3224223
Stddev	.100614	.0024753	.13346	.0062834	.0002506	.021561	.0007545
%RSD	1.142150	2.211995	.9185186	1.165639	3.284709	1.659227	.2340070
#1	8.738055	.1101509	14.43528	.5346087	.0078068	1.284232	.3229558
#2	8.880345	.1136515	14.62402	.5434947	.0074524	1.314725	.3218888

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221506-d-5-b du Acquired: 9/7/2022 17:27:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1447731	.0092028	.0038482	.8415687	.0294586	.2912362	.6040912
Stddev	.0016426	.0008473	.0024249	.0024079	.0011801	.0003540	.0008468
%RSD	1.134612	9.206770	63.01201	.2861239	4.006103	.1215429	.1401803
#1	.1436116	.0098019	.0055629	.8398660	.0302931	.2914865	.6034924
#2	.1459346	.0086037	.0021336	.8432713	.0286242	.2909859	.6046900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0046486	.6483800	.8524762
Stddev	.0047712	.0011905	.0037764
%RSD	102.6366	.1836130	.4429867
#1	.0012749	.6475382	.8498059
#2	.0080224	.6492218	.8551465
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2928.103	1719.579	8964.173	7716.363
Stddev	1.339	1.605	27.999	8.974
%RSD	.0457304	.0933193	.3123474	.1162940
#1	2929.050	1720.714	8944.374	7710.018
#2	2927.156	1718.445	8983.971	7722.708

Sample Name: 500-221506-d-5-c ms Acquired: 9/7/2022 17:30:44 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0428488	319.2077	.1515397	.5782035	2.471637	.0541378	.5296344
Stddev	.0001092	2.3033	.0049213	.0003887	.029308	.0002818	.0002196
%RSD	.2547497	.7215655	3.247534	.0672267	1.185754	.5204580	.0414542

#1	.0427716	317.5791	.1480598	.5779287	2.450913	.0543371	.5297896
#2	.0429259	320.8364	.1550196	.5784784	2.492360	.0539386	.5294792

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.64661	.0454577	.3110516	.5325078	.8800879	.3552174	305.1788
Stddev	.18694	.0000364	.0043889	.0024192	.0055120	.0012218	2.1131
%RSD	.5726138	.0799543	1.410992	.4542983	.6263056	.3439501	.6923985

#1	32.51442	.0454320	.3079482	.5307972	.8839855	.3543535	303.6846
#2	32.77880	.0454834	.3141551	.5342185	.8761903	.3560814	306.6730

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.64234	.6020608	26.92601	.9683672	.8702306	10.56403	.8086540
Stddev	.02662	.0003396	.13894	.0054296	.0020752	.01173	.0013573
%RSD	.1080335	.0564067	.5159882	.5606934	.2384601	.1110825	.1678419

#1	24.62352	.6018206	26.82777	.9645279	.8687633	10.55574	.8076943
#2	24.66116	.6023009	27.02425	.9722065	.8716980	10.57233	.8096137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221506-d-5-c ms Acquired: 9/7/2022 17:30:44 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2362056	.1900428	.0819323	1.091582	.9159176	1.178598	1.265950
Stddev	.0003930	.0011111	.0000756	.000011	.0073268	.003750	.004020
%RSD	.1663999	.5846351	.0922325	.0010514	.7999435	.3181632	.3175722

#1	.2364835	.1892572	.0819857	1.091590	.9107367	1.175947	1.268792
#2	.2359276	.1908285	.0818789	1.091574	.9210984	1.181250	1.263107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0871376	1.022201	1.511788
Stddev	.0004048	.006218	.008406
%RSD	.4644906	.6083194	.5560559

#1	.0868514	1.026598	1.505843
#2	.0874238	1.017804	1.517732

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.935	1744.880	8666.716	7622.826
Stddev	1.941	6.860	66.157	23.869
%RSD	.0665823	.3931303	.7633440	.3131235

#1	2914.562	1740.029	8713.496	7605.948
#2	2917.308	1749.730	8619.936	7639.704

Sample Name: 500-221506-d-5-d msd Acquired: 9/7/2022 17:33:56 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0443501	382.9980	.1435075	.6221948	2.165523	.0581866	.5374786
Stddev	.0003589	6.9890	.0012920	.0002206	.044839	.0003572	.0009595
%RSD	.8092167	1.824813	.9002759	.0354538	2.070599	.6139506	.1785096

#1	.0440963	378.0561	.1444211	.6220388	2.133817	.0579340	.5368002
#2	.0446038	387.9400	.1425940	.6223508	2.197229	.0584392	.5381571

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.49620	.0442839	1.466205	.6986403	.6355523	.3869465	327.7436
Stddev	.37517	.0003032	.007488	.0027883	.0005403	.0002749	1.4775
%RSD	1.191168	.6845630	.5107194	.3991076	.0850048	.0710409	.4508091

#1	31.76149	.0440695	1.460910	.6966687	.6351702	.3867522	328.7883
#2	31.23091	.0444983	1.471500	.7006120	.6359343	.3871409	326.6988

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.85752	.7074927	33.55782	2.731556	.7443072	10.70144	.8930001
Stddev	1.04944	.0238049	.23584	.001400	.0021626	.33218	.0022687
%RSD	2.772071	3.364686	.7027824	.0512366	.2905533	3.104111	.2540537

#1	37.11545	.6906601	33.39106	2.730567	.7427780	10.46655	.8913959
#2	38.59958	.7243254	33.72458	2.732546	.7458364	10.93633	.8946043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221506-d-5-d msd Acquired: 9/7/2022 17:33:56 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3946586	.1266697	.0781851	2.477748	.9056336	1.139669	1.337887
Stddev	.0028051	.0003807	.0001648	.006882	.0074827	.001191	.001229
%RSD	.7107673	.3005163	.2108338	.2777341	.8262452	.1044641	.0918311

#1	.3926750	.1269388	.0783017	2.472882	.9003425	1.138827	1.337018
#2	.3966421	.1264005	.0780686	2.482614	.9109247	1.140510	1.338756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0871775	.9948548	1.696871
Stddev	.0007870	.0008261	.009577
%RSD	.9027989	.0830401	.5643724

#1	.0877340	.9954390	1.690099
#2	.0866210	.9942707	1.703643

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2850.556	1804.436	9075.654	7810.415
Stddev	1.602	.796	8.687	29.540
%RSD	.0562104	.0441218	.0957226	.3782070

#1	2851.689	1803.873	9081.797	7831.303
#2	2849.423	1804.999	9069.511	7789.527

Sample Name: 500-221506-d-6-a Acquired: 9/7/2022 17:37:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021757	76.63752	.0331195	.2126550	.7539202	.0044645
Stddev	.0002526	.12848	.0002554	.0007304	.0021707	.0000686
%RSD	11.60814	.1676423	.7710404	.3434848	.2879156	1.536604

#1	.0019972	76.54667	.0333001	.2131715	.7523853	.0044160
#2	.0023543	76.72836	.0329390	.2121385	.7554551	.0045130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003496	F 1144.177	.0045770	.3253089	.1232146	.0907927
Stddev	.001733	29.462	.0000992	.0014701	.0002815	.0011727
%RSD	49.58275	2.574936	2.167847	.4518970	.2284418	1.291584

#1	-.004721	1123.344	.0045068	.3242695	.1234136	.0916219
#2	-.002270	1165.010	.0046471	.3263484	.1230156	.0899635

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0768688	70.37051	30.85197	.1862896	F 609.1995	4.999104
Stddev	.0004795	.83334	.41010	.0025268	6.1162	.069736
%RSD	.6237840	1.184216	1.329259	1.356374	1.003977	1.394976

#1	.0765298	69.78125	31.14195	.1880763	604.8747	4.949793
#2	.0772079	70.95977	30.56198	.1845029	613.5243	5.048414

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					600.0000	
Low Limit					-.100000	

Sample Name: 500-221506-d-6-a Acquired: 9/7/2022 17:37:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249398	4.972914	.2301176	.1469252	.0027292	.0020909
Stddev	.0000492	.068471	.0000313	.0018258	.0016253	.0021874
%RSD	.1973414	1.376884	.0136194	1.242681	59.55339	104.6166

#1	.0249050	5.021331	.2301397	.1482162	.0038784	.0036376
#2	.0249746	4.924498	.2300954	.1456342	.0015799	.0005441

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.121048	.0187319	1.103535	.1877657	.0081718	.1107257
Stddev	.001947	.0010232	.025297	.0038697	.0013641	.0003339
%RSD	.0623956	5.462514	2.292384	2.060928	16.69282	.3015605

#1	3.122425	.0180083	1.085647	.1905020	.0072072	.1109618
#2	3.119671	.0194554	1.121422	.1850294	.0091363	.1104896

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1325871
Stddev	.0001736
%RSD	.1309102

#1	.1324644
#2	.1327099

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221506-d-6-a Acquired: 9/7/2022 17:37:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2270.661	1419.537	7447.110	6854.453
Stddev	6.266	5.658	76.131	29.588
%RSD	.2759532	.3985547	1.022292	.4316545
#1	2266.231	1415.537	7500.943	6833.531
#2	2275.092	1423.538	7393.277	6875.374

Sample Name: 500-221506-e-8-a Acquired: 9/7/2022 17:40:26 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043210	102.7087	.0566032	.0150982	.9931026	.0071352
Stddev	.0003210	.3823	.0017224	.0002570	.0011254	.0003763
%RSD	7.428653	.3722485	3.042985	1.702407	.1133215	5.273113

#1	.0045480	102.4384	.0553852	.0152800	.9923068	.0068692
#2	.0040941	102.9791	.0578211	.0149165	.9938983	.0074013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149908	13.68281	.0013511	.7205180	.1781212	.1225761
Stddev	.0008490	.22674	.0002058	.0091006	.0003374	.0015355
%RSD	5.663818	1.657147	15.23371	1.263064	.1894361	1.252716

#1	.0143904	13.52247	.0012056	.7140829	.1778826	.1236619
#2	.0155912	13.84314	.0014967	.7269531	.1783598	.1214903

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0746268	147.4365	6.970580	.0784617	11.90777	14.89970
Stddev	.0010327	2.0379	.085034	.0013128	.04633	.19366
%RSD	1.383816	1.382216	1.219902	1.673129	.3890771	1.299779

#1	.0738966	145.9955	7.030708	.0793900	11.87501	14.76276
#2	.0753570	148.8775	6.910451	.0775335	11.94053	15.03664

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221506-e-8-a Acquired: 9/7/2022 17:40:26 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070609	.1732928	.1159062	.1516747	-.000375	.0021613
Stddev	.0002470	.0016345	.0000396	.0002270	.000830	.0004729
%RSD	3.497463	.9432252	.0341999	.1496767	221.4340	21.88040

#1	.0072356	.1744486	.1158782	.1515142	.000212	.0018269
#2	.0068863	.1721370	.1159343	.1518352	-.000962	.0024957

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.101164	.0169308	.0702800	1.451777	F -.010919	.2427319
Stddev	.000890	.0014157	.0003707	.001530	.000555	.0007974
%RSD	.0423679	8.361777	.5274813	.1053654	5.086892	.3285165

#1	2.101793	.0179319	.0700179	1.452859	-.011311	.2432958
#2	2.100534	.0159298	.0705421	1.450695	-.010526	.2421681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					10.00000	
Low Limit					-.010000	

Elem	Zn2062
Units	ppm
Avg	.4289313
Stddev	.0026544
%RSD	.6188461

#1	.4270543
#2	.4308082

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221506-e-8-a Acquired: 9/7/2022 17:40:26 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3130.863	1849.147	9453.332	8217.595
Stddev	1.578	1.912	83.267	94.646
%RSD	.0503896	.1034223	.8808181	1.151750
#1	3129.747	1847.795	9512.210	8150.670
#2	3131.979	1850.500	9394.453	8284.520

Sample Name: CCV Acquired: 9/7/2022 17:43:34 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5034101	48.26362	.5224190	.5169618	.4867451	.5010617
Stddev	.0004716	.50889	.0083429	.0027066	.0031293	.0042504
%RSD	.0936792	1.054398	1.596976	.5235514	.6428928	.8482752
#1	.5037435	47.90378	.5165197	.5150480	.4845323	.4980562
#2	.5030766	48.62346	.5283184	.5188757	.4889578	.5040672

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5351542	26.41530	.5156687	F .1020547	.5476786	.4827361
Stddev	.0053583	.39692	.0014166	.0066501	.0015544	.0006094
%RSD	1.001255	1.502598	.2747098	6.516223	.2838176	.1262341
#1	.5313654	26.13463	.5146670	.1067571	.5487777	.4831670
#2	.5389431	26.69596	.5166704	.0973524	.5465794	.4823052

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Fail** **Chk Pass** **Chk Pass**
 Value
 Range **.5000000**
 -10.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5050854	25.78270	47.53992	3.654621	24.68755	4.902115
Stddev	.0005730	.36027	.03134	.006287	.18085	.043351
%RSD	.1134357	1.397340	.0659170	.1720255	.7325481	.8843357
#1	.5054905	25.52795	47.56208	3.659067	24.55967	4.871461
#2	.5046803	26.03745	47.51776	3.650176	24.81543	4.932769

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 Value
 Range

Sample Name: CCV Acquired: 9/7/2022 17:43:34 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5107535	24.07084	.5410210	.5257275	.5004808	.5125374
Stddev	.0034269	.02247	.0015668	.0025558	.0100834	.0073178
%RSD	.6709429	.0933463	.2895954	.4861412	2.014748	1.427751

#1	.5083303	24.05495	.5421289	.5239203	.4933507	.5073630
#2	.5131766	24.08673	.5399131	.5275347	.5076108	.5177119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1249001	F .5518317	.4972002	.5069600	.5085561	5.000272
Stddev	.0001401	.0027147	.0034953	.0008664	.0012671	.003992
%RSD	.1121368	.4919435	.7030075	.1708982	.2491491	.0798401

#1	.1248011	.5499121	.4947286	.5063474	.5076601	5.003095
#2	.1249992	.5537513	.4996718	.5075727	.5094520	4.997449

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000	.5000000				
Range	-10.0000%	10.0000%				

Elem	Zn2062
Units	ppm
Avg	F .5787596
Stddev	.0053478
%RSD	.9240161

#1	.5825411
#2	.5749781

Check ?	Chk Fail
Value	.5000000
Range	10.0000%

Sample Name: CCV Acquired: 9/7/2022 17:43:34 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.739	1640.336	8294.621	7374.935
Stddev	27.878	21.913	3.404	40.595
%RSD	.9022636	1.335869	.0410335	.5504443
#1	3109.451	1655.831	8297.028	7346.230
#2	3070.026	1624.842	8292.214	7403.640

Sample Name: CCB Acquired: 9/7/2022 17:46:40 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0000946	.0210293	-.004238	.0011343	.0001595	.0005230	-.000302
Stddev	.0000326	.0095007	.001308	.0003338	.0000924	.0000119	.000421
%RSD	34.44294	45.17838	30.86812	29.42341	57.91779	2.265324	139.3345
#1	.0001177	.0277473	-.003313	.0013704	.0002248	.0005314	-.000004
#2	.0000716	.0143113	-.005163	.0008983	.0000941	.0005146	-.000600

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0166562	.0000936	.0049117	.0001663	.0006050	.0010536	.0098125
Stddev	.0026344	.0000834	.0041338	.0000697	.0001472	.0000249	.0621542
%RSD	15.81627	89.16278	84.16183	41.93543	24.33182	2.363535	633.4218
#1	.0185190	.0001526	.0019887	.0002156	.0007091	.0010360	-.034137
#2	.0147934	.0000346	.0078347	.0001170	.0005010	.0010712	.053762

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.016542	.0014401	.0143307	.0021112	.0005774	-.057245	-.000232
Stddev	.000475	.0008015	.0039977	.0008434	.0006042	.001248	.000288
%RSD	2.871309	55.65737	27.89651	39.94995	104.6567	2.180338	123.8477
#1	-.016878	.0020068	.0115038	.0027077	.0010046	-.056362	-.000436
#2	-.016206	.0008733	.0171575	.0015149	.0001501	-.058127	-.000029

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/7/2022 17:46:40 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009432	.0037144	-.000277	-.000349	.0003995	.0000857	.0011115
Stddev	.0004945	.0008341	.002517	.000322	.0005562	.0000149	.0000660
%RSD	52.43194	22.45599	909.2649	92.45461	139.2375	17.37363	5.940361
#1	.0012929	.0031246	-.002056	-.000577	.0000062	.0000962	.0011581
#2	.0005935	.0043042	.001503	-.000121	.0007928	.0000752	.0010648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0016083	.0011166	-.000176
Stddev	.0003710	.0002231	.000177
%RSD	23.06973	19.97872	101.0786
#1	.0013460	.0009588	-.000050
#2	.0018707	.0012743	-.000301
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3654.203	1688.865	8691.015	7581.560
Stddev	37.412	38.643	36.545	117.151
%RSD	1.023799	2.288124	.4204865	1.545214
#1	3680.657	1716.190	8665.174	7664.398
#2	3627.749	1661.541	8716.856	7498.721

Sample Name: 500-221453-f-1-i Acquired: 9/7/2022 17:49:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0179541	170.9634	.1225127	.1325514	1.204853	.0125559	.0335752
Stddev	.0009786	2.1341	.0040035	.0000133	.010843	.0001051	.0014779
%RSD	5.450413	1.248264	3.267818	.0100710	.8999521	.8374596	4.401624
#1	.0186461	169.4544	.1196818	.1325608	1.197186	.0126302	.0346202
#2	.0172622	172.4724	.1253436	.1325419	1.212520	.0124815	.0325302

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	378.7836	.0113188	.8038219	.1531592	.2740949	.5555230	268.4645
Stddev	14.1078	.0001529	.0031952	.0000500	.0012820	.0044018	3.0295
%RSD	3.724506	1.350760	.3975065	.0326574	.4677289	.7923689	1.128472
#1	368.8079	.0112107	.8015625	.1531238	.2750014	.5524104	266.3222
#2	388.7593	.0114269	.8060813	.1531945	.2731884	.5586355	270.6067

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	25.87546	.2128470	228.6452	4.940090	.0474084	3.446579	.3865995
Stddev	.35539	.0029927	1.9492	.042964	.0000167	.052208	.0007096
%RSD	1.373455	1.406042	.8524949	.8696948	.0352020	1.514772	.1835457
#1	25.62416	.2107309	227.2669	4.909710	.0473966	3.409662	.3860977
#2	26.12676	.2149632	230.0235	4.970470	.0474202	3.483495	.3871012

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221453-f-1-i Acquired: 9/7/2022 17:49:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.817458	.0064895	.0095041	2.381660	.0512391	.3662301	1.345286
Stddev	.001799	.0002256	.0023053	.010047	.0001519	.0022624	.001565
%RSD	.0990094	3.475813	24.25535	.4218287	.2965264	.6177402	.1163043
#1	1.818731	.0066490	.0078741	2.374556	.0511317	.3646304	1.346392
#2	1.816186	.0063300	.0111342	2.388764	.0513465	.3678298	1.344180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0042413	.3378786	2.560773
Stddev	.0018099	.0006120	.011739
%RSD	42.67175	.1811367	.4584193
#1	.0055211	.3383113	2.569074
#2	.0029616	.3374458	2.552473
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.538	1738.709	9061.589	8075.146
Stddev	12.290	11.285	48.515	39.524
%RSD	.4847174	.6490708	.5353958	.4894504
#1	2544.229	1746.689	9095.894	8047.198
#2	2526.848	1730.729	9027.283	8103.093

Sample Name: 500-221453-f-2-e Acquired: 9/7/2022 17:53:32 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0556309	152.5992	.1203799	.1583197	1.153866	.0111967	.0429941
Stddev	.0006674	1.0750	.0013755	.0000705	.007384	.0000074	.0005552
%RSD	1.199600	.7044613	1.142653	.0444965	.6399184	.0662197	1.291403
#1	.0551590	151.8390	.1213526	.1583695	1.148644	.0112019	.0426015
#2	.0561028	153.3593	.1194073	.1582699	1.159087	.0111915	.0433867

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	539.5067	.0115455	.6921785	.1496329	.2346517	.9841268	263.6753
Stddev	14.6874	.0000915	.0119725	.0000519	.0006168	.0017437	1.4655
%RSD	2.722382	.7925094	1.729686	.0346835	.2628772	.1771783	.5557991
#1	529.1211	.0116102	.6837127	.1495962	.2350879	.9828938	262.6391
#2	549.8923	.0114808	.7006444	.1496696	.2342156	.9853598	264.7116

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.68508	.2168383	292.8536	4.903827	.0560314	2.570036	.5160674
Stddev	.08367	.0017846	.8386	.014444	.0004894	.008910	.0022579
%RSD	.3135540	.8230088	.2863429	.2945484	.8734217	.3466795	.4375236
#1	26.62591	.2155764	292.2606	4.893613	.0556853	2.563736	.5144708
#2	26.74424	.2181002	293.4465	4.914041	.0563774	2.576337	.5176640

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221453-f-2-e Acquired: 9/7/2022 17:53:32 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9242275	.0028761	.0077778	2.328095	.0807777	.5369597	1.477856
Stddev	.0047822	.0004701	.0012521	.002576	.0021342	.0004359	.001291
%RSD	.5174292	16.34414	16.09873	.1106402	2.642126	.0811795	.0873277
#1	.9208459	.0032085	.0086632	2.326274	.0792685	.5366515	1.478769
#2	.9276090	.0025437	.0068924	2.329917	.0822868	.5372679	1.476944

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000021	.3096383	2.567306
Stddev	.003471	.0017443	.010608
%RSD	16612.54	.5633277	.4132069
#1	.002434	.3108717	2.559805
#2	-.002476	.3084050	2.574807

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2490.495	1679.222	8779.013	7895.038
Stddev	9.122	1.700	28.227	35.195
%RSD	.3662729	.1012111	.3215259	.4457869
#1	2496.945	1680.424	8798.972	7870.151
#2	2484.045	1678.020	8759.053	7919.924

Sample Name: 500-221453-f-3-e Acquired: 9/7/2022 17:57:05 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0077057	85.82573	.0591353	.1111647	.6235220	.0068719	.0163117
Stddev	.0002170	.43062	.0025599	.0000782	.0006128	.0001898	.0000913
%RSD	2.816256	.5017362	4.328874	.0703226	.0982841	2.761406	.5595904
#1	.0075523	85.52124	.0573252	.1112200	.6230887	.0067377	.0162471
#2	.0078592	86.13023	.0609454	.1111095	.6239553	.0070061	.0163762

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	388.2615	.0063611	.4070915	.0911434	.2252813	.4486063	167.9190
Stddev	15.7680	.0000431	.0043912	.0004242	.0001978	.0019260	2.8917
%RSD	4.061190	.6776977	1.078674	.4654010	.0878143	.4293177	1.722071
#1	377.1118	.0063915	.4101965	.0908434	.2254211	.4499682	165.8743
#2	399.4112	.0063306	.4039865	.0914433	.2251414	.4472445	169.9637

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	15.51776	.1139625	197.6154	1.785967	.0445096	3.996266	.2256668
Stddev	.19225	.0019357	1.8277	.030511	.0002142	.066675	.0011031
%RSD	1.238883	1.698544	.9248973	1.708366	.4812293	1.668427	.4888158
#1	15.65370	.1153312	196.3230	1.764393	.0443581	4.043412	.2248868
#2	15.38182	.1125937	198.9078	1.807541	.0446611	3.949120	.2264468

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221453-f-3-e Acquired: 9/7/2022 17:57:05 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5038379	.0049866	.0033827	2.193803	.0344076	.4063206	1.204972
Stddev	.0011620	.0009336	.0031422	.002089	.0032349	.0036445	.000180
%RSD	.2306293	18.72284	92.88866	.0952064	9.401544	.8969602	.0149579
#1	.5030163	.0043264	.0011609	2.195280	.0321202	.4088977	1.204845
#2	.5046596	.0056467	.0056046	2.192327	.0366950	.4037436	1.205099

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0041086	.2097380	2.534909
Stddev	.0000060	.0012934	.009049
%RSD	.1459044	.6166816	.3569893
#1	.0041044	.2088234	2.528510
#2	.0041129	.2106526	2.541308

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2682.889	1689.735	8622.573	7466.402
Stddev	4.716	.063	64.258	39.595
%RSD	.1757850	.0037331	.7452281	.5303071
#1	2686.224	1689.690	8577.136	7438.404
#2	2679.554	1689.779	8668.010	7494.400

Sample Name: 500-221453-f-4-e Acquired: 9/7/2022 18:00:22 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052096	74.55779	.0468588	.0914186	.5460351	.0060501	.0116543
Stddev	.0001321	.34069	.0031775	.0007251	.0004566	.0000842	.0003737
%RSD	2.535988	.4569423	6.781080	.7931201	.0836236	1.391435	3.206828
#1	.0053031	74.31689	.0446120	.0919313	.5457122	.0059906	.0113900
#2	.0051162	74.79869	.0491057	.0909059	.5463580	.0061097	.0119186

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	420.9017	.0056319	.3685863	.0814158	.1918356	.4224323	146.2460
Stddev	28.3215	.0000276	.0072638	.0001466	.0037528	.0023688	1.3573
%RSD	6.728774	.4903678	1.970707	.1800057	1.956281	.5607471	.9280814
#1	400.8754	.0056124	.3634501	.0815194	.1944893	.4207573	145.2862
#2	440.9281	.0056514	.3737226	.0813122	.1891819	.4241073	147.2057

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.65460	.0975006	180.7744	1.834342	.0322256	3.347975	.1888229
Stddev	.07670	.0006672	1.2002	.009868	.0003559	.025063	.0005807
%RSD	.5617144	.6843571	.6639431	.5379723	1.104382	.7486080	.3075324
#1	13.70884	.0979725	179.9257	1.827364	.0319739	3.365697	.1892335
#2	13.60037	.0970288	181.6231	1.841320	.0324772	3.330252	.1884123

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221453-f-4-e Acquired: 9/7/2022 18:00:22 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4039845	.0030971	.0057681	2.342050	.0345651	.5307603	1.120694
Stddev	.0001986	.0012327	.0020213	.001000	.0003842	.0008716	.002766
%RSD	.0491654	39.80222	35.04259	.0427185	1.111430	.1642168	.2468101
#1	.4038440	.0039688	.0071974	2.341343	.0342935	.5301439	1.122650
#2	.4041249	.0022255	.0043388	2.342758	.0348368	.5313766	1.118738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0069869	.1769151	2.262902
Stddev	.0010523	.0014498	.000611
%RSD	15.06160	.8195193	.0269860
#1	.0077310	.1779403	2.262470
#2	.0062428	.1758899	2.263333
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2689.130	1665.847	8478.246	7503.013
Stddev	2.076	1.895	48.498	32.039
%RSD	.0771991	.1137821	.5720240	.4270130
#1	2690.598	1667.188	8512.539	7480.358
#2	2687.662	1664.507	8443.953	7525.668

Sample Name: 500-221577-d-1-g Acquired: 9/7/2022 18:03:40 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022687	77.30045	.0461859	.1679973	.6229859	.0082383
Stddev	.0006055	1.10314	.0026396	.0005933	.0087224	.0002561
%RSD	26.68850	1.427083	5.715221	.3531292	1.400102	3.109080

#1	.0018406	76.52041	.0443194	.1675778	.6168182	.0080572
#2	.0026969	78.08049	.0480524	.1684168	.6291536	.0084195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033769	F 851.9025	.0041684	.3517868	.0614822	.1235319
Stddev	.0001120	20.9123	.0000408	.0003975	.0002655	.0017681
%RSD	3.317970	2.454781	.9796380	.1129901	.4318392	1.431298

#1	.0034561	837.1152	.0041972	.3515058	.0616699	.1247822
#2	.0032977	866.6897	.0041395	.3520679	.0612945	.1222817

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1973331	115.1810	15.12971	.1131935	353.0940	4.471007
Stddev	.0001665	.1379	.35617	.0033316	1.6654	.007960
%RSD	.0843646	.1197211	2.354132	2.943233	.4716571	.1780363

#1	.1974509	115.2785	14.87786	.1108377	351.9164	4.476636
#2	.1972154	115.0835	15.38156	.1155493	354.2717	4.465379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221577-d-1-g Acquired: 9/7/2022 18:03:40 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230492	2.124824	.1669576	.7312067	-.000764	.0016259
Stddev	.0011000	.064875	.0001668	.0015470	.001004	.0010474
%RSD	4.772252	3.053188	.0998826	.2115607	131.4619	64.42085

#1	.0222715	2.078950	.1668397	.7323005	-.000054	.0008853
#2	.0238270	2.170697	.1670755	.7301128	-.001474	.0023665

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.716035	.0310597	.5576214	1.481762	.0006025	.1405502
Stddev	.007654	.0012588	.0080281	.001617	.0021889	.0004054
%RSD	.2059621	4.053015	1.439699	.1090963	363.2810	.2884592

#1	3.710623	.0319499	.5632981	1.480619	-.000945	.1408369
#2	3.721447	.0301696	.5519447	1.482905	.002150	.1402636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9879845
Stddev	.0013038
%RSD	.1319669

#1	.9889065
#2	.9870626

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221577-d-1-g Acquired: 9/7/2022 18:03:40 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2490.466	1624.083	8374.872	7523.056
Stddev	7.664	8.605	11.566	46.359
%RSD	.3077334	.5298552	.1381033	.6162204
#1	2495.885	1630.168	8366.694	7555.837
#2	2485.047	1617.998	8383.050	7490.276

Sample Name: 500-221514-a-4-c Acquired: 9/7/2022 18:06:56 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032472	50.72608	.0161277	.0093418	.7853420	.0034906	-.002220
Stddev	.0002045	.69898	.0019635	.0000919	.0090692	.0001298	.002494
%RSD	6.296480	1.377940	12.17445	.9837446	1.154816	3.719221	112.3475
#1	.0033918	50.23183	.0147393	.0094068	.7789291	.0035824	-.000456
#2	.0031026	51.22033	.0175161	.0092768	.7917550	.0033988	-.003984

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.246793	.0010800	.5817905	.0421993	.0707895	.0550903	65.87273
Stddev	.034128	.0000193	.0114259	.0000842	.0007376	.0006252	.52703
%RSD	.6504598	1.783897	1.963917	.1995832	1.041907	1.134945	.8000717
#1	5.270925	.0010664	.5737112	.0421397	.0713110	.0555324	65.50007
#2	5.222661	.0010937	.5898698	.0422589	.0702679	.0546482	66.24540

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.284361	.0347860	6.558616	1.865861	.0033019	.6353474	.0718312
Stddev	.059375	.0006356	.006506	.018106	.0002846	.0099479	.0012286
%RSD	1.385856	1.827086	.0991957	.9703990	8.619609	1.565740	1.710459
#1	4.242376	.0343366	6.554015	1.853058	.0031007	.6283132	.0727000
#2	4.326346	.0352354	6.563216	1.878664	.0035032	.6423816	.0709624

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221514-a-4-c Acquired: 9/7/2022 18:06:56 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0749041	.0002708	.0005393	1.381213	.0151798	.0768039	1.172216
Stddev	.0016192	.0004659	.0013357	.001711	.0019150	.0001277	.001595
%RSD	2.161737	172.0388	247.6500	.1238779	12.61568	.1663282	.1360910
#1	.0760491	.0006003	-.000405	1.380003	.0165339	.0768942	1.171088
#2	.0737592	-.000059	.001484	1.382423	.0138257	.0767135	1.173344

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.003298	.1266345	.2313347
Stddev	.000083	.0000640	.0001829
%RSD	2.525180	.0505184	.0790515
#1	-.003357	.1266797	.2312054
#2	-.003239	.1265892	.2314640

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3292.882	1867.854	9609.071	8293.212
Stddev	15.855	9.219	51.084	5.884
%RSD	.4815021	.4935537	.5316232	.0709496
#1	3304.093	1874.373	9572.949	8297.372
#2	3281.671	1861.335	9645.193	8289.051

Sample Name: 500-221514-a-5-c Acquired: 9/7/2022 18:10:05 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0007280	15.46322	.0152636	.0026410	.1040018	.0021609	-.000989
Stddev	.0007275	.33068	.0008804	.0000933	.0014025	.0002106	.000134
%RSD	99.92195	2.138465	5.768174	3.533918	1.348550	9.745916	13.54135
#1	.0002136	15.22940	.0158861	.0025750	.1030100	.0023099	-.000894
#2	.0012424	15.69705	.0146410	.0027070	.1049935	.0020120	-.001083

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	1.442105	.0008447	.1906332	.0523893	.0581189	.0162610	56.56840
Stddev	.009363	.0001197	.0047495	.0001988	.0000634	.0000360	.62407
%RSD	.6492530	14.17555	2.491418	.3795481	.1090244	.2210962	1.103207
#1	1.435484	.0009294	.1872748	.0522487	.0581637	.0162356	56.12712
#2	1.448725	.0007600	.1939916	.0525299	.0580741	.0162865	57.00968

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	.9973836	.0056366	.9336909	3.360144	.0081050	.2243740	.0281743
Stddev	.0270615	.0002010	.0117163	.025963	.0002868	.0034934	.0001290
%RSD	2.713249	3.565849	1.254837	.7726889	3.538010	1.556944	.4579732
#1	.9782482	.0057787	.9254062	3.341785	.0079022	.2219038	.0282655
#2	1.016519	.0054945	.9419756	3.378503	.0083078	.2268442	.0280830

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221514-a-5-c Acquired: 9/7/2022 18:10:05 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0285320	.0004911	.0007927	.8698625	.0120692	.0249182	.4596401
Stddev	.0000951	.0009992	.0024888	.0005532	.0004133	.0000304	.0026127
%RSD	.3334099	203.4833	313.9729	.0635960	3.424261	.1221747	.5684280
#1	.0285993	-.000216	.0025525	.8694713	.0117770	.0249397	.4577926
#2	.0284647	.001198	-.000967	.8702537	.0123614	.0248967	.4614876

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004155	.0619452	.0849414
Stddev	.000576	.0003612	.0003725
%RSD	13.87556	.5831616	.4385718
#1	-.003747	.0622007	.0846780
#2	-.004562	.0616898	.0852048

Check ? **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3422.434	1712.473	8910.157	7680.708
Stddev	4.058	2.091	8.318	34.771
%RSD	.1185667	.1221131	.0933537	.4527037
#1	3419.565	1713.951	8904.275	7705.295
#2	3425.303	1710.994	8916.038	7656.121

Sample Name: 500-221514-a-6-c Acquired: 9/7/2022 18:13:16 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0023074	35.92432	.0169310	.0286467	.7298493	.0031089	.0000563
Stddev	.0002318	.51114	.0012441	.0001812	.0067502	.0001357	.0015657
%RSD	10.04531	1.422816	7.347955	.6323960	.9248805	4.364573	2779.768
#1	.0021435	35.56289	.0178107	.0285186	.7250761	.0030130	.0011634
#2	.0024712	36.28575	.0160513	.0287748	.7346224	.0032049	-.001051

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	26.39405	.0012045	.3990208	.0564998	.1090623	.1280038	68.85137
Stddev	.26369	.0000772	.0051995	.0003064	.0001818	.0001151	.89713
%RSD	.9990451	6.413462	1.303056	.5423376	.1666851	.0898891	1.302998
#1	26.20760	.0011499	.3953443	.0562831	.1089338	.1280852	68.21700
#2	26.58051	.0012591	.4026974	.0567165	.1091909	.1279225	69.48574

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	3.103587	.0246783	4.932644	5.437262	.0055058	1.315977	.0709447
Stddev	.044025	.0001643	.047437	.051341	.0000417	.013928	.0003025
%RSD	1.418504	.6657641	.9616876	.9442524	.7580074	1.058370	.4264438
#1	3.072457	.0245621	4.899101	5.400958	.0054763	1.306129	.0707307
#2	3.134717	.0247945	4.966187	5.473566	.0055353	1.325826	.0711586

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221514-a-6-c Acquired: 9/7/2022 18:13:16 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0764868	-.000676	.0015463	2.036926	.0138591	.2349603	1.121216
Stddev	.0007739	.001297	.0019988	.021585	.0015434	.0001339	.001526
%RSD	1.011813	191.7488	129.2627	1.059682	11.13623	.0569714	.1361151
#1	.0770341	-.001593	.0001330	2.021663	.0127677	.2350549	1.122295
#2	.0759396	.000241	.0029597	2.052189	.0149504	.2348656	1.120137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005944	.1068816	.2457488
Stddev	.000351	.0010188	.0013687
%RSD	5.901782	.9531889	.5569647
#1	-.005696	.1076020	.2467167
#2	-.006192	.1061612	.2447810
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3324.226	1798.096	9281.311	8024.502
Stddev	34.057	25.667	3.328	15.970
%RSD	1.024509	1.427453	.0358586	.1990171
#1	3348.308	1816.246	9283.664	8013.209
#2	3300.144	1779.947	9278.957	8035.795

Sample Name: 500-221514-a-7-c Acquired: 9/7/2022 18:16:24 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0023291	45.44575	.0101248	.0450352	1.012705	.0034975	-.003928
Stddev	.0001627	.40008	.0041580	.0000256	.004879	.0001567	.000447
%RSD	6.987476	.8803388	41.06774	.0569059	.4817807	4.480524	11.36908
#1	.0024441	45.16285	.0071846	.0450171	1.009255	.0033867	-.003612
#2	.0022140	45.72864	.0130650	.0450533	1.016155	.0036083	-.004244

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	37.17267	.0016291	.4266910	.0363706	.0700131	.0711970	55.18728
Stddev	.50555	.0001276	.0039315	.0002028	.0002547	.0000487	.83149
%RSD	1.360015	7.830557	.9213843	.5576629	.3637462	.0684581	1.506674
#1	36.81519	.0015389	.4294709	.0362272	.0698330	.0711625	54.59933
#2	37.53015	.0017193	.4239110	.0365141	.0701931	.0712314	55.77523

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	3.924833	.0298120	7.006152	1.036131	.0068278	1.484163	.0669419
Stddev	.031822	.0003646	.042120	.008599	.0007280	.002567	.0002897
%RSD	.8107756	1.223097	.6011928	.8299362	10.66257	.1729760	.4326886
#1	3.947334	.0300699	6.976368	1.030050	.0073426	1.485979	.0667371
#2	3.902332	.0295542	7.035935	1.042212	.0063130	1.482348	.0671468

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221514-a-7-c Acquired: 9/7/2022 18:16:24 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606942	-.001255	.0016634	2.608208	.0140569	.3534773	1.440704
Stddev	.0005531	.000747	.0035894	.002472	.0015886	.0007063	.001554
%RSD	.9112454	59.52965	215.7893	.0947682	11.30110	.1998091	.1078760
#1	.0610853	-.000726	.0042015	2.606460	.0151802	.3539768	1.439605
#2	.0603031	-.001783	-.000875	2.609956	.0129336	.3529779	1.441803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0002377	.1191195	.2440351
Stddev	.0006863	.0001246	.0030159
%RSD	288.6851	.1045986	1.235825
#1	.0007230	.1192076	.2419026
#2	-.000248	.1190314	.2461676
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3211.888	1783.133	9275.725	7967.637
Stddev	21.104	12.895	3.192	48.359
%RSD	.6570714	.7231662	.0344142	.6069440
#1	3196.965	1774.015	9273.468	7933.441
#2	3226.812	1792.251	9277.982	8001.831

Sample Name: 500-221514-a-8-c Acquired: 9/7/2022 18:19:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0008686	19.82140	.0182406	.0197984	.3775498	.0021525	-.001778
Stddev	.0011767	.19438	.0029200	.0000776	.0039398	.0001101	.001766
%RSD	135.4638	.9806570	16.00821	.3918212	1.043531	5.117072	99.28173
#1	.0000366	19.68395	.0203053	.0197435	.3747639	.0022304	-.000530
#2	.0017007	19.95885	.0161758	.0198532	.3803357	.0020746	-.003027

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	28.82395	.0008720	.1890732	.0198072	.0843219	.0347313	55.03317
Stddev	.34988	.0001613	.0059188	.0002045	.0002324	.0000370	.74520
%RSD	1.213844	18.49306	3.130427	1.032310	.2755871	.1065884	1.354087
#1	28.57655	.0007580	.1848880	.0196626	.0844862	.0347575	54.50624
#2	29.07135	.0009860	.1932584	.0199518	.0841576	.0347052	55.56010

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	1.566327	.0136567	2.623198	.7615679	.0034734	.5231621	.0364385
Stddev	.008476	.0006078	.016535	.0086262	.0000104	.0024258	.0003089
%RSD	.5411239	4.450911	.6303242	1.132691	.2988204	.4636853	.8478351
#1	1.560334	.0132269	2.611506	.7554683	.0034661	.5214468	.0362200
#2	1.572320	.0140865	2.634890	.7676676	.0034808	.5248775	.0366570

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221514-a-8-c Acquired: 9/7/2022 18:19:38 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0317127	-.000345	.0004587	1.754877	.0128072	.2276334	.7178926
Stddev	.0010348	.000340	.0000655	.004973	.0001392	.0001996	.0013176
%RSD	3.262953	98.51747	14.27356	.2833976	1.086775	.0876847	.1835360
#1	.0324444	-.000586	.0005050	1.751361	.0127087	.2277745	.7188243
#2	.0309810	-.000105	.0004124	1.758394	.0129056	.2274923	.7169609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001035	.0791889	.3222779
Stddev	.001941	.0001478	.0005542
%RSD	187.4900	.1866404	.1719790
#1	.000337	.0792935	.3226699
#2	-.002407	.0790844	.3218860
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.019	1705.524	8794.955	7654.862
Stddev	13.743	12.925	25.651	37.168
%RSD	.4130685	.7578176	.2916503	.4855465
#1	3336.736	1714.663	8813.093	7628.581
#2	3317.301	1696.385	8776.818	7681.144

Sample Name: CCV Acquired: 9/7/2022 18:22:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000338	48.15006	.5215350	.5174523	.4860575	.4954814
Stddev	.0001204	.59672	.0002191	.0011340	.0056912	.0062366
%RSD	.0240710	1.239291	.0420035	.2191535	1.170886	1.258701

#1	.4999487	47.72812	.5216899	.5182542	.4820332	.4910714
#2	.5001189	48.57201	.5213801	.5166505	.4900818	.4998914

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5326271	25.91528	.5158420	F .1042838	.5382590	.4824176
Stddev	.0011971	.23144	.0010936	.0030489	.0038650	.0017985
%RSD	.2247514	.8930638	.2119926	2.923681	.7180583	.3728177

#1	.5317806	25.75163	.5150687	.1021279	.5355260	.4836894
#2	.5334736	26.07893	.5166152	.1064397	.5409920	.4811458

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5003486	25.34261	48.24217	3.735953	24.59698	4.811494
Stddev	.0001017	.24896	.59443	.056203	.42749	.049541
%RSD	.0203209	.9823692	1.232181	1.504390	1.737958	1.029647

#1	.5002767	25.16657	47.82185	3.696211	24.29470	4.776463
#2	.5004205	25.51865	48.66250	3.775695	24.89926	4.846525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 18:22:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5115332	24.54717	.5319331	.5211516	.5013292	.5082497
Stddev	.0008999	.33963	.0037381	.0012295	.0047157	.0003674
%RSD	.1759266	1.383570	.7027291	.2359169	.9406300	.0722801

#1	.5108968	24.30702	.5292899	.5202822	.4979948	.5079900
#2	.5121695	24.78732	.5345763	.5220210	.5046637	.5085095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1218882	.5451442	.4936024	.5014566	.5002120	4.957623
Stddev	.0018388	.0050004	.0018370	.0005907	.0024104	.009004
%RSD	1.508578	.9172645	.3721660	.1178029	.4818729	.1816236

#1	.1231885	.5416083	.4949014	.5010388	.4985076	4.963990
#2	.1205880	.5486800	.4923034	.5018742	.5019164	4.951256

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	F .5639998
Stddev	.0073154
%RSD	1.297049

#1	.5588270
#2	.5691725

Check ?	Chk Fail
Value	.5000000
Range	10.0000%

Sample Name: CCV Acquired: 9/7/2022 18:22:48 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.764	1631.260	8348.386	7371.461
Stddev	2.199	6.813	6.416	21.003
%RSD	.0707352	.4176301	.0768557	.2849205
#1	3107.209	1626.442	8352.923	7386.312
#2	3110.319	1636.077	8343.849	7356.609

Sample Name: CCB Acquired: 9/7/2022 18:25:54 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0000052	.0102465	-.002811	.0008105	.0001739	.0003569	-.000557
Stddev	.0006167	.0018216	.000357	.0001477	.0000313	.0001570	.000630
%RSD	11805.63	17.77800	12.69779	18.22016	17.99122	43.98861	113.1329
#1	-.000431	.0115346	-.002559	.0009149	.0001960	.0004679	-.001003
#2	.000441	.0089584	-.003064	.0007061	.0001518	.0002459	-.000111

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0093762	.0000637	.0024640	.0002953	.0002173	.0012244	.0105396
Stddev	.0037926	.0000859	.0039380	.0000176	.0010543	.0001833	.0029850
%RSD	40.44879	134.9503	159.8211	5.952706	485.1196	14.97372	28.32185
#1	.0120580	.0001244	.0052486	.0003078	.0009628	.0010947	.0126504
#2	.0066945	.0000029	-.000321	.0002829	-.000528	.0013540	.0084289

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.017725	.0011606	.0215088	.0011271	.0004697	-.058669	-.000394
Stddev	.009472	.0002213	.0035284	.0008511	.0000361	.004489	.000099
%RSD	53.43714	19.06392	16.40448	75.51501	7.681496	7.650950	25.11459
#1	-.011028	.0013171	.0240038	.0017289	.0004952	-.055495	-.000324
#2	-.024423	.0010042	.0190139	.0005253	.0004441	-.061843	-.000464

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: CCB Acquired: 9/7/2022 18:25:54 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001054	.0026445	.0013531	.0001614	.0003371	.0000962	.0011366
Stddev	.0009631	.0015694	.0006701	.0002704	.0007615	.0000124	.0000341
%RSD	913.6901	59.34376	49.52168	167.6034	225.8876	12.88373	3.000488
#1	.0007864	.0037542	.0008793	-.000030	.0008756	.0001049	.0011608
#2	-.000576	.0015348	.0018268	.000353	-.000201	.0000874	.0011125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0006302	.0006919	-.000046
Stddev	.0005569	.0000935	.000289
%RSD	88.37201	13.51635	627.0702
#1	.0010240	.0007580	.000158
#2	.0002364	.0006258	-.000250
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3669.967	1694.090	8738.320	7474.331
Stddev	5.682	.913	59.206	14.785
%RSD	.1548164	.0538691	.6775431	.1978118
#1	3673.985	1694.735	8696.455	7484.786
#2	3665.950	1693.445	8780.185	7463.877

Sample Name: 500-221514-a-9-c Acquired: 9/7/2022 18:29:11 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0004901	28.10071	.0149426	.0115120	.4154575	.0027739	-.003452
Stddev	.0005062	.00906	.0001653	.0003330	.0010192	.0001883	.000275
%RSD	103.2818	.0322318	1.106142	2.892641	.2453246	6.788701	7.974419
#1	.0001322	28.09431	.0148257	.0112765	.4161782	.0029070	-.003646
#2	.0008481	28.10712	.0150595	.0117475	.4147368	.0026407	-.003257

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	325.1619	.0017758	.2880119	.0267603	.0646500	.0402225	51.31625
Stddev	.3489	.0000346	.0020368	.0000076	.0010973	.0001980	1.24062
%RSD	.1072982	1.945735	.7072086	.0285637	1.697259	.4921644	2.417597
#1	324.9152	.0017514	.2894522	.0267657	.0654259	.0403625	50.43900
#2	325.4086	.0018003	.2865716	.0267549	.0638741	.0400826	52.19350

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	2.622643	.0201393	22.36031	.8472045	.0055972	.6800326	.0556734
Stddev	.061515	.0003416	.15277	.0203038	.0007912	.0173756	.0007162
%RSD	2.345523	1.696318	.6832098	2.396559	14.13492	2.555109	1.286344
#1	2.666141	.0203809	22.25228	.8328475	.0050377	.6923190	.0561798
#2	2.579146	.0198978	22.46833	.8615614	.0061566	.6677462	.0551670

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221514-a-9-c Acquired: 9/7/2022 18:29:11 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0440712	.0004341	-.000119	1.240474	.0145560	.3342143	.6876030
Stddev	.0026755	.0010366	.001557	.015080	.0010209	.0011897	.0005028
%RSD	6.070819	238.7725	1308.128	1.215701	7.013543	.3559730	.0731235
#1	.0459631	.0011671	.000982	1.229811	.0152779	.3350556	.6879585
#2	.0421794	-.000299	-.001220	1.251138	.0138342	.3333731	.6872474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007224	.0840401	.2702417
Stddev	.0012945	.0004275	.0030151
%RSD	179.1954	.5086429	1.115719
#1	.0016377	.0843424	.2723737
#2	-.000193	.0837378	.2681097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2884.239	1653.358	8499.575	7391.037
Stddev	33.168	33.799	31.312	105.005
%RSD	1.149963	2.044276	.3683898	1.420704
#1	2907.692	1677.258	8477.434	7316.787
#2	2860.786	1629.458	8521.715	7465.287

Sample Name: mb 500-672912/1-a Acquired: 9/7/2022 18:32:48 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006453	.0024058	-.005961	-.001283	.0001286	.0000975	-.007542
Stddev	.0003391	.0117173	.003144	.000158	.0000214	.0001702	.000784
%RSD	52.55332	487.0351	52.73847	12.28900	16.63285	174.4679	10.39543

#1	.0008851	.0106912	-.008184	-.001395	.0001437	-.000023	-.006988
#2	.0004055	-.005880	-.003738	-.001172	.0001135	.000218	-.008096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633233	.0004027	.0011928	-.000492	-.000113	.0014360	.0538595
Stddev	.0068084	.0000719	.0000401	.000157	.000633	.0002051	.0373971
%RSD	10.75181	17.85810	3.360161	31.97297	557.7476	14.28008	69.43447

#1	.0681376	.0004535	.0012212	-.000603	-.000561	.0012910	.0803033
#2	.0585090	.0003518	.0011645	-.000381	.000334	.0015810	.0274158

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023611	.0001510	.0195201	.0003620	.0008221	-.059081	-.003029
Stddev	.000788	.0004039	.0040301	.0001030	.0001316	.002629	.000269
%RSD	3.337321	267.5745	20.64591	28.44205	16.00365	4.450158	8.888051

#1	-.023054	.0004366	.0166704	.0002892	.0007290	-.057222	-.003219
#2	-.024168	-.000135	.0223698	.0004349	.0009151	-.060940	-.002838

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-672912/1-a Acquired: 9/7/2022 18:32:48 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001568	-.000335	-.003193	.0090125	.0109405	.0000669	.0015019
Stddev	.000056	.000456	.001279	.0001830	.0011552	.0000071	.0002396
%RSD	3.564127	135.9822	40.05754	2.030178	10.55893	10.67205	15.95032

#1	-.001607	-.000013	-.002288	.0088831	.0117573	.0000719	.0016714
#2	-.001528	-.000657	-.004097	.0091419	.0101236	.0000618	.0013326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002237	-.000039	.0001671
Stddev	.000768	.000759	.0001062
%RSD	34.33088	1924.542	63.57170

#1	-.001694	-.000576	.0002422
#2	-.002780	.000497	.0000920

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3626.725	1677.210	8842.714	7526.350
Stddev	17.933	16.838	24.811	10.238
%RSD	.4944625	1.003932	.2805829	.1360336

#1	3639.405	1689.116	8825.169	7519.110
#2	3614.044	1665.304	8860.258	7533.589

Sample Name: lcs 500-672912/2-a Acquired: 9/7/2022 18:37:33 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0395285	1.880472	.0904838	.8883036	2.002120	.0434893	.4531815
Stddev	.0001292	.023273	.0040591	.0007993	.015517	.0010675	.0001632
%RSD	.3269577	1.237616	4.485960	.0899824	.7750294	2.454661	.0360104

#1	.0394371	1.864016	.0876136	.8877384	1.991148	.0427344	.4532969
#2	.0396199	1.896929	.0933540	.8888688	2.013093	.0442441	.4530661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.531024	.0476716	.0530028	.5133333	.1886022	.2493528	.9881668
Stddev	.148729	.0001210	.0033049	.0016686	.0008033	.0004533	.0287272
%RSD	1.560471	.2537052	6.235375	.3250517	.4259093	.1818042	2.907115

#1	9.425857	.0475861	.0506659	.5121534	.1891702	.2490322	.9678537
#2	9.636191	.0477571	.0553398	.5145132	.1880342	.2496733	1.008480

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.614751	.4602710	9.279404	.4612123	1.037032	9.822005	.4949176
Stddev	.055042	.0022757	.141390	.0061223	.002467	.030435	.0018850
%RSD	.5724753	.4944325	1.523695	1.327442	.2378718	.3098637	.3808613

#1	9.575830	.4586618	9.179427	.4568831	1.035288	9.800485	.4935847
#2	9.653671	.4618801	9.379382	.4655414	1.038776	9.843526	.4962504

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-672912/2-a Acquired: 9/7/2022 18:37:33 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0930530	.4778967	.0916950	1.147324	.9971668	.9721612	1.002345
Stddev	.0010682	.0005961	.0027001	.003626	.0019043	.0055307	.000392
%RSD	1.147974	.1247285	2.944675	.3160581	.1909738	.5689122	.0391152

#1	.0922977	.4774752	.0897857	1.144760	.9958202	.9682504	1.002067
#2	.0938084	.4783182	.0936043	1.149888	.9985133	.9760720	1.002622

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0909461	.4979079	.5021226
Stddev	.0009133	.0020889	.0026727
%RSD	1.004183	.4195349	.5322715

#1	.0915919	.4993850	.5002327
#2	.0903003	.4964309	.5040124

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3415.637	1690.218	8591.150	7434.951
Stddev	7.144	5.424	30.491	10.115
%RSD	.2091535	.3209289	.3549167	.1360492

#1	3410.585	1686.383	8612.711	7427.799
#2	3420.688	1694.054	8569.589	7442.104

Sample Name: 500-221479-e-1-a Acquired: 9/7/2022 18:40:42 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028016	130.4064	.0675214	.1187971	.6962587	.0087307
Stddev	.0002454	2.2402	.0002187	.0008733	.0100419	.0002641
%RSD	8.761280	1.717869	.3239057	.7351191	1.442273	3.024839

#1	.0029751	128.8223	.0676760	.1181795	.6891579	.0089174
#2	.0026280	131.9904	.0673667	.1194146	.7033594	.0085439

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162097	F 871.6946	.0039312	.5718087	.1571361	.2208398
Stddev	.0039495	28.6958	.0000709	.0075562	.0008398	.0011591
%RSD	24.36467	3.291958	1.802191	1.321456	.5344631	.5248721

#1	.0190024	851.4036	.0038811	.5664657	.1577300	.2216594
#2	.0134171	891.9856	.0039813	.5771518	.1565422	.2200202

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2923254	199.0126	20.54712	.1734660	529.4416	5.728850
Stddev	.0006769	.1386	.29109	.0040926	1.9408	.005763
%RSD	.2315638	.0696433	1.416684	2.359320	.3665772	.1005990

#1	.2928041	198.9145	20.34129	.1705721	528.0692	5.724775
#2	.2918468	199.1106	20.75295	.1763599	530.8139	5.732925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-1-a Acquired: 9/7/2022 18:40:42 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132670	9.477501	.2642441	.4542568	.0020840	.0044135
Stddev	.0012500	.160216	.0006647	.0039889	.0010301	.0023097
%RSD	9.421504	1.690491	.2515581	.8781064	49.42853	52.33323

#1	.0141509	9.364211	.2647142	.4570773	.0028124	.0060467
#2	.0123832	9.590791	.2637741	.4514362	.0013556	.0027803

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.099186	.0306126	.4026854	1.743557	.0016779	.2854521
Stddev	.027706	.0018586	.0012327	.000007	.0003948	.0015924
%RSD	.6758895	6.071350	.3061315	.0003937	23.53219	.5578604

#1	4.079595	.0319268	.4035570	1.743553	.0013987	.2843261
#2	4.118777	.0292984	.4018137	1.743562	.0019571	.2865781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.307384
Stddev	.008489
%RSD	.6493011

#1	1.313387
#2	1.301382

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-1-a Acquired: 9/7/2022 18:40:42 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.173	1627.149	8395.706	7653.540
Stddev	8.841	12.693	19.686	44.160
%RSD	.3758547	.7800494	.2344805	.5769851
#1	2358.425	1636.124	8381.786	7684.766
#2	2345.922	1618.174	8409.627	7622.315

Sample Name: 500-221479-e-1-aSD@5 Acquired: 9/7/2022 18:43:59 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0008175	28.29158	.0137718	.0388282	.1590254	.0024368	.0039372
Stddev	.0008250	.42509	.0021235	.0006785	.0018993	.0001654	.0008018
%RSD	100.9151	1.502543	15.41944	1.747388	1.194340	6.789186	20.36349
#1	.0014009	27.99099	.0152734	.0393080	.1576824	.0023198	.0045042
#2	.0002342	28.59216	.0122703	.0383485	.1603685	.0025537	.0033703

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	216.9779	.0011164	.1376570	.0329121	.0539994	.0634712	47.15297
Stddev	1.2584	.0000299	.0086020	.0003261	.0019535	.0004680	.43661
%RSD	.5799570	2.675413	6.248884	.9909122	3.617695	.7372905	.9259414
#1	216.0881	.0010953	.1315745	.0326815	.0553807	.0631403	46.84424
#2	217.8677	.0011375	.1437396	.0331427	.0526180	.0638021	47.46169

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	4.518238	.0386046	124.1034	1.360344	.0028397	2.055294	.0572272
Stddev	.032130	.0005946	1.4404	.014851	.0002770	.023332	.0006204
%RSD	.7111218	1.540258	1.160640	1.091693	9.756317	1.135196	1.084169
#1	4.495518	.0381842	123.0849	1.349843	.0026437	2.038796	.0567884
#2	4.540957	.0390251	125.1219	1.370845	.0030356	2.071792	.0576659

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221479-e-1-aSD@5 Acquired: 9/7/2022 18:43:59 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1011299	.0007532	.0016691	.9729162	.0055364	.0970071	.4218305
Stddev	.0010207	.0009346	.0010142	.0016945	.0000303	.0000300	.0001793
%RSD	1.009302	124.0918	60.76158	.1741686	.5476293	.0309322	.0425012
#1	.1004082	.0014141	.0023862	.9717180	.0055578	.0970283	.4219573
#2	.1018517	.0000923	.0009520	.9741144	.0055149	.0969859	.4217037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0016894	.0677934	.2751433
Stddev	.0009050	.0006457	.0008628
%RSD	53.56912	.9525064	.3135885
#1	.0023294	.0682500	.2745332
#2	.0010495	.0673368	.2757534
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2932.426	1641.025	8313.907	7412.408
Stddev	16.829	3.685	1.654	5.715
%RSD	.5738931	.2245563	.0198981	.0770954
#1	2944.326	1643.630	8312.737	7408.367
#2	2920.526	1638.419	8315.077	7416.448

Sample Name: 500-221479-e-1-b du Acquired: 9/7/2022 18:47:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043584	130.8551	.0688292	.1085330	.7211661	.0087320
Stddev	.0002791	2.3520	.0010049	.0001427	.0095442	.0004466
%RSD	6.404207	1.797404	1.459962	.1315165	1.323440	5.114145

#1	.0041611	129.1920	.0695398	.1086339	.7144174	.0084162
#2	.0045558	132.5182	.0681187	.1084320	.7279149	.0090477

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127480	F 621.6504	.0046081	.5932215	.1133356	.2400260
Stddev	.0021337	11.4264	.0000596	.0087479	.0002441	.0018987
%RSD	16.73774	1.838075	1.293833	1.474640	.2153366	.7910250

#1	.0142568	613.5708	.0046503	.5870359	.1131630	.2386835
#2	.0112392	629.7301	.0045660	.5994072	.1135082	.2413686

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2734014	188.7105	21.01195	.1857643	339.6950	4.004074
Stddev	.0004484	.3841	.49536	.0056778	1.8965	.001407
%RSD	.1640067	.2035302	2.357516	3.056467	.5583003	.0351378

#1	.2737185	188.4389	20.66168	.1817495	338.3539	4.003079
#2	.2730844	188.9821	21.36223	.1897791	341.0360	4.005069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-1-b du Acquired: 9/7/2022 18:47:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128747	10.55543	.2654596	.6732753	-.001958	.0040013
Stddev	.0000596	.28581	.0034498	.0052642	.001251	.0029550
%RSD	.4631014	2.707701	1.299567	.7818734	63.89523	73.85103

#1	.0128325	10.35333	.2630202	.6695530	-.001073	.0019118
#2	.0129168	10.75753	.2678990	.6769976	-.002842	.0060909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.058735	.0309799	.3390381	1.693210	.0015320	.2964322
Stddev	.001733	.0007591	.0001364	.002988	.0041994	.0000350
%RSD	.0427077	2.450385	.0402184	.1764820	274.1146	.0117902

#1	4.059961	.0304431	.3391345	1.691097	.0045014	.2964570
#2	4.057510	.0315167	.3389416	1.695323	-.001437	.2964075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.642097
Stddev	.024832
%RSD	1.512229

#1	1.624538
#2	1.659656

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-1-b du Acquired: 9/7/2022 18:47:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2462.824	1678.295	8549.428	7704.391
Stddev	14.503	19.459	2.049	22.570
%RSD	.5888650	1.159469	.0239611	.2929551
#1	2452.569	1664.535	8550.877	7720.351
#2	2473.079	1692.055	8547.980	7688.432

Sample Name: 500-221479-e-1-c ms Acquired: 9/7/2022 18:50:18 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0424508	223.5846	.1641246	.8607753	2.637821	.0543916
Stddev	.0008949	1.4674	.0006478	.0014682	.043511	.0003060
%RSD	2.108174	.6562931	.3947064	.1705721	1.649507	.5626545

#1	.0418180	222.5471	.1636665	.8597371	2.607054	.0541752
#2	.0430836	224.6222	.1645826	.8618136	2.668588	.0546080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5911266	F 658.9183	.0476171	.7645942	.6665135	.4338591
Stddev	.0015777	12.7826	.0003409	.0073551	.0019820	.0053717
%RSD	.2669044	1.939929	.7159750	.9619545	.2973615	1.238126

#1	.5900110	649.8797	.0473760	.7593934	.6651121	.4300607
#2	.5922422	667.9570	.0478581	.7697950	.6679150	.4376575

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5223448	246.1584	48.97049	.6855600	410.4750	4.351404
Stddev	.0045008	1.8011	.26524	.0026889	1.8464	.019056
%RSD	.8616438	.7316882	.5416269	.3922192	.4498152	.4379369

#1	.5255274	244.8848	48.78294	.6836586	409.1694	4.337930
#2	.5191623	247.4320	49.15804	.6874613	411.7806	4.364879

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-1-c ms Acquired: 9/7/2022 18:50:18 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7358715	21.61680	.8233201	.7127969	.0978108	.0812466
Stddev	.0002267	.12724	.0025038	.0026906	.0018635	.0013795
%RSD	.0308094	.5886340	.3041123	.3774708	1.905176	1.697861

#1	.7357112	21.52683	.8215497	.7108943	.0964931	.0802712
#2	.7360318	21.70678	.8250906	.7146994	.0991284	.0822221

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.865798	.9757493	1.162878	F 3.008055	.0915580	.8189059
Stddev	.002593	.0081086	.007365	.006227	.0015130	.0036402
%RSD	.0532880	.8310132	.6333329	.2070053	1.652477	.4445241

#1	4.863965	.9700157	1.157671	3.003652	.0904881	.8163319
#2	4.867632	.9814830	1.168086	3.012458	.0926278	.8214799

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				3.000000		
Low Limit				-.005000		

Elem	Zn2062
Units	ppm
Avg	2.346849
Stddev	.022792
%RSD	.9711777

#1	2.330733
#2	2.362965

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-1-c ms Acquired: 9/7/2022 18:50:18 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2382.873	1726.709	8769.583	7878.465
Stddev	9.604	7.458	64.878	12.839
%RSD	.4030272	.4319310	.7398092	.1629594
#1	2376.082	1721.435	8723.708	7869.386
#2	2389.664	1731.983	8815.459	7887.543

Sample Name: 500-221479-e-1-d msd Acquired: 9/7/2022 18:53:35 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466073	190.9676	.1636771	.9071513	2.554068	.0555218
Stddev	.0002435	1.9735	.0027776	.0028473	.043560	.0002123
%RSD	.5223672	1.033440	1.697005	.3138686	1.705526	.3823658

#1	.0464352	189.5721	.1656412	.9051379	2.523266	.0553717
#2	.0467795	192.3631	.1617131	.9091646	2.584869	.0556719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6300779	F 1262.855	.0513635	.6852441	.6416513	.4149517
Stddev	.0013275	27.985	.0001371	.0035782	.0023097	.0015439
%RSD	.2106855	2.216045	.2668891	.5221763	.3599597	.3720640

#1	.6310166	1243.066	.0514605	.6877743	.6400182	.4160433
#2	.6291392	1282.643	.0512666	.6827140	.6432845	.4138600

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5182402	206.0569	46.39519	.6804753	F 767.3453	5.760955
Stddev	.0030466	1.3874	.22355	.0039054	5.7820	.044954
%RSD	.5878709	.6733242	.4818340	.5739146	.7535061	.7803200

#1	.5160860	205.0758	46.23712	.6777138	763.2568	5.729168
#2	.5203945	207.0380	46.55327	.6832368	771.4337	5.792743

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					600.0000	
Low Limit					-.100000	

Sample Name: 500-221479-e-1-d msd Acquired: 9/7/2022 18:53:35 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7789697	21.86694	.7533235	.4645130	.1282737	.0821215
Stddev	.0004577	.09510	.0005258	.0023711	.0006602	.0007425
%RSD	.0587603	.4349147	.0697995	.5104512	.5146627	.9041567

#1	.7786460	21.79969	.7529517	.4661897	.1278068	.0826465
#2	.7792934	21.93419	.7536953	.4628364	.1287405	.0815965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.706952	.9972573	1.302580	2.705121	.0867596	.7640232
Stddev	.001563	.0026810	.006005	.010798	.0048617	.0055856
%RSD	.0915484	.2688342	.4610228	.3991650	5.603693	.7310802

#1	1.705847	.9953616	1.298334	2.712756	.0901974	.7679728
#2	1.708056	.9991530	1.306827	2.697486	.0833219	.7600736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.858982
Stddev	.006246
%RSD	.3360031

#1	1.863398
#2	1.854565

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-1-d msd Acquired: 9/7/2022 18:53:35 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2170.607	1560.865	7992.792	7369.772
Stddev	6.229	4.263	47.901	6.990
%RSD	.2869687	.2731062	.5993053	.0948442
#1	2175.011	1563.879	8026.663	7374.714
#2	2166.202	1557.851	7958.921	7364.829

Sample Name: 500-221479-e-2-a Acquired: 9/7/2022 18:56:52 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0064257	220.9054	.0633421	.1739738	1.096881	.0153753	.0375617
Stddev	.0000221	3.2435	.0020484	.0005732	.012603	.0001549	.0011173
%RSD	.3443835	1.468285	3.233833	.3294491	1.148965	1.007475	2.974639
#1	.0064100	218.6119	.0618936	.1743790	1.087969	.0154848	.0383518
#2	.0064413	223.1990	.0647905	.1735685	1.105792	.0152658	.0367717

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	432.9268	.0026647	.9590559	.2386173	.3163292	.3047827	305.3644
Stddev	26.5148	.0000798	.0267370	.0008693	.0011886	.0010462	.8624
%RSD	6.124550	2.995433	2.787848	.3643079	.3757329	.3432610	.2824022
#1	414.1780	.0027211	.9401500	.2380026	.3154888	.3055225	304.7547
#2	451.6756	.0026082	.9779619	.2392320	.3171697	.3040429	305.9742

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	40.89502	.3369276	220.6485	11.69847	.0449796	13.53449	.5227969
Stddev	.55790	.0063928	1.1576	.00186	.0008068	.21509	.0013977
%RSD	1.364215	1.897393	.5246405	.0159312	1.793664	1.589169	.2673550
#1	40.50053	.3324071	219.8299	11.69715	.0444091	13.38240	.5218085
#2	41.28951	.3414480	221.4671	11.69979	.0455500	13.68658	.5237852

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221479-e-2-a Acquired: 9/7/2022 18:56:52 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2483658	.0009005	.0038237	4.561612	.0296813	.5257032	1.665285
Stddev	.0037095	.0005189	.0007288	.008647	.0030865	.0026298	.004646
%RSD	1.493583	57.62819	19.06052	.1895648	10.39877	.5002460	.2790123
#1	.2457428	.0005336	.0043391	4.567726	.0274988	.5275628	1.661999
#2	.2509889	.0012674	.0033084	4.555497	.0318637	.5238436	1.668570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000434	.4284675	.8893181
Stddev	.001988	.0004336	.0045961
%RSD	458.0208	.1011903	.5168109
#1	-.001840	.4281609	.8860682
#2	.000972	.4287741	.8925680
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2554.283	1871.992	9516.206	8492.129
Stddev	7.732	8.820	29.085	17.607
%RSD	.3027218	.4711696	.3056319	.2073387
#1	2548.816	1865.755	9495.640	8504.579
#2	2559.751	1878.229	9536.772	8479.679

Sample Name: 500-221479-e-3-a Acquired: 9/7/2022 19:00:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068454	250.2814	.0749448	.3236454	1.202425	.0175730
Stddev	.0002796	2.2034	.0024659	.0004611	.009421	.0000450
%RSD	4.084169	.8803603	3.290304	.1424692	.7834720	.2560262

#1	.0070431	248.7233	.0766885	.3233194	1.195764	.0175412
#2	.0066477	251.8394	.0732012	.3239715	1.209087	.0176048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397595	F 721.3407	.0030103	.9516735	.2696726	.3615758
Stddev	.0033433	37.9718	.0000836	.0013606	.0013548	.0023270
%RSD	8.408818	5.264061	2.776205	.1429681	.5023684	.6435704

#1	.0373954	694.4906	.0029512	.9526356	.2687146	.3632213
#2	.0421235	748.1909	.0030694	.9507114	.2706305	.3599304

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4599079	314.3215	72.79875	.5029242	420.7822	4.997044
Stddev	.0016236	1.5773	.10449	.0016323	2.1012	.025198
%RSD	.3530164	.5018095	.1435302	.3245510	.4993518	.5042674

#1	.4587599	313.2062	72.72487	.5017701	419.2964	4.979226
#2	.4610560	315.4368	72.87264	.5040784	422.2679	5.014862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-3-a Acquired: 9/7/2022 19:00:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0566899	6.305004	.6307738	.2541414	.0000424	.0041140
Stddev	.0000608	.004334	.0031354	.0006169	.0014937	.0046402
%RSD	.1072565	.0687400	.4970654	.2427218	3522.259	112.7915

#1	.0566469	6.301939	.6285568	.2545776	-.001014	.0008329
#2	.0567329	6.308068	.6329909	.2537052	.001099	.0073951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.662509	.0337578	.6281499	1.694538	.0043253	.4054405
Stddev	.004539	.0004043	.0016015	.001612	.0035538	.0011411
%RSD	.0973432	1.197699	.2549558	.0951442	82.16175	.2814472

#1	4.659299	.0334719	.6292823	1.693398	.0018124	.4062474
#2	4.665718	.0340437	.6270174	1.695678	.0068382	.4046337

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9663372
Stddev	.0078745
%RSD	.8148768

#1	.9607691
#2	.9719053

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-3-a Acquired: 9/7/2022 19:00:08 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.630	1748.591	8898.533	7998.454
Stddev	1.755	5.657	57.395	27.634
%RSD	.0747746	.3235414	.6449992	.3454918
#1	2345.389	1744.591	8939.118	7978.914
#2	2347.871	1752.592	8857.949	8017.995

Sample Name: CCV Acquired: 9/7/2022 19:03:23 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4811658	46.04780	.4906106	.4934654	.4649938	.4750562
Stddev	.0012033	.52980	.0006848	.0004831	.0033239	.0082968
%RSD	.2500781	1.150533	.1395908	.0979054	.7148212	1.746496

#1	.4803150	45.67318	.4910948	.4931238	.4626435	.4691894
#2	.4820167	46.42243	.4901263	.4938070	.4673442	.4809229

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5107750	24.39700	.4865731	F .0938371	.5213995	.4627408
Stddev	.0004091	.38113	.0013566	.0053452	.0025927	.0039929
%RSD	.0800899	1.562212	.2788007	5.696284	.4972555	.8628804

#1	.5104857	24.12750	.4856139	.0976168	.5195662	.4599174
#2	.5110643	24.66650	.4875324	.0900575	.5232328	.4655642

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4845833	24.39622	46.18712	F 3.570971	23.45437	4.606360
Stddev	.0015546	.30176	.11828	.001364	.30668	.068279
%RSD	.3208107	1.236933	.2560830	.0382010	1.307574	1.482275

#1	.4834841	24.18285	46.10348	3.570006	23.23752	4.558079
#2	.4856826	24.60961	46.27075	3.571935	23.67123	4.654640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				4.000000		
Range				-10.0000%		

Sample Name: CCV Acquired: 9/7/2022 19:03:23 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4807415	23.25488	.5122560	.5009720	.4737061	.4878134
Stddev	.0000157	.06476	.0025049	.0037302	.0011089	.0013781
%RSD	.0032593	.2784995	.4889941	.7445871	.2340995	.2824999

#1	.4807526	23.20908	.5104848	.4983344	.4729220	.4887879
#2	.4807304	23.30067	.5140273	.5036097	.4744903	.4868390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1437323	.5232210	.4767576	.4842513	.4798831	4.813895
Stddev	.0048207	.0035580	.0000339	.0000261	.0029761	.002893
%RSD	3.353947	.6800105	.0071144	.0053804	.6201746	.0600917

#1	.1471411	.5207051	.4767816	.4842329	.4777787	4.811849
#2	.1403236	.5257368	.4767336	.4842698	.4819876	4.815940

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5453212
Stddev	.0029596
%RSD	.5427243

#1	.5432284
#2	.5474139

Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 9/7/2022 19:03:23 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3224.950	1730.991	8631.487	7638.602
Stddev	1.566	6.437	32.512	13.629
%RSD	.0485461	.3718864	.3766677	.1784284
#1	3223.843	1726.440	8654.477	7648.240
#2	3226.057	1735.543	8608.498	7628.964

Sample Name: CCB Acquired: 9/7/2022 19:06:30 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005896	.0215457	-.001496	.0121872	.0002497	.0001883	-.000086
Stddev	.0004306	.0066584	.000269	.0000736	.0001120	.0000974	.001272
%RSD	73.02940	30.90353	18.00529	.6036402	44.84276	51.75864	1482.778
#1	.0008941	.0262538	-.001305	.0122392	.0003289	.0001194	.000814
#2	.0002851	.0168375	-.001686	.0121352	.0001705	.0002572	-.000986

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0356852	.0000792	.0005200	.0003352	-.000211	.0005892	.0653919
Stddev	.0058390	.0000016	.0056491	.0000223	.000575	.0002644	.0366672
%RSD	16.36251	1.992521	1086.259	6.655299	273.2187	44.87354	56.07307
#1	.0398139	.0000803	.0045146	.0003194	-.000617	.0007762	.0394642
#2	.0315564	.0000781	-.003474	.0003509	.000196	.0004023	.0913195

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000461	.0011422	.0398102	.0015109	.0005056	-.062611	.0002742
Stddev	.004028	.0005956	.0041861	.0004729	.0000082	.000572	.0004386
%RSD	873.8740	52.15157	10.51521	31.30300	1.628511	.9138993	159.9653
#1	.002387	.0015633	.0368502	.0018453	.0005114	-.062207	-.000036
#2	-.003309	.0007210	.0427703	.0011764	.0004997	-.063016	.000584

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: CCB Acquired: 9/7/2022 19:06:30 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003477	.0037053	.0012069	.0073232	.0007631	.0001000	.0014958
Stddev	.0011625	.0008556	.0003070	.0005596	.0002697	.0000154	.0000846
%RSD	334.3219	23.09161	25.43686	7.641712	35.33919	15.38725	5.653328
#1	.0011697	.0043103	.0009899	.0077189	.0005724	.0001109	.0015556
#2	-.000474	.0031003	.0014240	.0069275	.0009538	.0000891	.0014360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0017088	.0007759	.0003370
Stddev	.0005635	.0000187	.0001549
%RSD	32.97430	2.412793	45.95659
#1	.0021073	.0007891	.0002275
#2	.0013104	.0007626	.0004466
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.490	1751.573	8807.143	7542.016
Stddev	1.531	9.938	56.460	6.263
%RSD	.0411514	.5673816	.6410651	.0830387
#1	3718.407	1744.546	8767.220	7537.587
#2	3720.572	1758.601	8847.066	7546.444

Sample Name: 500-221479-e-4-a Acquired: 9/7/2022 19:09:47 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0078936	289.3882	.0721404	.1365482	2.019080	.0180070	.0468113
Stddev	.0005163	.6118	.0017932	.0000652	.019624	.0002315	.0002434
%RSD	6.540153	.2114024	2.485758	.0477744	.9719461	1.285710	.5198641

#1	.0075286	288.9556	.0734084	.1365020	2.005203	.0178433	.0469834
#2	.0082587	289.8208	.0708724	.1365943	2.032956	.0181707	.0466392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	138.6044	.0037013	1.177532	.2773369	.3960095	.3292838	348.6732
Stddev	1.4268	.0000152	.022554	.0008090	.0006975	.0001698	3.1166
%RSD	1.029382	.4117313	1.915365	.2917136	.1761323	.0515774	.8938457

#1	137.5955	.0037121	1.161584	.2767648	.3965027	.3294039	346.4694
#2	139.6133	.0036905	1.193480	.2779089	.3955163	.3291637	350.8769

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	36.22634	.3625194	142.6762	8.622934	.0217243	31.02308	.5969354
Stddev	.35801	.0048970	.7263	.059030	.0004109	.32903	.0030363
%RSD	.9882529	1.350824	.5090830	.6845696	1.891684	1.060592	.5086512

#1	36.47949	.3659821	142.1626	8.581193	.0214337	31.25574	.5947884
#2	35.97319	.3590567	143.1898	8.664674	.0220148	30.79042	.5990824

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221479-e-4-a Acquired: 9/7/2022 19:09:47 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4583091	.0026280	.0001323	2.741057	.0328529	.4023579	1.398876
Stddev	.0013659	.0004583	.0010809	.007272	.0002068	.0031357	.001075
%RSD	.2980215	17.43938	817.0400	.2653013	.6294319	.7793313	.0768238
#1	.4573433	.0029520	.0008966	2.746199	.0327067	.4045752	1.398116
#2	.4592749	.0023039	-.000632	2.735915	.0329991	.4001406	1.399636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000200	.5162775	1.149591
Stddev	.003628	.0003714	.009665
%RSD	1812.513	.0719278	.8407012
#1	.002365	.5165401	1.142757
#2	-.002766	.5160149	1.156424
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2718.284	1995.007	10024.47	8777.632
Stddev	17.539	19.983	28.36	111.110
%RSD	.6452340	1.001660	.2828710	1.265832
#1	2705.882	1980.876	10004.42	8699.065
#2	2730.686	2009.137	10044.52	8856.199

Sample Name: 500-221479-e-5-a Acquired: 9/7/2022 19:13:22 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062618	251.0129	.0743931	.3103631	.7104151	.0183955
Stddev	.0016174	1.9474	.0026631	.0001992	.0040512	.0004458
%RSD	25.82983	.7758023	3.579756	.0641699	.5702630	2.423362

#1	.0051181	249.6359	.0725100	.3102223	.7075504	.0180802
#2	.0074054	252.3899	.0762762	.3105040	.7132797	.0187107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0405816	F 750.3490	.0030809	.9613789	.2116235	.3660593
Stddev	.0032327	11.8663	.0001377	.0130703	.0002308	.0015786
%RSD	7.966024	1.581433	4.470764	1.359533	.1090467	.4312430

#1	.0428675	741.9583	.0029835	.9521368	.2114603	.3671755
#2	.0382957	758.7397	.0031783	.9706209	.2117867	.3649430

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4149929	330.7056	69.73552	.5107050	414.6244	4.842920
Stddev	.0007389	1.3309	.29358	.0041553	1.9380	.022431
%RSD	.1780557	.4024502	.4209940	.8136431	.4674133	.4631807

#1	.4155154	329.7645	69.52792	.5077668	413.2540	4.827059
#2	.4144704	331.6467	69.94311	.5136433	415.9948	4.858782

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-5-a Acquired: 9/7/2022 19:13:22 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499495	7.387121	.6748161	.2496742	-.000676	.0070794
Stddev	.0005148	.035072	.0041796	.0006293	.001114	.0000282
%RSD	1.030728	.4747749	.6193753	.2520284	164.8188	.3986163

#1	.0495854	7.362321	.6718606	.2492293	-.001463	.0070994
#2	.0503135	7.411920	.6777715	.2501192	.000112	.0070595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.069771	.0323985	.6798885	1.316213	.0093806	.3962041
Stddev	.001234	.0005656	.0038621	.002192	.0019009	.0004420
%RSD	.0303217	1.745824	.5680510	.1665250	20.26448	.1115495

#1	4.070644	.0319986	.6771576	1.317762	.0080364	.3958916
#2	4.068899	.0327985	.6826195	1.314663	.0107247	.3965167

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9894405
Stddev	.0041318
%RSD	.4175845

#1	.9865189
#2	.9923621

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-5-a Acquired: 9/7/2022 19:13:22 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.541	1756.772	8918.179	8019.416
Stddev	11.129	1.468	17.279	34.368
%RSD	.4765168	.0835635	.1937486	.4285562
#1	2343.411	1757.810	8930.397	7995.114
#2	2327.672	1755.734	8905.961	8043.717

Sample Name: 500-221479-e-6-a Acquired: 9/7/2022 19:16:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0076468	295.9938	.1114063	.2394350	1.311177	.0214103	.0540493
Stddev	.0001320	3.5728	.0008096	.0000212	.012456	.0002611	.0033519
%RSD	1.725606	1.207061	.7267450	.0088576	.9500188	1.219547	6.201581
#1	.0077401	293.4674	.1108338	.2394200	1.302369	.0212256	.0516792
#2	.0075535	298.5201	.1119788	.2394500	1.319985	.0215949	.0564195

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	453.1606	.0029542	1.048389	.2868592	.4077102	.4605866	389.1097
Stddev	.4986	.0000697	.019750	.0000084	.0008486	.0008661	1.7236
%RSD	.1100364	2.358148	1.883857	.0029265	.2081313	.1880417	.4429530
#1	452.8080	.0029049	1.034423	.2868532	.4071102	.4611990	387.8910
#2	453.5132	.0030034	1.062354	.2868651	.4083102	.4599741	390.3285

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	59.87670	.4967093	327.8079	5.144850	.0450558	22.32649	.7778942
Stddev	.70717	.0076782	2.1318	.024994	.0004133	.31387	.0004772
%RSD	1.181041	1.545807	.6503310	.4858110	.9174046	1.405805	.0613396
#1	59.37666	.4912800	326.3005	5.127176	.0447635	22.10455	.7782317
#2	60.37675	.5021386	329.3153	5.162524	.0453481	22.54842	.7775568

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221479-e-6-a Acquired: 9/7/2022 19:16:57 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2746643	.0032763	.0069880	4.524503	.0377531	.4891037	1.216133
Stddev	.0004329	.0004357	.0015792	.004450	.0030951	.0005302	.002521
%RSD	.1576229	13.29809	22.59880	.0983477	8.198316	.1084074	.2072696
#1	.2743582	.0029682	.0058714	4.521356	.0355645	.4887287	1.214350
#2	.2749704	.0035843	.0081047	4.527649	.0399417	.4894786	1.217915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0044580	.4930592	1.045715
Stddev	.0033235	.0000938	.000963
%RSD	74.55198	.0190329	.0920785
#1	.0021079	.4931255	1.046396
#2	.0068080	.4929928	1.045034
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2440.431	1871.871	9496.048	8570.802
Stddev	7.118	3.457	13.877	6.595
%RSD	.2916655	.1846984	.1461359	.0769521
#1	2445.464	1874.315	9486.236	8566.138
#2	2435.398	1869.426	9505.861	8575.465

Sample Name: 500-221479-e-7-a Acquired: 9/7/2022 19:20:12 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065026	254.7186	.0935333	.2468431	1.078293	.0177336
Stddev	.0002315	.3242	.0012399	.0013214	.002486	.0002260
%RSD	3.560664	.1272713	1.325587	.5353099	.2305942	1.274419

#1	.0063389	254.4894	.0926566	.2477775	1.076534	.0175738
#2	.0066664	254.9478	.0944100	.2459088	1.080051	.0178934

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382274	F 808.2995	.0035758	.9079094	.2309158	.3808665
Stddev	.0009212	5.5174	.0000681	.0178008	.0019316	.0015444
%RSD	2.409865	.6825947	1.903448	1.960633	.8364940	.4055055

#1	.0375760	804.3981	.0035277	.8953224	.2295499	.3797744
#2	.0388788	812.2009	.0036240	.9204965	.2322816	.3819585

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3954496	322.4022	55.30625	.4264921	450.3558	7.747561
Stddev	.0016206	4.8071	.78432	.0064898	4.9102	.114199
%RSD	.4098111	1.491014	1.418139	1.521671	1.090300	1.473998

#1	.3965955	319.0031	55.86085	.4310811	446.8837	7.666811
#2	.3943037	325.8014	54.75165	.4219031	453.8278	7.828312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-7-a Acquired: 9/7/2022 19:20:12 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0340354	16.29041	.5901552	.8104408	-.000295	.0064489
Stddev	.0000126	.25315	.0035487	.0114581	.003703	.0010972
%RSD	.0369893	1.553984	.6013090	1.413808	1256.682	17.01432

#1	.0340265	16.46941	.5876460	.8023387	-.002913	.0072248
#2	.0340443	16.11141	.5926645	.8185428	.002324	.0056730

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.829207	.0357208	.4800854	1.406580	.0015246	.4420636
Stddev	.003219	.0007895	.0009385	.000370	.0012127	.0007392
%RSD	.0666589	2.210276	.1954896	.0263255	79.54421	.1672103

#1	4.831483	.0362791	.4807491	1.406319	.0023821	.4425862
#2	4.826931	.0351626	.4794218	1.406842	.0006671	.4415409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9811814
Stddev	.0033410
%RSD	.3405062

#1	.9788190
#2	.9835438

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-7-a Acquired: 9/7/2022 19:20:12 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.932	1763.648	8966.357	8070.539
Stddev	1.361	9.437	42.443	49.229
%RSD	.0580410	.5350909	.4733570	.6099803
#1	2343.970	1756.976	8936.345	8035.729
#2	2345.895	1770.322	8996.368	8105.349

Sample Name: 500-221479-e-8-a Acquired: 9/7/2022 19:23:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058040	253.7470	.0526949	.2791502	1.000071	.0181436
Stddev	.0003152	4.9290	.0019134	.0012567	.017003	.0004668
%RSD	5.431174	1.942486	3.631043	.4501756	1.700186	2.573083

#1	.0060269	250.2617	.0513419	.2800388	.988048	.0178135
#2	.0055811	257.2324	.0540479	.2782616	1.012094	.0184738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0322905	F 873.9515	.0030896	.9291317	.1568200	.3563055
Stddev	.0016259	59.1245	.0001626	.0333830	.0011833	.0002521
%RSD	5.035058	6.765188	5.263497	3.592926	.7545844	.0707424

#1	.0311409	832.1442	.0029747	.9055263	.1559832	.3561273
#2	.0334402	915.7588	.0032046	.9527370	.1576567	.3564837

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3454054	314.0623	63.97661	.4821231	410.9702	4.274403
Stddev	.0002140	.1858	1.38200	.0159221	1.4381	.003052
%RSD	.0619442	.0591665	2.160170	3.302505	.3499384	.0713920

#1	.3455567	314.1937	62.99939	.4708644	409.9533	4.276561
#2	.3452541	313.9309	64.95383	.4933817	411.9871	4.272245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-8-a Acquired: 9/7/2022 19:23:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0391189	13.62167	.6059423	.2141232	-.002756	.0050285
Stddev	.0001201	.35735	.0030190	.0005681	.004592	.0002710
%RSD	.3069524	2.623396	.4982354	.2653229	166.6068	5.389215

#1	.0392038	13.36898	.6038076	.2145249	.000491	.0048368
#2	.0390340	13.87435	.6080771	.2137214	-.006003	.0052201

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.324651	.0330846	.5710009	1.214238	.0063879	.3966530
Stddev	.013088	.0008997	.0040603	.000587	.0016487	.0008826
%RSD	.3026292	2.719456	.7110912	.0483106	25.80904	.2225196

#1	4.333905	.0324484	.5738720	1.213823	.0075537	.3972771
#2	4.315397	.0337208	.5681298	1.214653	.0052221	.3960289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9162013
Stddev	.0147284
%RSD	1.607552

#1	.9057867
#2	.9266158

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-8-a Acquired: 9/7/2022 19:23:46 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2287.005	1735.294	8804.885	7993.012
Stddev	14.198	19.574	17.054	7.471
%RSD	.6208290	1.127979	.1936829	.0934691
#1	2276.965	1721.453	8792.826	7998.295
#2	2297.045	1749.135	8816.943	7987.730

Sample Name: 500-221479-e-9-a Acquired: 9/7/2022 19:27:02 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071297	237.4507	.1125270	.2849014	.7963074	.0182188
Stddev	.0002263	2.8862	.0009318	.0010204	.0073760	.0000456
%RSD	3.173620	1.215474	.8280946	.3581531	.9262810	.2502972

#1	.0069697	235.4099	.1131859	.2841798	.7910917	.0182511
#2	.0072897	239.4916	.1118681	.2856229	.8015230	.0181866

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0419245	F 676.1457	.0026837	.9747090	.8266894	.3612349
Stddev	.0004374	39.6763	.0001258	.0097558	.0003001	.0021792
%RSD	1.043329	5.868005	4.687205	1.000899	.0363003	.6032764

#1	.0422339	648.0904	.0027726	.9678106	.8264772	.3596939
#2	.0416153	704.2011	.0025947	.9816075	.8269016	.3627758

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4192084	341.8726	66.87144	.4978552	417.8807	7.601731
Stddev	.0034943	3.2655	.42641	.0047324	4.0389	.067419
%RSD	.8335404	.9551824	.6376637	.9505589	.9665268	.8868910

#1	.4216792	339.5636	66.56992	.4945089	415.0247	7.554058
#2	.4167375	344.1817	67.17296	.5012015	420.7366	7.649403

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-9-a Acquired: 9/7/2022 19:27:02 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0816065	3.989018	.7981691	.3074886	.0013145	.0068250
Stddev	.0003306	.017802	.0021254	.0000944	.0001204	.0047208
%RSD	.4051211	.4462691	.2662875	.0307035	9.160068	69.16907

#1	.0813727	3.976431	.7996720	.3075554	.0012294	.0034869
#2	.0818403	4.001606	.7966662	.3074218	.0013997	.0101631

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.254837	.0315572	.5562074	1.344447	.0048016	.4021595
Stddev	.016772	.0015122	.0050025	.001674	.0065819	.0008130
%RSD	.3941868	4.791992	.8994040	.1245048	137.0790	.2021621

#1	4.242977	.0326265	.5597447	1.343263	.0001474	.4015846
#2	4.266697	.0304879	.5526701	1.345630	.0094557	.4027344

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9829758
Stddev	.0003669
%RSD	.0373203

#1	.9832352
#2	.9827164

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-9-a Acquired: 9/7/2022 19:27:02 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2385.120	1791.169	9070.028	8111.202
Stddev	9.588	8.004	10.450	8.253
%RSD	.4020105	.4468593	.1152150	.1017465
#1	2391.900	1796.829	9062.638	8117.037
#2	2378.340	1785.510	9077.417	8105.366

Sample Name: 500-221479-e-10-a Acquired: 9/7/2022 19:30:37 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058183	206.5963	.0703545	.1011692	1.406459	.0133992	.0305241
Stddev	.0003239	1.3497	.0005090	.0011019	.008783	.0002720	.0012834
%RSD	5.567703	.6533228	.7235301	1.089185	.6244961	2.029746	4.204692

#1	.0055892	205.6418	.0699945	.1019483	1.400249	.0132069	.0314316
#2	.0060474	207.5507	.0707144	.1003900	1.412670	.0135915	.0296166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.4500	.0038425	.8996824	.1731352	.2808046	.2371842	270.5806
Stddev	1.3443	.0000567	.0027553	.0012696	.0007116	.0006106	1.2606
%RSD	.8876117	1.474307	.3062497	.7333215	.2533983	.2574467	.4658687

#1	150.4994	.0038826	.8977342	.1722375	.2803014	.2376160	269.6893
#2	152.4005	.0038025	.9016307	.1740330	.2813077	.2367525	271.4720

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.41940	.2215037	93.09850	7.938939	.0130516	47.82686	.3280189
Stddev	.08946	.0014874	.50950	.038273	.0002776	.07372	.0023781
%RSD	.3990199	.6715149	.5472698	.4820890	2.126753	.1541461	.7250009

#1	22.48265	.2225554	92.73823	7.911876	.0128554	47.87899	.3263373
#2	22.35614	.2204519	93.45877	7.966002	.0132479	47.77473	.3297005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-221479-e-10-a Acquired: 9/7/2022 19:30:37 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4103987	-.000070	.0089530	4.891274	.0342708	.2557390	1.629816
Stddev	.0023519	.001143	.0027960	.019187	.0007156	.0005795	.000294
%RSD	.5730733	1624.275	31.22983	.3922599	2.087918	.2265894	.0180623

#1	.4120617	.000738	.0109301	4.877707	.0347768	.2561488	1.630024
#2	.4087357	-.000879	.0069759	4.904841	.0337649	.2553293	1.629607

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000610	.4485737	.8685911
Stddev	.000899	.0010693	.0022021
%RSD	147.4938	.2383819	.2535194

#1	.000026	.4493299	.8670341
#2	-.001245	.4478176	.8701482

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2765.548	1944.857	9762.569	8448.789
Stddev	7.622	3.732	28.783	52.688
%RSD	.2756155	.1918657	.2948300	.6236151

#1	2770.938	1947.496	9742.217	8411.533
#2	2760.158	1942.219	9782.922	8486.045

Sample Name: 500-221479-e-11-a Acquired: 9/7/2022 19:33:42 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0059819	195.0980	.0802641	.0918938	1.474483	.0127107	.0283358
Stddev	.0002653	1.4588	.0003507	.0005419	.008785	.0002277	.0001793
%RSD	4.434369	.7477206	.4368885	.5896757	.5957847	1.790979	.6329001
#1	.0061694	194.0665	.0800161	.0922770	1.468272	.0125498	.0282090
#2	.0057943	196.1295	.0805121	.0915107	1.480695	.0128717	.0284626

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	71.79393	.0036602	.9796174	.2108511	.2635957	.2108813	258.9129
Stddev	.92010	.0000884	.0149538	.0005666	.0001929	.0002135	2.4501
%RSD	1.281585	2.415562	1.526490	.2686991	.0731869	.1012607	.9463182
#1	71.14332	.0037227	.9690435	.2104505	.2637321	.2107303	257.1804
#2	72.44454	.0035976	.9901913	.2112517	.2634592	.2110323	260.6454

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	20.72484	.2067027	50.57147	14.22461	.0149354	44.92616	.3043795
Stddev	.07834	.0000152	.33073	.15183	.0000675	.14260	.0024971
%RSD	.3780043	.0073676	.6539934	1.067344	.4520251	.3174179	.8203968
#1	20.78023	.2067134	50.33761	14.11725	.0149831	45.02699	.3026137
#2	20.66944	.2066919	50.80534	14.33196	.0148876	44.82532	.3061452

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 500-221479-e-11-a Acquired: 9/7/2022 19:33:42 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2912551	.0009287	.0129919	4.592424	.0286765	.2292352	1.737472
Stddev	.0030174	.0038449	.0014945	.002269	.0000166	.0001993	.001139
%RSD	1.036008	414.0099	11.50329	.0494085	.0580292	.0869254	.0655696

#1	.2891215	.0036474	.0140486	4.590819	.0286883	.2290943	1.736667
#2	.2933888	-.001790	.0119351	4.594028	.0286648	.2293761	1.738278

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.006568	.4647125	.7265210
Stddev	.003959	.0008456	.0086602
%RSD	60.26868	.1819561	1.192006

#1	-.009368	.4653104	.7203974
#2	-.003769	.4641146	.7326447

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2861.297	1969.507	9801.140	8487.752
Stddev	4.243	6.515	13.871	68.518
%RSD	.1483030	.3307880	.1415286	.8072563

#1	2858.297	1964.900	9810.949	8439.302
#2	2864.298	1974.114	9791.332	8536.201

Sample Name: 500-221479-e-12-a Acquired: 9/7/2022 19:36:47 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053122	246.1084	.0852318	.2403632	1.100278	.0182940
Stddev	.0003921	3.5139	.0012909	.0013697	.012921	.0004261
%RSD	7.380187	1.427789	1.514577	.5698434	1.174343	2.329406

#1	.0055894	243.6237	.0843191	.2393947	1.091141	.0179927
#2	.0050349	248.5931	.0861447	.2413317	1.109414	.0185953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0339651	F 797.4001	.0025916	.8259345	.2823803	.3406589
Stddev	.0022941	4.8035	.0000254	.0167839	.0004528	.0013976
%RSD	6.754374	.6024011	.9781897	2.032113	.1603499	.4102645

#1	.0323429	794.0034	.0025737	.8140665	.2820601	.3416472
#2	.0355873	800.7967	.0026096	.8378025	.2827005	.3396707

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3714429	312.2982	52.67166	.4092353	451.9552	7.175451
Stddev	.0002195	.9163	.72116	.0082604	3.1943	.041648
%RSD	.0590896	.2934077	1.369160	2.018505	.7067677	.5804273

#1	.3715982	311.6503	52.16173	.4033943	449.6965	7.146001
#2	.3712878	312.9462	53.18160	.4150763	454.2138	7.204901

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-12-a Acquired: 9/7/2022 19:36:47 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0396224	25.07179	.6934890	.2180189	.0000356	.0020002
Stddev	.0002574	.40256	.0008021	.0013185	.0017111	.0011494
%RSD	.6497129	1.605648	.1156649	.6047862	4800.791	57.46235

#1	.0394404	24.78714	.6929218	.2170865	-.001174	.0028129
#2	.0398044	25.35645	.6940562	.2189512	.001246	.0011875

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.673529	.0360961	.4263447	1.221161	.0053883	.4370322
Stddev	.024926	.0021670	.0047514	.003647	.0009817	.0030546
%RSD	.5333475	6.003303	1.114441	.2986423	18.21992	.6989513

#1	4.655904	.0345638	.4229850	1.223740	.0046941	.4391922
#2	4.691154	.0376283	.4297044	1.218582	.0060825	.4348723

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.8238813
Stddev	.0023068
%RSD	.2799862

#1	.8255124
#2	.8222502

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-12-a Acquired: 9/7/2022 19:36:47 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2364.644	1755.311	8725.511	7872.831
Stddev	17.458	14.710	11.684	12.630
%RSD	.7383041	.8380078	.1339094	.1604235
#1	2376.989	1765.713	8733.773	7881.762
#2	2352.300	1744.910	8717.249	7863.900

Sample Name: 500-221479-e-13-a Acquired: 9/7/2022 19:40:02 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051942	252.6194	.0885342	.3128565	.7777032	.0187164
Stddev	.0000390	2.6277	.0013964	.0010406	.0079692	.0000105
%RSD	.7514176	1.040179	1.577208	.3326214	1.024705	.0560758

#1	.0051666	250.7613	.0895215	.3121207	.7720682	.0187090
#2	.0052218	254.4775	.0875468	.3135924	.7833383	.0187239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383945	F 780.5594	.0027771	.8914653	.3506317	.3626315
Stddev	.0007581	13.3708	.0001159	.0179385	.0019019	.0045399
%RSD	1.974559	1.712971	4.173777	2.012253	.5424343	1.251922

#1	.0378584	771.1049	.0028591	.8787808	.3492868	.3658417
#2	.0389306	790.0140	.0026951	.9041498	.3519765	.3594213

Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4388051	333.3129	70.31321	.4867814	370.4989	5.035221
Stddev	.0011857	.5270	.44351	.0031988	2.8153	.031963
%RSD	.2702101	.1580975	.6307673	.6571341	.7598676	.6347820

#1	.4379667	332.9403	69.99960	.4845195	368.5081	5.012620
#2	.4396436	333.6855	70.62682	.4890433	372.4896	5.057822

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-221479-e-13-a Acquired: 9/7/2022 19:40:02 Type: Unk

Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000

User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575013	13.88170	.7092259	.2515775	.0005300	.0039877
Stddev	.0007646	.11251	.0047344	.0054108	.0011714	.0022211
%RSD	1.329774	.8104737	.6675452	2.150743	221.0190	55.69722

#1	.0580419	13.80214	.7058781	.2477515	-.000298	.0055583
#2	.0569606	13.96125	.7125736	.2554035	.001358	.0024172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.370250	.0333265	.5109044	1.325502	.0084116	.4196792
Stddev	.004422	.0012668	.0012019	.002547	.0043981	.0012522
%RSD	.1011881	3.801226	.2352575	.1921707	52.28632	.2983723

#1	4.367123	.0324307	.5117543	1.327303	.0053017	.4205646
#2	4.373377	.0342222	.5100545	1.323701	.0115216	.4187937

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.9286331
Stddev	.0092916
%RSD	1.000564

#1	.9220630
#2	.9352033

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-221479-e-13-a Acquired: 9/7/2022 19:40:02 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2361.835	1757.742	8813.486	7895.851
Stddev	7.264	10.910	22.171	2.208
%RSD	.3075475	.6206917	.2515524	.0279612
#1	2356.699	1750.027	8829.163	7897.413
#2	2366.971	1765.457	8797.809	7894.290

Sample Name: CCV Acquired: 9/7/2022 19:43:18 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5136644	47.60003	.5127956	.5113570	.4810072	.5021056
Stddev	.0004327	.60074	.0033990	.0008535	.0036005	.0048414
%RSD	.0842347	1.262054	.6628342	.1669080	.7485318	.9642243

#1	.5133584	47.17525	.5103922	.5107535	.4784613	.4986822
#2	.5139703	48.02482	.5151991	.5119605	.4835531	.5055290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5311698	25.85534	.5058773	F .0881398	.5448573	.4978008
Stddev	.0002987	.27107	.0032951	.0060769	.0036445	.0006031
%RSD	.0562409	1.048399	.6513577	6.894646	.6688912	.1211569

#1	.5313810	25.66367	.5035473	.0838427	.5422803	.4982273
#2	.5309585	26.04701	.5082072	.0924368	.5474344	.4973743

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4984650	25.78294	46.90022	3.663456	24.38326	4.856603
Stddev	.0011696	.32177	.16581	.004756	.20322	.062987
%RSD	.2346371	1.248005	.3535451	.1298295	.8334540	1.296934

#1	.4976380	25.55541	47.01747	3.666819	24.23956	4.812065
#2	.4992920	26.01046	46.78298	3.660093	24.52696	4.901142

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 19:43:18 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5014982	23.62980	.5366206	.5263022	.4917214	.5086902
Stddev	.0027725	.00578	.0032035	.0030944	.0016139	.0013475
%RSD	.5528487	.0244602	.5969669	.5879408	.3282225	.2649006

#1	.4995378	23.63389	.5343554	.5241142	.4905802	.5077374
#2	.5034587	23.62572	.5388857	.5284902	.4928627	.5096431

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1551543	.5489598	.4882501	.5046086	.5016208	5.050444
Stddev	.0047871	.0028165	.0037488	.0000296	.0031804	.000825
%RSD	3.085389	.5130662	.7678051	.0058640	.6340332	.0163379

#1	.1585393	.5469682	.4855993	.5045877	.4993719	5.051027
#2	.1517693	.5509513	.4909009	.5046296	.5038698	5.049860

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	F .5727436
Stddev	.0066549
%RSD	1.161935

#1	.5680378
#2	.5774493

Check ?	Chk Fail
Value	.5000000
Range	10.0000%

Sample Name: CCV Acquired: 9/7/2022 19:43:18 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3160.499	1704.411	8521.830	7374.907
Stddev	3.241	1.737	19.290	24.694
%RSD	.1025564	.1019011	.2263640	.3348435
#1	3162.791	1703.183	8508.190	7357.445
#2	3158.207	1705.639	8535.470	7392.368

Sample Name: CCB Acquired: 9/7/2022 19:46:24 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000052	.0339876	-.001770	.0118063	.0001436	.0006686
Stddev	.000717	.0072518	.000811	.0000695	.0000634	.0000415
%RSD	1378.319	21.33657	45.79771	.5890246	44.13064	6.201450

#1	.000455	.0391154	-.002343	.0118555	.0001884	.0006980
#2	-.000559	.0288598	-.001197	.0117571	.0000988	.0006393

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000600	.0336194	.0001116	F .0059853	.0002332	.0001348
Stddev	.001695	.0062585	.0000434	.0017714	.0000705	.0004050
%RSD	282.5896	18.61582	38.84036	29.59553	30.24733	300.3159

#1	.000599	.0380448	.0000810	.0047328	.0001833	.0004212
#2	-.001799	.0291940	.0001423	.0072379	.0002831	-.000152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.0050000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008283	.0926170	.0125110	.0011319	.0198271	.0018592
Stddev	.0000700	.0520586	.0053910	.0002292	.0172326	.0004202
%RSD	8.450850	56.20842	43.08993	20.24731	86.91434	22.60095

#1	.0008778	.0558060	.0086990	.0012940	.0320125	.0021563
#2	.0007788	.1294280	.0163230	.0009699	.0076418	.0015621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 9/7/2022 19:46:24 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004899	-.066606	-.000519	-.000191	.0040241	.0020470
Stddev	.0002414	.001215	.000748	.000235	.0008939	.0017704
%RSD	49.27397	1.824078	144.0324	123.3777	22.21440	86.48770

#1	.0006605	-.067465	.000010	-.000357	.0046562	.0032988
#2	.0003192	-.065747	-.001048	-.000024	.0033920	.0007951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080122	.0000272	.0000884	.0013130	.0010297	.0008280
Stddev	.0000669	.0000717	.0000154	.0002811	.0001036	.0000060
%RSD	.8348146	263.3978	17.40690	21.40946	10.05871	.7253637

#1	.0080595	-.000023	.0000993	.0015118	.0009565	.0008322
#2	.0079649	.000078	.0000775	.0011142	.0011029	.0008238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000633
Stddev	.000202
%RSD	31.89575

#1	-.000776
#2	-.000490

Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 9/7/2022 19:46:24 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3731.634	1783.970	8875.782	7538.900
Stddev	12.396	4.550	10.388	5.215
%RSD	.3321903	.2550649	.1170419	.0691805
#1	3740.399	1787.188	8868.436	7535.212
#2	3722.869	1780.752	8883.127	7542.588

Sample Name: 500-221550-f-1-a Acquired: 9/7/2022 19:49:41 Type: Unk
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0070462	164.0642	.0710541	.0362111	1.551468	.0111799	.0327815
Stddev	.0009527	.4025	.0012587	.0002838	.000553	.0001899	.0009038
%RSD	13.52089	.2453446	1.771501	.7837537	.0356648	1.698704	2.756945
#1	.0077199	163.7796	.0701640	.0364118	1.551077	.0110456	.0334205
#2	.0063725	164.3488	.0719441	.0360104	1.551859	.0113142	.0321424

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	41.36191	.0044209	1.152099	.1638469	.2325070	.1998342	267.3633
Stddev	.99741	.0000239	.020548	.0004702	.0025241	.0004461	5.1380
%RSD	2.411414	.5405193	1.783509	.2869915	1.085587	.2232473	1.921720
#1	40.65664	.0044040	1.137570	.1635144	.2307222	.1995187	263.7302
#2	42.06718	.0044378	1.166629	.1641794	.2342917	.2001496	270.9964

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	14.23130	.1281541	37.24694	10.64174	.0060354	.7496919	.3498981
Stddev	.25591	.0032270	.28974	.16846	.0006676	.0184501	.0013303
%RSD	1.798186	2.518032	.7778926	1.583004	11.06230	2.461029	.3801993
#1	14.41225	.1304359	37.04206	10.52263	.0055633	.7627381	.3489574
#2	14.05035	.1258723	37.45181	10.76086	.0065075	.7366457	.3508388

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 500-221550-f-1-a Acquired: 9/7/2022 19:49:41 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2049201	.0007565	.0028086	3.949649	.0269545	.1728009	1.923320
Stddev	.0010157	.0003105	.0022389	.002962	.0010412	.0009346	.015048
%RSD	.4956297	41.03806	79.71607	.0749901	3.862830	.5408666	.7823800
#1	.2042019	.0005370	.0043918	3.947555	.0276908	.1721401	1.912679
#2	.2056383	.0009760	.0012255	3.951744	.0262183	.1734618	1.933960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.003956	.3506003	1.018305
Stddev	.000922	.0040070	.005007
%RSD	23.29695	1.142902	.4917208
#1	-.003305	.3477669	1.014764
#2	-.004608	.3534337	1.021845
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.135	2157.008	10736.06	9257.127
Stddev	10.204	1.720	17.55	109.375
%RSD	.3438869	.0797290	.1634758	1.181519
#1	2974.350	2155.792	10723.65	9179.787
#2	2959.920	2158.224	10748.47	9334.467

Sample Name: 500-221550-f-2-a Acquired: 9/7/2022 19:52:48 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0071192	175.2220	.0772483	.0411627	1.576927	.0119525	.0352057
Stddev	.0003267	1.2825	.0047085	.0005265	.007665	.0002366	.0006750
%RSD	4.588276	.7319183	6.095260	1.279129	.4860548	1.979158	1.917370
#1	.0068883	174.3152	.0739189	.0415350	1.571508	.0117853	.0347284
#2	.0073502	176.1289	.0805777	.0407904	1.582347	.0121198	.0356830

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	51.88915	.0040076	1.111437	.1543800	.2402380	.1929064	288.3154
Stddev	.77394	.0000375	.021646	.0001342	.0021093	.0005831	3.5402
%RSD	1.491531	.9355927	1.947545	.0869537	.8779879	.3022830	1.227906
#1	51.34189	.0039811	1.096131	.1544749	.2387466	.1933187	285.8121
#2	52.43641	.0040341	1.126743	.1542851	.2417295	.1924940	290.8187

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	15.32039	.1363513	44.05983	12.00367	.0059445	.6728379	.3392762
Stddev	.04526	.0015227	.44152	.12149	.0002373	.0030745	.0000873
%RSD	.2954264	1.116774	1.002089	1.012135	3.992316	.4569405	.0257209
#1	15.35239	.1374280	43.74763	11.91776	.0061123	.6750119	.3392145
#2	15.28838	.1352745	44.37203	12.08957	.0057767	.6706639	.3393379

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: 500-221550-f-2-a Acquired: 9/7/2022 19:52:48 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1976863	-.000229	.0056277	3.381295	.0257645	.1871403	2.032397
Stddev	.0010892	.002893	.0004559	.002921	.0001250	.0001139	.008754
%RSD	.5509892	1261.491	8.101569	.0863983	.4851882	.0608542	.4307471
#1	.1984565	-.002275	.0053054	3.379229	.0256761	.1872209	2.026207
#2	.1969161	.001817	.0059501	3.383360	.0258529	.1870598	2.038587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.007142	.3838877	1.005056
Stddev	.000280	.0029806	.001792
%RSD	3.921003	.7764130	.1783107
#1	-.006944	.3817802	1.003789
#2	-.007340	.3859953	1.006323
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2964.594	2146.198	10553.42	9085.881
Stddev	5.136	.354	40.07	85.396
%RSD	.1732375	.0164723	.3797158	.9398749
#1	2960.963	2146.448	10525.09	9025.497
#2	2968.226	2145.948	10581.76	9146.265

Sample Name: 500-221550-f-3-a Acquired: 9/7/2022 19:55:54 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0073008	222.5424	.1163860	.0533857	1.648772	.0144192	.0469548
Stddev	.0002325	4.1033	.0040601	.0001633	.031663	.0000080	.0017852
%RSD	3.183820	1.843818	3.488475	.3059610	1.920399	.0556008	3.802059
#1	.0071365	219.6409	.1135151	.0532702	1.626383	.0144248	.0456924
#2	.0074652	225.4438	.1192569	.0535012	1.671162	.0144135	.0482171

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	50.92338	.0048381	1.161176	.1571047	.2931059	.2403279	349.6326
Stddev	1.28557	.0000850	.028281	.0001504	.0007362	.0004851	3.9978
%RSD	2.524520	1.757127	2.435510	.0957036	.2511612	.2018394	1.143425
#1	51.83241	.0047779	1.141178	.1569984	.2936264	.2406709	352.4595
#2	50.01434	.0048982	1.181173	.1572110	.2925853	.2399849	346.8058

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	19.58687	.1713978	46.15657	5.384514	.0088561	1.146512	.3875230
Stddev	.52281	.0065362	.01162	.051459	.0004111	.037134	.0033202
%RSD	2.669179	3.813446	.0251810	.9556859	4.642527	3.238833	.8567737
#1	19.21719	.1667761	46.16479	5.420901	.0085654	1.120255	.3851753
#2	19.95655	.1760196	46.14835	5.348127	.0091468	1.172769	.3898707

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221550-f-3-a Acquired: 9/7/2022 19:55:54 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2955005	.0006079	.0125111	4.351386	.0345124	.2150010	1.933941
Stddev	.0010260	.0001315	.0009664	.003465	.0024283	.0000201	.000027
%RSD	.3471919	21.62473	7.724509	.0796307	7.036032	.0093476	.0013754
#1	.2947750	.0007009	.0118278	4.348936	.0362295	.2149867	1.933960
#2	.2962259	.0005150	.0131945	4.353836	.0327953	.2150152	1.933922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0004538	.4596727	1.450876
Stddev	.0004205	.0013195	.010902
%RSD	92.66105	.2870581	.7514065
#1	.0001565	.4606057	1.443167
#2	.0007512	.4587396	1.458585
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.269	2174.994	10677.19	9225.764
Stddev	9.589	8.005	29.43	2.961
%RSD	.3289124	.3680485	.2756763	.0320907
#1	2908.489	2169.334	10656.37	9223.670
#2	2922.049	2180.655	10698.00	9227.857

Sample Name: 500-221550-f-4-a Acquired: 9/7/2022 19:58:59 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0065740	157.8321	.0474017	.0358006	1.285097	.0116043	.0307471
Stddev	.0005751	1.8224	.0020895	.0003390	.009159	.0002361	.0008960
%RSD	8.748020	1.154652	4.407992	.9469529	.7127476	2.035043	2.914050
#1	.0069806	156.5435	.0488792	.0360403	1.278620	.0114374	.0301135
#2	.0061673	159.1207	.0459242	.0355609	1.291574	.0117713	.0313807

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	34.83968	.0059287	1.100774	.1496109	.2406257	.1675166	268.5763
Stddev	.42590	.0000042	.012443	.0001923	.0013184	.0004479	3.3541
%RSD	1.222444	.0702520	1.130344	.1285097	.5479021	.2673974	1.248854
#1	34.53853	.0059316	1.091976	.1497469	.2415579	.1671999	266.2045
#2	35.14084	.0059257	1.109572	.1494750	.2396934	.1678334	270.9480

Check ? **Chk Pass** **Chk Pass** None **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	12.39674	.1600857	37.48443	7.881901	.0053436	.8989190	.3367657
Stddev	.00454	.0003586	.34667	.100917	.0004890	.0039985	.0011408
%RSD	.0366246	.2239972	.9248346	1.280358	9.151536	.4448166	.3387410
#1	12.39995	.1598321	37.23930	7.810542	.0049978	.8960916	.3359590
#2	12.39353	.1603392	37.72956	7.953259	.0056894	.9017464	.3375723

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Sample Name: 500-221550-f-4-a Acquired: 9/7/2022 19:58:59 Type: Unk
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1728249	.0018177	.0015233	4.266288	.0256510	.1715855	1.570429
Stddev	.0005638	.0014053	.0024863	.010372	.0007338	.0003297	.000466
%RSD	.3262371	77.31151	163.2189	.2431185	2.860735	.1921285	.0296562
#1	.1732236	.0028114	.0032813	4.258954	.0261699	.1718186	1.570100
#2	.1724263	.0008240	-.000235	4.273622	.0251321	.1713524	1.570758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002491	.3291282	.9718083
Stddev	.003503	.0005116	.0028719
%RSD	140.6062	.1554292	.2955234
#1	-.000014	.3294899	.9697776
#2	-.004968	.3287665	.9738391
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.397	2149.641	10674.31	9045.814
Stddev	5.582	3.780	36.07	41.559
%RSD	.1838499	.1758266	.3379361	.4594278
#1	3040.344	2152.313	10648.81	9016.428
#2	3032.450	2146.968	10699.82	9075.201

Sample Name: CCV Acquired: 9/7/2022 20:02:05 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5148414	47.88848	.5124867	.5053227	.4832121	.5052593
Stddev	.0014775	.62023	.0018491	.0006401	.0066384	.0055407
%RSD	.2869834	1.295164	.3608146	.1266746	1.373809	1.096602

#1	.5137966	47.44990	.5137942	.5057753	.4785180	.5013414
#2	.5158861	48.32705	.5111792	.5048701	.4879061	.5091771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5337012	25.56962	.5038837	F .0948308	.5483141	.4996379
Stddev	.0010991	.20051	.0012501	.0028699	.0014358	.0022097
%RSD	.2059422	.7841546	.2480945	3.026384	.2618561	.4422654

#1	.5329240	25.42784	.5029997	.0928014	.5472988	.5012004
#2	.5344784	25.71140	.5047676	.0968601	.5493294	.4980754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4977016	25.73887	47.40697	3.708802	24.28690	4.862569
Stddev	.0006380	.13661	.61208	.063852	.28771	.042756
%RSD	.1281889	.5307461	1.291125	1.721621	1.184632	.8792985

#1	.4981527	25.64227	46.97416	3.663652	24.08345	4.832335
#2	.4972505	25.83547	47.83978	3.753952	24.49034	4.892802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 9/7/2022 20:02:05 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5002246	23.87393	.5373109	.5290664	.4867608	.5055575
Stddev	.0011576	.39969	.0016706	.0040781	.0029138	.0007336
%RSD	.2314121	1.674165	.3109219	.7708140	.5986173	.1451117

#1	.4994061	23.59131	.5361295	.5261827	.4847004	.5050387
#2	.5010432	24.15655	.5384921	.5319500	.4888211	.5060762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .1518422	F .5537356	.4878186	.5060440	.5005495	5.075764
Stddev	.0050502	.0012746	.0026824	.0001107	.0009220	.002000
%RSD	3.325966	.2301866	.5498828	.0218758	.1842040	.0394114

#1	.1554133	.5528343	.4859219	.5059657	.4998975	5.074350
#2	.1482712	.5546369	.4897154	.5061223	.5012015	5.077179

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000	.5000000				
Range	-10.0000%	10.0000%				

Elem	Zn2062
Units	ppm
Avg	F .5806685
Stddev	.0032292
%RSD	.5561175

#1	.5783851
#2	.5829519

Check ?	Chk Fail
Value	.5000000
Range	10.0000%

Sample Name: CCV Acquired: 9/7/2022 20:02:05 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3172.058	1727.810	8527.489	7364.330
Stddev	4.680	1.014	17.906	8.490
%RSD	.1475506	.0586888	.2099758	.1152916
#1	3175.368	1727.094	8540.150	7370.333
#2	3168.749	1728.527	8514.828	7358.326

Sample Name: CCB Acquired: 9/7/2022 20:05:12 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem Units	Ag3280 ppm	Al3082 ppm	As1890 ppm	B_2089 ppm	Ba4554 ppm	Be2348 ppm	Bi2230 ppm
Avg	.0008513	.0202158	-.001205	.0113077	.0002242	.0004435	-.000390
Stddev	.0004495	.0083450	.000593	.0000277	.0000896	.0001245	.000409
%RSD	52.80624	41.27942	49.20461	.2447253	39.94751	28.07741	104.8926

#1	.0005334	.0261166	-.001625	.0113273	.0002875	.0005315	-.000679
#2	.0011692	.0143150	-.000786	.0112881	.0001609	.0003554	-.000101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	Ca3179 ppm	Cd2288 ppm	Ce4040 ppm	Co2286 ppm	Cr2677 ppm	Cu3247 ppm	Fe2714 ppm
Avg	.0086237	.0000793	.0043755	.0000485	.0009440	.0005224	.0290112
Stddev	.0020682	.0000505	.0029915	.0000277	.0012582	.0003409	.0172468
%RSD	23.98210	63.64540	68.36840	57.09681	133.2840	65.25993	59.44887

#1	.0100862	.0001150	.0064908	.0000289	.0000543	.0007634	.0412066
#2	.0071613	.0000436	.0022602	.0000681	.0018337	.0002813	.0168159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem Units	K_7664 ppm	Li6707 ppm	Mg2790 ppm	Mn2576 ppm	Mo2020 ppm	Na5895 ppm	Ni2316 ppm
Avg	-.006438	.0013928	.0042797	.0020824	.0001983	-.066509	-.000293
Stddev	.006652	.0001589	.0072713	.0005550	.0000262	.001963	.000199
%RSD	103.3134	11.40688	169.9044	26.65256	13.22414	2.951097	67.85353

#1	-.001735	.0012805	.0094213	.0024749	.0002168	-.065121	-.000433
#2	-.011142	.0015052	-.000862	.0016900	.0001798	-.067897	-.000152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 9/7/2022 20:05:12 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000036	.0032665	.0017113	.0076751	.0002696	.0001156	.0014973
Stddev	.001903	.0011854	.0010079	.0003338	.0012114	.0000238	.0001062
%RSD	5281.289	36.28831	58.89651	4.348796	449.2620	20.56408	7.095560
#1	.001310	.0041047	.0009986	.0079111	.0011262	.0001324	.0015725
#2	-.001382	.0024283	.0024239	.0074391	-.000587	.0000988	.0014222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0010642	.0013562	-.000414
Stddev	.0005386	.0000845	.000196
%RSD	50.61695	6.230008	47.43459
#1	.0006833	.0012965	-.000553
#2	.0014450	.0014160	-.000275
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.791	1801.955	8981.297	7561.714
Stddev	19.112	11.286	.587	11.767
%RSD	.5081809	.6263279	.0065354	.1556070
#1	3774.305	1809.936	8980.882	7570.034
#2	3747.278	1793.975	8981.712	7553.394

Sample Name: CCVL Acquired: 9/7/2022 20:08:28 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056689	.1960475	.0090728	.0616557	.0101827	.0041360
Stddev	.0002387	.0085920	.0009488	.0003935	.0001786	.0001052
%RSD	4.211429	4.382634	10.45742	.6382728	1.753780	2.544146

#1	.0055001	.2021230	.0097437	.0613774	.0100564	.0040616
#2	.0058377	.1899720	.0084019	.0619340	.0103090	.0042104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499880	.2026773	.0021669	.0046477	.0053864	.0093614
Stddev	.0004800	.0028080	.0001384	.0044673	.0001372	.0000035
%RSD	.9602361	1.385454	6.385666	96.11878	2.547223	.0376442

#1	.0496486	.2006918	.0022647	.0078066	.0054835	.0093639
#2	.0503274	.2046629	.0020691	.0014888	.0052894	.0093589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108218	.1879269	.4754967	.0103724	.1021398	.0098288
Stddev	.0002924	.0915600	.0106563	.0000399	.0080308	.0000353
%RSD	2.702037	48.72104	2.241077	.3843008	7.862539	.3595305

#1	.0110286	.1231843	.4679616	.0103442	.0964611	.0098538
#2	.0106150	.2526696	.4830318	.0104005	.1078184	.0098038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 9/7/2022 20:08:28 Type: QC
 Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
 User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102927	.9072722	.0106927	.0058727	.0204726	.0095963
Stddev	.0000135	.0051340	.0001160	.0007794	.0003959	.0012836
%RSD	.1314873	.5658684	1.085010	13.27131	1.933884	13.37597

#1	.0103023	.9109025	.0106107	.0064238	.0207525	.0086886
#2	.0102832	.9036420	.0107748	.0053216	.0201926	.0105039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0792507	.0403722	.0052890	.0058818	.0107902	.0055192
Stddev	.0002562	.0002854	.0000047	.0000514	.0010557	.0005437
%RSD	.3232564	.7070101	.0896974	.8746876	9.784271	9.851472

#1	.0794319	.0401703	.0052856	.0058454	.0100437	.0059037
#2	.0790696	.0405740	.0052923	.0059182	.0115367	.0051348

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000000					
Range	-30.0000%					

Elem	Zn2062
Units	ppm
Avg	.0215128
Stddev	.0000812
%RSD	.3773242

#1	.0214554
#2	.0215702

Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 9/7/2022 20:08:28 Type: QC
Method: P6090722A(v2) Mode: CONC Corr. Factor: 1.000000
User: Sciortinoc Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.120	1790.365	8885.431	7505.132
Stddev	15.804	4.868	3.473	26.505
%RSD	.4249427	.2718968	.0390901	.3531540
#1	3730.295	1793.807	8887.887	7486.390
#2	3707.945	1786.923	8882.975	7523.873

Metals Worksheet

Batch Number: 500-673625

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 08 2022 6:31AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M21JSTKHG_002_000_01	M22GSTKHG_001_0001
blank						
0.2PPB						
0.5PPB						
1.0PPB						
3.0PPB						
5.0PPB						
10.0PPB						
ICV~500-673625/8		7471B		50 mL		0.0001 mL
ICB~500-673625/9		7471B				
CRA~500-673625/10		7471B		50 mL	0.00001 mL	
MB~500-673461/12-A		7471B				
LCS~500-673461/13-A		7471B				
500-221726-A-1-B		7471B				T
500-221541-A-1-B		7471B				T
500-221541-A-2-B		7471B				T
500-221541-A-3-B		7471B				T
500-221541-A-4-B		7471B				T
xCCV~500-673625/18						
CCV~500-673625/19		7471B		50 mL		0.00005 mL
CCB~500-673625/20		7471B				
500-221541-A-5-B		7471B				T
500-221541-A-6-B		7471B				T
500-221541-A-7-B		7471B				T
500-221541-A-8-B		7471B				T
500-221541-A-9-B		7471B				T

Metals Worksheet

Batch Number: 500-673625

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 08 2022 6:31AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M21JSTKHG_002_000_01	M22GSTKHG_001_0001
500-221541-A-9-C~DU		7471B	T			
500-221541-A-9-D~MS		7471B	T			
500-221541-A-9-E~MSD		7471B	T			
500-221541-A-12-B		7471B	T			
500-221541-A-13-B		7471B	T			
CCV~500-673625/31		7471B		50 mL		0.00005 mL
CCB~500-673625/32		7471B				
500-221541-A-14-B		7471B	T			
500-221541-A-15-B		7471B	T			
500-221541-A-16-B		7471B	T			
500-221541-A-17-B		7471B	T			
500-221541-A-18-B		7471B	T			
500-221541-A-19-B		7471B	T			
500-221541-A-20-B		7471B	T			
500-221338-A-1-B		7471B	T			
MB~500-673438/12-A		7471B				
LCS~500-673438/13-A		7471B				
CCV~500-673625/43		7471B		50 mL		0.00005 mL
CCB~500-673625/44		7471B				
500-221479-A-1-B		7471B	T			
500-221479-A-2-B		7471B	T			
500-221479-A-3-B		7471B	T			
500-221479-A-4-B		7471B	T			
500-221479-A-5-B		7471B	T			
500-221479-A-6-B		7471B	T			

Metals Worksheet

Batch Number: 500-673625

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 08 2022 6:31AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M21JSTKHG_002_000 01	M22GSTKHG_001_00 001
500-221479-A-7-B		7471B	T			
500-221479-A-8-B		7471B	T			
500-221479-A-9-B		7471B	T			
500-221479-A-9-C~DU		7471B	T			
CCV~500-673625/55		7471B		50 mL		0.00005 mL
CCB~500-673625/56		7471B				
500-221479-A-9-D~MS		7471B	T			
500-221479-A-9-E~MSD		7471B	T			
500-221479-A-10-B		7471B	T			
500-221479-A-11-B		7471B	T			
500-221479-A-12-B		7471B	T			
500-221479-A-13-B		7471B	T			
500-221401-A-1-D		7471B	T			
500-221401-A-4-D		7471B	T			
500-221401-A-8-D		7471B	T			
500-221401-A-11-D		7471B	T			
CCV~500-673625/67		7471B		50 mL		0.00005 mL
CCB~500-673625/68		7471B				
MB~500-673439/12-A		7471B				
LCS~500-673439/13-A		7471B				
500-221401-A-14-D		7471B	T			
500-221401-A-15-D		7471B	T			
500-221401-A-16-D		7471B	T			
500-221401-A-17-D		7471B	T			
500-221401-A-18-D		7471B	T			

Metals Worksheet

Batch Number: 500-673625

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 08 2022 6:31AM

Batch End:

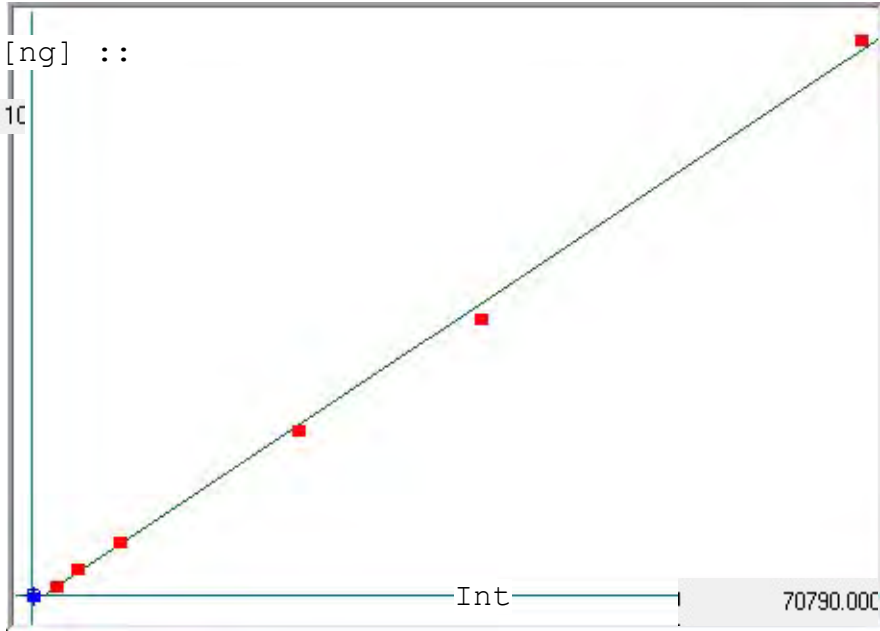
Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M21JSTKHG_002_000 01	M22GSTKHG_001_00 001
500-221401-A-19-D		7471B	T			
500-221506-E-1-A		7471B	T			
500-221506-E-2-A		7471B	T			
CCV~500-673625/79		7471B		50 mL		0.00005 mL
CCB~500-673625/80		7471B				
500-221506-E-3-A		7471B	T			
500-221506-E-4-A		7471B	T			
500-221506-E-5-A		7471B	T			
500-221506-E-5-B~DU		7471B	T			
500-221506-E-5-C~MS		7471B	T			
500-221506-E-5-D~MSD		7471B	T			
500-221506-E-6-A		7471B	T			
500-221506-E-8-B		7471B	T			
500-221305-A-1-B		7471B	T			
500-221626-A-1-D		7471B	T			
CCV~500-673625/91		7471B		50 mL		0.00005 mL
CCB~500-673625/92		7471B				
500-221626-A-2-D		7471B	T			
500-221333-A-1-B		7471B	T			
500-221333-A-3-B		7471B	T			
x500-221333-A-4-B~(500-7006621)						
500-221333-A-4-B~^2		7471B	T			
CCV~500-673625/98		7471B		50 mL		0.00005 mL
CCB~500-673625/99		7471B				

HG

Linear ▾

Max. Hg [ng] ::

10



A= 0.0000e+000

B= 1.4045e-004

C= -1.1604e-001

Rho= 0.9991829

Accept=Accepted

Accepted Date=

09/08/22 06:46

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.072	-0.072	311	0.000	311				
0.2PPB	0.200	0.184	-0.016	2137	0.0 %	2137				
0.5PPB	0.500	0.437	-0.063	3935	0.0 %	3935				
1.0PPB	1.000	0.953	-0.047	7610	0.0 %	7610				
3.0PPB	3.000	3.088	0.088	22810	0.0 %	22810				
5.0PPB	5.000	5.285	0.285	38451	0.0 %	38451				
10.0PPB	10.000	9.827	-0.173	70790	0.0 %	70790				

CGT6MYI76U

Method: HG

Operator: Admin

Date of Analysis: 08 Sep 2022 06:22:04

Type	Sample ID	Conc.	μ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	311	PPB	08 Sep 2022 06:31:58	50.0000	3763
S	0.2PPB - 1	-	2137	PPB	08 Sep 2022 06:33:43	50.0000	3764
S	0.5PPB - 1	-	3935	PPB	08 Sep 2022 06:35:44	50.0000	3765
S	1.0PPB - 1	-	7610	PPB	08 Sep 2022 06:37:34	50.0000	3766
S	3.0PPB - 1	-	22810	PPB	08 Sep 2022 06:39:36	50.0000	3767
S	5.0PPB - 1	-	38451	PPB	08 Sep 2022 06:41:48	50.0000	3768
S	10.0PPB - 1	-	70790	PPB	08 Sep 2022 06:44:17	50.0000	3769
U	ICV - 1	1.9829	14944	PPB	08 Sep 2022 06:59:11	50.0000	3770
U	ICB - 1	-0.0181	697	PPB	08 Sep 2022 07:02:27	50.0000	3771
U	CRA - 1	0.1253	1718	PPB	08 Sep 2022 07:04:08	50.0000	3772
U	mb 500-673461/12-a - 1	-0.0197	686	PPB	08 Sep 2022 07:06:49	50.0000	3773
U	lcs 500-673461/13-a - 1	2.0250	15244	PPB	08 Sep 2022 07:08:31	50.0000	3774
U	500-221726-a-1-b - 1	0.4604	4104	PPB	08 Sep 2022 07:10:15	50.0000	3775
U	500-221541-a-1-b - 1	0.1673	2017	PPB	08 Sep 2022 07:12:38	50.0000	3776
U	500-221541-a-2-b - 1	0.1399	1822	PPB	08 Sep 2022 07:14:44	50.0000	3777
U	500-221541-a-3-b - 1	0.1083	1597	PPB	08 Sep 2022 07:16:30	50.0000	3778
U	500-221541-a-4-b - 1	0.0539	1210	PPB	08 Sep 2022 07:18:16	50.0000	3779
C	CCV - 1	(L)-5.8% -0.0576	416	PPB	08 Sep 2022 07:20:03	50.0000	3780
C	CCV - 1	1.0640	8402	PPB	08 Sep 2022 07:24:02	50.0000	3781
U	CCB - 1	-0.0335	588	PPB	08 Sep 2022 07:26:20	50.0000	3782
U	500-221541-a-5-b - 1	0.2515	2617	PPB	08 Sep 2022 07:28:42	50.0000	3783
U	500-221541-a-6-b - 1	0.0514	1192	PPB	08 Sep 2022 07:30:26	50.0000	3784
U	500-221541-a-7-b - 1	0.0793	1391	PPB	08 Sep 2022 07:32:14	50.0000	3785
U	500-221541-a-8-b - 1	0.3027	2981	PPB	08 Sep 2022 07:33:58	50.0000	3786
U	500-221541-a-9-b - 1	0.1951	2215	PPB	08 Sep 2022 07:35:43	50.0000	3787
U	500-221541-a-9-c du - 1	0.3576	3372	PPB	08 Sep 2022 07:37:32	50.0000	3788
U	500-221541-a-9-d ms - 1	1.6010	12225	PPB	08 Sep 2022 07:39:16	50.0000	3789
U	500-221541-a-9-e msd - 1	1.5782	12063	PPB	08 Sep 2022 07:41:02	50.0000	3790
U	500-221541-a-12-b - 1	0.4982	4373	PPB	08 Sep 2022 07:43:06	50.0000	3791
U	500-221541-a-13-b - 1	0.2737	2775	PPB	08 Sep 2022 07:45:14	50.0000	3792
C	CCV - 1	96.3% 0.9626	7680	PPB	08 Sep 2022 07:47:07	50.0000	3793
C	CCB - 1	-0.0788	265	PPB	08 Sep 2022 07:48:56	50.0000	3794
U	500-221541-a-14-b - 1	0.2340	2492	PPB	08 Sep 2022 07:50:59	50.0000	3795
U	500-221541-a-15-b - 1	0.3135	3058	PPB	08 Sep 2022 07:52:44	50.0000	3796
U	500-221541-a-16-b - 1	0.2116	2333	PPB	08 Sep 2022 07:54:31	50.0000	3797
U	500-221541-a-17-b - 1	0.0636	1279	PPB	08 Sep 2022 07:56:23	50.0000	3798
U	500-221541-a-18-b - 1	0.1056	1578	PPB	08 Sep 2022 07:58:10	50.0000	3799
U	500-221541-a-19-b - 1	0.4244	3848	PPB	08 Sep 2022 07:59:55	50.0000	3800
U	500-221541-a-20-b - 1	0.0949	1502	PPB	08 Sep 2022 08:01:40	50.0000	3801
U	500-221338-a-1-b - 1	1.6694	12712	PPB	08 Sep 2022 08:03:32	50.0000	3802
U	mb 500-673438/12-a - 1	-0.0833	233	PPB	08 Sep 2022 08:05:17	50.0000	3803
U	lcs 500-673438/13-a - 1	2.0471	15401	PPB	08 Sep 2022 08:07:26	50.0000	3804
C	CCV - 1	95.2% 0.9517	7602	PPB	08 Sep 2022 08:09:10	50.0000	3805
C	CCB - 1	-0.1040	86	PPB	08 Sep 2022 08:11:21	50.0000	3806
U	500-221479-a-1-b - 1	0.4241	3846	PPB	08 Sep 2022 08:13:26	50.0000	3807
U	500-221479-a-2-b - 1	0.3156	3073	PPB	08 Sep 2022 08:15:09	50.0000	3808
U	500-221479-a-3-b - 1	0.2216	2404	PPB	08 Sep 2022 08:17:03	50.0000	3809
U	500-221479-a-4-b - 1	0.3932	3626	PPB	08 Sep 2022 08:18:52	50.0000	3810
U	500-221479-a-5-b - 1	0.1688	2028	PPB	08 Sep 2022 08:20:42	50.0000	3811
U	500-221479-a-6-b - 1	0.2494	2602	PPB	08 Sep 2022 08:22:35	50.0000	3812
U	500-221479-a-7-b - 1	0.3012	2971	PPB	08 Sep 2022 08:24:23	50.0000	3813
U	500-221479-a-8-b - 1	0.1705	2040	PPB	08 Sep 2022 08:26:12	50.0000	3814
U	500-221479-a-9-b - 1	0.2066	2297	PPB	08 Sep 2022 08:28:02	50.0000	3815
U	500-221479-a-9-c du - 1	0.1650	2001	PPB	08 Sep 2022 08:29:51	50.0000	3816
C	CCV - 1	95.8% 0.9581	7648	PPB	08 Sep 2022 08:31:40	50.0000	3817
C	CCB - 1	-0.1159	1	PPB	08 Sep 2022 08:33:25	50.0000	3818
U	500-221479-a-9-d ms - 1	1.2563	9771	PPB	08 Sep 2022 08:35:28	50.0000	3819
U	500-221479-a-9-e msd - 1	1.4424	11096	PPB	08 Sep 2022 08:37:12	50.0000	3820
U	500-221479-a-10-b - 1	0.3534	3342	PPB	08 Sep 2022 08:39:17	50.0000	3821
U	500-221479-a-11-b - 1	0.3344	3207	PPB	08 Sep 2022 08:41:19	50.0000	3822
U	500-221479-a-12-b - 1	0.1330	1773	PPB	08 Sep 2022 08:43:13	50.0000	3823
U	500-221479-a-13-b - 1	0.1765	2083	PPB	08 Sep 2022 08:45:03	50.0000	3824
U	500-221401-a-1-d - 1	0.0286	1030	PPB	08 Sep 2022 08:46:50	50.0000	3825
U	500-221401-a-4-d - 1	0.0174	950	PPB	08 Sep 2022 08:48:37	50.0000	3826
U	500-221401-a-8-d - 1	0.0710	1332	PPB	08 Sep 2022 08:50:23	50.0000	3827
U	500-221401-a-11-d - 1	0.0147	931	PPB	08 Sep 2022 08:52:08	50.0000	3828
C	CCV - 1	98.2% 0.9820	7818	PPB	08 Sep 2022 08:53:53	50.0000	3829
C	CCB - 1	-0.1059	72	PPB	08 Sep 2022 08:55:36	50.0000	3830
U	mb 500-673439/12-a - 1	-0.0799	257	PPB	08 Sep 2022 09:06:43	50.0000	3831
U	lcs 500-673439/13-a - 1	2.0659	15535	PPB	08 Sep 2022 09:08:26	50.0000	3832
U	500-221401-a-14-d - 1	-0.0610	392	PPB	08 Sep 2022 09:10:10	50.0000	3833
U	500-221401-a-15-d - 1	-0.0281	626	PPB	08 Sep 2022 09:12:23	50.0000	3834
U	500-221401-a-16-d - 1	-0.0128	735	PPB	08 Sep 2022 09:14:08	50.0000	3835
U	500-221401-a-17-d - 1	-0.0285	623	PPB	08 Sep 2022 09:15:53	50.0000	3836
U	500-221401-a-18-d - 1	-0.0141	726	PPB	08 Sep 2022 09:17:38	50.0000	3837
U	500-221401-a-19-d - 1	0.0078	882	PPB	08 Sep 2022 09:19:23	50.0000	3838
U	500-221506-e-1-a - 1	0.4896	4312	PPB	08 Sep 2022 09:21:08	50.0000	3839
U	500-221506-e-2-a - 1	0.2698	2747	PPB	08 Sep 2022 09:22:54	50.0000	3840
C	CCV - 1	94.0% 0.9402	7520	PPB	08 Sep 2022 09:24:49	50.0000	3841
C	CCB - 1	-0.1068	66	PPB	08 Sep 2022 09:26:37	50.0000	3842
U	500-221506-e-3-a - 1	1.9643	14812	PPB	08 Sep 2022 09:28:40	50.0000	3843
U	500-221506-e-4-a - 1	0.0133	921	PPB	08 Sep 2022 09:30:24	50.0000	3844
U	500-221506-e-5-a - 1	0.6389	5375	PPB	08 Sep 2022 09:32:35	50.0000	3845
U	500-221506-e-5-b du - 1	0.5951	5063	PPB	08 Sep 2022 09:34:21	50.0000	3846

CGT6MYI76U

Method: HG Operator: Admin

Date of Analysis: 08 Sep 2022 06:22:04

Type	Sample ID	Conc.	μ Abs.	Units	Date	Integration Time	Seq ID
U	500-221506-e-5-c ms - 1	1.2914	10021	PPB	08 Sep 2022 09:36:19	50.0000	3847
U	500-221506-e-5-d msd - 1	1.2898	10009	PPB	08 Sep 2022 09:38:18	50.0000	3848
U	500-221506-e-6-a - 1	0.1080	1595	PPB	08 Sep 2022 09:40:25	50.0000	3849
U	500-221506-e-8-b - 1	0.4298	3886	PPB	08 Sep 2022 09:42:30	50.0000	3850
U	500-221305-a-1-b - 1	4.0544	29693	PPB	08 Sep 2022 09:44:16	50.0000	3851
U	500-221626-a-1-d - 1	9.8224	70760	PPB	08 Sep 2022 09:48:48	50.0000	3852
C	CCV - 1	90.3% 0.9031	7256	PPB	08 Sep 2022 09:50:33	50.0000	3853
C	CCB - 1	-0.0982	127	PPB	08 Sep 2022 09:53:04	50.0000	3854
U	500-221626-a-2-d - 1	6.6490	48166	PPB	08 Sep 2022 09:55:09	50.0000	3855
U	500-221333-a-1-b - 1	1.1284	8860	PPB	08 Sep 2022 09:56:54	50.0000	3856
U	500-221333-a-3-b - 1	0.9980	7932	PPB	08 Sep 2022 09:59:20	50.0000	3857
U	500-221333-a-4-b - 1	15.2662	109519	PPB	08 Sep 2022 10:01:26	50.0000	3858
U	500-221333-a-4-b@2 - 1	6.4428	46698	PPB	08 Sep 2022 10:09:12	50.0000	3859
U	CCV - 1	0.9402	7520	PPB	08 Sep 2022 10:10:55	50.0000	3860
U	CCB - 1	-0.1146	10	PPB	08 Sep 2022 10:13:20	50.0000	3861

General Chemistry Worksheet

Batch Number: 500-673151

Date Open: Sep 06 2022 7:43AM

Method: Moisture

Batch End: Sep 07 2022 5:10AM

Analyst: Nelson, Larry W

Lab ID	Client ID	Method Chain	Basis	Dish ID	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample	Percent Moisture	Percent Solid
500-220715-A-24	435 228 Crude Pumps Sludge 2003-22	Moisture	T	1	1.27 g	12.33 g	10.22 g	19.0778 %	80.9222 %
500-220715-A-28	439 111 D-2 Vac Tower Sludge 2027-22	Moisture	T	2	1.27 g	12.19 g	11.92 g	2.4725 %	97.5275 %
500-220715-B-39	450 113 Tk 200 LCO Cleanup R150-22	Moisture	T	3	1.28 g	12.60 g	11.37 g	10.8657 %	89.1343 %
500-221514-A-4	SAR-CSS150-70001	Moisture	T	4	1.28 g	12.28 g	11.15 g	10.2727 %	89.7273 %
500-221514-A-4~DU		Moisture	T	5	1.28 g	12.45 g	11.24 g	10.8326 %	89.1674 %
500-221514-A-5	SAR-CSS151-70001	Moisture	T	6	1.28 g	12.43 g	12.11 g	2.8700 %	97.1300 %
500-221514-A-6	SAR-CSS152-70001	Moisture	T	7	1.26 g	12.54 g	11.99 g	4.8759 %	95.1241 %
500-221514-A-7	SAR-CSS153-70001	Moisture	T	8	1.27 g	12.67 g	12.10 g	5 %	95 %
500-221514-A-8	SAR-CSS154-70001	Moisture	T	9	1.28 g	12.45 g	12.33 g	1.0743 %	98.9257 %
500-221514-A-9	SAR-CSS155-70001	Moisture	T	10	1.28 g	12.55 g	11.91 g	5.6788 %	94.3212 %
500-221514-A-10	SAR-CDS156-40001	Moisture	T	11	1.27 g	12.74 g	12.62 g	1.0462 %	98.9538 %
500-221514-C-11	SAR-CDS157-40001	Moisture	T	12	1.27 g	12.48 g	11.81 g	5.9768 %	94.0232 %
500-221506-D-1	B-1 (6'-8')	Moisture	T	13	1.28 g	12.74 g	10.22 g	21.9895 %	78.0105 %
500-221506-D-2	B-2 (2'-4')	Moisture	T	14	1.27 g	12.28 g	10.75 g	13.8965 %	86.1035 %
500-221506-D-3	B-3 (22'-23.5')	Moisture	T	15	1.28 g	12.12 g	10.17 g	17.9889 %	82.0111 %
500-221506-D-4	B-4 (20'-22')	Moisture	T	16	1.28 g	12.36 g	10.29 g	18.6823 %	81.3177 %
500-221506-D-5	B-5 (8'-10')	Moisture	T	17	1.27 g	12.29 g	9.57 g	24.6824 %	75.3176 %
500-221506-D-6	B-6 (30'-32')	Moisture	T	18	1.27 g	12.48 g	10.55 g	17.2168 %	82.7832 %
500-221506-D-8	Dup-1	Moisture	T	19	1.28 g	12.65 g	10.44 g	19.4371 %	80.5629 %
500-221726-F-1	B-1	Moisture	T	20	1.28 g	12.34 g	10.25 g	18.8969 %	81.1031 %
500-221499-F-1	JLM155B-4-5-2022082 9	Moisture	T	(19)	28.85 g	40.72 g	38.27 g	20.6403 %	79.3597 %

Balance ID: C-971
 Oven ID: C-0776
 Thermometer ID: 3364
 Date samples were placed in the oven: 09/06/2022
 Time samples were placed in the oven: 07:43
 Temperature - Start - Uncorrected: 105.4 Degrees C
 Oven Temp In: 105.2 Degrees C
 Date samples were removed from oven: 09/07/2022
 Time Samples were removed from oven: 05:10
 Temperature - End - Uncorrected: 103.3 Degrees C
 Oven Temp Out: 103.1 Degrees C

Chain of Custody Record

539087



Environment Testing
TestAmerica

Address Fullerton Pike

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <u>R. Kietz</u>		Site Contact <u>S. Harnick</u>		Date <u>8/29/22</u>		COC No	
Company Name <u>VET Environmental</u>		Tel/Email <u>Sarah@vet-env.com</u>		Lab Contact <u>R. Kietz</u>		Carrier <u>FEDEX</u>		of COCs	
Address <u>23350 Fountain Dr</u>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <u>std</u> <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
City/State/Zip <u>Bldgtn IN 47404</u>									
Phone <u>812 822-0400</u>									
Fax									
Project Name <u>Fullerton Pike</u>		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)
Site		B-1 (6'-8')		8/29/22 1010	G S	S	6		VOCS PATE PCBE Metals
P O #		B-2 (2'-4')		8/29/22 1020	G S	S	6		
		B-3 (22'-23.5')		8/29/22 1125	G S	S	6		
		B-4 (20'-22')		8/29/22 1218	G S	S	6		
		B-5 (8'-10')		8/29/22 1415	G S	S	6		
		B-6 (30'-32')		8/29/22 1538	G S	S	6		
		Trip Blade		8/29/22 -	-	-	-		
		DUP-1		8/29/22 -	G S	S	6		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input checked="" type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments: <u>WL IN QA/QC</u>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <u>4.4</u> Corr'd <u>2.4</u>		Therm ID No <u>139719, 31711</u>			
Retransmitted by <u>[Signature]</u>		Company <u>VET</u>		Date/Time <u>8/29/22 1700</u>		Received by <u>FEDEX</u>		Company <u>FEDEX</u>	
Retransmitted by		Company		Date/Time		Received by		Company	
Retransmitted by		Company		Date/Time		Received in Laboratory by <u>Stephanie Hernandez</u>		Company <u>EETA</u>	
								Date/Time <u>8/30/22 1015</u>	



ID: JOTA (812) 822-0400
AMIDOVIC
ENVIRONMENTAL
J. FOUNTAIN DR.

SHIP DATE: 22FEB22
ACTWGT: 20.00 LB MAN
CAD: 033264/CAFE3509

BLOOMINGTON, IN 47404
UNITED STATES US

**SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST**

UNIVERSITY PARK IL 60484

(708) 634-6200

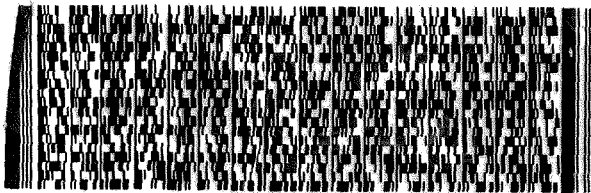
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NU:

PD:

DEPT:

AIA: ||| ||| |||



**FedEx
Express**



J2110201210101127

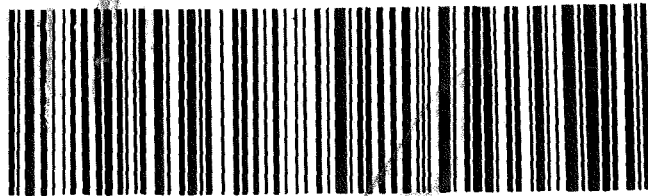
FedEx

TRK# 1893 4455 5082
0221

**TUE - 30 AUG 10:30A
PRORITY OVERNIGHT**

NA JOTA

**60484
IL-US ORD**



Part# 15097-436 BRDB EXP 04/23



ORIGIN ID: JOTA (812) 822-0400
SARA HAMIDOVIC
VET ENVIRONMENTAL
2335 W. FOUNTAIN DR.

SHIP DATE: 22FEB22
ACTWGT: 20.00 LB MAN
CAD: 033264/CAFE3509

BLOOMINGTON, IN 47404
UNITED STATES US

500-221506 Waybi

**SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST**

UNIVERSITY PARK IL 60484

(708) 634-6200

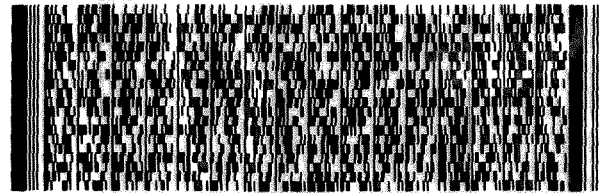
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PD:

DEPT:

RMA: ||| ||| |||



**FedEx
Express**



J2110201210101127

FedEx

TRK# 1893 4455 5071
0221

**TUE - 30 AUG 10:30A
PRORITY OVERNIGHT**

NA JOTA

**60484
IL-US ORD**



Part# 15097-436 BRDB EXP 04/23

ORIGIN ID:PHDA (812) 822-0400
SARA HAMIDOVIC
VET ENVIRONMENTAL ENGINEERING, LLC
2335 W. FOUNTAIN DRIVE
BLOOMINGTON, IN 47404
UNITED STATES US

SHIP DATE: 29JUL21
ACTWT: 10.00 LB MAN
CAD: 0562071/CAFE3504

TO

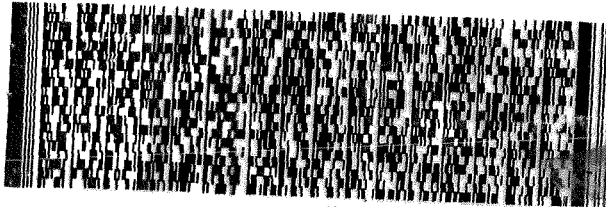
EUROFINS TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 604843101

(708) 634-6200

REF: S600-93729

RMA: 011 0000 000



FedEx
Express



FedEx

TRK# 5174 1262 3343
0221

TUET 30 AUG 10:30A
PRM TY OVERNIGHT

NAJOTA

60484

-US ORD



56162/0255/6F4D

EXP 04/23

Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

0.9/0.4 **Chain of Custody Record**



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Kintz, Robin M		Carrier Tracking No(s):		COC No: 500-164857.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Robin.Kintz@et.eurofinsus.com		State of Origin: Indiana		Page: Page 1 of 1			
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note):				Job #: 500-221506-1			
Address: 180 S. Van Buren Avenue,		Due Date Requested: 9/13/2022		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trnzma Z - other (specify)	
City: Barberton		TAT Requested (days):									
State, Zip: OH, 44203		PO #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8002A/3540C_PCB_1YR PCBs 8270E/3540C (MOD) PAH + 1-methylnaphthalene, 2-methy		Total Number of containers		Other: E136			
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:									
Email:		Project #: 50008168		Project Name: Fullerton Pike		SSOW#:		Site:			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
								Preservation Code:			
B-1 (6'-8') (500-221506-1)		8/29/22		10:10 Eastern		Solid		X X			
B-2 (2'-4') (500-221506-2)		8/29/22		10:22 Eastern		Solid		X X			
B-3 (22'-23.5') (500-221506-3)		8/29/22		11:25 Eastern		Solid		X X			
B-4 (20'-22') (500-221506-4)		8/29/22		12:18 Eastern		Solid		X X			
B-5 (8'-10') (500-221506-5)		8/29/22		14:15 Eastern		Solid		X X			
B-5 (8'-10') (500-221506-5MS)		8/29/22		14:15 Eastern		MS		X X			
B-5 (8'-10') (500-221506-5MSD)		8/29/22		14:15 Eastern		MSD		X X			
B-6 (30'-32') (500-221506-6)		8/29/22		15:33 Eastern		Solid		X X			
Dup-1 (500-221506-8)		8/29/22		Eastern		Solid		X X			
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>Shirley Scott</i>		Date/Time: <i>9/2/22 1530</i>		Company: <i>ETNA</i>		Received by: <i>Jenny Dora</i>		Date/Time: <i>9-3-22 930</i>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:						

Page 3219 of 3221

Eurofins - Canton Sample Receipt Form/Narrative

Login # : _____

Barberton Facility

Client ETA

Site Name _____

Cooler unpacked by:

Cooler Received on 9-3-22

Opened on 9-3-22

Nancy Berger

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

Eurofins Cooler # TA ~~Foam Box~~ Client Cooler Box Other _____

Packing material used: Bubble Wrap ~~Foam~~ Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. 0.4 °C Corrected Cooler Temp. 0.4 °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC286797
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes ← Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: VET Environmental Engineering, LLC

Job Number: 500-221506-1

Login Number: 221506
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,1.9,1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	